

Vivekanand Education Society's

Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Key Indicator 6.3

Metric No. 6.3.3

6.3.3 Average number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the last five years

DVV Clarification

" Provide Event Brochures and reports of AICTE Sponsored STTP on Green IoT--Phase I, organized by Department of Electronics & Telecommunication in association with AICTE AICTE Sponsored STTP on Green IoT--Phase II, coordinated by Department of Computer Engineering, Department of Information Technology and Department of Master of Computer Applications AICTE Sponsored STTP on Green IoT--Phase III, organized by Department of Electronics & Telecommunication Engineering in Collaboration with Department of Electronics Engineering And Department of Instrumentation Engineering One week Short Term Training program on Aarohan Faculty Development Program (FDP) on EPNCVII One week Short Term Training program on Aarohan Faculty Development Program One week Faculty Development Program (FDP) on EPNCVII for 2016-17, 2017-18, 2018-19, 2019-20, 2020-21 with Photographs with date and caption."

Link to the Event Brochure and Report with Photographs for the respective Professional Development Programs

| Sr. No. | Title of the professional development program organized | | | | |
|------------|---|---------------------------------|----|--|--|
| | AICTE Sponsored STTP on Green IoTPhase I | | | | |
| 1 | A. | Event Brochure | 3 | | |
| 1 | B. | Report | 5 | | |
| | C. | Event Photographs with Captions | 79 | | |
| | AICTE Sponsored STTP on Green IoTPhase II | | | | |
| 2 | A. | Event Brochure | 81 | | |

DVV Query of 6.3.3 Index



Vivekanand Education Society's

Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

| | B. | Report | 83 | | | |
|---|---|---|-----|--|--|--|
| | C. | Event Photographs with Captions | 192 | | | |
| | AICT | TE Sponsored STTP on Green IoTPhase III | | | | |
| 3 | A. | Event Brochure | 195 | | | |
| | B. | Report | 197 | | | |
| | C. | Event Photographs with Captions | 297 | | | |
| | One week Short Term Training program on Aarohan Faculty Development | | | | | |
| | Progi | am | | | | |
| 4 | A. | Event Brochure | 299 | | | |
| | B. | Report | 300 | | | |
| | C. | Event Photographs with Captions | 315 | | | |
| | One v | week Faculty Development Program (FDP) on EPNCVII | | | | |
| 5 | A. | Event Brochure | 322 | | | |
| | B. | Report | 323 | | | |
| | C. | Event Photographs with Captions | 327 | | | |

DVV Query of 6.3.3 Index

Vivekanand Education Society's Institute of Technology, Chembur, Mumbai

AICTE SPONSORED ONLINE STTP







Department of Electronics & Telecommunication (In Association with VESIT IQAC & IIC)

Organizes

One Week AICTE Sponsored

Online STTP

on

Green Internet of Things

(10th to 15th August, 2020)

V. E. S. Institute of Technology, Hashu Advani Memorial Complex, R. C. Marg, Collector's Colony, Chembur, Mumbai – 400 074.

> Phone: 022 – 61 532 532/500 Fax: 022 – 61 532 555 Email: vesit@ves.ac.in

About VESIT

Vivekanand Education Society's Institute of Technology (VESIT) established in 1984, is one of the premier engineering colleges affiliated with the University of Mumbai. VESIT offers Bachelors programs in engineering under the following streams: Electronics, Electronics & Telecommunication, Information Technology Computer and Instrumentation.

In addition, VESIT offers Master of Engineering in Instrumentation and Control, Information Technology and Electronics & Telecommunication streams and Master of Computer Application. VESIT is a recognised Ph.D. Center for Engineering and Technology of University of Mumbai, and also a Lifelong Learning Center.

About Green Internet of Things

Internet of things (IoT) applications forecast to have 50 billion connected devices by the end of 2020. IoT promises to connect all industrial and consumer appliances to cloud service providers. IoT is impacting every aspect of our lives from wearable devices such as fitness bands and smart watches to personal health care monitors. IoT devices are making us connected. Homes and white goods appliances are also increasingly becoming IoT edge node candidates. The Smart Home concept where energy consumption is carefully monitored by smart gateways at home and appliances can be remotely controlled.

This Short Term Training Program (STTP) on Green Internet of Things is being organized by Department of Electronics and Telecommunication Engineering, Vivekanand Education Society's Institute of Technology for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology.

This program focuses on development of various industrial and societal applications using the Internet of Things. The eminent speakers and practitioners from academia and industries will conduct the sessions to motivate the participants to undertake interesting and innovative ideas. The program will further explore research avenues in the domain of IoT and Green IoT through the effective discussion during the training.

Course Objective

The objective of this STTP is acquainting academicians and industry personnel with the IoT technology, recent trends and green initiatives, providing exposure to technologies supporting Green IoT, hardware and software development tools and demonstrations, predictive analytics using IoT, security in IoT.



Resource Person:

The speakers would be eminent personalities from academia and industries.

Registration Fee:

STTP Course is Free

Who can attend?

- ❖ Faculty from AICTE approved Engineering Institutes (Degree/ Diploma) & MCA institutes
- ❖ Industry Representative

Registration Form Link:

https://forms.gle/MyRk2NPpa5BN26ct6

Telegram Channel Link:

https://t.me/joinchat/ShlH3xth3D7rrGrCiKdgtw

For enquiries contact:

Dr. Nadir Charniya Mob: +919764996706

Email: nadir.charniya@ves.ac.in

Dr. Saylee Gharge Mob: +919821867450

Email: saylee.gharge@ves.ac.in



Patrons:

Shri B. L. Boolani, President, VES Trust Dr. (Mrs.) J. M. Nair, Principal, VESIT Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT

Mrs. Shoba Krishnan, Head EXTC Dr. Ramesh Kulkarni, Deputy Head, EXTC

Program Evaluation Committee for the STTP:

Dr. (Mrs.) J. M. Nair, Principal (Chairperson)
Dr. Nadir Charniya, STTP Coordinator
(Member Secretary)
Mrs. Shoba Krishnan, Head EXTC (Member)
Mrs. Kavita Tewari, Head ETRX (Member)
Dr. Ramesh Kulkarni, Deputy Head EXTC

Course Coordinator:

(Member)

Dr. Nadir Charniya, Professor, EXTC Mob: +919764996706 Email: nadir.charniya@ves.ac.in

Course Co-coordinator:

Dr. Saylee Gharge, Associate Professor, EXTC Mob: +919821867450

Email: saylee.gharge@ves.ac.in

Organizing Committee:

Mr. A. Naganada, Associate Professor, EXTC
Mr. Shobhit Khandare, Assistant Professor, EXTC
Mrs. Pallavi Gangurde, Assistant Professor, EXTC
Mrs. Nusrat Ansari, Assistant Professor, EXTC
Mr. Sanjay Mirchandani, Assistant Professor, EXTC
Mr. Chintan Jethva, Assistant Professor, EXTC
Mrs. Arti Sawant, Assistant Professor, EXTC
Mr. Gaurav Tawde, Assistant Professor, EXTC
Mr. Ajinkya Valanjoo, Assistant Professor, EXTC

Instructions to Participants:

The person willing to join this program need to have the following basic requirements:

- ❖ Laptop/Desktop with good internet connection and Gmail account.
- Telegram App should be installed on mobile. Google App, Google Meet, Zoom App, MS Teams should be installed on a Laptop/Desktop.
- ❖ Every participant must register by filling up the online form and join telegram channel thereafter.
- ❖ All communications will be on Telegram channel.
- ❖ Fill the Google registration form carefully and check your name, university/ institution/ college name and e-mail ID before submission.
- No correction in the certificate will be done due to incorrect information provided in the registration form.
- **❖** Last Date to fill the registration form is 05th August, 2020.
- ❖ Confirmation of registration will be communicated to the registered e-mail ID by 08th August, 2020.
- ❖ Participants need to attend daily online sessions at the scheduled time.
- It is mandatory to fill up the feedback forms.
- Online Test, based on all the topics discussed during the program will be conducted. Minimum 40% score is necessary for certification.
- ❖ AICTE certificates will be provided on participants' e-mail ID.

STTP on Green IoT Phase-1 Brochure







Proceedings of

One Week AICTE Sponsored Online STTP



Department of Electronics & Telecommunication

Vivekanand Education Society's Institute of Technology

(In Association with IQAC and IIC)

Hashu Advani Memorial Complex, Collectors Colony Chembur (East), Mumbai – 400 074

INDEX

| Foreword | 1 |
|--|-----------|
| Preface | 2 |
| Program Committees | 4 |
| Green IoT: Course Objectives and Outcomes | 6 |
| Speakers and their Profile | 7 |
| Inauguration | 16 |
| Session-wise Summary | 17 |
| Valedictory ANNEXURE-I: List of Qualified Participants | 24 |
| ANNEXURE-I: List of Qualified Participants | 25 |
| ANNEXURE-II: List of Experts, Affiliation, and Topics | 28 |
| ANNEXURE-II: List of Experts, Affiliation, and Topics ANNEXURE-III: STTP Schedule | 30 |
| ANNEXURE-IV: Final feedback with Score of Online Test and Test Questions | <i>33</i> |
| ANNEXURE-V: Session-wise Attendance and Feedback | 42 |
| ANNEXURE-VI: Grid Photographs | 67 |
| ANNEXURE-VII: Copy of Sample Certificate | |
| ANNEXURE-VIII: STTP Brochure | 70 |
| | 2 |
| | |
| | × 0 |
| | |
| | |
| | |
| \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | |

FOREWORD



I am very much delighted to know that our Electronics and Telecommunications Department is arranging an AICTE sponsored Faculty Development Program on "Green Internet Of Things". As all of you know, IOT has the potential to revolutionize the world, similar to what internet did earlier. It can be considered as a facilitator of 'smart world' which connects devices with unique addresses to interact with each other and with outside world. i.e. It enables physical objects to see, hear, think and perform jobs by having them talk to each other, to share information and co-ordinate decisions. The applications are of mainly three kinds, IOT for Consumers, IOT for Enterprises and IOT for process industries (IIOT). Alexa, Wearable device used by miners, and Smart grid falls under these categories respectively. Green IOT targets 'sustainable smart world' by reducing energy consumption of the IOT devices and processes. It envisages the practice of designing, manufacturing, using, and disposing of computers, servers, and associated sub systems, and networking and communications systems efficiently and effectively with minimal or no impact on the environment.

I am very happy to note that the technical experts from industries such as Accenture, Capgemini, TCS are sharing their expertise in this workshop. Hope that the participants of this workshop will make full use of this golden opportunity, and initiate, IOT related projects in their respective educational institutions leading to tangible research in this interdisciplinary, emerging area.

Dr. (Mrs) J. M. Nair

PRINCIPAL, VESIT

PREFACE



The AICTE Sponsored training program on *Green Internet of Things* has been organized by Department of Electronics and Telecommunication Engineering, Vivekanand Education Society's Institute of Technology for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology. The objectives of the training program were acquainting participants with the technology of Internet of things (IoT) and exposure to recent trends in IoT, introducing and exploring the technologies supporting Green IoT, exposure to security and privacy in IoT and Green initiative, demonstrating hardware and software platforms and tools for IoT, providing exposure and demonstration on IoT applications and Artificial Intelligence (AI) based predictive analytics with IoT, The program also focused on developments of various industrial and societal applications using the Internet of Things. The eminent speakers and practitioners from academia and industries conducted the sessions and demonstrations to motivate the participants to undertake interesting and innovative ideas. The program helps to explore research avenues in the domain of IoT and Green IoT through the effective discussion during the training.

On behalf of Department of Electronics & Telecommunication of Vivekanand Education society institute of technology, Mumbai we would hereby express profound sense of gratitude towards AICTE for Sponsoring Training Program on Green Internet of Things and also giving the opportunity to conduct it online due to COVID crisis.

We are thankful to Shree B L Boolani, President, Vivekanand Education Society, Dr. Faruk Kazi, Chairman, BoS EXTC University of Mumbai, Col. B. Venkat, Director, Faculty Development Cell AICTE, New Delhi, Dignitaries from AICTE, Special invitee Ms. Kalapana from Accenture, Dr. J. M. Nair, Principal, VESIT, Dr. M. Vijayalakshmi, Vice Principal, VESIT, Prof. Shoba Krishnan, Head, Electronics and Telecom Dept., Dr. Ramesh Kulkarni, Dr. Saylee Gharge, Prof. A. Nagananda, PEC members, the STTP team and the participants from all over the country.

Short Term Training Program on 'Green Internet of Things'

Special thanks are due to all the speakers from Accenture, Capgemini, TCS, L and T and academia of

repute, who despite of their busy schedule and workload were able to find some time for us and

imparted the knowledge that paved a way for better understanding of the fundamentals of the

subject and their applications.

I duly acknowledge the help, direct or indirect of the whole department and VESIT. I am confident

that the knowledge gained herein and the practical experiences will be an invaluable in the long run.

Dr Nadir Charniya

Course Coordinator

Professor. Electronics and Telecom Dept., VESIT

3

PROGRAM COMMITTEE

Patrons:

Shri B. L. Boolani, President, VES Trust

Dr. (Mrs.) J. M. Nair, Principal, VESIT

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT

Prof. Shoba Krishnan, Head Electronics and Telecom.

Dr. Ramesh Kulkarni, Deputy Head, Electronics and Telecom.

Program Evaluation Committee for the STTP:

Dr. (Mrs.) J. M. Nair, Principal (Chairperson)

Dr. Nadir Charniya, STTP Coordinator (Member Secretary)

Prof. Shoba Krishnan, Head, Electronics and Telecom (Member)

Mrs. Kavita Tewari, Head, Electronics (Member)

Dr. Ramesh Kulkarni, Deputy Head, Electronics and Telecom (Member)

Course Coordinator:

Dr. Nadir Charniya, Professor, Electronics and Telecom.

Course Co-coordinator:

Dr. Saylee Gharge, Associate Professor, Electronics and Telecom.

Advisory Committee

Prof. D. N. Malkhede. Adviser, RIFD, AICTE, New Delhi

Col. B. Venkat. Director (FDC), AICTE, New Delhi

Organizing Committee:

Mr. A. Nagananda, Associate Professor, Electronics and Telecom.

Mr. Shobhit Khandare, Assistant Professor, Electronics and Telecom.

Mrs. Pallavi Gangurde, Assistant Professor, Electronics and Telecom.

Mrs. Nusrat Ansari, Assistant Professor, Electronics and Telecom.

Mr. Sanjay Mirchandani, Assistant Professor, Electronics and Telecom.

Mr. Chintan Jethva, Assistant Professor, Electronics and Telecom.

Mrs. Arti Sawant, Assistant Professor, Electronics and Telecom.

Mr. Gaurav Tawde, Assistant Professor, Electronics and Telecom.

Mr. Ajinkya Valanjoo, Assistant Professor, Electronics and Telecom.

GREEN IOT

Course Objectives:

- 1. Acquainting participants with the technology of Internet of things (IoT) and exposure to recent trends in IoT.
- 2. Introducing and exploring the technologies supporting Green IoT
- 3. Exposure to security and privacy in IoT and Green initiative.
- 4. Demonstrating Hardware and Software platforms and tools for IoT.
- 5. Providing exposure and demonstration on IoT applications and Artificial Intelligence (AI) based predictive analytics using IoT.

Course Outcomes:

On completion of the course participants will be expected to:

- 1. Have good understanding of IoT Technology, emerging trends in IoT and various concept and features of Green IoT technology.
- 2. Comprehend and apply different hardware and software tools used for implementation of IoT.
- 3. Have good understanding of cloud platform for IoT, security and privacy in IoT, and Green initiatives towards IoT.
- 4. Apply predictive data analytics with the fusion of AI and IoT using Cloud and programming in python.
- 5. Develop IoT applications with the aid of IoT tools and AI tools.

SPEAKERS AND THEIR PROFILE

Ms. Kalpana Banka (Application Design Architect, Accenture)



Ms Kalpana Banka has about 11 years of experience in IT industry. She has primarily worked into .NET Technologies and earned several Microsoft certifications in this domain.

She has been working with Accenture since 2018 into Full Stack Web Application & Development which includes JavaScript Frameworks like Angular, ReactJS, NodeJS databases like MongoDB, Cassandra. She also has a passion in learning things about Adobe Analytics and creating a CMS using Adobe Skills.

Mr. Shailesh Agaskar (Senior Enterprise Solution Architect, Capgemini Mumbai)



Mr. Shailesh Agaskar is a Senior Enterprise Solutions Architect with Cappemini Cloud & amp; Digital Practice with over 2 decades of rich and diverse experience in Information Technology, Business, Consulting and Leadership.

Expertise in Architecting Large Complex Software Systems, Software Products, Solution Conceptualization, Digital Transformation Assessments, and End to End

Solution Delivery to conform adherence to Business Outcome. Driving Modern disruptive technologies adoption especially from Edge to End Customer providing a seamless customer experience.

Drive Thought leadership, Innovation, Architecture Governance Boards, Evaluate Emerging Technologies, Technology & Evaluate Emerging Technologies, Technology & Evaluate Emerging Strategies, Promote Industrialization and Lead Architecture Community for UK Geography to Mentor Aspiring Architects. TOGAF 9 Certified and Cappemini Certified Lead Architect. Member of industry forums like The Open Group, IEEE.

Specialization in:

- IoT, IIoT & Edge Computing
- Cloud Specialization (Azure , AWS) PaaS, IaaS , iPaaS (Integration Platform As A Service),
 Security Architecture.
- Artificial Intelligence using Machine Learning, NLP, Enterprise Data Lake

Dr. Amol Madane (*Technical Architect, TCS Pune*)



Dr. Amol Madane is currently working as Technical Architect with Innovation and Digital Operation Centre (IDOC), EIS ERUG, Tata Consultancy Services Ltd., Pune, India. He has 13+ years of corporate onsite and offshore experience while working with various clients such as Jaguar Land Rover, Newcrest Mining Ltd., Tata Steel Europe, Rio Tinto, Apple Inc., Cardinal Health Care.

Honored with New India Award in "Shaping of New India" Category by Honorable chief minister of Maharashtra Shri. Devendra Fadnavis and India's Minister of Human Resource Development (HRD) Shri. Satya Pal Singh on 11 Feb 2018. He received "Innovation Pride Award" at TCS level on 16 Jun 2020. This is solved Mining customer's problem with Innovative solution.

Published 7 research papers in international journals, 13 in international conferences, and 13 in national conferences in area of Digital Signal Processing, Video Processing, Image Processing.

Guided PhD, PG, UG research scholars of various national and international universities when I was working with TCS innovation labs.

Implemented "Client Project Simulation Workshop" at TCS Initial Learning Program Centre, Trivandrum with innovation ideas in Mar 2011 and got the "Best Trainer" award for the same.

Initiated collaboration with Indian Institute of Technology, Bombay (IIT-B), Indian School of Mines, Dhanbad (Formally, known as Indian Institute of

Working as Editorial Board Member, Reviewer of various international and national journals, conferences. Working as member of PhD, PG, UG projects evaluation committee in IITB, and various international and national universities.

Mr. Bhupendra Bhate (Retd. Chief Innovation Officer, L&T Technology Services Ltd, Mumbai)



Bhupendra Bhate is a business leader with a very good blend of business acumen and in-depth understanding of cutting-edge technologies. He has over 35+ years of international exposure and experience in Engineering, Product Development and software space within Industrial Products, Medical, Aerospace, Automotive, Consumer Electronics etc. He has expertise in formulating strategies and translating it into actionable goals for top line and bottom line growth.

His last job at L&T Technology Services Ltd (LTTS) was Chief Innovation Officer. In this role, he was keenly involved in harnessing new technologies and commercially exploiting the same to provide innovative and intellectual property-based solutions to its customers and thereby creating values for his organization.

Prior to this, Bhupendra was Chief Operating Officer and Whole Time Board Member of L&T Technology Services. In this role, Bhupendra managed various business units with P&L responsibilities, providing strategic guidance, facilitating aggressive growth, ensuring operational excellence & high-quality deliverables, and incubating new businesses.

Other positions held by Bhupendra includes Chief Digital Officer, Chief Delivery Officer and Chief of Operations. Starting his career with Godrej & Boyce, Bhupendra worked as General Manager with Atos Origin and moved on to Head a Startup company - SoftDEL Systems Ltd. as President & COO. From December 2003, he has been with L&T.

Mr. Amit Mishra (Corporate Trainer, EDUX LABS)



Mr. Amit Mishra holds Bachelors of Technology & Master of Technology in Electronics & communication. Expertise in the field of Internet of Things (IoT), Embedded Systems, Network Programming, Cloud Computing with Amazon Web Services, Artificial Intelligence & Machine Learning, Data Science using R Programming, AWS Cloud IoT, Oracle IoT Cloud, IBM Bluemix, Python programming of 6+ Years.

Networking – Sockets, IPV4/IPV6, TCP/IP Socket Programming, Netmiko – network device interaction, Network Automation, Splunk, Python Pexpect, Paramiko, Juniper Networks, Python API - Arista, Ansible Networking Modules, Git, TCP echo client / server Application, Internet interaction with HTTP, AWS Cloud.

IOT & Embedded System: Expertise in AVR, ARM Cortex-M, AVR 8051, PIC, ARM Processor, Raspberry PI, NodeMCU, Arduino, Esp8266-01. Implemented IoT Application Layers & Network Layer protocols like HTTP, Mqtt, CoAP, LoRA, LORAWAN, Gateways, Wireless Sensor Network, WebSocket, XMPP, UPnP Protocol. Cloud & Tools like: Amazon AWS IoT Core, IBM Watson, Microsoft Azure, NodeMCU.

IOT Security – Network security, cryptography, database encryption and decryption, IoT cloud services, TCP/IP security, HTTP, MQTT, CoAP security. Industry protocols for IOT (IIoT) – ModBus,

OPC UA, RabbitMQ, AMQP,

Experience of delivering 400+ Corporate Trainings, Faculty Development Program (FDP), Workshops and Seminars on various modules at International & Pan India Level including organization and reputed Technical University (IITs, NIT). Hitachi Ventara Certified Trained for Data Science & Capgemini Trainer for AI & ML with 90% Trainer Test score.

Dr Faruk Kazi (*Professor & Dean-Research, Development and Consultancy,* **V.J.T.I Mumbai**)



Dr Faruk Kazi, received his PhD degree from IIT Bombay, in year of 2009. He is currently working as Professor, Head of Electrical engineering dept. and Dean R&D at VJTI, Mumbai. His research interest includes critical infrastructure protection and cyber-physical systems.

He is a senior member of IEEE and working as chair of WG-3 of India smart grid forum, PPP initiative of ministry of power, government of India. He also works as a consultant with Tata consulting Engineers for smart grid projects. As well, He is the chairman of Board of Studies for Electronics & Telecommunication department at Mumbai University.

He has worked as visiting research scholar at swiss federal institute of technology, EPFL, Switzerland and tufts university, Boston. He has published more than 90 research papers in various international journals & conferences.

Dr. Y. S. Rao (Vice Principal, Sardar Patel Institute of Technology, Mumbai)



Dr. Y. S. Rao has 30 years of vast experience in Engineering, Research and Consultancy. He is working as Professor, Head of Dept. and Vice Principal at SPIT Andheri, Mumbai. He has done Master's in Electronics Engineering in 1997 and Ph.D. (ES) from IIT Bombay in 2010. He has completed various funded as well as consultancy projects in India and abroad and guiding 7 candidates for their Ph.D. research work.

He has carried responsibilities in the capacity of Board of Studies, Local Managing Committee, and member of MPSC and member of LIC committee of Univ. Of Mumbai and also has been awarded and recognized by IEEE Computer Society. He has patents to his credit along with more than 80 research publications.

Dr. Manesh B Kokare (*Professor*, *SGGS College of Engineering and Technology*, Nanded)



Dr. Manesh Kokare is Professor and Head of the Department of Electronics and Telecommunication Engineering, SGGS COET, Nanded.

He received his Diploma in Industrial Electronics Engineering from Board of Technical Examination, Maharashtra, India, in 1990, and B.E. and M. E. Degree in Electronics from Shri Guru Gobind Singhji Institute of Engineering and Technology Nanded, Maharashtra, India, in 1993 and 1999 respectively, and Ph.D. from the Department of Electronics and Electrical Communication Engineering, Indian

Institute of Technology, Kharagpur, India, in 2005. He completed Post-Doctoral research work in 2011-12 from University of California Santa Barbara USA.

He was also Dean Research and Development of institute from 2016 to 2018 at SGGS Nanded. He has published about 85 papers in international and national journals and conferences with research citation about 2000+, i-10 index: 32, and h-index: 20.

He received the prestigious Career Award for Young Teachers (CAYT) for the year 2005 from All India Council for Technical Education (AICTE), New Delhi, India. The award carries a research grant of Rs. 10.5 lakhs spread over three years. In December 2009, he honored with "Best Achiever of SGGS Alumni". He also received BOYSCAST Fellowship of US \$ 38000 from Government of India to Carryout Post-Doctoral Research Work and University of California USA in 2011-12. Recently Dr. Kokare has been honored with "Best Teacher Award" by Swami Ramanand Teerth Marthwada University Nanded in September 2013. Under his supervision ten research scholars completed PhD in Electronics and Computer Engineering and presently six research scholars are working towards their PhD. He is a life member of System Society of India, Indian Society for Technical Education (ISTE), and The Institution of Electronics and Telecommunication Engineers (IETE) and Member of IEEE, Member of IEEE Signal Processing Society, Member of IEEE Computer Society.

Dr. Mahesh Bundele (Principal and Director, Poornima College of Engineering, Jaipur)



He has worked on various Wi-Fi/ Wi-Max based system designs and implementations for college and Pusad city villages. He has guided many research projects at UG and PG level on various applications in Electrical, Electronics & Computer Sciences. He has designed and executed various LT & HT electrical installations.

He was also appointed as Principal of Babsaheb Naik College of Engineering, Pusad from March 2011. He has worked in various capacities such as, member Board of Studies, Chief-Valuation officer etc. at University level.

He has also worked for getting ISI to Krishak Motor pumps at Amravati. He has visited US, UK, China and Malaysia for research presentations.

He has worked as Dean R&D at Poornima University, Jaipur during 2011- 2018. From 1st September 2018, he is working as Principal and Director of Poornima College of Engineering, Jaipur.

At Poornima College of Engineering he has established unique teaching-learning processes and implemented Outcome Based Education system in the Institute.

He has delivered many invited talks and has been on advisory committees of IEEE International Conferences. He has published more than 50 research papers in National and International conferences and journals. He is senior member of IEEE, Life member of ISTE and IEI and the member of ACM.

He has worked as Secretary in IEEE Rajasthan Subsection and also as Membership Development Chair in IEEE Rajasthan Subsection. He is member standing committee member for Technical and Professional activities at IEEE Delhi Section and also a member of execom IEEE Delhi Section. Currently he is Vice Chair in Jaipur ACM Professional Chapter and playing active role in ACM activities. He is having total 33 years of teaching including 7 years of research.

Dr. Saurabh N. Mehta (Chief Academic Officer and Professor, VIT Mumbai)



Dr. Saurabh N. Mehta has more than 18 years of professional, research, and teaching experience in wireless system development altogether. He is currently working as a chief academic officer and professor at Vidyalankar Institute of Technology, Mumbai.

Short Term Training Program on 'Green Internet of Things'

He is responsible for integrating academia and industry collaboration, bringing innovation and intrapreneurship in academia, research program, designing curricula, implementing academic planning and policies, human resource development, and educational training for Vidyalankar Institute of Technology,

Mumbai. He earned his B.E., M.S., and PhD. degrees in Electronics Engineering from Mumbai University, Mumbai, India, Ajou University, South Korea, and Inha University, South Korea,

Currently, he is also serving as Technical and Professional Activity Chair (TPAC) at IEEE Bombay Section. His research interests are in the area of Wireless Networks, Game Theory, and Educational Technology. He is also running his own "Sun Wireless Technologies", a consultancy firm in the area of embedded System, wireless technology, education, and technical market research.

INAUGURATION

The inauguration of STTP on 'Green IoT' was scheduled on 10th August 2020. The program was organized in association with VESIT- Internal Quality Assurance Cell and Institution's Innovation Council. The function began in presence of dignitaries and guests with lighting of digital lamp in front of Maa Saraswathi.

Guest list for inauguration function included Shri B. L. Boolani, President of Vivekanand Education Society Trust., special Invitee Shri Vijay Talreja, Chief Guest, Dr. Faruk Kazi, Keynote speaker, Mrs. Kalpana Banka, Principal Dr. (Mrs.) J. M. Nair, Vice Principal Dr. (Mrs.) M. Vijayalakshmi, Prof. Shoba Krishnan (Head, Electronics and Telecom Dept., VESIT), Dr. Ramesh Kulkarni (Dy. Head Electronics and Telecom Dept., VESIT), Prof. A. Nagananda (TPO, VESIT), Dr. Nadir Charniya (STTP Coordinator), Dr. Saylee Gharge (STTP Co-coordinator), PEC members and the participant. The session moderator Mr. Shobhit Khandare welcomed the dignitaries, guests & participants, and expressed gratitude towards AICTE for sponsoring the Short-Term Training Program.

Course Coordinator, Dr.Nadir Charniya, Professor from Department of Electronics & Telecommunication gave course overview. He mentioned that about 200 PAN India participants from Tamilnadu, Andhra Pradesh, Telangana, Karnataka, W. Bengal, Gujarat, Goa, UP, Tripura etc. registered online, 82 were shortlisted based on AICTE approval of Institute and stream of participants, 61 gave confirmation. After the course overview Dr. (Mrs.) J. M. Nair, Principal, VESIT addressed the gathering with her words of guidance; mentioning the significance of IoT in every field of engineering and research. She gave best wishes to the proceedings and learnings from of the STTP

Shri B.L Boolani President of Vivekanand education society addressed everyone with his words of wisdom. Further, the audience were addressed by Chief Guest, Dr. Faruk Kazi advising the participants to take the benefit of learnings in the STTP. He also motivated the participants to take innovative projects in the domain of IoT. The function reached to successful end with vote of thanks by Dr. Saylee Gharge (STTP Co-coordinator).

SESSION-WISE SUMMARY (Day 1 to Day 6)

Day 1, 10th August 2020

Ms. Kalpana Banka, Keynote Speaker from Accenture started the first session on 'IoT and Green Initiatives' with quick introduction on Internet of Things (IoT). IoT refers to Internet enabled devices that establish communication between them in the network. The Internet of Things extends the internet beyond computers and smartphones to a whole range of other things, processes and environments. Overview of the history of the Internet of Things was then given by the speaker.

IoT is an important piece of technology that is set to improve greatly over time. The need of IoT was discussed as more data means better decisions, ability to track and monitor things, lighten the workload with automation, Increases efficiency by saving money and resources and better quality of life. In a nutshell IoT wants to connect all potential objects to interact each other on the internet to provide secure, comfort life for human. The ideas to protect digital life by securing IoT-connected devices was brought into focus by Ms. Kalpana Banka. Also the future trends such as Artificial Intelligence, Big Data, Blockchain for IoT Security, Smart Home Devices, Edge Computing will take Prominence over Cloud Computing etc was discuss at length.

Followed by the Keynote address next session was delivered by Dr. Faruk Kazi, VJTI Mumbai. He talked on Security and Privacy in IoT with introduction of internet of things which is broadly classified as consumer IoT, enterprise IoT, industrial IoT. From IoT perspective Top 10 application area in 2020 was discussed at length.

Evolution of IoT such as 1). Pre Internet 2). Internet of content 3). Internet of services web 2.0, e-productivity, e-commerce were described at length. The fundamental characteristics of the IoT are: Interconnectivity: With regard to the IoT, anything can be interconnected with the global information and communication infrastructure. Things-related services: The IoT is capable of providing thing-related services within the constraints of things, such as privacy protection and semantic consistency between physical things and their associated virtual things. In order to provide thing-related services within the constraints of things, both the technologies in physical world and information world will change. Heterogeneity: The devices in the IoT are heterogeneous as based on different hardware platforms and networks. They can interact with other devices or service platforms through different

networks. Dynamic changes: The state of devices changes dynamically, e.g., sleeping and waking up, connected and/or disconnected as well as the context of devices including location and speed. Moreover, the number of devices can change dynamically. Enormous scale: The number of devices that need to be managed and that communicate with each other will be at least an order of magnitude.

Further need of IoT, digital business, green initiatives were explained. IoT process flow: i) Connected Devices, ii) Network Devices, iii) Data Acquisition was also discussed.

Post lunch second session of Dr. Y S Rao from SPIT Mumbai on Smart (Hardware/Software) technologies for Power optimization started with introduction of three aspects of IoT in communication. The different types of energy sources were discussed. Application of solar energy such as solar water heating, solar electric power generation, solar distillation etc. India's available solar energy is more than the energy consumption and how energy is converted into different form was elaborated in detail.

The last session of the day was addressed by Mr Shailesh Agaskar from Capgemini on IoT applications and Research Avenues. Internet of Things provides solutions based on the integration of information technology, which refers to hardware and software used to store, retrieve, and process data and communications technology which includes electronic systems used for communication between individuals or groups. The rapid convergence of information and communications technology is taking place at three layers of technology innovation: the cloud, data and communication pipes/networks and device.

The Strategic Research and Innovation Agenda is the result of a discussion involving the projects and stakeholders involved in activities addressing IoT technology priorities that are crucial for the competitiveness

Many other technologies are converging to support and enable IoT applications. IoT architecture was summarised with identification, communication, networks technology, network discovery, software and algorithms, Hardware technology,

Day 2, 11th August 2020

The morning session by Dr. Amol Madane from TCS, was focused on Application of Image Analytics in Real World using IoT. The session started with introduction to Computer Vision System block schematic. Typical image processing module consists of four main parts, image acquisition, image

segmentation, image understanding, and application specific feature extraction. Computer vision is an interdisciplinary scientific field that deals with how computers can gain high-level understanding from digital images or videos. From the perspective of engineering, it seeks to understand and automate tasks that the human visual system can do. Dr. Madane explained that Computer vision tasks include methods for acquiring, processing, analyzing and understanding digital images, and extraction of high-dimensional data from the real world in order to produce numerical or symbolic information.

Further, he explained the concept of Advance Driver Assistant Systems (ADAS). Advanced driverassistance systems (ADAS) are electronic systems that assist drivers in driving and parking functions. Through a safe human-machine interface, ADAS increase car and road safety. ADAS systems use automated technology, such as sensors and cameras, to detect nearby obstacles or driver errors, and respond accordingly. He further addressed that most road accidents occur due to human error. Advanced driver-assistance systems are systems developed to automate, adapt, and enhance vehicle systems for safety and better driving. ADAS's automated systems are proven to reduce road fatalities by minimizing human error. Safety features are designed to avoid accidents and collisions by offering technologies that alert the driver to problems, implementing safeguards, and taking control of the vehicle if necessary. Adaptive features may automate lighting, provide adaptive cruise control, assist in avoiding collisions, incorporate satnav/traffic warnings, alert drivers to possible obstacles, assist in lane departure and lane centering, provide navigational assistance through smartphones, and provide many more features. He also mentioned about Mobil-Eye capabilities that has developed a family of algorithms for mono-camera driver assistance system for safety applications such as pedestrian collision warning, lane departure warning, forward collision warning, headway monitoring and intelligent high beam control.

Next session was conducted by Mr. Amit Mishra, Corp Trainer, New Delhi. He started the discussion with the definition of Internet of Things. He explained the architecture of IoT with respect to sensor connectivity, Gateway & Network, Management service and Applications. He also elaborated the point for the boom of IoT. It enables real time data access to mobile; it allows to receive control remotely; it enables to automate the system. He added the technologies that enable IoT namely Big Data, cheap bandwidth, free Wi-Fi, cheap sensors, smartphones, etc. He gave the overview of Smart Waste Management System, Smart Cities, and Smart Healthcare System. Smart Gardening System that are based on IoT applications.

Post lunch the discussion continued with four V's of data analytics i.e. Volume, Velocity, Veracity and Variety. He explained about IoT Big Data analytics life cycle and core components like cloud computing, IIoT, machine learning, augmented reality and advance robotics. He also focused on various aspects of industry 4.0 trends.

In the last part of the session, Mr. Amit gave elaborated view of the hardware components like Arduino, Raspberry Pi, ESP8266 node MCU and software components required like python and JavaScript. It was very informative and fruitful session and very well received by active participation of the attendees.

Day 3, 12th August 2020

Day 3 started with morning session on 'Machine learning on IoT data' by Dr. Manesh Kokare from SGGS Nanded. He discussed the fundamentals of Deep learning, Machine learning and Artificial intelligence followed by different approaches towards machine learning. He then continued with correlation of machine learning and Internet of things. He further concluded the session with different applications of machine learning and artificial intelligence in relevance to IoT.

Second session of Day 3 started at around 11:15 am by Mr. Amit Mishra. He discussed various hardware and software required for the implementation of IoT. He demonstrated the interfacing of sensors with Arduino board and given live demo using simple program to import input from sensor and export it to output LED.

In post lunch session Mr. Amit Mishra gave overview of IoT networks and it's implementation requirements. Then he interfaced DH11 (temperature and humidity sensor) at his end and uploaded the program on cloud so that participants can access and observe the readings recorded by sensor using Internet of things. Participants has been asked to create account on thinkspeak.com and they could observe various reading of sensor DH11 on their screen. During demo session, speaker had attended doubts and clarifications regarding thing speak demo on person to person level. Some participants had shared their screen to share their observations using thingspeak.com. Further he had given overview of MQQT and its application. Speaker concluded the session with discussion of topics for the next day and participants were asked to install Anaconda-3 or any other python programming platform for further sessions.

Day 4, 13th August 2020

The first session on 'Promoting Green initiative through IOT' was conducted by Mr. Bhupendra Bhate from L and T. He discussed about the term "Internet of Things" and described number of technologies and research disciplines that enable global connectivity over the world-wide physical objects.

Objects in IoT can sense the environment, transfer the data, and communicate with each other. They become powerful tools to understand physical world and to respond to emergent events and irregularities promptly. Thus, the IoT is seen by many as the ultimate solution for getting insights about real world.

Different types of green enabling technologies were discussed as green cloud computing, green wireless sensor network, green data centre. Smart building makes use of sensors, actuators, and microchips to manage everything. The utilization of sophisticated hardware facilities improvement in asset reliability, performance and in turn reduces energy utilization. The following points highlight the benefits of smart buildings:

1. Predictive Maintenance: Sensors can detect all sorts of technical performance of the building and can automatically activate the maintenance procedures in case of any sort.

Smart building makes use of sensors, actuators, and microchips to manage everything. The utilization of sophisticated hardware facilities improvement in asset reliability, performance and in turn reduces energy utilization. Mr. Bhate highlighted the following points on benefits of smart buildings

- 1. Energy management
- 2. Utility management
- 3. Asset management
- 4. Smart facilities management

Smart building /campuses are like smart cities, or a places where devices and applications create new experiences or services and facilitate operational efficiency was discussed.

Second session started at 11:15am. The speaker for the session was Mr. Amit Mishra, Corp Trainer, New Delhi. He started the discussion with Python programming for IoT and Data Analytics. It was very informative and practical session on how python can be used for programming different IoT application.

Post lunch the discussion continued with python programming and then he introduces Node Red. Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor that makes it easy to wire together flows using the wide range of nodes in the palette that can be deployed to its runtime in a single-click.

In the last part of the session, Mr. Amit introduced Cloud Platforms and controlling devices from cloud platform. The cloud platform services can not only process big data from a wider set of IoT devices, but also provides a smart way to provision and manage each of them in an efficient manner. This also includes fine-grained control, configuration and management of IoT devices.

Smart building makes use of sensors, actuators, and microchips to manage everything. The utilization of sophisticated hardware facilities improvement in asset reliability, performance and in turn reduces energy utilization. He highlight the benefits of smart buildings and predictive maintenance where sensors can detect all sorts of technical performance of the building and can automatically activate the maintenance procedures in case of any sort

Day 5, 14th August 2020

The first session of the day on 'Green IoT: Opportunities and Challenges' started with presentation on the concept Green IoT. Green IoT represents the issue of reducing energy consumption of IoT devices which achieves a sustainable environment for IoT systems. Dr. Bundele from Poornima Institute Jaipur explained the life cycle of Green IoT that consists of Green Design, Production, Utilization and Disposal or Recycle. He elaborated his point with examples of Smart City, Home Grid, and Robots and applications of Green IoT.

He explained different types of IoT architecture like Three Layer, Middle ware based, SOA and Five Layer and the key technologies of IoT and Green IoT along with key technologies of IoT and Green IoT. He also talked about some upcoming trends like Internet of Underwater Things, Internet of Space Things and Internet of Nano Things. He continues his discussion with challenges in the field like scalability, reliable coverage, fog computing, processing and storage, energy harvesting, SDN/NFV based IoT. The overall session was very informative.

The second session started at 11:15 for the day was by Mr. Amit Mishra, Corp Trainer, New Delhi on the topic algorithms for regression and prediction. Regression analysis is a form of predictive modelling technique which investigates the relationship between a dependent (target) and independent variables. This technique is used for forecasting, time series modelling and finding the causal effect relationship between the variables. For example, relationship between rash driving and number of road accidents by a driver is best studied through regression. He explained the concept of supervised and unsupervised learning. He further led the discussion with hands on session with python programming.

Post Lunch the hands-on session on temperature reading and EDA using IoT devices and regression & predictive analysis using IoT devices was very interesting and very well received by the participants. The session was very interactive and full of practical knowledge of Python programming.

Day 6, 15th August 2020

Morning session of the day-6 was on 'Role of IoT in Power Sector' by Dr. Saurabh Mehta, VIT Mumbai. The speaker went through the journey of power industry since the beginning of industry revolution to the current scenario. He then discussed about importance of power sector and facts & figures of it. Further he continued with different application and opportunities in power sector with relevance to Internet of Things. The applications explained were very realistic, executable and evolutionary.

Second session started around 11:15 am and conducted by Mr. Amit Mishra. The last day was reserved for the trending technology i.e. cloud services. Participants created account on AWS for last day sessions. The session was about how cloud services can be used to implement Internet of things. Demo and hands on session conducted on how to create a thing on cloud, how certificates and policies can be attached to the thing followed by how to write program using Python for AWS IoT subscriber and publisher so that data can be published remotely.

Post lunch the whole sessions conducted were demo and hands on with doubt solving sessions in parallel. The session concluded with Node Red which is most easy, flexible and user-friendly technology tool. It is programming tool and browser-based editor which allows the user to implement any scenario using simply drag and drop method. Installation process for Node Red has been explained step by step.

VALEDICTORY

Valedictory function of the one week AICTE sponsored online short term training programme on 'Green Internet of Things (Phase III)' was organized by Department of Electronics and Telecommunication Engineering on 15th August 2020. The program was organized in association with VESIT- Internal Quality Assurance Cell and Institution's Innovation Council. The function began in presence of dignitaries and guests including Dr. (Mrs.) J. M. Nair, Principal (VESIT), Dr. (Mrs.) M. Vijayalakshmi, Vice Principal (VESIT), Prof. Shoba Krishnan (Head, Electronics and Telecom Dept., VESIT), Dr. Ramesh Kulkarni (Dy. HoD EXTC Dept., VESIT), Prof. A. Nagananda (TPO, VESIT), Dr. Nadir Charniya (STTP Coordinator), Dr. Saylee Gharge (STTP Co-coordinator), Mr. Amit Mishra (one of the speaker of the during the STTP), PEC members, and the participants.

Participants shared their overwhelming words of excellent feedback about the STTP. The participants who shared their feedback with extraordinary learning experience were Dr. Vasif Ahmed from Pusad (MS), Dr. Shanta Shondur, from VESIT, Mumbai, Dr Pillutla Harikrishna from Rajiv Gandhi Memorial College of Engineering Aandra Pradesh and Mrs. Chintamaneni Mydhilli from C R Reddy College Aandhra Pradesh.

The sessions conducted during the six days STTP were summarized and concluded by session moderator. The guest for the function Mr. Amit Mishra addressed the participants and advised to practice further the learnings of the STTP and implement some innovative ideas. Dr. M. Vijayalakshmi, Vice-Principal, VESIT motivated the participants with her speech in the line with Atma Nirbhar Bharat.

Valedictory function was signed-off with the Vote of Thanks by Prof. Shoba Krishnan (Head of Department, Electronics & Telecommunication, VESIT). Overall online feedback and final quiz related to the course of the STTP were also conducted. The regular attendance of the participants and passing in the quiz was compulsory to become eligible for AICTE STTP certification.

Immense efforts were made by the technical committee and various teams of the STTP to make it a success. All the sessions were conducted at the scheduled time seamlessly without any unnecessary delay in the sessions. Experts from industry and academia have contributed immensely to the STTP with the course contents aligned with the objectives.

ANNEXURE-I

List of Qualified Participants

| Name | Designation | Department | Institute/Industry name | City & State |
|--------------------------------------|------------------------------|---|---|--|
| Mr. Abhishek Chaudhari | I Accietant Protector I | | VES Institute of Technology | Mumbai, Maharashtra |
| Dr. Vasif Ahmed | Professor | Electronics and Telecommunication | Babasaheb Naik College of Engineering Pusad | Pusad District- Yavatmal Maharashtra |
| Mr.Ajinkya Anandgopal Valanjoo | Assistant Professor | Electronics and Telecommunication | Vivekanand Education Society Institute of Technology | Mumbai, Maharashtra |
| Mr.Amol Shashikant Sankpal | Assistant Professor | Electronics and Telecommunication | M.H.Saboo Siddik College of Engineering Mumbai-08 | Mumbai, Maharashtra |
| Mrs. Anuradha Jadiya | Assistant Professor | Electronics and Telecommunication | VES Institute of Technology, Mumbai | Mumbai, Maharashtra |
| Mrs. Arti Sawant | Assistant Professor | Electronics and Telecommunication | Vivekanand Education Society Institute of Technology | Mumbai, Maharashtra |
| Mr.M.Ashok Kumar | Assistant Professor | ECE | SCAD College of Engineering and Technology | Cheranmahadevi, Chennai |
| Shreya Kurne | Assistant professor | ETC | Don Bosco college of engineering | Fatorda, Goa |
| Er.Manoj S. Kavedia | Assistant Professor | Electronics and Telecommunication | Thadomal shahani Engineering College , Bandra | Mumbai, Maharashtra |
| Mr. Gaurav Yashwant Tawde | Assistant Professor | Electronics & Telecommunication | V.E.S. Institute of Technology, Chembur | Mumbai, Maharashtra |
| Gayathri.R | Assistant Professor | ECE | Sri Ramakrishna Institute of Technology | Perur Chettipalayam, Chennai |
| Dr. Bhavin Shah | Assistant Professor | Electronics Engineering | Atharva College of Engineering, Mumbai | Mumbai, Maharashtra |
| JAYADEVAN N M | ASSISTANT PROFESSOR | ELECTRONICS AND COMMUNICATION ENGINEERING | KARPAGAM COLLEGE OF ENGINEERING | Coimbatore, Tamilnadu |
| Ms.K.HEMAVANI | ADHOC ASSISTANT PROFESSOR | ECE | JNTU COLLEGE OF ENGINEERING KALIKIRI | KALIKIRI , ANDHRA PRADSESH |
| Ms. Joyoti Kashyap | Associate professor | Electronics and Telecommunication | Thadomal Shahani Engineering College | Mumbai, Maharashtra |
| Mrs. Mayuri Kundu | Assistant Professor | CSE | Vishnu Institute of Technology | Bhimavaram, Andhra Pradesh |

| Dr. K. Mahesh Kumar | Associate Professor | Computer Science & Engineering | Sree Vidyanikethan Engineering College | Tirupati, Andhra Pradesh |
|---|------------------------|--|---|--|
| Dr. Mansi Subhedar | Associate Professor | EXTC | Pillai HOC College of Engineering and Technology, Rasayani | Raigad, Maharashtra |
| Dr. MILENDRAKUMAR MANILAL SOLANKI | Assistant Professor | Electronics Engineering | B.V.M.Engineering College, V.V.Nagar, Gujarat | Anand, Gujrat |
| Mrs.Monali Nitin Chaudhari | assistant professor | EXTC | V.E.S. Institute of Technology, Chembur | Mumbai, Maharashtra |
| MUNISANKAR NAGUGARI | ASSOCIATE PROFESSOR | COMPUTER SCIENCE AND ENGINEERING | SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING AND TECHNOLOGY | Tirupati, Andhra Pradesh |
| Mrs. CH MYDHILI | ASSISTANT PROFESSOR | ELECTRONICS | SIR C R REDDY COLLEGE, ELURU | Eluru, Andhra Pradesh |
| Dr.S.K.Mydhili | Professor | ECE | KGISL Institute of Technology | Coimbatore, Tamilnadu |
| Nilesh Kulkarni | Assistant Professor | Electronics and Telecommunication | Smt Kashibai Navale College of Engg | Pune, Maharashtra |
| Mrs Nusrat Ansari | Assistant professor | Electronics and telecommunication | Vivekanand education society institute of technology | Mumbai, Maharashtra |
| Dr. PILLUTLA HARIKRISHNA | Assistant Professor | Computer Science and Engineering | Rajeev Gandhi Memorial College of Engineering and Technology | Nandyal, Andhra Pradesh |
| Dr. Pravin Ghate | Professor | E&TC | JSPM's Rajarshi Shahu College of Engineering | Pune, Maharashtra |
| Mr. Pratik S. Patel | Assistant Professor | Institute of Forensic Science(Cyber Security) | Gujarat Forensic Sciences University | Gandhinagar,Gujr at |
| Mr. Rajib Dutta | Assistant Professor | Computer Science & Engineering | Global Institute of Management & Technology | Nadia, West Bengal |
| Mr. Ratan Rajan Srivastava | Assistant Professor | Computer Application | Shri Ramswaroop Memorial Group of Professional Colleges, Lucknow, Uttar Pradesh | Lucknow, Uttar Pradesh |
| Dr Sohel Bhura | Asst Professor | Computer Science & Engineering | Babasaheb Naik College of Engineering, Pusad | Pusad District- Yavatmal Maharashtra |
| Dr Sachin Agrawal | Assistant Professor | Computer Science and Engineering | College of Engineering and Technology, Akola | Akola, Maharashtra |
| Santoshi pote | Associate professor | ENC | SNDT UMIT | Mumbai, Maharashtra |
| Mrs.SARIKA ATUL PATIL | Assistant Professor | Electronics and Telecommunication | Dr. D.Y.Patil Institute of Technology, Pimpri, Pune | Pune, Maharashtra |

Short Term Training Program on 'Green Internet of Things'

| MR. SANDEEP | ASSISTANT | ELECTRONICS AND | GHARDA INSTITUTE | Khed, Ratnagiri, |
|------------------------------|------------------------|--------------------------------------|---|---|
| CHUDARAMJI MUNGHATE | PROFESSOR | TELECOMMUNICAT ION | OF TECHNOLOGY | Maharasthra |
| Dr. Shanta Shondur | Professor | Information Technology | V.E.S. Institute of Technology | Mumbai, Maharashtra |
| Mrs.SIVASAKTHI S | ASSISTANT PROFESSOR | DEPARTMENT OF COMPUTER SCIENCE | G. VENKATASWAMY NAIDU COLLEGE | KOVILPATTI, Koimbtur |
| Mrs.S.JAYAKODI | Assistant Professor | Computer Applications | S.T.E.T Women's College | Mannargudi, Thiruvarur. Tamilnadu |
| Mrs Sneha Pankaj Ingale | Assistant Professor | Electronics and Telecommunication | Shivajirao Jondhale College of Engineering | Dombivli, Mumbai, Maharashtra |
| Mrs.Snehal Lopes | Assistant Professor | EXTC | St.Francis Institute Of Technology | Mumbai, Maharashtra |
| Sowmya S | Assistant Professor | Computer Science and Engineering | ATME College of Engineering, Mysore | Melahalli Mysore, Karnataka |
| Mrs. CH.SREEDEVI | Assistant Professor | CSE | BV Raju Institute of Technology | NARSAPUR, Telangana |
| Rubina Shaikh | Assistant Professor | Electronics | Pillai College of Enginnerig | New Panvel, Maharashtra |
| Mr. SUJIT BISWAS | Assistant Professor | Computer Science & Engineering | Global Institute of Management & Technology | West Bengal, Nadia, Krishnagar |
| Tarannum Shaikh | Assistant Professor | Electronics Engineering | M. H. Saboo Siddik College of Engineering | Mumbai, Maharashtra |
| S.THIRUMALAI | LECTURER | COMPUTER ENGINEERING | MURUGAPPA POLYTECHNIC COLLEGE | Avadi, Chennai |
| Mr. Vaibhav Vikas Mainkar | Asst. Prof. | E&TC | S.S.P.M's College of Engineering, Kankavli | Kankavli, Maharashtra |
| Vaibhav Prakash | AGM | Operations and HR | Carnation Infotech | Lucknow, Uttar Pradesh |
| VISHNU KAMBLE | Asst Prof | IT | PES MODERN COLLEGE OF ENGINEERING | Shivajinagar, Pune, Maharashtra |
| Dr. Sanjoy Mitra | Assistant Professor | Computer Science and Engineering | Tripura Institute of Technology | Narsingarh, West Tripura, Agartala |

Annexure – II List of Experts, Affiliation, and their Topics

| Sr. No. | Name of Speaker | Affiliation, Company/Institute | Topics |
|------------|---|--|--|
| 1 | Ms. Kalpana Banka, Keynote Speaker | Application Design Architect Accenture Mumbai shreeji.verma@accenture.com | Keynote Speaker |
| 2 | Mr. Shailesh Agaskar | Senior Enterprise Solution Architect Capgemini, Mumbai shailesh.agaskar@capgemini.com | IoT applications and Research Avenues |
| 3 | Dr. Faruk Kazi (Chief Guest of Inaugural) | Dean R and D, and Head Electical Engg. Dept, VJTI Mumbai fskazi@el.vjti.ac.in | Security and Privacy in IoT |
| 4 | Dr. Y. S. Rao | Vice Principal, Professor Elec and Telecom. SPIT Mumbai ysrao@spit.ac.in | Smart (Hardware/Software) technologies for Power optimization |
| 5 | Mr. Amol Madane | Technical Architect TCS Pune amol.madane@tcs.com | Application of Image Analytics in Real World using IoT |
| 6 | Dr. Manesh Kokare | Prof. and Head, Electronics and Telecom, Cood Centre for Excellence, SGGS Nanded mbkokare@sggs.ac.in | Machine Learning on IoT Data |
| 7 | Mr. Bhupendra Bhate | Retired from L and T Technology Services (chief innovation officer) Mumbai bhatebm@gmail.com | Promoting Green initiative through IOT |
| 8 | Dr. Mahesh Bundele | Principal and Director, Poornima University, Jaipur maheshbundele@gmail.com | Green IoT: Opportunities and Challenges |
| 9 | Mr. Saurabh Mehta | Prof. Elect and Telecom, Chief Acad Officer, VIT Mumbai saurabh.n.mehta@gmail.com | Role of IoT in Power Sector |
| 10 | Mr. Amit Mishra | Corporate Trainer, EDUXLABS, Gurugram mishraamit2408@gmail.com | 1) IoT, M2M towards IoT-the global context, HW, SW 2) Scope of IoT Applications, Evolution of IIoT & Industry 4.0, IoT Adoption, AI, Automation 3) Sensor data analytics |

| 4) IoT, details of HW, |
|-------------------------|
| SW and platforms |
| 5) Network layer and |
| IoT protocols |
| 6) Getting started with |
| MQTT |
| 7)Python programming |
| for IoT and Data |
| Analytics |
| 8) Node Red |
| 9) Cloud Platforms and |
| controlling devices |
| from cloud platform |
| 10) Algorithms for |
| regression and |
| prediction |
| 11) Regression and |
| prediction using Python |
| 12) Temperature |
| reading & EDA using |
| IOT Devices, Regression |
| & Predictive Analysis |
| using IOT Devices |
| 13)Information and |
| cyber security, |
| 14) Standards and open |
| source initiatives |
| 15) Some project |
| demonstrations |

ANNEXURE-III

STTP Schedule

| Date | Session Schedule | Topic | Speakers | |
|------------------------------|---------------------|-------------------------------|---------------------------|--|
| | 9.30 am to 10.45 am | Inauguration | | |
| | 11 am to 12.00pm | Keynote on IoT and Green | Ms. Kalpana Banka, | |
| | | Initiatives | Accenture, Mumbai | |
| | 12.00 pm to 1.00pm | Security and Privacy in IoT | Dr. Farukh Kazi, Chairman | |
| | | | BOS (EXTC) University of | |
| | | | Mumbai | |
| | 1.00 pm 1.40pm | Lunch | | |
| 10 th Aug 2020 | 1.40 pm to 3.00 pm | Smart (Hardware/Software) | Dr. Y S Rao, SPIT Mumbai | |
| 2020 | | technologies for Power | | |
| (Day 1) | | optimization | | |
| | 3.05 pm to 5:30 pm | IoT applications and | Mr. Sailesh Agaskar, | |
| | | Research Avenues | Program Manager, | |
| | | | Capgemini India | |
| | 9.30 am to 11 am | Application of Image | Dr Amol Madane, TCS | |
| | | Analytics in Real World using | Pune, | |
| | | ІоТ | | |
| | 11.15-12.45 pm | IoT, M2M towards IoT-the | Mr. Amit Mishra, Corp | |
| | | global context, HW, SW | Trainer New Delhi: | |
| 11 th Aug 2020 | 12.45- 1.15pm | Lunch | | |
| (Day 2) | 1.15- 3.15 pm | Scope of IoT Applications, | Mr. Amit Mishra, Corp | |
| (Day 2) | | Evolution of IIoT & Industry | Trainer New Delhi: | |
| | | 4.0, IoT Adoption, | | |
| | | AI, Automation | | |

| | 3.30-5.30pm | Sensor data analytics | Mr. Amit Mishra, Corp |
|----------------------|------------------|----------------------------|-------------------------|
| | | | Trainer New Delhi |
| | 9.30 am to 11 am | Machine Learning on IoT | Dr. Manesh Kokare, |
| | | Data | SGGS COE Nanded, |
| | 11.15-12.45 pm | IoT, details of HW, SW and | Mr. Amit Mishra, Corp |
| 12 th Aug | | platforms | Trainer New Delhi: |
| 2020 | 12.45- 1.15pm | Lunch | |
| (Day 3) | 1.15- 3.15 pm | Network layer and IoT | Mr. Amit Mishra, Corp |
| | | protocols | Trainer New Delhi: |
| | 3.30-5.30pm | Getting started with MQTT | Mr. Amit Mishra, Corp |
| | | | Trainer New Delhi: |
| | 9.30 am to 11 am | Promoting Green initiative | Mr. Bhupendra Bhate, L |
| | | through IOT | and T (Retd) Mumbai, |
| | 11.15-12.45 pm | Python programming for IoT | Mr. Amit Mishra, Corp |
| 13 th Aug | | and Data Analytics | Trainer New Delhi: |
| 2020 | 12.45- 1.15pm | Lunch Break | |
| (Day4) | 1.15- 3.15 pm | Node Red | Mr. Amit Mishra |
| | 3.30-5.30pm | Cloud Platforms and | Mr. Amit Mishra, Corp |
| | | controlling devices from | Trainer New Delhi: |
| | | cloud platform | |
| | 9.30 am to 11 am | Green IoT: Opportunities | Dr. Mahesh Bundele, |
| | | and Challenges | Principal and Director, |
| a ath a | | | Poornima University, |
| 14 th Aug | | | Jaipur, |
| 2020 | 11.15-12.45 pm | Algorithms for regression | Mr. Amit Mishra, Corp |
| (Day5) | | and prediction | Trainer New Delhi: |

| | 12.45- 1.15pm | Lunch Break | |
|----------------------|------------------|-------------------------------|-----------------------|
| | 1.15- 3.15 pm | Regression and prediction | Mr. Amit Mishra, Corp |
| | | using Python | Trainer New Delhi: |
| | 3.30-5.30pm | Temperature reading & EDA | Mr. Amit Mishra, Corp |
| | | using IOT Devices, | Trainer New Delhi: |
| | | Regression & | |
| | | Predictive Analysis using IOT | |
| | | Devices | |
| | 9.30 am to 11 am | Role of IoT in Power Sector | Dr Saurabh Mehta VIT |
| | | | Mumbai, |
| | 11.15-12.45 pm | Information and cyber | Mr. Amit Mishra, Corp |
| 15 th Aug | | security | Trainer New Delhi: |
| 2020 | 12.45- 1.15pm | Lunch Break | |
| (Day6) | 1.15- 3.15 pm | Standards and open source | Mr. Amit Mishra, Corp |
| | | initiatives | Trainer New Delhi: |
| | 3.30-5.00pm | Some project | Mr. Amit Mishra, Corp |
| | | demonstrations | Trainer New Delhi: |
| | 5.00-5.30pm | Valedictory Function | |

ANNEXURE-IV

Final feedback with Score of Online Test and Test Questions

- Q1: The STTP sessions delivered the information that I expected to receive.
- Q2: The STTP was successful in its objectives.
- Q3: How would you rate the effectiveness of the demonstrations shown during the sessions?
- Q4: How would you rate the duration of the program?
- Q5: How would you rate the online arrangements for the entire STTP?
- Q6: Write any three takeaways or outcomes of the STTP.

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Quiz Score (30) |
|--|----|----|----|----|-----------|--|-----------------------|
| Abhishek Chaudhari | 5 | 5 | 5 | 5 | Excellent | Different platforms of IoT, the applications of IOT in Power Sector and how ML and IoT can use together | 28 |
| Dr. Vasif Ahmed | 5 | 5 | 5 | 5 | Good | Online IoT demo with min hardware, knowledge of software tools like COLAB, THINGSPEAK, AWS and Red Node, Applications case studies for energy optimization using IOT | 29 |
| Mr.Ajinky a Anandgop al Valanjoo | 5 | 5 | 5 | 5 | Excellent | Understand detail of Green IOT | 29 |
| Mr.Amol Shashikant Sankpal | 5 | 5 | 5 | 5 | Excellent | good content good speaker | 27 |
| Mrs. Anuradha Jadiya | 5 | 5 | 5 | 4 | Excellent | Very nice & informative session. | 29 |

| Mrs. Arti Sawant | 5 | 5 | 5 | 5 | Excellent | Broad knowledge of IoT, AWS services | 30 |
|------------------------------------|---|---|---|---|--------------|--|----|
| Mr.M.Ash ok Kumar | 5 | 5 | 5 | 5 | Excellent | Know the concepts of IOT | 25 |
| Shreya Kurne | 5 | 5 | 5 | 4 | Very Good | Basics of green internet of things Applications of IOT Future scope of IOT | 26 |
| Er.Manoj S. Kavedia | 4 | 4 | 4 | 4 | Very Good | Knowledge of IOT, AWS, Node Red | 25 |
| Mr. Gaurav Yashwant Tawde | 5 | 5 | 5 | 5 | Excellent | Insight and concepts of Green IoT, python basics, AWS | 30 |
| Gayathri.R | 4 | 4 | 4 | 4 | Very Good | Good | 13 |
| Dr. Bhavin Shah | 5 | 5 | 5 | 5 | Excellent | All the sessions were Technically Sound, Good Resource Persons & Very Knowledgeable & in depth Sessions on IoT | 28 |
| JAYADEVA N N M | 4 | 4 | 4 | 4 | Very Good | GAINED KNOWLEDGE OF IOT FUNDAMENTALS,I OT PROTOCOLS,CLOU DS,ARDUINO,NODE MCU etc | 28 |
| Ms.K.HEM AVANI | 5 | 5 | 5 | 5 | Excellent | Informative session | 25 |
| Ms.Jyoti Kashyap | 5 | 5 | 5 | 5 | Excellent | Motivation ,guidance ideas for projects | 29 |
| Mrs. Mayuri Kundu | 4 | 4 | 4 | 4 | Excellent | Knowledge New Technology Skills | 25 |

| | | • | • | | | | |
|--|---|---|---|---|--------------|--|----|
| Dr. K. Mahesh Kumar | 5 | 5 | 5 | 5 | Very Good | lot application green lot significane automation | 25 |
| Dr. Mansi Subhedar | 5 | 5 | 5 | 5 | Excellent | Informative Sessions | 28 |
| Dr. MILENDRA KUMAR MANILAL SOLANKI | 5 | 5 | 5 | 5 | Excellent | Nicely organized FDP, Nice selection of expert speakers, All the sessions were started on mentioned time. | 28 |
| Mrs.Mona li Nitin Chaudhari | 5 | 5 | 5 | 5 | Excellent | IOT, architecture and applications, coding | 27 |
| MUNISAN KAR NAGUGAR I | 5 | 5 | 5 | 5 | Excellent | ALL THE TOPICS ARE KEY ASPECTS | 28 |
| Mrs. CH MYDHILI | 5 | 5 | 5 | 5 | Excellent | LEARNT THE USES | 28 |
| Dr.S.K.My dhili | 5 | 5 | 5 | 5 | Excellent | 1. Insight into Programming 2. Perspective of concepts 3. Effective Team work | 27 |
| Nilesh Kulkarni | 5 | 5 | 5 | 5 | Excellent | Learned many news things in field of IOT. Very informtive sessions | 29 |
| Mrs Nusrat Ansari | 5 | 5 | 5 | 5 | Excellent | IOT , IIOT n Python | 29 |
| Dr. PILLUTLA HARIKRISH NA | 5 | 5 | 5 | 5 | Very Good | 1)Learnt the basics and Handson of IoT, 2. Handson, 3. Security | 30 |
| Dr. Pravin Ghate | 5 | 5 | 5 | 5 | Excellent | Knowledge | 21 |
| Mr. Pratik S. Patel | 5 | 5 | 5 | 5 | Very Good | productive work.very good practical | 27 |

| Mr. Rajib Dutta | 5 | 5 | 5 | 5 | Excellent | 1. Knowledge about Green IoT, 2. How to Implement IoT Project, 3. Research topic on Green IoT. | 29 |
|-----------------------------------|---|---|---|---|--------------|---|----|
| Mr. Ratan Rajan Srivastava | 5 | 5 | 5 | 5 | Excellent | Excellent learning, new technological concepts | 30 |
| Dr Sohel Bhura | 5 | 5 | 5 | 5 | Excellent | great hands on experience | 28 |
| Dr Sachin Agrawal | 5 | 5 | 5 | 5 | Excellent | Knowledge | 25 |
| Santoshi pote | 5 | 5 | 5 | 5 | Excellent | Helpful for Research in IOT | 24 |
| Mrs.SARIK A ATUL PATIL | 5 | 5 | 5 | 5 | Excellent | python,AWS,things pick | 27 |
| MR. SANDEEP CHUDARA MJI MUNGHA TE | 5 | 5 | 5 | 4 | Excellent | 1. Know about Green IoT 2. About AWS 3. About thingspeak | 29 |
| Shanta Sondur | 5 | 5 | 5 | 5 | Excellent | wonderful hands- on session, worked on web platforms, nice learning | 30 |
| Mrs.SIVAS AKTHI S | 5 | 5 | 5 | 5 | Excellent | IoT Arduino More knowledge | 20 |
| Mrs.S.JAY AKODI | 5 | 5 | 5 | 5 | Excellent | informative | 27 |
| Mrs Sneha Pankaj Ingale | 4 | 4 | 4 | 4 | Very Good | Very informative | 24 |
| Mrs.Sneha I Lopes | 5 | 5 | 5 | 5 | Excellent | got to know about Green IOT and its opportunities,Node red, | 27 |

| Sowmya S | 4 | 5 | 5 | 4 | Very Good | learnt on IOT, Applying thoughts on IOT | 28 |
|------------------------------------|---|---|---|---|--------------|--|----|
| Mrs. CH.SREED EVI | 4 | 4 | 4 | 4 | Very Good | Sensor Data analytics,Machine Learning on IoT,Green IoT Opportunities and Challenges | 26 |
| Rubina Shaikh | 4 | 4 | 4 | 4 | Very Good | Aws,iot and javascript | 29 |
| Mr. SUJIT BISWAS | 4 | 4 | 4 | 4 | Very Good | Excellent | 21 |
| Tarannum Shaikh | 5 | 5 | 5 | 5 | Excellent | Pandas programming. Python. IOT. Green iot learning | 28 |
| S.THIRUM ALAI | 5 | 5 | 4 | 5 | Good | GREEN IOT TECHNOLOGIES | 22 |
| Mr. Vaibhav Vikas Mainkar | 5 | 5 | 5 | 5 | Excellent | Nicely organised | 28 |
| Vaibhav Prakash | 4 | 4 | 4 | 4 | Very Good | Analytics, AI, ML | 28 |
| VISHNU KAMBLE | 5 | 5 | 5 | 5 | Excellent | Good knowledge | 12 |
| Dr. Sanjoy Mitra | 4 | 5 | 4 | 5 | Very Good | Knowledge of IoT and practical tips to perform IoT based works | 29 |

Final Test Questions

- 1) Can Green IoT concept be used to optimize the usage of Internet to save energy by judiciously using all the available resources?
 - 1. True
 - 2. False
- 2) Internet of Things can be broadly divided into
 - 1. Consumer IoT
 - 2. Enterprise IoT
 - 3. Industrial IoT
 - 4. All of the above
- 3) Industry 4.0 IoT or IIoT is used for:
 - 1. Mass Production
 - 2. Computer & Automation
 - 3. Both of the above
 - 4. None of the above
- 4) IoT is about machine to machine communication without human interventions?
 - 1. True
 - 2. False
- 4) Active & Passive safety systems include
 - 1. Scope
 - 2. System
 - 3. Situation
 - 4. All of the above
- 6) ADAS is
 - 1. Advanced Driver Assistance Systems
 - 2. Advanced Detection Assistance Systems
 - 3. Advanced Driver Associate Systems
 - 4. Advanced Driver Application Systems
- 7) ADAS applications include
 - 1. High Beam Control
 - 2. Cross Traffic Assist
 - 3. Front View Camera System
 - 4. All of the above
- 8) Hadoop provides storage and processing
 - 1. True
 - 2. False

| 9) Out of the following hardware devices which | one is a low power | device having a | built-in Wi-Fi |
|--|--------------------|-----------------|----------------|
| module? | | | |

- 1. Arduino
- 2. Raspberry Pi
- 3. ESP8266 node MCU
- 4. Intel Edison
- 10) Which Microcontroller is used in Arduino Uno?
 - 1. Atmel 2051
 - 2. ARM7
 - 3. ATmega 328P
 - 4. PIC1650
- 11) Raspberry Pi does not require Bootloader?
 - 1. True
 - 2. False
- 12) IoT has become important and popular because of ...
 - 1. Provides real time access to mobile devices
 - 2. Receives controls remotely
 - 3. Automates the system
 - 4. All of the above
- 13) Deep Learning is a subset of Machine Learning.
 - 1. True
 - 2. False
- 14) If the database is classified and the input-output is mapped then this type of learning is called as:
 - 1. Reinforced Learning
 - 2. Supervised Learning
 - 3. Unsupervised Learning
 - 4. Semi-Learning
- 15) TCP is preferred for secured cloud transmission over UDP.
 - 1. True
 - 2. False
- 16) Which of the following are required for the implementation of an IoT network?
 - 1. SIM Module
 - 2. Access Network
 - 3. Ethernet
 - 4. All of the above

- 1. Temperature & Humidity Sensor
- 2. PIR Sensor
- 3. Fire Sensor
- 4. Smoke Detector

- 18) In Aurdino, which in is used for hard resetting?
 - 1. TTS Pin
 - 2. PPS Pin
 - 3. RTS Pin
 - 4. None of the above
- 19) Green IoT represents the issue of reducing energy consumption of IoT devices.
 - 1. True
 - 2. False
- 20) MQTT stands for
 - 1. Message Queuing Telemetry Transport
 - 2. Message Queuing Telephone Tranport
 - 3. Message Question Telemetry Transport
 - 4. None of the above
- 21) The secure port in MQTT is
 - 1. 1883
 - 2. 8883
 - 3. 1888
 - 4. 1818
- 22) The word IoT stands for...
 - 1. Internet of Technology
 - 2. Internet of Things
 - 3. Internet on Things
 - 4. Internet over Things
- 23) Mention Four V's of Big Data
 - 1. Volume, Velocity, Veracity, Variety
- 24) is the popular programming language for IoT mentioned in the session.
- 1. Javascript
- 2. Python
- 3. Assembly language
- 4. C language
- 25) What is the proportion to select the data set for training and testing?
 - 1. 80% & 20%
 - 2. 20% & 80%
 - 3. 40% & 60%
 - 4. 30% & 70%
- 26) isnull can be used instead of isna
 - 1. True
 - 2. False

- 27)matplotlib is a plotting library for____
 - 1. Matlab programming
 - 2. C programming
 - 3. Python programming
 - 4. None of the above
- 28) Visualization using Matplotlib generally consists of
 - 1. Bars
 - 2. Pies
 - 3. lines
 - 4. scatter plots
 - 5. All the above
- 29) Which of these is an Open Source Software?
 - 1. Java Script
 - 2. Python
 - 3. Arduino
 - 4. All of These
- 30) Write the function to print value in serial monitor.
 - 1. Serial.print()
 - serial.Print()
 - serial.print()
 - 4. Serial.Print()

ANNEXURE - II

Session wise Attendance and Feedback

Q1: Can you recollect a few application that were covered in the session? Mention few.

Q2: Was the delivery of the sessions as per expectation.

Q3: How would you rate the topics covered in this session?

List of participants attended Day 1, Session 1 with feedback

Resource Person: Ms. Kalpana Banka

| Name | Q1 | Q2. | Q3 | Any other comments |
|--------------------------------|--|-----|----|-------------------------|
| Mayuri Kundu | - | 4 | 4 | No |
| Dr S K MYDHILI | Yes | 5 | 5 | Informative Session |
| RAJIB DUTTA | Village development application | 5 | 5 | |
| Mrs. Anuradha Jadiya | Home automation, clean-energy wind & solar project, lot in mines | 1 | 5 | nice session |
| Dr. Bhavin Shah | Green approaches in AWS, Azure IoT | 4 | 4 | |
| Mr. Gaurav Yashwant Tawde | Amazon, Alexa, Home Automation | 5 | 5 | Excellent session! |
| JAYADEVAN N M | IoT effects in industry and other aspects | 4 | 4 | |
| Ajinkya Anandgopal Valanjoo | amazon alexa | 5 | 5 | |
| PRATIK S. PATEL | Yes | 4 | 4 | Nothing |
| SREEDEVI CH | Amazon Applications | 4 | 4 | Informative Sessions |
| JYOTI KASHYAP | Security of device, | 5 | 5 | Very good session |

| Dr. Mansi Subhedar | М | 5 | 4 | No |
|----------------------------------|--|---|---|--|
| Dr. Pillutla Harikrishna | Mam was from Accenture | 5 | 4 | NA |
| Abhishek Chaudhari | Data connecting on clound | 5 | 5 | |
| CH MYDHILI | Arogya sri app | 5 | 5 | |
| Ratan Rajan Srivastava | Smart City, Smart Grid Systems | 5 | 5 | |
| MILENDRAKUMAR MANILAL SOLANKI | Yes | 5 | 5 | No |
| Munisankar Nagugari | lot | 5 | 5 | No |
| Nilesh Kulkarni | Yes, overall architecture of IOT, applications and challenges | 5 | 5 | Very informative session |
| Shanta Sondur | Agriculture, health, Industry home automation | 5 | 5 | Very Good session! |
| Arti Sawant | IOT with ML, Blockchain, big data | 5 | 5 | |
| Mrs Nusrat Ansari | more emphasis on digital business, sensors are becoming widely available | 5 | 5 | very well explanation of the question & answers and overall very informative session |
| SANDEEP MUNGHATE | Yes | 5 | 5 | |
| Sanjoy Mitra | AWS, Azure | 4 | 4 | Very informative session |
| MR. VAIBHAV VIKAS MAINKAR | Yes | 4 | 5 | |
| Amol Sankpal | Alexa | 5 | 5 | good session |

| Snehal Lopes | IOT in medical field | 5 | 5 | |
|----------------------------|---|---|---|------------------------|
| Er.Manoj S. Kavedia | Smart City (germany and Singapore), Application, Fitbit, Where to used IOT etc | 4 | 4 | All good |
| Shreya Kurne | Basics of green internet of things | 4 | 4 | - |
| Tarannum Shaikh | lot and its uses | 5 | 5 | |
| Ashok Kumar M | Yes. I can | 5 | 5 | Excellent |
| Jayakodi.S | Yes | 5 | 5 | Nothing |
| Dr Sachin Agrawal | No | 5 | 5 | |
| SUJIT BISWAS | YES | 4 | 4 | |
| SIVASAKTHI S | Yes | 5 | 5 | Nice |
| Rubina Shaikh | lot definition | 4 | 4 | |
| monali nitin chaudhary | amazon, alexa etc | 5 | 5 | NA |
| VISHNU KAMBLE | No | 5 | 5 | |
| Mrs Sneha Pankaj Ingale | Yes | 4 | 5 | |
| Dr Sohel | lot | 4 | 5 | |
| Vasif Ahmed | Yes | 5 | 4 | |
| Mrs.SARIKA ATUL PATIL | Top security concerns, Security best practices | 5 | 5 | Informative session |
| Sowmya S | Yes | 4 | 4 | |
| SANDEEP MUNGHATE | Yes | 5 | 4 | |
| Pravin Ghate | IOT for all | 5 | 5 | No |
| Dr. S.K.Mydhili | Healthcare, Industry, Agriculture | 5 | 5 | Good. |
| Vaibhav Prakash | IOT Platforms | 4 | 4 | |

List of participants attended Day 1, Session 2 with feedback

Resource Person: Dr. Faruk Kazi

| Name | Q1 | Q2. | Q3 | Any other comments |
|----------------------------------|-----|-----|----|--------------------------------|
| Mr. Gaurav Yashwant Tawde | 3/3 | 5 | 5 | Excellent Session! |
| SREEDEVI CH | 3/3 | 5 | 5 | Informative Session |
| Dr S K MYDHILI | 2/3 | 5 | 5 | Informative Session |
| HEMAVANI | 3/3 | 4 | 4 | Please share the ppt |
| Dr. Pillutla Harikrishna | 3/3 | 5 | 5 | NA |
| Ajinkya Anandgopal Valanjoo | 3/3 | 5 | 5 | |
| Mayuri Kundu | 3/3 | 4 | 4 | Excellent delivery of lecture. |
| Ratan Rajan Srivastava | 3/3 | 5 | 5 | |
| Arti Sawant | 3/3 | 5 | 5 | |
| Santoshi pote | 2/3 | 5 | 5 | Nil |
| Dr. Bhavin Shah | 3/3 | 5 | 5 | |
| Nilesh N Kulkarni | 3/3 | 5 | 5 | |
| Jyoti Kashyap | 3/3 | 5 | 5 | Very good session |
| RAJIB DUTTA | 3/3 | 5 | 5 | |
| Dr. Mansi Subhedar | 3/3 | 5 | 4 | Good session |
| Sanjoy Mitra | 3/3 | 4 | 4 | Very informative session |
| CH MYDHILI | 2/3 | 5 | 5 | |
| Shanta Sondur | 3/3 | 5 | 5 | Nice Session |
| Er.Manoj S. Kavedia | 3/3 | 4 | 4 | All good |
| monali Nitin Chaudhari | 3/3 | 5 | 5 | NA |
| Snehal Lopes | 3/3 | 5 | 5 | |
| Amol Sankpal | 3/3 | 5 | 5 | good |
| Jayakodi.S | 3/3 | 5 | 5 | nothing |
| MUNISANKAR NAGUGARI | 3/3 | 5 | 5 | NO |
| PRATIK S. PATEL | 1/3 | 4 | 4 | NOTHING |
| Abhishek Chaudhari | 2/3 | 5 | 5 | |
| Rubina Shaikh | 3/3 | 4 | 4 | |
| MILENDRAKUMAR MANILAL SOLANKI | 3/3 | 5 | 5 | No |
| VISHNU KAMBLE | 1/3 | 5 | 5 | |
| Tarannum Shaikh | 3/3 | 5 | 5 | |

| Mrs Sneha Pankaj Ingale | 2/3 | 4 | 4 | |
|------------------------------|-----|---|---|--------------------------|
| Mrs. Anuradha Jadiya | 3/3 | 5 | 5 | very good session |
| Dr Sohel | 3/3 | 5 | 4 | |
| Vasif Ahmed | 3/3 | 5 | 5 | |
| Mrs.SARIKA ATUL PATIL | 3/3 | 5 | 5 | No |
| Sowmya S | 2/3 | 4 | 4 | |
| Dr. K. Mahesh Kumar | 3/3 | 5 | 5 | |
| MR. VAIBHAV VIKAS MAINKAR | 3/3 | 5 | 5 | |
| K HEMAVANI | 3/3 | 5 | 5 | |
| Mrs Nusrat Ansari | 3/3 | 5 | 5 | very informative session |
| Shreya Kurne | 3/3 | 4 | 4 | |
| SUJIT BISWAS | 2/3 | 4 | 4 | |
| Vaibhav Prakash | 2/3 | 4 | 4 | |

List of Participants attended Day 1, Session 3 with feedback

Resource Person: Dr. Y.S.Rao

| Name | Q1 | Q2. | Q3 | Any other comments |
|------------------------------|-----|-----|----|---------------------|
| JAYADEVAN N M | 3/3 | 4 | 4 | |
| Dr. Mansi Subhedar | 3/3 | 4 | 4 | Good session |
| Nilesh N Kulkarni | 3/3 | 5 | 5 | |
| Snehal Lopes | 3/3 | 5 | 5 | |
| CH MYDHILI | 1/3 | 5 | 5 | |
| Ratan Rajan Srivastava | 2/3 | 5 | 5 | |
| Dr. Bhavin Shah | 3/3 | 5 | 5 | |
| S.THIRUMALAI | 3/3 | 5 | 5 | GOOD |
| Dr.S.K.Mydhili | 3/3 | 5 | 5 | GOOD |
| SREEDEVI CH | 2/3 | 4 | 4 | Informative Session |
| Mr. Gaurav Yashwant Tawde | 3/3 | 5 | 5 | Good session. |
| Dr. K. Mahesh Kumar | 3/3 | 5 | 5 | |

| Mrs. Anuradha Jadiya | 3/3 | 5 | 5 | very informative session |
|----------------------------------|-----|---|---|-----------------------------|
| Dr. Pillutla Harikrishna | 3/3 | 5 | 5 | NA |
| Shanta Sondur | 3/3 | 5 | 5 | Nice session |
| Sanjoy Mitra | 2/3 | 4 | 4 | Very informative session |
| Mayuri Kundu | 2/3 | 4 | 4 | |
| Er. Manoj S. Kavedia | 2/3 | 4 | 4 | All good |
| Rubina Shaikh | 2/3 | 4 | 4 | |
| Abhishek Chaudhari | 3/3 | 5 | 5 | |
| RAJIB DUTTA | 3/3 | 5 | 5 | |
| Ajinkya Anandgopal Valanjoo | 2/3 | 5 | 5 | |
| Pratik S. Patel | 2/3 | 4 | 4 | nothing |
| MILENDRAKUMAR MANILAL SOLANKI | 3/3 | 5 | 5 | No |
| Arti Sawant | 3/3 | 5 | 5 | |
| Pravin Ghate | 3/3 | 5 | 5 | Nil |
| Dr Sohel Bhura | 2/3 | 5 | 4 | |
| Amol Sankpal | 3/3 | 5 | 5 | good session |
| Mrs. SARIKA ATUL PATIL | 3/3 | 5 | 5 | no |
| MR. VAIBHAV VIKAS MAINKAR | 3/3 | 5 | 5 | |
| SIVASAKTHI S | 3/3 | 5 | 5 | Nice Session |
| JYOTI Kashyap | 3/3 | 5 | 5 | Very good |
| Tarannum Shaikh | 2/3 | 5 | 5 | |
| Jayakodi.S | 2/3 | 5 | 5 | nothing |
| K HEMAVANI | 3/3 | 5 | 5 | |
| Mrs Sneha Pankaj Ingale | 3/3 | 4 | 5 | |
| Dr Sachin Agrawal | 3/3 | 5 | 5 | |
| Monali Nitin Chaudhari | 3/3 | 5 | 5 | VERY INFORMATIVE SESSION |
| Munisankar Nagugari | 2/3 | 5 | 5 | No |
| Vasif Ahmed | 3/3 | 4 | 4 | |
| Mrs Nusrat | 3/3 | 5 | 5 | |
| Shreya Kurne | 3/3 | 5 | 4 | |
| VISHNU KAMBLE | 2/3 | 5 | 5 | |

| SUJIT BISWAS | 1/3 | 4 | 4 | |
|--------------|-----|---|---|--|
| SANDEEP | | | | |
| CHUDARAMJI | 3/3 | 5 | 5 | |
| MUNGHATE | | | | |

List of Participants attended Day 1, Session 4 with feedback

Resource Person : Mr. Shailesh Agaskar

| Name | Q1 | Q2. | Q3 | Any other comments |
|------------------------------|-----|-----|----|--------------------------|
| SIVASAKTHI S | 3/3 | 5 | 5 | Nice Session |
| JAYADEVAN N M | 3/3 | 4 | 4 | |
| SREEDEVI CH | 3/3 | 5 | 4 | Informative Session |
| Dr.S.K.Mydhili | 3/3 | 5 | 5 | GOOD. Pls share the ppts |
| JYOTI Kashyap | 3/3 | 5 | 5 | Good session |
| Abhishek Chaudhari | 3/3 | 5 | 5 | |
| RAJIB DUTTA | 3/3 | 5 | 5 | |
| Nilesh Kulkarni | 3/3 | 5 | 5 | Awesome session |
| Dr. Bhavin Shah | 3/3 | 5 | 5 | |
| Amol Sankpal | 3/3 | 5 | 5 | good session |
| Shanta Sondur | 3/3 | 5 | 5 | Good session |
| Mrs. Anuradha Jadiya | 3/3 | 5 | 5 | nice session |
| Arti Sawant | 3/3 | 5 | 5 | |
| MR. VAIBHAV VIKAS MAINKAR | 3/3 | 5 | 5 | |
| Pratik S. Patel | 2/3 | 4 | 4 | nothing |
| Dr. Pillutla Harikrishna | 3/3 | 5 | 5 | NA |
| S.THIRUMALAI | 3/3 | 5 | 5 | good |
| Sanjoy Mitra | 2/3 | 4 | 4 | Very informative session |
| CH MYDHILI | 3/3 | 5 | 5 | |
| Mayuri Kundu | 3/3 | 4 | 4 | |
| K HEMAVANI | 3/3 | 5 | 5 | |
| Tarannum Shaikh | 2/3 | 5 | 5 | |
| Jayakodi.S | 3/3 | 5 | 5 | nothing |
| Dr. Mansi Subhedar | 3/3 | 4 | 4 | Good |

| Mrs Sneha Pankaj Ingale | 3/3 | 4 | 5 | |
|-----------------------------------|-----|---|---|---------------|
| Dr Sachin Agrawal | 3/3 | 5 | 5 | |
| Ashok Kumar M | 3/3 | 5 | 5 | Excellent |
| Dr Sohel Bhura | 3/3 | 5 | 5 | |
| Monali Nitin Chaudhari | 3/3 | 5 | 5 | GOOD SESSION |
| Munisankar nagugari | 3/3 | 5 | 5 | No |
| Vasif Ahmed | 3/3 | 5 | 4 | |
| Rubina Shaikh | 3/3 | 5 | 5 | |
| Mrs.SARIKA ATUL PATIL | 3/3 | 5 | 5 | No |
| VISHNU Kamble | 3/3 | 5 | 5 | |
| Mr. Gaurav Yashwant Tawde | 3/3 | 5 | 5 | Nice session. |
| Dr. K. Mahesh Kumar | 3/3 | 5 | 5 | |
| Shreya Kurne | 3/3 | 5 | 4 | |
| Snehal Lopes | 3/3 | 5 | 5 | |
| Ratan Rajan Srivastava | 3/3 | 5 | 5 | |
| SUJIT BISWAS | 2/3 | 4 | 4 | |
| Er. Manoj S. Kavedia | 3/3 | 4 | 4 | All good |
| SANDEEP CHUDARAMJI MUNGHATE | 2/3 | 5 | 5 | |
| Vaibhav Prakash | 3/3 | 4 | 4 | |

List of Participants attended Day 2, Pre-lunch session with feedback

Resource Person: Dr. Amol Madane

| Name | Q1 | Q2. | Q3 | Any other comments |
|----------------------------------|-----|-----|----|--------------------------|
| Abhishek Chaudhari | 3/3 | 5 | 5 | |
| Vasif Ahmed | 3/3 | 4 | 4 | |
| Ajinkya Anandgopal Valanjoo | 3/3 | 5 | 5 | |
| Amol Sankpal | 3/3 | 5 | 5 | good |
| Mrs. Anuradha Jadiya | 3/3 | 5 | 5 | Very informative session |
| Arti Sawant | 2/3 | 5 | 5 | |
| Ashok Kumar M | 3/3 | 5 | 5 | Excellent |
| Shreya Kurne | 3/3 | 5 | 5 | |
| Er.Manoj S, kavedia | 3/3 | 4 | 4 | All good |
| Mr. Gaurav Yashwant Tawde | 3/3 | 5 | 5 | Good session |
| Gayathri.R | 1/3 | 5 | 5 | Nil |
| Dr. Bhavin Shah | 3/3 | 4 | 4 | |
| JAYADEVAN N M | 3/3 | 4 | 4 | |
| K HEMAVANI | 2/3 | 5 | 5 | |
| Jyoti Kashyap | 3/3 | 5 | 5 | 5/5 |
| Mayuri Kundu | 3/3 | 3 | 3 | |
| Dr. K. Mahesh Kumar | 2/3 | 5 | 4 | |
| Dr. Mansi Subhedar | 3/3 | 5 | 5 | Good session |
| MILENDRAKUMAR MANILAL SOLANKI | 3/3 | 5 | 5 | No |
| Monali Nitin Chaudhari | 3/3 | 5 | 5 | GOOD SESSION |
| Munisankar Nagugari | 2/3 | 5 | 5 | No |
| CH MYDHILI | 3/3 | 5 | 5 | |
| Dr S K MYDHILI | 3/3 | 5 | 5 | informative session |
| Nilesh Kulkarni | 3/3 | 5 | 5 | |
| Mrs Nusrat Ansari | 3/3 | 5 | 5 | |
| Dr. Pillutla Harikrishna | 3/3 | 5 | 5 | NA |
| Pravin Ghate | 1/3 | 5 | 5 | No |
| PRATIK S. PATEL | 3/3 | 4 | 3 | |
| RAJIB DUTTA | 3/3 | 5 | 5 | |

| Ratan Rajan | | | | |
|-----------------------------------|-----|---|---|-----------------------------|
| Srivastava | 3/3 | 5 | 5 | |
| Dr Sohel Bhura | 3/3 | 5 | 5 | |
| Dr Sachin Agrawal | 1/3 | 5 | 5 | |
| Santoshi pote | 3/3 | 5 | 5 | Nil |
| Mrs.SARIKA ATUL PATIL | 3/3 | 5 | 5 | No |
| SANDEEP CHUDARAMJI MUNGHATE | 3/3 | 4 | 4 | |
| Shanta Sondur | 2/3 | 5 | 5 | Good session |
| SIVASAKTHI S | 2/3 | 5 | 5 | Nice |
| Jayakodi.S | 3/3 | 5 | 5 | nothing |
| Mrs Sneha Pankaj Ingale | 3/3 | 4 | 5 | |
| Snehal Lopes | 3/3 | 5 | 5 | |
| Sowmya S | 3/3 | 4 | 4 | |
| SREEDEVI CH | 3/3 | 5 | 5 | Informative Session |
| Rubina Shaikh | 3/3 | 4 | 4 | |
| SUJIT BISWAS | 1/3 | 4 | 4 | |
| Tarannum Shaikh | 2/3 | 5 | 5 | |
| S.THIRUMALAI | 2/3 | 5 | 5 | good |
| MR. VAIBHAV VIKAS MAINKAR | 2/3 | 5 | 5 | |
| Vaibhav Prakash | 3/3 | 4 | 4 | |
| vishnu kamble | 2/3 | 5 | 5 | |
| Sanjoy Mitra | 3/3 | 4 | 5 | Very Informative Session |

List of Participants attended Day 2, sessions with feedback

| Name | Q1 | Q2. | Q3 | Any other comments |
|----------------------------------|-------|-----|----|---------------------------------------|
| Abhishek Chaudhari | 4/5 | 5 | 5 | |
| Vasif Ahmed | 4/5 | 4 | 5 | |
| Ajinkya Valanjoo | 5/5 | 5 | 5 | |
| Amol Sankpal | 3/5 | 5 | 5 | good |
| Mrs. Anuradha Jadiya | 4/5 | 5 | 5 | Nice session with good examples |
| Arti Sawant | 5/5 | 5 | 5 | |
| Ashok Kumar M | 4/5 | 5 | 5 | Excellent |
| Shreya Kurne | 3/5 | 5 | 5 | |
| Mr. Gaurav Yashwant Tawde | 5/5 | 5 | 5 | Excellent session. |
| Gayathri R | 2/5 | 5 | 5 | Nil |
| Dr. Bhavin Shah | 5/5 | 4 | 4 | |
| JAYADEVAN N M | 4/5 | 3 | 3 | |
| K HEMAVANI | 4/5 | 5 | 5 | |
| Jyoti Kashyap | 4/5 | 5 | 5 | Very good |
| Mayuri Kundu | 2/5 | 4 | 4 | |
| Dr. K. Mahesh Kumar | 3/5 | 5 | 5 | |
| Dr. Mansi Subhedar | 3/5 | 5 | 5 | Good |
| MILENDRAKUMAR MANILAL SOLANKI | 3/5 | 5 | 5 | No |
| Monali NitinChaudhari | 4/5 | 5 | 5 | NA |
| Munisankar Nagugari | 2 / 5 | 5 | 5 | No |
| CH MYDHILI | 5/5 | 5 | 5 | |
| Dr S K MYDHILI | 4/5 | 5 | 5 | Informative session |
| Nilesh Kulkarni | 3/5 | 5 | 5 | |
| Mrs Nusrat Ansari | 5/5 | 5 | 5 | |
| Dr. Pillutla Harikrishna | 5/5 | 5 | 5 | NA |
| Pravin Ghate | 3/5 | 5 | 5 | No |
| PRATIK S. PATEL | 3/5 | 5 | 5 | nothing |
| RAJIB DUTTA | 3/5 | 5 | 5 | |
| Ratan Rajan Srivastava | 3/5 | 5 | 5 | |
| Dr Sohel Bhura | 3/5 | 5 | 5 | |
| Dr Sachin Agrawal | 4/5 | 5 | 5 | |

| Mrs.SARIKA ATUL PATIL | 4/5 | 5 | 5 | No |
|-----------------------------------|-------|---|---|-------------------------------|
| SANDEEP CHUDARAMJI MUNGHATE | 5 / 5 | 5 | 5 | |
| Shanta Sondur | 5 / 5 | 5 | 5 | Good session for the beginera |
| SIVASAKTHI S | 3/5 | 5 | 5 | Nice Session |
| JAYAKODI.S | 5/5 | 5 | 5 | nothing |
| Mrs Sneha Pankaj Ingale | 3/5 | 4 | 5 | |
| Snehal Lopes | 4/5 | 5 | 5 | |
| Sowmya S | 4/5 | 4 | 4 | |
| SREEDEVI CH | 3/5 | 4 | 4 | Informative Session |
| Rubina Shaikh | 5/5 | 4 | 4 | |
| SUJIT BISWAS | 2/5 | 4 | 4 | |
| Tarannum Shaikh | 4/5 | 5 | 5 | |
| S. THIRUMALAI | 5/5 | 5 | 5 | Good |
| MR. VAIBHAV VIKAS MAINKAR | 4/5 | 5 | 5 | |
| Vaibhav Prakash | 3/5 | 4 | 4 | |
| VISHNU KAMBLE | 2/5 | 5 | 5 | |
| Sanjoy Mitra | 4/5 | 4 | 4 | Informative sessions |

List of Participants attended Day 3, Pre-lunch session with feedback Resource Person : Dr. Manesh Kokare

| Name | Q1 | Q2. | Q3 | Any other comments |
|----------------------|-----|-----|----|--------------------|
| Abhishek Chaudhari | 1/3 | 5 | 5 | |
| Vasif Ahmed | 2/3 | 5 | 4 | |
| Ajinkya Valanjoo | 2/3 | 5 | 5 | |
| Amol Sankpal | 2/3 | 5 | 5 | nice session |
| | | | | Very nice |
| Mrs. Anuradha Jadiya | 1/3 | 5 | 5 | session. |
| Arti Sawant | 3/3 | 5 | 5 | |
| Ashok Kumar M | 1/3 | 5 | 5 | Excellent |
| Shreya Kurne | 2/3 | 5 | 5 | |
| Er.Manoj S. Kavedia | 2/3 | 4 | 4 | All good |
| Mr. Gaurav Yashwant | | | | Excellent |
| Tawde | 3/3 | 5 | 5 | session |
| Dr. Bhavin Shah | 2/3 | 5 | 5 | |

| JAYADEVAN N M | 2/3 | 4 | 4 | |
|----------------------------------|-----|----------------|---|---------------------|
| K HEMAVANI | 1/3 | 4 5 | 5 | |
| Jyoti Kashyap | 1/3 | 5 | 5 | V good |
| Mayuri Kundu | 2/3 | 4 | 3 | v good |
| Dr. K. Mahesh Kumar | 1 | 4 5 | 5 | |
| | 2/3 | | 5 | Cood |
| Dr. Mansi Subhedar MILENDRAKUMAR | 2/3 | 4 | 5 | Good |
| MANILAL SOLANKI | 2/3 | 5 | 5 | No |
| monali nitin chaudhari | 2/3 | 5 | 5 | NA |
| CH MYDHILI | 2/3 | 5 | 5 | INA INA |
| Dr.S.K.Mydhili | 2/3 | 5 | 5 | NIL |
| Nilesh Kulkarni | 2/3 | 5 | 5 | IVIL |
| Mrs Nusrat Ansari | 3/3 | 5 | 5 | |
| Dr. Pillutla Harikrishna | 2/3 | 5 | 5 | NA |
| Pratik S. Patel | 2/3 | 4 | 4 | nothing |
| Rajib Dutta | 2/3 | - 5 | 5 | Hothing |
| Najib Dutta | 2/3 | <u> </u> | 3 | Von |
| | | | | Very Informative |
| Ratan Rajan Srivastava | 2/3 | 5 | 5 | session |
| Dr Sohel Bhura | 2/3 | 5 | 5 | 30331011 |
| Dr Sachin Agrawal | 2/3 | 5 | 5 | |
| Santoshi pote | 2/3 | 5 | 5 | Nil |
| Suntosin pote | 2/3 | <u>J</u> | 3 | 1411 |
| Mrs.SARIKA ATUL PATIL | 2/3 | 5 | 5 | no |
| | | | | |
| SANDEEP CHUDARAMJI | | | | |
| MUNGHATE | 2/3 | 5 | 5 | |
| Shanta Sondur | 3/3 | 5 | 5 | Good session |
| SIVASAKTHI S | 2/3 | 5 | 5 | NICE SESSION |
| JAYAKODI.S | 2/3 | 5 | 5 | nothing |
| Snehal Lopes | 2/3 | 5 | 5 | |
| Sowmya S | 2/3 | 4 | 4 | |
| , | | | | Informative |
| SREEDEVI CH | 2/3 | 4 | 4 | Session |
| Rubina Shaikh | 3/3 | 4 | 4 | |
| SUJIT BISWAS | 1/3 | 4 | 4 | |
| Tarannum Shaikh | 2/3 | 5 | 5 | |
| S.THIRUMALAI | 2/3 | 5 | 5 | GOOD |
| MR. VAIBHAV VIKAS | | | | |
| MAINKAR | 2/3 | 5 | 5 | |
| Vaibhav Prakash | 2/3 | 4 | 4 | |
| Vishnu kamble | 2/3 | 5 | 5 | |
| | | | | Very |
| | | | | informative |
| Sanjoy Mitra | 2/3 | 5 | 5 | session |

List of Participants attended Day 3, sessions with feedback Resource Person : Mr. Amit Mishra

| Name | Q1 | Q2. | Q3 | Any other comments |
|--------------------------------------|-------|----------|----------|--------------------|
| Abhishek Chaudhari | 1/5 | 5 | 5 | |
| Vasif Ahmed | 3/5 | 5 | 4 | |
| Ajinkya Valanjoo | 4/5 | 5 | 5 | |
| Amol Sankpal | 5/5 | 5 | 5 | good |
| Mrs. Anuradha | , | | | - J |
| Jadiya | 5/5 | 5 | 5 | very nice session |
| Arti Sawant | 4/5 | 5 | 5 | |
| Ashok Kumar M | 5/5 | 5 | 5 | Excellent |
| Shreya Kurne | 4/5 | 4 | 4 | |
| Er.Manoj S. kavedia | 4/5 | 4 | 4 | |
| Mr. Gaurav Yashwant Tawde | 5 / 5 | 5 | 5 | Excellent session |
| Gayathri.R | 2/5 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 3/5 | 4 | 4 | |
| JAYADEVAN N M | 4/5 | 4 | 4 | |
| Jyoti Kashyap | 5/5 | 5 | 5 | Good |
| Mayuri Kundu | 4/5 | 4 | 3 | |
| Dr. Mansi | · | | | |
| Subhedar | 4/5 | 5 | 5 | Good |
| MILENDRAKUMA R MANILAL SOLANKI | 5/5 | 5 | 5 | No |
| monali nitin | 3/3 | <u>J</u> | <u> </u> | INO |
| chaudhari | 5/5 | 5 | 5 | NA |
| Munisankar | | | | |
| Nagugari | 5/5 | 5 | 5 | No |
| CH MYDHILI | 4/5 | 5 | 5 | |
| Dr.S.K,Mydhili | 5/5 | 5 | 5 | GOOD |
| Nilesh Kulkarni | 5/5 | 5 | 5 | |
| Dr Pillutla | | | | |
| Harikrishna | 5/5 | 5 | 5 | Na |
| PRATIK S. PATEL | 3 / 5 | 5 | 5 | nothing |
| RAJIB DUTTA | 4/5 | 5 | 5 | |
| Ratan Rajan | | | | |
| Srivastava | 4/5 | 5 | 5 | |
| Dr Sohel Bhura | 5/5 | 5 | 5 | |

| | T | | | |
|-----------------|-----|---|---|---------------------|
| Dr Sachin | | | | |
| Agrawal | 4/5 | 5 | 5 | |
| Santoshi pote | 5/5 | 5 | 5 | Nil |
| Mrs.SARIKA | | | | |
| ATUL PATIL | 5/5 | 5 | 5 | Informative session |
| SANDEEP | | | | |
| CHUDARAMJI | | | | |
| MUNGHATE | 3/5 | 5 | 5 | |
| Shanta Sondur | 5/5 | 5 | 5 | Well conducted |
| SIVASAKTHI S | 5/5 | 5 | 5 | Nice Session |
| JAYAKODI.S | 5/5 | 5 | 5 | nothing |
| Mrs Sneha | | | | |
| Pankaj Ingale | 5/5 | 4 | 4 | |
| Snehal Lopes | 4/5 | 5 | 5 | |
| Sowmya S | 5/5 | 4 | 4 | |
| | | | | |
| SREEDEVI CH | 5/5 | 4 | 4 | Informative Session |
| Rubina Shaikh | 5/5 | 4 | 4 | |
| SUJIT BISWAS | 2/5 | 4 | 4 | |
| Tarannum | | | | |
| Shaikh | 5/5 | 5 | 5 | |
| MR. VAIBHAV | | | | |
| VIKAS MAINKAR | 5/5 | 5 | 5 | |
| Vaibhav Prakash | 5/5 | 4 | 4 | |
| | | | | |
| Sanjoy Mitra | 3/5 | 4 | 4 | Very Informative |

List of Participants attended Day 4, Pre-lunch session with feedback

Resource Person: Mr. Bhlupendra Bhate

| Name | Q1 | Q2. | Q3 | Any other comments |
|-------------------------|-----|-----|----|--------------------|
| Abhishek Chaudhari | 2/3 | 5 | 5 | |
| Vasif Ahmed | 3/3 | 4 | 4 | |
| Ajinkya Valanjoo | 3/3 | 5 | 5 | |
| Amol Sankpal | 3/3 | 5 | 5 | good |
| Mrs. Anuradha Jadiya | 3/3 | 5 | 5 | very nice session |
| Ashok Kumar M | 3/3 | 5 | 5 | Excellent |
| Shreya Kurne | 3/3 | 5 | 5 | |
| Er.Manoj S. Kavedia | 3/3 | 4 | 4 | All good |

| Mr. Gaurav | | | | |
|-----------------------------------|-----|---|---|---------------|
| Yashwant Tawde | 3/3 | 5 | 5 | Good Session. |
| Gayathri.R | 3/3 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 3/3 | 5 | 5 | |
| JAYADEVAN N M | 3/3 | 4 | 4 | |
| K HEMAVANI | 3/3 | 5 | 5 | |
| Jyoti Kashyap | 3/3 | 5 | 5 | V good |
| Mayuri Kundu | 2/3 | 3 | 3 | - |
| Dr. K. Mahesh Kumar | 3/3 | 5 | 5 | |
| Dr. Mansi Subhedar | 3/3 | 5 | 5 | |
| MILENDRAKUMAR MANILAL SOLANKI | 3/3 | 5 | 5 | No |
| monali Nitin Chaudhari | 3/3 | 5 | 5 | NA |
| MUNISANKAR NAGUGARI | 3/3 | 5 | 5 | NO |
| CH MYDHILI | 3/3 | 5 | 5 | |
| Dr.S.K.Mydhili | 2/3 | 5 | 5 | Good |
| Nilesh Kulkarni | 3/3 | 5 | 5 | |
| Mrs Nusrat Ansari | 3/3 | 5 | 5 | |
| Dr.Pillutla Harikrishna | 3/3 | 5 | 5 | NA |
| Pravin Ghate | 3/3 | 5 | 5 | No |
| PRATIK S. PATEL | 3/3 | 4 | 4 | nothing |
| RAJIB DUTTA | 2/3 | 5 | 5 | |
| Ratan Rajan Srivastava | 3/3 | 5 | 5 | |
| Dr Sohel | 3/3 | 5 | 5 | |
| Dr Sachin Agrawal | 3/3 | 5 | 5 | |
| Santoshi pote | 2/3 | 5 | 5 | Nil |
| Mrs.SARIKA ATUL PATIL | 3/3 | 5 | 5 | No |
| SANDEEP CHUDARAMJI MUNGHATE | 2/3 | 5 | 4 | |
| SIVASAKTHI S | 2/3 | 5 | 5 | Nice Session |
| JAYAKODI.S | 3/3 | 5 | 5 | nothing |
| Snehal Lopes | 3/3 | 5 | 5 | |
| Sowmya S | 3/3 | 4 | 4 | |

| SREEDEVI CH | 3/3 | 4 | 4 | Informative Session |
|------------------------------|-----|---|---|------------------------|
| Rubina Shaikh | 3/3 | 4 | 4 | |
| SUJIT BISWAS | 0/3 | 4 | 4 | |
| Tarannum Shaikh | 2/3 | 5 | 5 | |
| S. THIRUMALAI | 3/3 | 5 | 5 | Good |
| MR. VAIBHAV VIKAS MAINKAR | 3/3 | 5 | 5 | |
| Vaibhav Prakash | 2/3 | 4 | 4 | |
| VISHNU KAMBLE | 1/3 | 5 | 5 | |
| Sanjoy Mitra | 3/3 | 5 | 5 | Very informative |

List of participants attended Day 4, sessions with feedback

| Name | Q1 | Q2. | Q3 | Any other comments |
|---------------------|-----|-----|----|--------------------|
| Abhishek Chaudhari | 3/5 | 5 | 5 | |
| Vasif Ahmed | 5/5 | 5 | 4 | |
| Amol Sankpal | 4/5 | 5 | 5 | good |
| Anuradha Jadiya | 5/5 | 5 | 5 | Good Session |
| Arti Sawant | 4/5 | 5 | 5 | |
| Ashok Kumar M | 4/5 | 5 | 5 | Excellent |
| Shreya Kurne | 5/5 | 5 | 5 | |
| Er.Manoj S. Kavedia | 5/5 | 4 | 4 | All good |
| Mr. Gaurav | | | | Excellent |
| Yashwant Tawde | 5/5 | 5 | 5 | Session! |
| Gayathri.R | 3/5 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 4/5 | 4 | 4 | |
| JAYADEVAN N M | 4/5 | 4 | 4 | |
| K HEMAVANI | 3/5 | 5 | 5 | |
| Jyoti Kashyap | 5/5 | 5 | 5 | 5/5 |
| Mayuri Kundu | 4/5 | 4 | 4 | |
| Dr. K. Mahesh | | | | |
| Kumar | 4/5 | 5 | 5 | |
| Dr. Mansi Subhedar | 2/5 | 4 | 5 | |

| 5/5 | 5 | 5 | No |
|---------------------|-------------------|---|---|
| 3,3 | | | 110 |
| 5/5 | 5 | 5 | |
| <i>-</i> , <i>-</i> | | | |
| 3 / 5 | 5 | 5 | No |
| | | | |
| 3 / 3 | <u>J</u> | | Nice |
| | | | session.Thank |
| | | | You. Gained lot |
| | | | of information in |
| 4/5 | 5 | 5 | new perspective. |
| | | | P - P P |
| | | | |
| 3 / 3 | | | |
| 5/5 | 5 | 5 | Na |
| | | | N |
| | | | nothing |
| | | | Hothing |
| 4/3 | 3 | 3 | |
| 1/5 | 5 | | |
| | | | |
| | | | |
| 2/5 | 5 | 5 | |
| - /- | _ | _ | Informative |
| 5/5 | 5 | 5 | session |
| | | | |
| F / F | F | _ | |
| 5/5 | 5 | 5 | |
| _ ,_ | _ | _ | Very good |
| | | 1 | session |
| - | | | Nice Session |
| 5/5 | 5 | 5 | nothing |
| | | | |
| 4/5 | 4 | 4 | |
| | | | |
| | | | Can we get amit |
| | | | mishra sirs |
| | | | recording? |
| | | | because I missed |
| | | | few lectures |
| | | | because of |
| 4/5 | 5 | 5 | network issue |
| | 4 | 4 | |
| - | | | Informative |
| 4/5 | 4 | 4 | Session |
| 5/5 | 4 | 4 | |
| | 4/5 4/5 4/5 | 5/5 5 3/5 5 5/5 5 4/5 5 3/5 5 5/5 5 3/5 5 3/5 5 3/5 5 4/5 5 3/5 5 2/5 5 5/5 5 5/5 5 4/5 5 4/5 4 4/5 4 4/5 4 4/5 4 4/5 4 | 5/5 5 3/5 5 5/5 5 5/5 5 5/5 5 5/5 5 5/5 5 5/5 5 3/5 5 3/5 5 3/5 5 3/5 5 4/5 5 3/5 5 5 5 4/5 5 5/5 5 5/5 5 5/5 5 5/5 5 4/5 4 4/5 4 4/5 4 4/5 4 4/5 4 4/5 4 |

| SUJIT BISWAS | 3/5 | 4 | 4 | |
|-------------------|-----|---|---|------------------|
| Tarannum Shaikh | 4/5 | 5 | 5 | |
| S. THIRUMALAI | 4/5 | 5 | 5 | Good |
| MR. VAIBHAV VIKAS | | | | |
| MAINKAR | 4/5 | 5 | 5 | |
| Vaibhav Prakash | 3/5 | 4 | 4 | |
| VISHNU KAMBLE | 2/5 | 5 | 5 | |
| | | | | |
| Sanjoy Mitra | 4/5 | 5 | 4 | Very Informative |

List of participants attended Day 5, pre-lunch session with feedback Resource Person : Dr. Mahesh Bundele

| Name | Q1 | Q2. | Q3 | Any other comments |
|----------------------------------|-----|-----|----|--------------------|
| Abhishek Chaudhari | 3/3 | 5 | 5 | |
| Vasif Ahmed | 3/3 | 4 | 4 | |
| Ajinkya Valanjoo | 3/3 | 5 | 5 | |
| Amol Sankpal | 3/3 | 5 | 5 | Excellent |
| Mrs. Anuradha Jadiya | 3/3 | 5 | 5 | Nice session. |
| Arti Sawant | 3/3 | 5 | 5 | |
| Ashok Kumar M | 3/3 | 5 | 5 | |
| Shreya Kurne | 2/3 | 5 | 4 | |
| Er.manoj S. Kavedia | 2/3 | 4 | 4 | All good |
| Mr. Gaurav Yashwant Tawde | 3/3 | 5 | 5 | Good session! |
| Gayathri.R | 2/3 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 3/3 | 4 | 4 | |
| JAYADEVAN N M | 2/3 | 4 | 4 | |
| K HEMAVANI | 2/3 | 5 | 5 | |
| Jyoti Kashyap | 2/3 | 4 | 4 | 4/5 |
| Mayuri Kundu | 2/3 | 4 | 4 | |
| Dr. K. Mahesh Kumar | 3/3 | 5 | 5 | |
| Dr. Mansi Subhedar | 2/3 | 5 | 5 | |
| MILENDRAKUMAR MANILAL SOLANKI | 3/3 | 5 | 5 | No |
| Monali Nitin Chaudhari | 2/3 | 5 | 5 | NA |
| Munisankar Nagugari | 2/3 | 5 | 5 | No |
| CH MYDHILI | 2/3 | 5 | 5 | |
| Nilesh Kulkarni | 2/3 | 5 | 5 | |
| Mrs Nusrat Ansari | 3/3 | 5 | 5 | |

| Dr. Pillutla | | | | |
|-----------------------------------|-----|---|---|------------------------|
| Harikrishna | 3/3 | 5 | 5 | NA |
| Pravin Ghate | 1/3 | 5 | 5 | N |
| PRATIK S. PATEL | 2/3 | 4 | 4 | Nothing |
| RAJIB DUTTA | 2/3 | 5 | 5 | Nothing |
| | 2/3 | 3 | 3 | |
| Ratan Rajan Srivastava | 3/3 | 5 | 5 | |
| Dr Sohel Bhura | 2/3 | 5 | 5 | |
| Dr Sachin Agrawal | 1/3 | 5 | 5 | |
| Santoshi pote | 2/3 | 5 | 5 | Nil |
| Mrs.SARIKA ATUL PATIL | 2/3 | 5 | 5 | No |
| SANDEEP CHUDARAMJI MUNGHATE | 2/3 | 5 | 5 | |
| SIVASAKTHI S | 2/3 | 5 | 5 | Nice Session |
| JAYAKODI.S | 2/3 | 5 | 5 | nothing |
| Sowmya S | 2/3 | 4 | 4 | |
| SREEDEVI CH | 3/3 | 4 | 4 | Informative Session |
| Rubina Shaikh | 2/3 | 5 | 4 | |
| SUJIT BISWAS | 1/3 | 4 | 4 | |
| Tarannum Shaikh | 2/3 | 5 | 5 | |
| S.THIRUMALAI | 2/3 | 5 | 5 | GOOD |
| MR. VAIBHAV VIKAS MAINKAR | 2/3 | 5 | 5 | |
| Vaibhav Prakash | 3/3 | 4 | 4 | |
| VISHNU KAMBLE | 1/3 | 5 | 5 | |
| Sanjoy Mitra | 2/3 | 3 | 4 | Good |

List of participants attended Day 5, sessions with feedback

| Name | Q1 | Q2. | Q3 | Any other comments |
|----------------------------------|-----|-----|----|---------------------|
| Abhishek Chaudhari | 5/5 | 5 | 5 | |
| Vasif Ahmed | 4/5 | 5 | 4 | |
| Amol Sankpal | 5/5 | 5 | 5 | nice |
| Mrs. Anuradha Jadiya | 5/5 | 5 | 5 | nice session |
| Ashok Kumar M | 4/5 | 5 | 5 | |
| Shreya Kurne | 4/5 | 5 | 5 | |
| Er.Manoj S. Kavedia | 5/5 | 4 | 4 | All good |
| Mr. Gaurav Yashwant Tawde | 5/5 | 5 | 5 | Excellent session! |
| Gayathri.R | 3/5 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 5/5 | 4 | 4 | |
| JAYADEVAN N M | 4/5 | 4 | 4 | |
| K HEMAVANI | 5/5 | 5 | 5 | |
| Jyoti Kashyap | 5/5 | 5 | 5 | Good |
| Mayuri Kundu | 5/5 | 4 | 4 | |
| Dr. K. Mahesh Kumar | 5/5 | 5 | 5 | |
| Dr. Mansi Subhedar | 5/5 | 5 | 5 | |
| MILENDRAKUMAR MANILAL SOLANKI | 4/5 | 5 | 5 | No |
| Monali Nitin Chaudhari | 5/5 | 5 | 5 | |
| Munisankar Nagugari | 5/5 | 5 | 5 | No |
| CH MYDHILI | 5/5 | 5 | 5 | |
| Dr.S.K.Mydhili | 4/5 | 5 | 5 | NIL |
| Nilesh Kulkarni | 5/5 | 5 | 5 | |
| Dr. Pillutla Harikrishna | 5/5 | 5 | 5 | Na |
| Pravin Ghate | 3/5 | 5 | 5 | No |
| PRATIK S. PATEL | 5/5 | 5 | 5 | |
| RAJIB DUTTA | 5/5 | 5 | 5 | |
| Ratan Rajan Srivastava | 5/5 | 5 | 5 | |
| Dr Sohel Bhura | 4/5 | 5 | 5 | |
| Dr Sachin Agrawal | 4/5 | 5 | 5 | |
| Santoshi pote | 4/5 | 5 | 5 | Nil |
| Mrs.SARIKA ATUL PATIL | 5/5 | 5 | 5 | Informative session |

| SANDEEP CHUDARAMJI MUNGHATE | 5/5 | 5 | 5 | |
|-----------------------------------|-----|---|---|--|
| Shanta Sondur | 5/5 | 5 | 5 | Nice Hands-On session |
| SIVASAKTHI S | 3/5 | 5 | 5 | Nice Session |
| JAYAKODI.S | 4/5 | 5 | 5 | nothing |
| Mrs Sneha Pankaj Ingale | 5/5 | 4 | 4 | |
| Snehal Lopes | 5/5 | 5 | 5 | |
| Sowmya S | 5/5 | 4 | 4 | |
| SREEDEVI CH | 4/5 | 4 | 4 | Informative Session |
| Rubina Shaikh | 5/5 | 4 | 4 | |
| SUJIT BISWAS | 2/5 | 4 | 4 | |
| Tarannum Shaikh | 4/5 | 5 | 5 | |
| MR. VAIBHAV VIKAS MAINKAR | 5/5 | 5 | 5 | |
| Vaibhav Prakash | 4/5 | 4 | 4 | |
| VISHNU KAMBLE | 2/5 | 5 | 5 | |
| Sanjoy Mitra | 4/5 | 5 | 4 | Very practical and informative session |

List of participants attended Day 6, ssessions with feedback

Resource Person: Dr. Saurabh Mehta

| Name | Q1 | Q2. | Q3 | Any other comments |
|---------------|-----|-----|----|---|
| Abhishek | | | | |
| Chaudhari | 3/3 | 5 | 5 | |
| Vasif Ahmed | 3/3 | 5 | 4 | |
| Amol Sankpal | 3/3 | 5 | 5 | Good |
| Mrs. Anuradha | | | | |
| Jadiya | 3/3 | 5 | 5 | nice session |
| Ashok Kumar M | 2/3 | 5 | 5 | |
| Shreya Kurne | 3/3 | 4 | 5 | |
| | | | | I have attended session with laptop and i |
| | | | | forget change |
| Er.Manoj S. | _ | | | name , i session |
| Kavedia | 3/3 | 4 | 4 | my son name is |

| | | T | | there Rishabh |
|-------------------|-----|---|---|-------------------|
| | | | | Kavedia, becasue |
| | | | | laptop login with |
| | | | | his name |
| Mr. Gaurav | | | | |
| Yashwant Tawde | 3/3 | 5 | 5 | Good session |
| Gayathri.R | 2/3 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 3/3 | 4 | 4 | |
| JAYADEVAN N M | 3/3 | 4 | 4 | |
| K HEMAVANI | 3/3 | 5 | 5 | |
| Jyoti Kashyap | 3/3 | 5 | 4 | 5/5 |
| Mayuri Kundu | 3/3 | 4 | 4 | |
| Dr. K. Mahesh | - | | | |
| Kumar | 3/3 | 5 | 5 | |
| Dr. Mansi | | | | |
| Subhedar | 3/3 | 4 | 4 | |
| MILENDRAKUMAR | | | | |
| MANILAL SOLANKI | 3/3 | 5 | 5 | No |
| Monali Nitin | | | | |
| Chaudhari | 3/3 | 5 | 5 | NA |
| Munisankar | | | | |
| Nagugari | 2/3 | 5 | 5 | No |
| CH MYDHILI | 3/3 | 5 | 5 | |
| | | _ | _ | informative |
| Dr S K MYDHILI | 2/3 | 5 | 5 | session |
| Nilesh Kulkarni | 3/3 | 5 | 5 | |
| Mrs Nusrat Ansari | 3/3 | 5 | 5 | |
| Dr. Pillutla | | | | |
| Harikrishna | 3/3 | 5 | 5 | NA |
| Pravin Ghate | 2/3 | 5 | 5 | Need ppt |
| PRATIK S. PATEL | 3/3 | 5 | 5 | nothing |
| RAJIB DUTTA | 3/3 | 5 | 5 | |
| Ratan Rajan | | Ţ | | |
| Srivastava | 2/3 | 5 | 5 | |
| Dr Sohel Bhura | 3/3 | 5 | 5 | |
| Dr Sachin Agrawal | 1/3 | 5 | 5 | |
| Santoshi pote | 3/3 | 5 | 5 | Nil |
| Mrsa.SARIKA ATUL | | | | |
| PATIL | 3/3 | 5 | 5 | No |
| SANDEEP | | | | |
| CHUDARAMJI | | | | |
| MUNGHATE | 3/3 | 5 | 4 | |
| | | | | Very good |
| Shanta Sondur | 2/3 | 5 | 5 | session |
| SIVASAKTHI S | 2/3 | 5 | 5 | Nice Session |
| JAYAKODI.S | 3/3 | 5 | 5 | nothing |

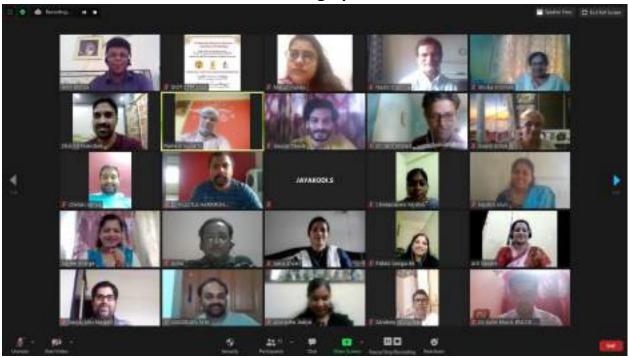
| Mrs Sneha Pankaj | | | | |
|------------------|-----|---|---|--------------|
| Ingale | 3/3 | 4 | 4 | |
| Snehal Lopes | 3/3 | 5 | 5 | |
| Sowmya S | 3/3 | 4 | 4 | |
| | | | | Informative |
| SREEDEVI CH | 3/3 | 4 | 4 | Session |
| Rubina Shaikh | 2/3 | 5 | 4 | |
| SUJIT BISWAS | 2/3 | 4 | 4 | |
| Tarannum Shaikh | 3/3 | 5 | 5 | |
| S.THIRUMALAI | 3/3 | 5 | 5 | GOOD |
| MR. VAIBHAV | | | | |
| VIKAS MAINKAR | 3/3 | 5 | 5 | |
| Vaibhav Prakash | 3/3 | 4 | 4 | |
| Vishnu kamble | 0/3 | 5 | 5 | |
| Sanjoy Mitra | 3/3 | 4 | 4 | Good Session |

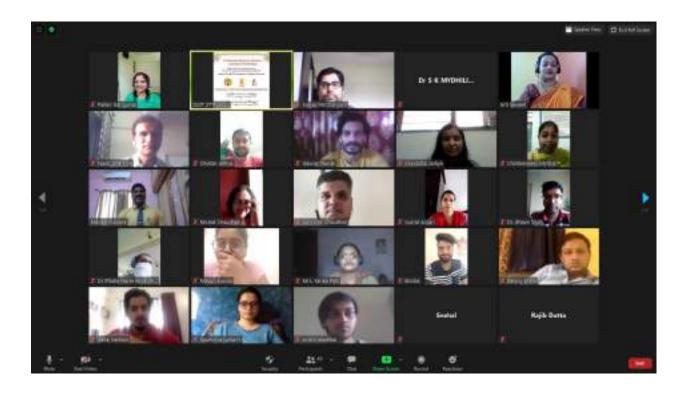
List of participants attended Day 6, sessions with feedback

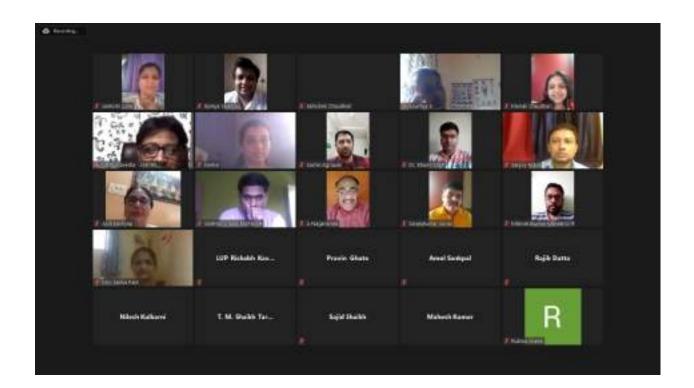
| Name | Q1 | Q2. | Q3 | Any other comments |
|---------------------|-----|-----|----|--------------------|
| Abhishek Chaudhari | 4/5 | 5 | 5 | |
| Vasif Ahmed | 5/5 | 5 | 4 | |
| Amol Sankpal | 4/5 | 5 | 5 | good |
| Anuradha Jadiya | 5/5 | 5 | 5 | Good |
| Arti Sawant | 4/5 | 5 | 5 | |
| Ashok Kumar M | 4/5 | 5 | 5 | Excellent |
| Shreya Kurne | 5/5 | 5 | 5 | |
| Er.Manoj S. Kavedia | 5/5 | 4 | 4 | All good |
| Mr. Gaurav | | | | |
| Yashwant Tawde | 5/5 | 5 | 5 | Excellent |
| Gayathri.R | 3/5 | 4 | 4 | Nil |
| Dr. Bhavin Shah | 4/5 | 4 | 4 | |
| JAYADEVAN N M | 4/5 | 4 | 4 | |
| K HEMAVANI | 3/5 | 5 | 5 | |
| Jyoti Kashyap | 5/5 | 5 | 5 | 5/5 |
| Mayuri Kundu | 4/5 | 4 | 4 | |
| Dr. K. Mahesh | | | | |
| Kumar | 4/5 | 5 | 5 | |
| Dr. Mansi Subhedar | 2/5 | 4 | 5 | |
| MILENDRAKUMAR | | | | |
| MANILAL SOLANKI | 5/5 | 5 | 5 | No |

| Monali Nitin | | | | |
|-------------------|-------|---|---|------------------|
| Chaudhari | 5/5 | 5 | 5 | |
| Munisankar | • | | | |
| Nagugari | 3/5 | 5 | 5 | No |
| CH MYDHILI | 5/5 | 5 | 5 | |
| Dr.S.K.Mydhili | 4/5 | 5 | 5 | Nice session |
| Nilesh Kulkarni | 3/5 | 5 | 5 | |
| Mrs Nusrat Ansari | 5/5 | 5 | 5 | |
| Dr. Pillutla | | | | |
| Harikrishna | 5/5 | 5 | 5 | |
| Pravin Ghate | 3/5 | 5 | 5 | |
| PRATIK S. PATEL | 3/5 | 5 | 5 | nil |
| RAJIB DUTTA | 4/5 | 5 | 5 | |
| Ratan Rajan | | | | |
| Srivastava | 4/5 | 5 | 5 | |
| Dr Sohel | 3/5 | 5 | 5 | |
| Dr Sachin Agrawal | 2/5 | 5 | 5 | |
| Mrs.SARIKA ATUL | | | | Informative |
| PATIL | 5/5 | 5 | 5 | session |
| SANDEEP | | | | |
| CHUDARAMJI | | | | |
| MUNGHATE | 5 / 5 | 5 | 5 | |
| | | | | Very good |
| Shanta Sondur | 5/5 | 5 | 5 | session |
| SIVASAKTHI S | 4 / 5 | 5 | 5 | Nice Session |
| JAYAKODI.S | 5/5 | 5 | 5 | nothing |
| Mrs Sneha Pankaj | | | | |
| Ingale | 4 / 5 | 4 | 4 | |
| Snehal Lopes | 4/5 | 5 | 5 | - |
| Sowmya S | 4/5 | 4 | 4 | |
| | | | | Informative |
| SREEDEVI CH | 4/5 | 4 | 4 | Session |
| Rubina Shaikh | 5/5 | 4 | 4 | |
| SUJIT BISWAS | 3/5 | 4 | 4 | |
| Tarannum Shaikh | 4/5 | 5 | 5 | |
| S. THIRUMALAI | 4/5 | 5 | 5 | Good |
| MR. VAIBHAV VIKAS | | | | |
| MAINKAR | 4/5 | 5 | 5 | |
| Vaibhav Prakash | 3/5 | 4 | 4 | |
| VISHNU KAMBLE | 2/5 | 5 | 5 | |
| | _ | | | |
| Sanjoy Mitra | 4/5 | 5 | 4 | Very Informative |

ANNEXURE-VI Grid Photographs







Annexure – VII Sample Copy of Certificate



ANNEXURE-VIII

STTP Brochure

Twekanand Education Society's Institute of Technology Chembur, Mumbai

AICTE SPONSORED ONLINE STTP







Telecommunication streams and Master of Computer Application, VESIT is a recognised Ph.D. Centre for Engineering and Technology of University of Mumbai, and also a Lifelong

Information Technology and Electronics

Engineering in Instrumentation and Control

VESIT offers

addition,

Electronics & Telecommunication On Association with VESIT 1QAC & IIC) Department of

One Week AICTE Spansored

internet of things (IoT) applications forecast to

About Green Internet of Things

earning Centre.

have 50 billion connected devices by the end of

2020. IoT promises to connect all industrial

providers. IoT is impacting every aspect of our

mes from wearable devices such as fitness oands and smart watches to personal health care monitous. IoT devices are making us connected. Homes and white goods appliances are also mereasingly becoming lot edge node

consumer appliances to cloud service

pay

Online STTP

Green Internet of Things (10th to 15th August, 2020)

Hashu Advani Memorial Complex, V. E. S. Institute of Technology. R. C. Marg, Collector's Colony, Chembur, Mumbai - 400 074.

Phone: 022 - 61 552 532/500 Email: vesit@ves.ac.m. Fax: 022 - 61 532 555

Education Society's

Vivekanand

negitute of Technology for enhancing skills of

faculties and scholars of engineering colleges in the domain of loT and its initiatives towards

Vivekanand Education Society's Institute of

About VESIT

Technology (VESIT) established in 1984, is one of the premier engineering colleges affiliated

with the University of Mumbai. VESIT offers

Sachelors programs in engineering under the

relecommunication, Information Technology

following streams Electronics, Computer and Instrumentation.

will further explore research avenues in the various industrial and societal applications using the Internet of Things. The eminent speakers and practitioners from academia and interesting and innovative ideas. The program on development industries will conduct the sessions domain of IoT and Oreen IoT through effective discussion during the training. 2 participants This program focuses green technology. the motivate

Course Objective

mittatives, providing exposure to technologies The objective of this STIP is sequeinting academicians and industry personnel with the recent trends and green supporting Green IoT, hardware and software predictive analytics using IoT, security in IoT and loT technology, development



energy consumption is carefully monitored by smart gateways at home and appliances can be

remotely controlled

This Short Term Training Program (STTP) on Green Internet of Things is being organized by Department of Electronies and Telecommunication

candidates. The Smart Home concept where

Lesourse Person-

The speakers would be emment personalities from academia and industries.

Registration Fee:

STTP Course is Pres

Who can attend?

- Faculty from AICTE approved Engineering Institutes (Degree/Diploma) & MCA institutes
 - Industry Representative

Registration Form Linkhttps://forms.gle/MyRk2NPos5BN26ct6

Telegram Channel Link:

https://cme/pinchat/ShIH3xth/SD/rrGrCrKdgtw

For enquiries contact

Dr. Nadir Charniya Mob. +919764996706 Email: nadir charniya@ves.ac.in

Dr. Saylee Gharge Mob: +916821867450 Email: aaylee gharga@ves.ac.in



rone

Shri B. L. Boolsni, President, VES Trust Dr. (Mrs.) J. M. Nair, Principal, VESIT Dr. Ofre.) M. Vijsyslakshni, Vice Principal, VESIT

Mrs. Shoba Krishaan, Head EXTC Dr. Ramesh Kulkarni, Deputy Head, EXTC

Program Evaluation Committee for the

Dr. (Mrs.) J. M. Nain, Principal (Chairperson)
Dr. Nadir Charanya, STTP Coordinator
(Member Secretary)
Mrs. Shoka Krishnan, Head EXTC (Member)
Mrs. Kavita Tawari, Hand ETRX (Member)
Dr. Ramech Kulkarni, Deputy Head EXTC (Member)

Course Coordinator

Dr. Nadir Charniya, Professor, EXTC Mob: +919764996706 Email: nadir charniya@ves.ac.in

Course Co-coordinator

Dr. Baylee Gharge, Associate Professor, EXTC Mob: +919821867450 Email: saylee,gharge@ves.ac.in

Organizing Committee

Mr. A. Naganada, Associate Professor, EXTC
Mr. Shobhit Khandare, Assistant Professor, EXTC
Mrs. Pallavi Ganguade, Assistant Professor, EXTC
Mrs. Nusrat Ansari, Assistant Professor, EXTC
Mr. Sanjay Mirchandani, Assistant Professor, EXTC
Mr. Chintan Jethua, Assistant Professor, EXTC
Mrs. Atti Sawant, Assistant Professor, EXTC
Mr. Gauray Tawde, Assistant Professor, EXTC
Mr. Ajinkya Valenjoo| Assistant Professor, EXTC

Instructions to Participants

The person willing to join this program need to have the following basic requirements:

- Laptop/Desktop with good internet connection and Grazil account.
 Telegram App should be installed on
- mobile. Google App, Google Meet, Zoom App, MS Teams should be installed on a Laptop/Decktop.

 Tevery participant must register by filling up the online form and join telegram channel thereafter.
- thing up the online form and join telegram channel thereafter.

 All communications will be on Telegram channel.
 - Fill the Google registration form carefully and check your name, university/ institution/ college name and e-mail ID before submission.
- And a man in perore submission.

 No correction in the certificate will be done due to incorrect information provided in the registration form.
- Last Date to fill the registration form is 05th August, 2020.
 Confirmation of registration will be communicated to the registered e-mail
- ID by 08th Angust, 2020.

 Participants need to attend daily
 - online sessions at the scheduled time.

 It is mandatory to fill up the feadback
- forms.

 Online Test, based on all the topics discussed during the program will be conducted. Minimum 40% score is necessary for certification.
 - AICTE certificates will be provided on participants' e-mail ID.

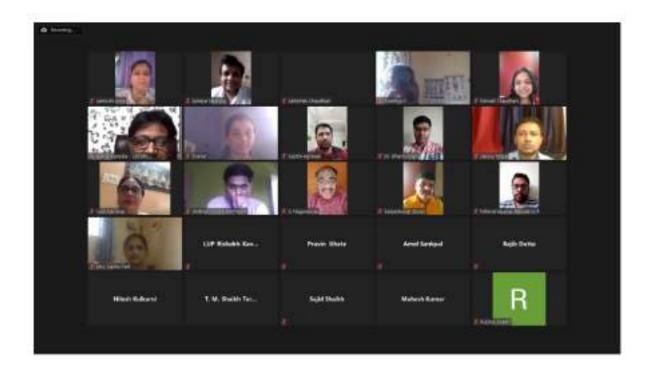
Course material provided by the experts and recording of sessions enclosed herewith in CD/DVD.

STTP on Green IoT--Phase I Photographs

Grid Photographs







Vivekanand Education Society's Institute of Technology, Chembur, Mumbai 400074







Department of Electronics and Telecommunication Organizing

One Week AICTE Sponsored Online STTP on

GREEN INTERNET OF THINGS

(November 23rd to November 28th 2020)

Coordinated by

- Department of Computer Engineering
- Department of Information Technology
- Department of Master of Computer Applications

(In Association with VESIT IQAC & IIC)

V. E. S. Institute of Technology, Hashu Advani Memorial Complex, R. C. Marg, Collector's Colony, Chembur, Mumbai – 400 074, (Maharashtra)

Phone- (022)61 532 532 Fax- (022) 61 532 555

E-mail: vesit@ves.ac.in
http://www.vesit.ves.ac.in

About VESIT

Vivekanand Education Society's Institute of Technology (VESIT) established in 1984 is one of the premier engineering colleges affiliated with the University of Mumbai. VESIT offers Bachelors programs in engineering under the following streams: Electronics, Computer Engineering, Electronics & Telecommunication, Information Technology and Instrumentation. VESIT has introduced a new bachelor's degree program in AI and Data Science from the year 2020. In addition to this, VESIT offers Master of Engineering in Instrumentation and Control, Information Technology and Electronics & Telecommunication streams, and Master of Computer Applications. VESIT is a recognised PhD centre for Engineering and Technology of University of Mumbai, and also a Lifelong Learning Centre.

About Green Internet of Things

Internet of things (IoT) applications forecast to have 50 billion connected devices by the end of 2020. IoT promises to connect all industrial and consumer appliances to cloud service providers. IoT is impacting every aspect of our lives from wearable devices such as fitness bands and smart watches to personal health care monitors. IoT devices are making us connected. Homes and white goods appliances are also increasingly becoming IoT edge node candidates. The Smart Home concept where energy consumption is carefully monitored by smart gateways at home and appliances can be remotely controlled. This Short Term Training Program (STTP) on Green Internet of Things is being organized by Department of Electronics and

Telecommunication Engineering, Vivekanand Education Society's Institute of Technology for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology. This program focuses on development of various industrial and societal applications using the Internet of Things. The eminent speakers and practitioners from academia and industries will conduct the sessions to motivate the participants to undertake interesting and innovative ideas. The program will further explore research avenues in the domain of IoT and Green IoT through the effective discussion during the training. The objective of this STTP is acquainting academicians and industry personnel with the IoT technology, recent trends and green initiatives, providing exposure to technologies supporting Green IoT, hardware and software development tools and demonstrations, predictive analytics using IoT, security in IoT.



STTP on Green IoT Phase-2 Brochure 81

Resource Persons:

Resource persons will be eminent personalities From academia and industries.

Registration Fee:

The course is *FREE*

Who can attend?

- Faculty from AICTE approved Engineering Institutes (Degree/ Diploma) & MCA institutes
- Industry Representative

Registration Link: https://forms.gle/9on8tjs7jbXHqK1QA
Telegram Channel Link: https://t.me/sttp_green_IOT

For enquiries contact:

E-Mail: giot.phaseii@ves.ac.in

Patrons:

Shri B. L. Boolani, President,

Vivekanand Education Society.

Dr. (Mrs.) J. M. Nair,

Principal, VESIT

Dr. (Mrs.) M. Vijayalakshmi,

Vice Principal, VESIT

Mrs. Shoba Krishnan,

Head of Department, EXTC

Dr.(Mrs.) Nupur Giri

Head of Department, Computer Engineering.

Dr. (Mrs.) Shalu Chopra

Head of Department, Information Technology

Dr. Shiv Kumar Goyal Head of Department

Master of Computer Applications.

Program Evaluation Committee

Dr. (Mrs.) J. M. Nair, Principal (Chairperson)

Dr. (Mrs) M. Vijayalakshmi, Vice Principal (Member)

Dr. Nadir Charniya, Prof. EXTC,

STTP Coordinator (Member Secretary)

Mrs. Shoba Krishnan, Head EXTC (Member)

Dr. P. P. Vaidya, Dean, R and D (Member)

Mrs. Kavita Tewari, Head ETRX (Member)

Dr. Ramesh Kulkarni, Deputy Head EXTC (Member)

STTP Coordinator

Dr. Nadir Charniya, Professor, EXTC

Mob: +919764996706

Email: nadir.charniya@ves.ac.in

Advisory Committee

Col. B. Venkat.

Director (FDC), AICTE, New Delhi

Prof. D. N. Malkhede.

Adviser, RIFD, AICTE, New Delhi

Organising Committee

Mrs Abha Tewari, Computer Engg Mrs. Vinita Mishra Info. Technology Ms. Sukanya Roychowdhury, Info Tech. Mrs Meenakshi Garg, Dept of MCA Mr Sunny Nahar, Dept of MCA Mrs Vaishali Gatty, Dept of MCA Mr. Prashant Kanade, Computer Engg

Instructions to Participants:

The faculty members who are willing to join this program need to have the following basic requirements:

- 1. Laptop/Desktop with good internet connection and Gmail account.
- 2. Every participant must register by filling up the online form and join telegram channel thereafter.
- 3. All communications will be on Telegram channel.
- 4. Fill the Google registration form carefully and check your name, university/institution/ college name and e-mail ID before submission.
- 5. Last Date to fill the registration form is 19th November, 2020.
- 6. Confirmation of registration will be communicated to the registered e-mail ID by 20th November 2020.
- 7. Participants need to attend daily online sessions at the scheduled time.
- 8. It is mandatory to fill up the feedback forms.
- 9. Online Test, based on all the topics discussed during the program will be conducted. Minimum 40% score is necessary for certification.
- 10. AICTE certificates will be provided on participants' e-mail ID.



STTP on Green IoT Phase-2 Brochure 82







Proceedings of

One Week AICTE Sponsored Online STTP

On

GREEN INTERNET OF THINGS

(PHASE-II)

From 23rd Nov to 28th Nov, 2020

Organized by:

Department of Electronics & Telecommunication

In Collaboration with

Department of Computer Engineering

Department of Information Technology

Department of Master of Computer Applications

In Association with IQAC and IIC

Vivekanand Education Society's Institute of Technology
Hashu Advani Memorial Complex, Collectors Colony
Chembur (East), Mumbai – 400 074

INDEX

| Foreword | 1 |
|--|------------|
| Preface | 2 |
| Program Committees | 4 |
| Green IoT: Course Objectives and Outcomes | 6 |
| Speakers and their Profile | 7 |
| Inauguration | 16 |
| Session-wise Summary | 17 |
| Valedictory | 24 |
| ANNEXURE-I: List of Qualified Participants | 25 |
| ANNEXURE-II: List of Experts, Affiliation, and Topics | 29 |
| ANNEXURE-III: STTP Schedule | 31 |
| ANNEXURE-IV: Final feedback with Score of Online Test and Test Questions | 35 |
| ANNEXURE-V: Session-wise Attendance and Feedback | |
| ANNEXURE-VI: Grid Photographs | 101 |
| ANNEXURE-VII: Copy of Sample Certificate | |
| ANNEXURE-VIII: STTP Brochure | 105 |
| | 7 |
| | |
| | |
| | |
| | 7 |
| | |
| ~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | |

FOREWORD



I am very much delighted to know that our departments of Computers, Information Technology and Master of Computer Applications in association with Electronics and Telecommunications Department are arranging an AICTE sponsored Faculty Development Program on "Green Internet of Things". As all of you know, IOT has the potential to revolutionize the world, similar to what internet did earlier. It can be considered as a facilitator of 'smart world' which connects devices with unique addresses to interact with each other and with outside world. i.e. It enables physical objects to see, hear, think and perform jobs by having them talk to each other, to share information and co-ordinate decisions. The applications are of mainly three kinds, IOT for Consumers, IOT for Enterprises and IOT for process industries (IIOT). Alexa, Wearable device used by miners, and Smart grid falls under these categories respectively. Green IOT targets 'sustainable smart world' by reducing energy consumption of the IOT devices and processes. It envisages the practice of designing, manufacturing, using, and disposing of computers, servers, and associated sub systems, and networking and communications systems efficiently and effectively with minimal or no impact on the environment.

I am very happy to note that the technical experts from companies, such as, Siemens, Meta Cube, Tetcos and researchers from academia are sharing their expertise in this workshop. Hope that the participants of this workshop will make full use of this golden opportunity, and initiate IOT related projects in their respective educational institutions leading to tangible research in this interdisciplinary, emerging area.

Dr. (Mrs) J. M. Nair

PRINCIPAL, VESIT

PREFACE



The second phase of the AICTE sponsored online training program on *Green Internet of Things* has been organized by Department of Electronics and Telecommunication Engineering, in collaboration with departments of Computer Engineering, Information Technology, and Master Of Computer Applications, in association with IQAC and IIC, Vivekanand Education Society's Institute of Technology for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology.

The buzzwords Internet of Things (IoT) is a system of interconnected devices or sensors over internet that is growing exponentially due to demand of smart consumer appliances, wearable devices, smart home, industrial devices, cloud services and many. This has opened up new challenges and research majorly in managing the energy resources for IoT, and energy efficiency by various means.

'Green IoT' is the initiative and concept motivated by achieving a low power consumption IoT. Green IoT is possible by using Ultra low power consumption hardware, Software algorithms and protocols to minimize power consumption, Using unconventional energy resources, Smart grids, Designing IoT itself for minimizing power consumption and many.

The STTP would provide various concepts, theory, and practical demonstrations on IoT, and Green initiatives to IoT.

The eminent speakers and practitioners from academia and industries are conducting the sessions and demonstrations to motivate the participants to undertake interesting and innovative ideas. The program helps to explore research avenues in the domain of IoT and Green IoT through the effective discussion during the training.

Short Term Training Program on 'Green Internet of Things'

We express profound sense of gratitude towards AICTE for Sponsoring Training Program on

Green Internet of Things and also giving the opportunity to conduct it online due to COVID

crisis.

We are grateful to AICTE, New Delhi and dignitaries from AICTE for the funding the STTP and

guidance received. Special thanks to the experts invited for the sessions, Dr. J. M. Nair

Principal, VESIT, Dr. M. Vijayalakshmi, Vice Principal VESIT, Prof. Shoba Krishnan Head Elect

and Telecom Dept, Dr. Nupur Giri, Head, Computer Engineering Dept, Dr. Shalu Chopda, Head,

Information Technology Dept, Dr. Shivkumar Goyal, Program Evaluation Committee members,

the STTP team and participants from all over the country.

I am confident that the knowledge gained herein and the practical experiences learnt will be

invaluable in the life long leaning.

Dr Nadir Charniya

Course Coordinator

Prof. Electronics and Telecom, VESIT

3

PROGRAM COMMITTEE

Patrons:

Shri B. L. Boolani, President, VES Trust

Dr. (Mrs.) J. M. Nair, Principal, VESIT

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT

Prof. Shoba Krishnan, Head, Electronics and Telecom Dept

Dr. Nupur Giri, Head, Computer Engineering Dept

Dr. Shalu Chopra, Head, Information Technology Dept

Dr. Shivkumar Goel, Head, Master of Computer Application Dept

Program Evaluation Committee for the STTP:

Dr. (Mrs.) J. M. Nair, Principal (Chairperson)

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT (Member)

Dr. Nadir Charniya, STTP Coordinator (Member Secretary)

Prof. Shoba Krishnan, Head Electronics and Telecom Dept (Member)

Dr. P. P. Vaidya, Dean R & D and Head, Instrumentation Engineering Dept (Member)

Prof. Kavita Tewari, Head, Electronics Dept (Member)

Dr. Ramesh Kulkarni, Deputy Head Electronics and Telecom Dept (Member)

Course Coordinator:

Dr. Nadir Charniya, Professor, Electronics and Telecom Dept

Advisory Committee

Prof. D. N. Malkhede. Adviser, RIFD, AICTE, New Delhi

Col. B. Venkat. Director (FDC), AICTE, New Delhi

Organizing Committee:

Mrs Abha Tewari, Computer Engineering Dept

Mrs. Vinita Mishra, Information. Technology Dept

Ms. Sukanya Roychowdhury, Information. Technology Dept

Mrs Meenakshi Garg, Dept of Master of Computer Applications

Mr Sunny Nahar, Dept of Master of Computer Applications

Mrs Vaishali Gatty, Dept of Master of Computer Applications

Mr. Prashant Kanade, Computer Engineering Dept

GREEN IOT

Course Objectives:

- 1. Acquainting participants with the technology of Internet of things (IoT) and exposure to recent trends in IoT.
- 2. Introducing and exploring the technologies supporting Green IoT
- 3. Exposure to security and privacy in IoT and Green initiative.
- 4. Demonstrating Hardware and Software platforms and tools for IoT.
- 5. Providing exposure and demonstration on IoT applications and Artificial Intelligence (AI) based predictive analytics using IoT.

Course Outcomes:

On completion of the course participants will be expected to:

- Have good understanding of IoT Technology, emerging trends in IoT and various concept and features of Green IoT technology.
- 2. Comprehend and apply different hardware and software tools used for implementation of IoT.
- 3. Have good understanding of cloud platform for IoT, security and privacy in IoT, and Green initiatives towards IoT.
- 4. Apply predictive data analytics with the fusion of AI and IoT using Cloud and programming in python.
- 5. Develop IoT applications with the aid of IoT tools and AI tools.

SPEAKERS AND THEIR PROFILE

Mr. Vipin Jain (Sr. Delivery Manager, Metacube Softwares, Jaipur, India)



Mr Vipin Jain, Sr. Delivery Manager for Metacube Softwares, Jaipur India, has proven experience in refining processes for smoother deliveries across the globe. Internet of Things is his major area of interest. He loves to provide the solutions to the challenges associated in real life problems and has published 4 papers research papers. He has presented 4 papers in Spain, Vienna Austria and Prague Czech Republic on various IoT related topics. He is engaged in delivering talks on IoT since Year 2012 and has delivered a talks across Europe. He participated in key conferences namely Testing United 2020 and 2019, QA & Test, Bilbao Spain in 2020, 2018, 2016 and 2012, ExpoQA Madrid 2015, TestingCup Poland 2017, Belgrade Testing Conference 2018, Poznan Meetups like PTaQ and WrotQA in 2017 and 2018.

Dr. Anubha Jain (Associate Professor and Head, Department of Computer Science & IT, IIS (deemed to be University), Jaipur, India)



Dr. Anubha Jain, is serving as an Associate Professor and Head, Department of Computer Science & IT, IIS (deemed to be University), located in Jaipur, India. As an academician for the last 20 years, she has actively contributed in teaching, industry and R&D. Knowing that

teaching is the best form of giving knowledge back to society, she has been involved in teaching and mentoring several students in the field of Computer Science.

She was awarded her PhD in the field of 'Information Retrieval and Information Architecture'. Her research interests include Soft Computing, Computational Studies, and Software Engineering. She is the author of nine books, and has published a number of papers at national as well as international level. She is a reviewer for many journals and leading book houses. Also, she is associated with different academic bodies in diverse capacities including being the Convener of the Board of Studies, Member of Academic Council, Curriculum Committees, etc. She was invited as a speaker to present her paper on "Internet of Things – Testing the Experience" in QA & Test, Bilbao, Spain in 2015, and "Searching Lost QA in DevOps World" in QA & Test, Bilbao, Spain in 2018.





Dr. Anjali Yeole is currently serving as an Assistant Professor, in Vivekanand Education Society's Institute of Technology, Mumbai University, Mumbai, India. She has been awarded Ph.D in Technology from University of Mumbai, Mumbai in 2019. She has published various research papers in international journals and international conferences including IEEE, ACM, Springer and peer reviewed journals. She co-authored two books on "Information Management" and "Internet of Everything". She has reviewed many papers for conferences and journals. She has reviewed two books "Computer Organization and Architecture" and "Internet of Things" by Shriram K. Vasudevan, Abhishek S. Nagarajan, and R. M. D. Sundaram". She is a Staredu certified IoT trainer. She has completed Microsoft Certification for "Cryptography and System Security". Her areas of interest are IoT, Distributed Computing, Cloud Computing, System Security and Web Technology. She has also delivered talks and

conducted workshops, seminars on her areas of interest. She has patented innovative idea for her research work.





Dr. Sachin D. Patil is serving as Assistant Professor, Department of Computer Engineering, College of Engineering Pune. He has received his Bachelor's degree in Information Technology from Government College of Engineering, Karad, and the Master's Degree in Computer Science and Engineering from VJTI, Mumbai. He is Ph.D from the Department of Computer Science and Engineering at National Institute of Technology Karnataka (NITK), Surathkal, India. His problem statement for PhD was "Mitigating the Bufferbloat problem to reduce the Internet transport latency". His areas of interest include Active Queue Management and Network Performance Analysis, and IoT.

He has total teaching experience of 4 years from the institutes WCE, Sangli, ADCET, Ashta, and COEP, Pune. He is a reviewer for IEEE Communication Letters, IET Electronics Letters and, several IEEE conferences. He has given several talks on ns-2, ns-3, IoT, and setting up a real-time testbed. Dr. Sachin is also a contributor to the Linux kernel and his codes are merged into the Linux kernel version 5.1 and 5.6. His research works are published in several renowned journals and conferences like Computer Communications journal of Elsevier, IET Networks, and IEEE conferences on LCN and ANTS.

Mr. Suraj Khandare (Asst. Professor, Fr. C. Rodrigues Institute of Technology, Navi Mumbai



Mr Suraj Khandare is serving as Assistant Professor in Fr. C.Rodrigues Institute of Technology, Vashi for last 10 years. He holds M. Tech in Computer Engineering from VJTI Mumbai. He has taught subjects like Structured Programming Approach, Automata Theory, and Microcontrollers & Embedded systems. He has mentored many projects in the field of IoT. He is a volunteer with art of living and has been practising meditation from last 6 years.

Mr. Bhupendra Bhate (Retd. Chief Innovation Officer, L&T Technology Services Ltd, Mumbai)



Mr. Bhupendra Bhate is a business leader with a very good blend of business acumen and indepth understanding of cutting-edge technologies. He has over 35+ years of international exposure and experience in Engineering, Product Development and software space within Industrial Products, Medical, Aerospace, Automotive, and Consumer Electronics etc. He has expertise in formulating strategies and translating it into actionable goals for top line and bottom line growth.

His last job at L&T Technology Services Ltd (LTTS) was Chief Innovation Officer. In this role, he was keenly involved in harnessing new technologies and commercially exploiting the same to provide innovative and intellectual property-based solutions to its customers and thereby creating values for his organization.

Prior to this, Mr. Bhupendra was Chief Operating Officer and Whole Time Board Member of L&T Technology Services. In this role, Mr. Bhupendra managed various business units with P&L responsibilities, providing strategic guidance, facilitating aggressive growth, ensuring operational excellence & high-quality deliverables, and incubating new businesses.

Other positions held by Mr. Bhupendra includes Chief Digital Officer, Chief Delivery Officer and Chief of Operations. Starting his career with Godrej & Boyce, Mr. Bhupendra worked as General Manager with Atos Origin and moved on to Head a Startup company - SoftDEL Systems Ltd. as President & COO. From December 2003, he has been with L&T.

Mr. Prashant Kanade (Asst. Professor, V.E.S Institute of Technology, Mumbai)



Mr. Prashant Kanade is serving as Asst. Professor, V.E.S Institute of Technology, Chembur, Mumbai (VESIT) for last 17 years. He is M.E. Computer Engineering, from University of Mumbai, MBA HRD, YCMOU, Nasik, B Tech Computer Engineering, Dr BATU, Lonere, and also hols diploma in Cyber Laws. He is involved in various student and staff activities at VESIT. He has participated actively in various Cultural activities in VESIT. He is influenced by various projects that have Technology for Societal Transformation. He has worked as an instructor for the VESIT Robotics Team. Mr. Prashant has published more than 20 Papers in Various National and International Conferences and Journals. His areas of interest are Human Machine Interface, Artificial Intelligence, Robotics and Web Engineering, and ICT in

Governance. Currently, he is pursuing Ph.D. in Computer Engineering, in the domain of Electronic Health Records.





Dr. Vishnu, is serving at Vellore Institute of Technology (VIT), Vellore campus as a Senior Assistant Professor in the School of Computer Science and Engineering since July, 2019. Prior to that, he worked at various reputed institutions like National Institute of Technology Karnataka (NITK), Surathkal, GITAM University, Anil Neerukonda Institute of Technology and Sciences, Gudlavalleru Engineering College. He has five years research experience in the institute of NITK. He finished his Ph.D. from NITK Surathkal under the guidance of Dr. Shashidhar G. Koolagudi, Associate Professor, NITK Surathkal.

He has published many papers during his professional career, and all are indexed by Scopus. Around 10 journals and 20 conference articles have been published since 2011 out of which, he has one ACM computing surveys article with an impact factor of 16 in Research gate and SCI indexed. ACM computing surveys is ranked A* among all the computer science journals based on Wikipedia surveys. In addition, he has one article in Elsevier Expert Systems with an impact factor of 4.59 (SCI indexed), and three springer journals with an average impact factor of 1.19. All the 20 conferences are Scopus indexed and some are 28th, 36th, 29th, 25th in series and IEEE flagship conferences.

He recently finished one project with Samsung in the field of voice translation and one is in progress. He has given around 15 guest lectures on Internet of Things, Speech Processing and its Applications, Machine Learning, Deep Learning, and Dimensionality Reduction Techniques. He received best teacher award for his excellence in teaching and chosen this profession with passion and working dedicatedly towards it.

Mr. Vishal Bhat (Application Engineer, TETCOS LLP, Bengaluru)



Mr. Vishal Bhat is presently working as an Application Engineer at TETCOS LLP, Bangalore and has more than four years of experience in the field of computer networks. He completed his B. Tech. in Computer Science at NMAMIT, NITTE Karnataka. At NMAMIT, he was amongst the top performers in his class and he won the prestigious best project award for his networking project. His area of expertise is Mobile Ad-hoc Networks, LTE Networks and the Internet of Things. He has worked on several modelling, simulation and programming projects in these domains using NetSim software.

Mr. Nithin Ravi (Application Engineer, TETCOS LLP, Bengaluru)



Mr. Nithin Ravi is an Application Engineer with around three years of experience in computer networks and wireless communication. He worked on protocol testing, network modelling, and performance analysis. He possess knowledge and experience in providing technical support to

customers in solving issues on and off the field. Also, he conducted more than 20 training programs for several universities in these domains across India and SE Asia.

Dr. Ajay Kumar Godara (Professor, NITTR Chandigarh, Member of NITI Aayog)



Dr. Ajay Kumar Godara is Professor at National Institute of Technical Teachers Training and Research (NITTR), Chandigarh. He is founder and director of Enovate Skill (a NITTTR Chandigarh Startup Initiative). He is Innovator & Mentor of Change, NITI Ayog, Govt of India.

He has expertise in Area of Robotics, Internet of Things and AI. He has developed many innovative products & has patents in the renewable energy domain. He has delivered more than 100 expert talks in national and international Faculty Development Programmes. He has trained more than 20 thousand students. He has a lot of content live on the internet to motivate young innovators.

Mr. Sushil Bedre (Senior Architect and consultant, Siemens Softwares, Pvt. Ltd)



Mr. Sushil has completed his Masters in Computer Applications from Aurangabad in 2004 and has 16 Years of professional experience in software with multinationals in various domains like Shipping/Media/PLM/Industry Automation etc.Presently working as Senior Architect and

consultant with Siemens Industry Softwares Ind. Pvt. Ltd. And working in the domain of Industry Automation, ML/AI/Imaging/PLM technologies. He is pursuing his research in cognitive science with Dr. BAMU Aurangabad in Cognetive Science. He has 3 publications in national and international conferences and 5 Patents with Indian Patents.

Dr. Abhay Kshirsagar (Associate Professor, V.E.S. Institute of Technology, Mumbai)



Dr. Abhay Kshirsagar is serving as Associate Professor in Dept. of Electronics Engineering, V. E. S. Institute of Technology (VESIT), Chembur, Mumbai. He has more than 21 years of teaching and industry experience. He completed B.E Electronics, Nagpur University in 1996, M.E Electrical (Microprocessor System Design), M. S. University, Baroda. He is Ph.D in Electronics Engineering, Nagpur University. He has executed many projects in V.E.S Institute of Technology and is actively involved in Student and Faculty engagement programs. He was Chief Instructor of VESIT Robotics Team that represented India at Asia Pacific Level in seoul South korea in the year 2004. He was also a major adviser for Elecrama student project competitions in 2004, 2006, 2008. His interests are WSN, IOT, Embedded Systems, Robotics and recent trends in Electronics. Last but not the least he is an active sports person and he is an excellent cricket player.

INAUGURATION

The inauguration of Short-Term Training Program (STTP) on 'Green IoT' was scheduled on 23rd November 2020. Ms. Sukanya Roychawdhury Asst. Prof. Information Technology Dept. was the MOC of the function. The function has started in presence of dignitaries and participants with lighting the digital lamp in front of Maa Saraswathi.

Guest and dignitaries list for the inauguration function included keynote speaker Mr. Vipin Jain, Sr. Delivery Manager, Metacube Software, Jaipur, Rajasthan, Dr. (Mrs.) J. M. Nair, Principal (VESIT), Dr. (Mrs.) M. Vijayalakshmi, Vice Principal (VESIT), Prof. Shoba Krishnan (Head, Electronics and Telecom Dept., VESIT), Dr. Nupur Giri (Head, Computer Engineering Dept), Dr. Shalu Chopra (Head, Information Technology Dept), Dr. Shivkumar Goel (Head, Master of Computer Applications Dept), PEC members, and the participant.

Dr. Nadir Charniya, Course Coordinator gave the course overview. He mentioned that the STTP was organized by Department of Electronics and Telecommunication Engineering, in collaboration with departments of Computer Engineering, Information Technology, and Master of Computer Applications for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology. The IQAC and IIC, VESIT was also associated with the STTP. Dr. Charniya expressed his gratitude towards AICTE for sponsoring the STTP and allowing to conduct it online due to COVID crisis. He greeted and thanked the dignitaries and participants for their gracious presence. He mentioned that about 85 PAN India participants from Tamilnadu, Andhra Pradesh, Telangana, Karnataka, Gujarat, Goa, UP, MP, Tripura etc. were shortlisted from over 150 registered participants.

Dr. (Mrs) M. Vijayalakshmi, Vice Principal (VESIT), addressed the gathering with her words of guidance mentioning the importance of IoT technology which is the technology of today and is going to remain as technology of tomorrow too. The function reached a successful end with a vote of thanks.

SESSION-WISE SUMMARY (Day 1 to Day 6)

Day-1, 23rd November 2020

Day-1 started with the keynote address by Mr.Vipin Jain, Sr. Delivery Manager for Metacube Softwares, Jaipur India. He gave an insight to the basics of IoT and how Industry and academics go hand in hand. He spoke how mobile technology has emerged from nowhere to everywhere. He spoke on topics namely, Future of IOT, Carbon footprint, Revolution in IOT, Green IOT movement.

Followed by the Keynote address, the next session was conducted by Dr.Anubha Jain. Dr. Anubha Jain, Associate Professor and Head (CS & IT), IIS (deemed to be University), Jaipur delivered her talk on IoT Basics and Green IoT. She started with the revolution the Internet that has brought drastic change in our lives since its development, ranging from dial up connections to mobile net to Internet of Things. Her talk covered the key concepts and terminologies of IoT, and its applications in day-to-day lives. She also threw light on how different industries are getting benefited by IoT, with the help of interesting examples. Then, the challenges and future of IoT due to energy consumption and Carbon emission of connected devices was discussed which have resulted in research domains in Green IoT. The solutions for Green IoT were also discussed. Another prelunch session was conducted by Dr.Sharvari Tamane, Professor and Head of Dept. of Information Technology, Jawaharlal Nehru Engineering College, MGM University, Aurangabad, delivered a webinar on 'IoT and its Applications'. She focused more on Enabling Technologies for IoT, Working on IoT, IoT Application Development, possible Applications of IoT in our everyday lives, Challenges, Barriers and Future of IoT. She explained how IoT is an essential platform where embedded devices are connected to the internet, to collect and exchange data with each other. She stressed on the fact that the IoT provides a platform that creates opportunities for people to connect these devices and support them with the advantages of Big Data technology. This will promote efficiency in performance, economic benefits and minimize the need for human involvement.

Post lunch sessions were conducted by Dr.Sachin Patil and Dr.Anjali Yeole. Dr.Sachin Patil began his talk with IoT fundamentals and standards. He threw light on how IoT systems and

applications are designed to provide security, Integrity, safety, trust, dependability and transparency. He spoke about IETF group, roll, LoWPAN, Header Compression, HLIM, NDP optimization, RFC (6550), RPL identifiers. He concluded his talk with MQTT. Dr. Anjali Yeole elaborated the security aspect of IoT in the first half of the talk. She discussed how IoT security has become the subject of scrutiny after a number of high-profile incidents where a common IoT device was used to penetrate and attack the larger network. Implementing security measures is critical to ensuring the safety of networks with IoT devices connected to them. The second half of the talk was on a Cooja simulator to implement and test proposed security protocols, algorithms etc followed by demo.

Day-2, 24th November 2020

Day-2 prelunch sessions were conducted by Dr. Anubha Jain and Prof. Suraj Khandare. Dr. Anubha Jain, Associate Professor and Head (CS & IT), IIS (deemed to be University), Jaipur delivered her talk on 'Testing of IoT across different industries'. She took a used case example to throw light on how the IoT model has created a dynamic user experience. She emphasized on the significance of thorough testing of Iot devices, covering the complexities involved due to real time traking and the amount of data being generated. Further, she covered the common strategies involved in testing IoT devices, different ways in which testing should be done at various layers of IoT.

Prof.Suraj Khandare discussed that for solving real world problems there are many methodologies and many programming languages available. One such language which is not very popular is Lustre Programming. This language is used in safety critical applications like aeroplanes, nuclear reactors and many more. If safety is not taken into consideration it can cause disasters like Chernobyl. The concepts of Lustre Programming language were discussed.

Post lunch session was handled by Mr. Bhupendra Bhate and Mr. Prashant Kanade.

Mr. Bhupendra Bhate founding member and CEO of Saintiant Technologies – a company in the space of cutting-edge technology products in the area of medical, industrial and consumer appliaces. Mr. Bhupendra focused on various aspects of IoT innovations in the Medical and Agricultural field. He threw light on how the IoT technology has realized smart wearables, connected devices, automated machines, and driverless cars. However, in agriculture, the IoT

has brought the greatest impact. Recent statistics reveal that the global population is about to reach 9.6 billion by 2050. To feed the massive population, the agriculture industry is bound to adopt the Internet of Things. Amongst the challenges like extreme weather conditions, climatic changes, environmental impact, IoT is eradicating these challenges and helping us to meet the demand for more food. After this an interactive session was conducted by Mr. Prashant Kanade, VESIT. In this session all the participants were involved by having a group discussion on emerging areas where IOT is effectively adopted. The session was really interactive and participants took an active part in discussion.

Day-3, 25th November 2020

The speaker for day-3 was Dr. Vishnu Murthy, Asst. Professor, Vellore Institute of Technology, Vellore. He started his session with the basics of IOT and its applications. He further explained Arduino and it's interfacing with sensors, Bluetooth devide HC-05 for wireless communication and Bluetooth-enabled devices. He spoke about how Arduino helps in sensing the environment by receiving inputs from add-on devices such as sensors, and can control the world around it by adjusting lights, motors, and other actuators. He also threw light on how and when to use the different types of sensors and how to connect them to the Arduino. Since the external world uses continuous or analog signals and the hardware is digital, signal convesions back-and-forth using programming was discussed. He also gave insight to the use of Arduino-specific shields and the shields software libraries to interface with the real world. He also demonstrated ESP8266 WiFi Module Interfacing with Arduino UNO. It includes the following features:

- Processor: L106 32-bit RISC microprocessor
- Memory:
 - o 32 KiB instruction RAM
 - 32 KiB instruction cache RAM
 - o 80 KiB user-data RAM
 - 16 KiB ETS system-data RAM
- External QSPI flash: up to 16 MiB is supported (512 KiB to 4 MiB typically included)

He also took hands-on sessions on programming and interfacing of Ultrasonic Sensors, DTH11 Sensors and Motors etc.

Day-4, 26th November 2020

Day-4 speaker were Mr. Nithin Ravi and Mr. Mr. Vishal Bhat (Application Engineers, Tetcos LLP, Bengaluru). The prelunch session by Mr. Nithin was on Netsim tool which is an application based of IoT and other such protocols. Mr. Nithin Ravi started with IoT and its concepts and how it is concerned with greenhouse, for which most of the devices are moving towards Green IoT and its initiatives. He mentioned that world is now focused on Industry 4.0, Smart Cities and many more. He further introduced NetSim v12.2. The discussion gave insight to one of the modules in NetSim which is basically for IoT. He also discussed its relation with RPL, 6LowPAN Gateway for Low power Wireless Personal Networks, which deals with sensors and their communication with the Internet. Demo was also given on RPL protocol for IoT. Various examples on network technology with simulation those are used for research areas in the recent trends were elaborated. NetSim and and its configuration setup were discussed using in modeling and simulation. Further, a tour was taken on IoT Simulation in with OSI reference model and LowPAN gateway working (IoT-WSN Model, RPL Model). Coding for one of the applications on 'Wireless body Area Network' with Visual Studio, Packet Capture using Wireshark demonstrated.

Post lunch session was conducted by Mr. Vishal Bhat (Application Engineer, Tetcos LLP, Bengaluru). In this session the participants learned about how LEACH can be used in WSN with static clustering. Implementions using NetSim to perform dynamic clustering with matlab extension of 3D graphs were demonstrated.

Different types of attacks like IDS and SINK HOLE were witnessed using NetSim based demos. This topic was totally relevant to GIOT as it relates greatly to energy saving techniques wherever wireless sensors are used in IoT with the aid static and dynamic clustering. Grid view and map view feature were shown during the simulations.

These were really beneficial session for researchers who are beginners and who are also interested in IoT as their research topic. Thus day-4 was more of demonstration and the entire day was conducted by the experts from Tetcos LLP.

Day-5, 27th November 2020

Dr. Ajay Godhara, Professor, NITTR, Chandigarh conducted both prelunch and postlunch session with more practical aspects of IoT, network simulation and smart applications using IoT. IoT programming basics as well as some real-time applications were also covered based on programming of Arduino and Raspberry-Pi. Applying IoT to monitor Covid-19 Patients was also discussed.

His talk initially was more focused on industrial revolutions that happened in the past. He gave insight into how sensors and actuators are integral part of our digital world. Sensors are often used to measure asset temperature, vibration, pressure or fluid levels. Industrial applications of actuators include operating dampers, valves, and couplings; there are many uses for both actuators and sensors in the industrial fields. They both help critical assets work more effectively and efficiently, helping to reduce downtime and improve productivity

He further explained Arduino - is an open-source hardware and software platform with project and user community that designs and manufactures single-board microcontrollers and microcontroller kits for building digital devices. Its hardware products are licensed under a CC-BY-SA license, while software is licensed under the GNU Lesser General Public License (LGPL) or the GNU General Public License (GPL), permitting the manufacture of Arduino boards and software distribution by anyone. Arduino boards are available commercially from the official website or through authorized distributors.

Dr. Ajay Godhara has a YouTube channel where he has several demos on Arduino, Sensors, Raspberry pi, and many other applications which are useful for implementing Green IoT to support Smart Cities and Smart Applications.

With the help of IDE he also explained single board microcontroller and several examples based on it. Here, python is used for programming and many other event driven programming which writes code and makes things easy with respect to programming. For Python he added that it is a wonderful and powerful programming language that's easy to use (easy to read and write) and, with Raspberry Pi, lets you connect your project to the real world.

The demonstration on COVID-19 patients was very well taken by the partivcipants. He used the board and made all the connections and also added sensors to it with respect to concept of social distancing demo. Thus day-5 was more on real life applications and demonstrations of real world problems as well.

Day-6, 28th November 2020

Day-6 began with a session by Mr. Vipin Jain, Sr. Delivery Manager, Metacube Software, Jaipur who has expertise and papers published on Network Security; specifically in device based security.

Security is a major concern as IoT has changed the overview through which all devices communicate. He made a point where we need to secure our devices then only our data can be more secure. This security aspect is everywhere whether it's Data, Device, Protocol, Network or any stuff. Nowadays a smart house makes it more vulnerable as it can pose more risk to our family as well. He mentioned that failure in Iot project is more venerable as compared non-IoT. He gave examples of banking sectors and how data is at risk. As, nowadays more of the features are on smartphones and data is stored on various locations and could be in use, one must be more vigilant and make all aspects more secure. Also, IoT based infrastructure is made available by various companies and they have different ways to handle security, which makes IoT more deadly when it comes to security of data.

The subsecuent session was conducted by Mr. Sushil Bedre, Senior Architect and Consultant, Siemens Industry Software India Pvt. Ltd wherein he discussed live case studies on energy conservation and energy management using IoT. He also discussed water treatment and distribution centre in the state of Maharashtra state. A case study on 'Automated Pumping Station Management System', where he made an entire system with IoT with sensors used for data collected. Insight was also given the decision making further. Different sensors were used, such as, flow, water level, pressure, temperature, Chlorine, pH, Turbidity, etc. After this, Dr. Abhay Kshirsagar, Associate Professor, VESIT gave talk on 'IoT levels and WSN research Application'. He explained Wireless Sensor Network (WSN), which will improve the reliability of wireless links in health monitoring systems, providing reconfigurable features to all

intermediate nodes. Reconfigurable devices permit remote and runtime software reconfiguration, which implies benefits in WSNs deployment and maintainability and, finally, cost reduction

VALEDICTORY

The Phase-2 of STTP on 'Green IoT' was concluded on 28th November 2020 with Valedictory function. The function started in the presence of dignitaries and participants.

Ms. Vaishali Gatty, Asst. Prof. Dept of Master of Computer Applications was MOC for the function. Ms. Vinita Mishra, Technical Coordinator for the STTP from Information Technology Dept. summarized the deliberations, sessions and learnings during the STTP. Gratitude was expressed towards the experts from industry and academia who contributed with their experiences, hands-on and demonstrations during the STTP with the contents aligned with the objectives of the STTP.

The STTP received excellent feedback from the participants during the valedictory function. The participants who have addressed the gathering with the positive feedback for STTP were Mr. Devanand K. Bathe, K.J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai, Dr. Ramesh Solanki from VESIT, Mumbai, Er.Manoj S. Kavedia Thadomal Shahani Engineering College, Bandra, Dr. Gnanajeyaraman Rajaram SBM College of Engineering and Technology, Tamilnadu and Mrs..Sandhya Deshpande from K.J. Somaiya Institute of Technology. Sion. Participants shared their extraordinary learning experience during the STTP.

Dr. Shiv Kumar Goel, Head, Master of Computer Applications Dept., VESIT addressed the participants with the importance of Green IoT. He motivated the participants and expressed his desire from the participants to train their students with this technology and contribute to the green practices.

Valedictory function was signed-off with the Vote of Thanks by Technical Coordinator, Mr. Prashant Kanade, Asst. Prof. Dept. of Computer Engieering, VESIT.

An overall online feedback was taken and final quiz based on the 6-day sessions of the STTP was also conducted. The regular attendance of the participants and passing in the quiz was compulsory to become eligible for AICTE STTP certification.

Immense efforts were made by the technical committee and various teams of the STTP. All the sessions were conducted at the scheduled time seamlessly without any unnecessary delay in the sessions.

ANNEXURE-I

List of Qualified Participants

| S.no | Full Name | Designation | Department | Institute/Industry and place | State |
|------|---------------------------|------------------------|--|---|-------------|
| 1 | Rasika G Patil | Assistant Professor | MCA | B.V. Institute of Tecnnology, Navi Mumbai | Maharashtra |
| 2 | Nazahat Balur | Assistant Professor | Electronic and Tel engineering | Rajiv Gandhi Institute of Technology, Mumbai | Maharashtra |
| 3 | B Karthika | Asst. Professor | Information Technology | PSNA college of Engineering and technology, Dindigul | Tamilnadu |
| 4 | R.Saravanan | Assistant Professor | Electronics and Comm | PSNA College of Engineering and Technology, Dindigul | Tamilnadu |
| 5 | Gnanajeyaraman Rajaram | Professor | Computer Engineering | SBM College of Engineering and Technology, Dindigul | Tamilnadu |
| 6 | Monali V. Rajput | Assistant Professor | MCA | VESIT, Chembur, Mumbai | Maharashtra |
| 7 | Manju Ahuja | Assistant professor | MCA | Vivekanand education society's institute of technology, Mumbai | Maharashtra |
| 8 | Er. Manoj S. Kavedia | Assistant Professor | Electronics and Telecom | Thadomal Shahani Engineering College, Bandra | Maharashtra |
| 9 | Vaishali Gatty | Assistant professor | MCA | Vivekanand education society's institute of technology, Chembur | Maharashtra |
| 10 | E.Thangaselvi | Asso Prof. | Electronics | Hindustan College, Coimbatore | Tamilnadu |
| 11 | Rekha Chouhan | Assistant Professor | Master of Computer Applications | Pratibha Institute of Business Management, Pune | Maharashtra |
| 12 | Suthahar R P | Assistant Professor | Information Technology | Sri Sai Ram Institute of Techmilogy, Chennai | Tamil Nadu |
| 13 | P.Malathy | Assistant Professor | Electrical and Electronics Engineering | PSNA College of Engineering and Technology, Dindigu | Tamil Nadu |
| 14 | Sushma Jaiswal | Assistant Professor | CS and IT | Guru Ghasidas IT, Bilaspur | Chhatisgarh |

| 15 | Tarun Jaiswal | Research Scholar | NIT Research Center | National Institutes of Technology, Raipur | Chhatisgarh |
|----|--------------------------------|------------------------|---|--|-------------------|
| 16 | Rahul Tiwari | Assistant Professor | Electronics and Comm | Medi-Caps University, Indore | Madhya Pradesh |
| 17 | Harshali P. Patil | Assistant Professor | MCA | MITWPU School of Management, Pune | Maharashtra |
| 18 | Sandhya Deshpande | Asst. Professor. | Electronic and Tel engineering | KJSIE Inst of Tech, SION,MUMBAI | Maharashtra |
| 19 | Manish Bhelande | Asst. Professor | Information Technology | Shah and Anchor Engg and Tech, Mumbai | Maharashtra |
| 20 | Nithya Jayakumar | Professor | Information Technology | K.S.Rangasamy College of Technology | Tamilnadu |
| 21 | Meena Talele | Lecturer | Computer | VES Polytechnic, Mumbai | Maharashtra |
| 22 | Madhuri Ghuge | Assistant Professor | Computer Engineering | Bharati vidyapeeth college of engineering, Mumbai | Maharashtra |
| 23 | Sharon Christa I L | Assistant Professor | Computer Science and Engineering | R V Institute of Technology and Management, Bangaluru | Karnataka |
| 24 | Devanand K. Bathe | Assistant Professor | Electronics Engineering | K.J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai | Maharashtra |
| 25 | Torana Kamble | Assistant professor | Computer engineering | Bharati Vidyapeeth college of engineering, Navi Mumbai | Maharashtra |
| 26 | Dr.Ramesh k Solanki | Assistant professor | MCA | Vivekanand education society's institute of technology, Chembur | Maharashtra |
| 27 | Diptee S. Patil | Assistant Professor | Instrumentation Engineering | Ramrao Adik Institute of Technology, Navi Mumbai | Maharashtra |
| 28 | Vijesh Mundokalam | Assistant Professor | Computer Engineering | Gharda Institute of Technology, Ratnagiri | Maharashtra |
| 29 | Bhawana Sahebrao Dakhare | Assistant Professor | Information Technology | Bharati Vidyapeeth College of Engineering Navi Mumbai | Maharashtra |
| 30 | Prabhu R | Assistant Professor | Comp Sci Engg | Hindustan Inst of Tech Coimbatore | Tamilnadu |
| 31 | Raghvendra Singh | Assistant Professor | Computer Engineering | G.M.Vedak Inst of Tech Tala, Raigad | Maharashtra |
| 32 | Sathiyapriya T | Assistant Professor | Electronics and Communication Engineering | Dr.Mahalingam CoET Technology, Coimbatore | Tamilnadu |

| 33 | Vishakha K Gaikwad | Assistant Professor | Electronics and Telecom | Ramrao Adik Institute of Technology, Navi Mumbai | Maharashtra |
|----|--------------------------------|------------------------|--|---|---------------|
| 34 | Sujata Bhairnallykar | Assistant professor | Computer Engineering | Saraswati College of Engineering, Mumbai | Maharashtra |
| 35 | Darshan B D | Assistant Professor | Electronics and Communication Engineering | SJB Inst of Tech, Bengaluru | Karnataka |
| 36 | Priya B Pandharbale | Assistant Professor | Information Technology | Bharati Vidyapeeth College of Engineering, Mumbai | Maharashtra |
| 37 | Shreya Kurne | Assistant Professor | Electronics and Telecom Engineering | Don Bosco Inst Goa | Goa |
| 38 | Kancha Ganesh Dhuri | Assistant Professor | Information Technology | Vidyalankar Inst of Technology, Mumbai | Maharashtra |
| 39 | Harsh N Bhor | Assistant Professor | Information Technology | KJSIE Inst of Tech, SION,MUMBAI | Maharashtra |
| 40 | ASIF RAJA M | Assistant Professor | Computer Science and Engineering | Jansons Institute Of Technology, Coimbatore | Tamilnadu |
| 41 | Geetabala S Lendhare | Asst. Professor | Department of management studies | Smt. Kashibai Navale. C.O Engineering, Pune | Maharashtra |
| 42 | Shilpa M. Satre | Asst. Professor | Information Technology | Bharati Vidyapeeth College of Engineering, Mumbai | Maharashtra |
| 43 | Ameya Parkar | Asst. Professor | MCA | VES institute of technology, Mumbai | Maharashtra |
| 44 | Sanjay kumar Vanjirao Sonar | Asst. Professor | Electronics and Telecommunica tions | Konkan Gyanpeeth college of Engineering ,Karjat | Maharashtra |
| 45 | Mona Deshmukh | Asst. Professor | MCA | Vivekanand education society's institute of technology, Chembur | M. aharashtra |
| 46 | Anita D. Mhatre | Asst. Professor | Information Technology | Datta Meghe College of Engineering, Mumbai | Maharashtra |
| 47 | Sarika Atul Patil | Asst. Professor | Electronics and Telecommunica tion | Dr.D.Y.Patil Institute of Technology, Pimpri, Pune | Maharashtra |
| 48 | Shyamala M | Asst. Professor | Information Technology | Rathinam Technical Campus, Coimbatote | Tamilnadu |
| 49 | Swati Jha | Professor | Electronics and Telecommunica tions Engineering | Bharati Vidyapeeth College of Engineering, Navi Mumbai | Maharashtra |
| 50 | H. M. Gaikwad | Sr. Lecturer | Computer Tech | K. K. Wagh Polytechnic, Nashik | Maharashtra |

| 56 | Srivastava Sivaraj M | Professor Assistant Professor | Application Electronics and Comm Engg | Professional Colleges Manakula Vinayagar Institute of Technology | Puducherry |
|----|-----------------------------|--------------------------------|--|---|---------------|
| | Ratan Rajan | Assistant | Computer | Shri Ramswaroop Memorial Group of | Uttar Pradesh |
| 55 | Megha Wankhade | Asst.Professor | MCA | NCRD'S Sterling Institute of Management studie, Nerul | Maharashtra |
| 54 | Ramassamy Elangovan | Asst.Professor | Electronics and Comm Engg | Manakula Vinayagar Institute of Tech. Puducherry | Tamilnadu |
| 53 | R S M Lakshmi Patibandla | Asst.Professor | Electronics and Comm Engg | Manakula Vinayagar Institute of Tech. Puducherry | Tamilnadu |
| 52 | Meenakshi Garg | Asst. Professor | MCA | VES institute of technology, Chembur | Maharashtra |
| 51 | Nahar Sunny Suresh | Asst. Professor | MCA | Vivekanand education society's institute of technology, Mumbai | Maharashtra |

Annexure – II List of Experts, Affiliation, and Topics

| S.no | Speakers | Topic covered |
|------|--|--|
| 1 | Mr. Vipin Jain Sr.Delivery Manager / Metacube software, Jaipur, Rajasthan | IoT, Applications and security |
| 2 | Mrs. Anubha Jain Associate Professor and head Dpt of CS & IT / IIS (deemed to be University), Jaipur, Rajasthan | IoT basics and Green IoT |
| 3 | Dr. Sharvari Tamhane Professor and Head ,Dept. of IT, Jawaharlal Nehru Engineering College, MGM University, Aurangabad, Maharashtra | IoT and IoT Applications |
| 4 | Dr Sachin Patil Assistant Professor / College of Engineering Pune (COEP), Pune | IoT Applications |
| 5 | Dr Anjali Yeole Assistant Professor, Computer Dept. VESIT, Mumbai, Maharashtra | Security and Privacy in IoT |
| 6 | Prof Suraj Khandare Assistant Professor / Fr. C.Rodrigues Institute of Technology, Vashi, Maharashtra | Lustre Programming for IoT |
| 7 | Dr Abhay Kshirsagar Associate Professor, Electronics Dept. VESIT, Mumbai, Maharashtra | WSN, IoT levels and Applications |
| 8 | Dr. Vishnu Shrinivasa Murthy Assit. Prof. School of CSE (SCOPE), Vellore Institute of Technology (VIT), Vellore, Tamil Nadu | Hands-on on IoT using bluetooth and Wifi etc |

| 9 | Mr. Vishal Bhatt Application Engineer / Tetcos LLP | IoT using NetSIM |
|----|--|--|
| 10 | Mr. Nithin Ravi Application Engineer / Tetcos LLP | IoT using NetSIM |
| 11 | Dr. Ajay Godhra Professor /NITTR ,Chandigarh | Hands-on ESP, Arduino, WSN, and case studies. |
| 12 | Mr.Sushil Bedre Senior Architect and consultant / Siemens Industry Softwares Ind. Pvt. Ltd. | IoT opportunities and future possibilities |
| 13 | Mr Bhupendra Bhate, L and T InfoTech Mumbai | Industry innovation using IoT and Green initiatives. |
| 14 | Prashant Kanade Assistant Professor, Computer Dept. VESIT, Mumbai, Maharashtra | Interactive session on case applications of IoT |

ANNEXURE-III

STTP Schedule

| Date | Session Timings | Speakers | Topic | | | |
|-------------------|----------------------|----------------------|---|--|--|--|
| | | | | | | |
| | 10:00 am to 11:00 am | Mr. Vipin Jain | Inauguration and Keynote Address | | | |
| 22/44/2020 | 11:00 am to 12:00 am | Dr. Anubha Jain | Session 1 :Basics of IOT and Green IOT | | | |
| 23/11/2020 | | | | | | |
| (Day 1) Monday | 12:00 am to 1:00pm | Dr. Sharvari Tamhane | Session 2: IOT and its applications | | | |
| | 1:00 pm to 2:00 pm | Break | | | | |
| | 2:00 pm to 3:30 pm | Dr Sachin Patil | Session 3: IOT Algorithms | | | |
| | 3:30 pm to 5:00 pm | Dr Anjali Yeole | Session 4: IOT Security aspects | | | |
| | | | | | | |
| | 10:00 am to 11:30 am | Dr. Anubha Jain | Session 1: Testing IoT for Different Industries | | | |
| | 11:30 am to 1:00pm | Prof Suraj Khandare | Session 2:Introduction to lustre programming language | | | |

| 24/11/2020 | | | and discussion on few | |
|-----------------------|----------------------|-----------------------|---|--|
| (Day 2) | | | projects | |
| Tuesday | | | | |
| | | | | |
| | | | | |
| | 1:00 pm to 2:00 pm | Break | | |
| | 2:00 pm to 4:30 pm | Mr. Bhupendra Bhate | Session 3: Real Life Examples of IOT and Industry Innovation in IOT | |
| | 4:30 pm to 5:00 pm | Mr. Prashant Kanade | Session 4: Interactive session on applications of IoT | |
| | | | | |
| | 10:00 am to 11:30 am | | Session 1:Introduction to Arduino and Interfacing with | |
| | | Dr. Vishnu Shrinivasa | Sensors | |
| | | Murthy | Session 2:HC-05 Bluetooth | |
| | 11:30 am to 1:00pm | | and ESP8266 Wi-Fi | |
| | | | Interfacing | |
| | 1:00 pm to 2:00 pm | Break | | |
| 25/11/2020 (Day 3) | 2:00 pm to 3:30 pm | Dr. Vishnu Shrinivasa | Session 3:HANDS ON Ultrasonic, DTH11 sensors and Motors | |
| Wednesday | 3:30 pm to 5:00 pm | Murthy | Session 4:HANDS ON Bluetooth Interfacing and Wi-Fi Module Demonstration | |
| | | | | |
| | 10 :00am to 11:30 am | Mr. Vishal Bhatt | Session1: IOT using NETSIM | |

| | 11:30 am to 1:00 pm | Mr. Vishal Bhatt | Session2: IOT using NETSIM | |
|--------------------|----------------------|------------------|---|--|
| 26/11/2020 | 1:00 pm to 2:00 pm | Break | | |
| (Day4) Thursday | 2:00 pm to 3:30 pm | Mr. Nithin Ravi | Session3: IOT using NETSIM | |
| | 3:30 pm to 5:00 pm | Mr. Nithin Ravi | Session4: IOT using NETSIM | |
| | | | | |
| | 10:00 am to 11:30 am | Dr.Ajay Godhra | Session 1: Deployment of condition monitoring of machines using IOT (hands on session). | |
| | 11:30 am to 1:00 pm | Dr.Ajay Godhra | Session 2: Arduino and raspberry pi programming for loT using simulation (hands on) | |
| 27/11/2020 | 1:00 pm to 2:00 pm | Break | | |
| (Day5) Friday | 2:00 pm to 3:30 pm | Dr.Ajay Godhra | Session 3: Wireless less sensor network simulation for smart city Session | |
| | 3:30 pm to 5:00 pm | Dr.Ajay Godara | Session 4 : Building IOT based smart applications to monitor covid patient's | |

| | 10:00 am to 11:30 am | Mr.Vipin Jain | Session1:Securing your devices to secure your data in IOT |
|------------|----------------------|----------------------|---|
| | | | Session 2 : Application Areas in public domains. |
| | 11:30 am to 1:00 pm | Mr.Sushil Bedre | Case study with live demo of live public sector IOT solution,Opportunities and future possibilities |
| 28/11/2020 | 1:00 pm to 2:00 pm | Break | |
| (Day6) | | | Session 3: |
| Saturday | 2:00 pm to 3.10 pm | | IOT levels and WSN |
| | | Dr. Abhay Kshirsagar | Research Application of IOT |
| | | | Session 4: |
| | 3:15 pm to 4:30 pm | Dr. Abhay Kshirsagar | IOT levels and WSN |
| | | | Research Application of IOT |
| | 4:30 pm to 5:00 pm | | Valedictory Function |

ANNEXURE-IV

Final feedback with Score of Online Test and Test Questions

Q1: The STTP sessions delivered the information that I expected to receive.

Q2: The STTP was successful in its objectives.

Q3: How would you rate the effectiveness of the demonstrations shown during the sessions?

Q4: How would you rate the duration of the program?

Q5: How would you rate the online arrangements for the entire STTP?

Q6: Write any three takeaways / outcomes of the STTP.

| Name | Quiz Score out of 40 | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 |
|----------------------------------|-------------------------------|----|----|----|----|-----------|---|
| Diptee S. Patil | 32.00 | 5 | 5 | 5 | 5 | Excellent | |
| Harsh N Bhor | 32.00 | 5 | 4 | 4 | 5 | Excellent | Role of IoT |
| Dashrath Bhagwan Kale | 36.00 | 4 | 4 | 3 | 3 | Very Good | Session were good |
| B KARTHIKA | 24.00 | 5 | 4 | 4 | 5 | Excellent | Interfacing with ardunio ,good session, Very good hand on session |
| Dr Harshali Parag Patil | 30.00 | 5 | 5 | 5 | 5 | Very Good | Green IoT, Its applications and practical approach |
| MRS. ANITA DAYANAND MHATRE | 28.00 | 5 | 5 | 5 | 5 | Excellent | Iot in detail and handon |

| Bhawana Sahebrao Dakhare | 33.00 | 5 | 5 | 5 | 5 | Excellent | Knowledge from Hands on session and Security in IOT, no other sttp focus on it . |
|---------------------------------|-------|---|---|---|---|-----------|--|
| Dr GNANAJEYARAMAN RAJARAM | 30.00 | 5 | 5 | 5 | 5 | Excellent | IOT and it's applications |
| Dr. Sharon Christa I L | 33.00 | 5 | 5 | 5 | 4 | Excellent | The contents delivered gave insights on IoT. I got various project ideas. I understood how to guide my students when they come up with IoT related projects |
| Sanjaykumar Vanjirao Sonar | 29.00 | 5 | 5 | 5 | 5 | Excellent | Green IOT is a very useful concept in current scenario Various software languages like python is useful. Nice and smooth conduction of IOT |
| Dr. Sushma Jaiswal | 33.00 | 5 | 5 | 5 | 5 | Excellent | Gaining knowledge |
| PRABHU R | 24.00 | 5 | 5 | 5 | 5 | Excellent | More knowledge gained |
| Shreya y | 22.00 | 5 | 5 | 4 | 5 | Excellent | In-depth knowledge of IOT Applications of IOT Future of IOT |
| Tarun Jaiswal | 32.00 | 5 | 5 | 5 | 5 | Excellent | Very informative |
| SATHIYAPRIYA T | 23.00 | 5 | 5 | 5 | 5 | Excellent | Practical sessions are good |

| Madhuri Ghuge | 32.00 | 5 | 5 | 5 | 4 | Excellent | The bright future of green IoT will change our tomorrow environment to become healthier and green, very high QoS, socially and environmentally sustainable and economically. We got to know green communication n networking, Application of GIOT, internet technology. |
|---------------------------------------|-------|---|---|---|---|-----------|---|
| NITHYA JAYAKUMAR | 35.00 | 5 | 5 | 5 | 4 | Very Good | Different tools for IOT |
| Meena Talele | 29.00 | 5 | 5 | 5 | 5 | Excellent | Green iot,live demo of aurdino, raspberry pi |
| Prof. Geetabala Siddharth Lendhare | 31.00 | 4 | 5 | 5 | 4 | Excellent | Deep knowledge, better understanding, explore concepts in effective manner |
| Dr. Rekha Chouhan | 31.00 | 5 | 5 | 5 | 4 | Excellent | Applications of IoT, NETSIM, Wireless Sensor network. |
| RAMASSAMY ELANGOVAN | 31.00 | 5 | 5 | 5 | 5 | Very Good | 1.Basic and Advancements in IoT 2.Implementation possibilities 3.Practical knowledge on Arduino |
| Manish Bhelande | 24.00 | 5 | 5 | 5 | 5 | Very Good | Well organize,promenient speaker,realtime application example |
| Mrs.Mona Deshmukh | 34.00 | 5 | 5 | 5 | 5 | Excellent | Informative sessions |

| SUTHAHAR P | 32.00 | 5 | 5 | 5 | 5 | Excellent | Very Knowledgeable Session with Hands on |
|--------------------------------|-------|---|---|---|---|-----------|---|
| Mr.R.SARAVANAN | 33.00 | 5 | 5 | 5 | 5 | Very Good | Good information about Green IOT |
| VIJESH MUNDOKALAM | 32.00 | 5 | 5 | 5 | 5 | Excellent | Am able to implement the concepts in my Day-to-day academics. |
| Prof. Sujata Bhairnallykar | 34.00 | 5 | 5 | 5 | 5 | Excellent | Handson sessions and depth knowledge of green IoT |
| Ameya Parkar | 34.00 | 4 | 4 | 4 | 4 | Very Good | Good under standing of Green IOT |
| Torana Kamble | 34.00 | 5 | 5 | 5 | 5 | Excellent | Application of Giot, programming for simulator, Netsim |
| Nazahat Balur | 16.00 | 4 | 4 | 4 | 4 | Very Good | Gained knowledge |
| Manju Ahuja | 38.00 | 5 | 5 | 4 | 5 | Excellent | Got the deep knowledge on GIOT, how to do interfacing with sensors, NETSIm, programming knowledge. Scope of IOT in different areas in future. |
| Er. Manoj S. Kavedia | 32.00 | 4 | 4 | 4 | 4 | Very Good | Example of IOT , Protocols , Tinker cad Demo , Remote XY , Arduino Programming , Smart city etc |
| Sandhya. Sandeep. Deshpande | 22.00 | 5 | 5 | 5 | 5 | Excellent | IIoT. Real time project,cyber security |
| DARSHAN B D | 23.00 | 5 | 5 | 5 | 5 | Excellent | Knowledge of IoT, green IoT, and advantages |

| Devanand K. Bathe | 29.00 | 5 | 5 | 5 | 5 | Excellent | Coverage of relevant topic, arduino hands on practice, suggestions on research topics |
|-------------------------|-------|---|---|---|---|-----------|---|
| Mr. H. M. Gaikwad | 30.00 | 5 | 4 | 5 | 4 | Very Good | Real life project ideas TikerCAD circuits NetSim Simulator |
| Dr.E.THANGASELVI | 31.00 | 5 | 5 | 5 | 5 | Excellent | Gained knowledge |
| Vaishali Gatty | 37.00 | 5 | 5 | 4 | 5 | Excellent | Learnt the significance of green IOT,netsim, Arduino connection etc |
| SIVARAJ M | 29.00 | 5 | 5 | 5 | 5 | Excellent | Simulation pare is very good |
| RAHUL TIWARI | 34.00 | 5 | 5 | 5 | 5 | Excellent | Learn about the GIOT Learn about the Simulator of GIOT Learn about the application of GOT |
| Dr.Ramesh k Solanki | 35.00 | 5 | 5 | 4 | 4 | Excellent | Some basic concepts with connection details of circuit board |
| Dr.P.Malathy | 33.00 | 5 | 5 | 5 | 5 | Excellent | Everything |
| Nafees Ahmed M. Kazi | 12.00 | 5 | 5 | 5 | 5 | Excellent | Good sessions, Well organized STTP & , Effective Demonstrations |
| Prof.Megha Wankhade | 25.00 | 4 | 4 | 4 | 4 | Good | IoT tools |
| NAHAR SUNNY SURESH | 40.00 | 5 | 5 | 5 | 5 | Excellent | Superb |

| Kanchan Ganesh Dhuri | 32.00 | 5 | 5 | 5 | 4 | Very Good | Need of securing IOT applications Different tools those can be used to implement IOT applications Future applications of iot and research area |
|-------------------------------|-------|---|---|---|---|-----------|--|
| R S M Lakshmi Patibandla | 17.00 | 5 | 5 | 5 | 5 | Excellent | Excellent |
| RAGHVENDRA OMPRAKASH SINGH | 31.00 | 5 | 4 | 4 | 5 | Very Good | Best |
| Rasika Gajendra Patil | 22.00 | 4 | 5 | 5 | 5 | Excellent | IoT Knowledge updated,use of green IOT to solve social problems, learning of open source tools for coding. |
| Prof. Shilpa M. Satre | 26.00 | 5 | 5 | 5 | 5 | Excellent | Very informative, Understandable and able to execute |
| Meenakshi Garg | 40.00 | 4 | 4 | 4 | 4 | Very Good | Netsim usage, water treatment using iot, security of devices |
| Monali V. Rajput | 37.00 | 4 | 4 | 4 | 4 | Very Good | Understood the concept of Arduino very well |
| Dr. Swati Jha | 26.00 | 4 | 4 | 4 | 4 | Very Good | Learned about the fundamentals of IOT, Detailed information regarding the IOT Simulators was imparted. Got to know about Lustre Programming |

| ASIF RAJA M | 33.00 | 4 | 4 | 4 | 3 | Very Good | I learned about IoT. The information is wealth. Each feedback session you ask some MCQ about the session is very nice and it's useful for us to recollect what I learn. |
|------------------------------------|-------|---|---|---|---|-----------|---|
| Vishakha krantikumar Gaikwad | 24.00 | 5 | 5 | 5 | 5 | Excellent | Very good session |
| Mrs. SARIKA ATUL PATIL | 28.00 | 5 | 5 | 5 | 5 | Excellent | ІоТ |
| RATAN RAJAN SRIVASTAVA | 30.00 | 5 | 5 | 5 | 5 | Excellent | Arduino uno board practical knowledge, Netsim practical knowledge, Green IoT |
| SHYAMALA M | 16.00 | 5 | 5 | 5 | 5 | Excellent | Utilize the session |
| Ms. PRYA B. PANDHARBALE | 33.00 | 5 | 5 | 5 | 5 | Excellent | Knowledge, hands on session, good resource person |
| VISHAKHA KRANTIKUMAR GAIKWAD | 24.00 | 5 | 5 | 5 | 5 | Excellent | VERY INFORMATIVE SESSION |

Questions from Final Test

| $1.\ \mathrm{Warren\ Buffet\ says\ that\ ``C}$ | Syber security is the biggest threat facing mankind, even more |
|--|--|
| dangerous than nuclear weapons | |
| war calamity | |
| strick | |
| Ans-nuclear weapons | |

2. Who invented the term internet of things?

Mc Donald

Kevin Ashton

Bill Gates

Steve Jobs

Ans Kevin Ashton

3.Can you specify where there is an error in this program?/*Turns on an LED on for one second, then off for one second, repeatedly. This example code is in the public domain.

```
1. int led = 13;
2. void setup() {
3. pinMode(led, INPUT);
4. }
5. void loop() {
6. digitalWrite(led, HIGH);
7. delay(1000);
8. digitalWrite(led, LOW);
9. delay(1000);
10. }
```

3 1

6

8

Ans-3

4. Which technology is used in Rafael bomber?

| Esteral SCADE Signal Verilog |
|--|
| Ans-Esteral |
| 5.NetSim Protocol Source codes are written in which of the following Programming Languages? |
| C# C C++ Tcl/Tk |
| Ans C |
| 6. Which characteristics involve the facility to respond in an intelligent way to a particular situation? Intelligence Connectivity Dynamic Nature Enormous Scale |
| Ans Intelligence |
| 7. How many digital pins are there on the UNO board? * 14 16 12 20 |
| Ans 12 |
| 8. Which action is the best step to protect Internet of Things (IoT) devices from becoming the entry point for security vulnerabilities into a network while still meeting business requirements? Applying security updates promptly Turning IoT devices off when not in use Using encryption for communications Removing IoT devices from the network |
| Ans Applying security updates promptly |

| 9. Which protocol allows user at one site to establish connection to another site and pass keystroke from local to remote host: |
|---|
| Telnet |
| FTP |
| IP |
| HTTP |
| Ans Telnet |
| 10. Which of the following is the future application of IoT? |
| Role of green IoT system |
| QoS in communication |
| Secure communication |
| Multimedia communication |
| Ans Role of green IoT system |
| 11 In Cooja simulator programs are written in which programming language?* |
| cobol |
| java |
| python |
| C |
| Ans C |
| 12. NetSim IoT / WSN module is based on: |
| EEE 802.11p |
| IEEE 1609 |
| IEEE 802.15.4 |
| IEEE 802.22 |
| Ans IEEE 802.15.4 |
| 13 Warren Buffet says that "Cyber security is the biggest threat facing mankind, even more |
| dangerous than" |
| nuclear weapons |
| war |
| calamity |
| Strick |
| Ans nuclear weapons |
| 14. NetSim IoT module supports which of the following network layer protocols? |

| DSR & AODV |
|--|
| RPL & OLSR |
| AODV & RPL |
| ZRP & OLSR |
| Ans AODV & RPL |
| 15 ITS stands for |
| Internet Travel Services |
| Internet Transportation Security |
| Intelligent Transportation Security |
| Intelligent Transportation Services |
| Ans Intelligent Transportation Services |
| 16. IoT promotes the creation of IoT terminal industry |
| Devices |
| Network |
| Clusters |
| Things |
| Ans Clusters |
| 17. A program written with the IDE for Arduino is called |
| Source Code |
| Sketch |
| Cryptography |
| IDE Source |
| IDE Somet |
| Ans Sketch |
| |
| 18 When was lustre language invented? |
| 1960's |
| 1970's |
| 1980's |
| 1990's |
| |
| Ans 1980's |
| 19. What allows digital devices to interconnect and transmit data? |
| a sensor |
| a global positioning sensor |
| a smart phone |
| a network |

Ans a sensor

20. Which of the following is a simulator for IoT?

contiki

tiny

cooja

Rtos

Ans cooja

21 Which is the top most challenge for adoption of the Internet of Things?

Security

Money

Implementation

Connectivity

Ans Security

22 NetSim Packet Trace and Event Trace log files are provided in which file format?

txt

xml

csv

Doc

Ans csv

23 What is IIoT?

Information Internet of Things

Industrial Internet of Things

Innovative Internet of Things

Instructive Internet of Things

Ans Industrial Internet of Things

24. From a security perspective, what should organizations expect will occur as they become more dependent upon the Internet of Things (IoT)?

Security risks will be eliminated.

Security risks will decrease.

Security risks will increase.

Security risks will stay the same.

Ans Security risks will increase.

| 25. Network scenario created in NetSim GUI is saved as XML configuration file flat text file C file HTML file |
|--|
| Ans XML configuration file |
| 26.In which language is a significant portion of Airbus A340 and 385 code written? Esteral SCADE Signal Verilog |
| Ans SCADE |
| 27. Which one out of these is not a data link layer technology: Bluetooth UART WiFi HTTP |
| Ans HTTP |
| 28 Resource management will elaborate the key aspects of Energy management Network management both a and b neither a nor b |
| Ans both a and b |
| 29. What does IDE stand for? IDE Internal Deep Escape Integrated Development Environment In Deep Environment |
| Ans Integrated Development Environment |
| 30 Arduino IDE consists of 2 functions. What are they? Build() and loop() Setup() and build() Setup() and loop() |

| Loop() and build() and setup() |
|--|
| Ans Setup() and loop() |
| 31. IPv4 is and IPv6 is bit address protocols 24, 32 64, 128 32, 128 32, 64 |
| Ans 32, 128 |
| 32.Which language is preferred for IoT analytics? C ++ Python HTML PHP |
| Ans Python |
| 33.The temperature and humidity sensor values are printed in OLED matrix PIP PYPI SDK |
| Ans OLED matrix |
| 34.The class declares the method that receives the temperature. public-observation Public_observation Public - observation Public- Observation |
| Ans Public_observation |
| 35. Which of the following are in LPWAN technologies LoRa GSM LTE CDMA |
| Ans LoRa |

| 36.Arduino shields are also called as |
|---|
| Extra peripherals |
| Add on modules |
| Connectivity modules |
| Another Arduinos |
| Ans Add on modules |
| 37. What is the microcontroller used in Arduino UNO? |
| ATmega32114 |
| ATmega2560 |
| AT91SAM3x8E |
| ATmega328p |
| |
| Ans ATmega328p |
| 38. What does GPIO stand for? |
| General Purpose Input Output Processor |
| General Purpose Inner Outer Propeller |
| General Purpose Interested Old People |
| General Purpose Input Output Pins |
| |
| Ans General Purpose Input Output Pins |
| 39 Which one is not an element of IoT? |
| People |
| Process |
| Security |
| Things |
| |
| Ans Security |
| 40 How many Analog pins are used in an Arduino UNO board? |
| 6 |
| 14 |
| 12 |
| 16 |
| Ans 6 |

ANNEXURE-V Session-wise Attendance and Feedback

Q1: The e-Session found relevant to the objectives

Q2: The e-Session objectives were clearly stated and met

Q3: The e-session has increased your knowledge and skill in the discussed topic.

Q4: Do you feel the sessions will be useful for your career?

Q5: Have you come across such sessions in the past?

Q6: Are you willing to join such sessions if an opportunity comes in future.

List of participants attended DAY1 session Morning with feedback Resource Persons-Dr. Anubha Jain Dr. Sharvari Tamhane

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|----------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------|
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Thank you |
| B KARTHIKA | Agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | GOOD SESSION |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Agree | Yes | No | Agree | Best |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | Nill |
| PRABHU R | Agree | Agree | Agree | Yes | Yes | Agree | Nil |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | very good |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| DASHRATH B KALE | Agree | Agree | Agree | Yes | Yes | Agree | No |
| SATHIYAPRIYA T | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |

| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good. |
|----------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--|
| Vaishali Gatty | Agree | Agree | Agree | Yes | Yes | Agree | Good session |
| Dr GNANAJEYARAM AN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Session was good |
| Torana N. Kamble | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Session was good |
| Bhawana S. Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | The different applications of IOT and communication technologies are explained very properly. thanks |
| Mr.R.SARAVANA N | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | Send a PPT after completing each session |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| H MANOJ T GADIYAR | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |

| | l | l | l ₋ . | | | l ₋ . | |
|-------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---|
| Dr.E.THANGASEL VI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| Ramassamy Elangovan | Strongly agree | Strongly agree | Agree | Yes | No | Strongly Agree | - |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | session was good, will like to have handson part |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Agree | Neutral | Yes | No | Agree | Nice Session |
| Ms. Priya B. Pandharbale | Strongly agree | Strongly agree | Agree | Yes | No | Agree | Nil |
| RAHUL TIWARI | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | NA |
| SHIRSHENDU MAITRA | Agree | Agree | Agree | Yes | Yes | Agree | Informative |
| Devanand K. Bathe | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | in-depth coverage of topic. |
| A.Benazir Begum | Strongly agree | Agree | Agree | Yes | Yes | Agree | Good |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good sessions |
| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Good organization |
| ANITA DAYANAND MHATRE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NO |
| Anna N Kurian | Agree | Agree | Agree | May be | No | Agree | Good |
| Mr Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |

| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
|--|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative session |
| Dr Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | Please share recordings day wise |
| Sachin Govardhan Jagdale | Strongly agree | Agree | Agree | Yes | Yes | Strongly Agree | Thank you for the session |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Sandhya sandeep Deshpande | Agree | Agree | Agree | Yes | No | Agree | Good |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Shyamala M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good , Provide PPT and Recording |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No thanks |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Meenakshi Garg | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Nice session |

List of participants attended DAY1 session Afternoon with feedback

Resource Persons: Dr. Sachin Patil Dr. Anjali Yeole

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|--------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---------------------------|
| Dr.P.MALATHY | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | very good |
| DASHRATH B KALE | Agree | Agree | Agree | Yes | Yes | Agree | No |
| ANITA DAYANAND MHATRE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Ramassamy Elangovan | Agree | Strongly agree | Agree | Yes | Yes | Agree | - |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good. |
| Mr.Gajanan Khapre | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Very Nice |
| A.Benazir Begum | Agree | Agree | Agree | Yes | Yes | Agree | Good |
| Anna N Kurian | Agree | Agree | Agree | May be | No | Agree | Good |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
| PRABHU R | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| B KARTHIKA | Agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | NICE |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |

| SATHIYAPRIYA T | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Nil |
|--|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you |
| Dr GNANAJEYARAMA N RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | VERY INSIGHTFUL |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Devanand K. Bathe | Agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | excellent session |
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative and insightful session |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | Best |
| Dr.E.THANGASELVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | Please share recordings day wise |
| Sandhya Deshpande | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session!! |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | lot knowledge share was excellent |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | Nill |
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |

| Prof. Megha Wankhade | Agree | Agree | Agree | Yes | Yes | Strongly Agree | No |
|-------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|--|
| Er.Manoj S. kavedia | Agree | Agree | Agree | Yes | Yes | Agree | All Good , Plrovide ppt AND rECORDINGS |
| ASIF RAJA M | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very Informative sessions |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | good |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | no |
| Ms. Priya B. Pandharbale | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | Nil |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was good |
| Madhuri Ghuge | Agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Session was good |
| Bhawana S. Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | The protocols were well explained |
| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Useful contents covered |
| Sunny Suresh Nahar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Thanks |
| S.S.Deshpande | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | Good |
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| Vaishali Gatty | Agree | Agree | Agree | Yes | Yes | Agree | Very good session |
| Meenakshi Garg | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice Session |

List of participants attended DAY2 session Morning with feedback Resource Person- Dr. Anubha Jain

Prof Suraj Khandare

| | Prof Suraj Knandare | | | | | | | | | | |
|--|---------------------|-------------------|-------------------|-----|-----|-------------------|-----------------------------------|--|--|--|--|
| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments | | | | |
| PRABHU R | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No | | | | |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very | | | | |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Strongly agree | Agree | Yes | No | Agree | Kindly Send PPT | | | | |
| SATHIYAPRIYA T | Agree | Agree | Agree | Yes | Yes | Agree | Nil | | | | |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session | | | | |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative | | | | |
| Vijesh Mundokalam | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session. | | | | |
| Ramassamy Elangovan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | - | | | | |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent | | | | |
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Agree | Yes | No | Agree | Thank you | | | | |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good | | | | |
| Meenakshi Garg | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Nice session | | | | |
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Wonderful and informative session | | | | |
| B KARTHIKA | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | GOOD PRESENTATION | | | | |

| ı | 1 | 1 | 1 | 1 | 1 | 1 | |
|----------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|--|
| Anna N Kurian | Agree | Agree | Agree | Yes | Yes | Agree | Good |
| SHYAMALA M | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Devanand K. Bathe | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | nice session |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Testing iot nicely narrated also programming language is interesting |
| Dr GNANAJEYARA MAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | VERY INSIGHTFUL |
| Mr. H. M. Gaikwad | Agree | Agree | Agree | May be | No | Agree | Second session was moderate |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Dashrath B Kale | Agree | Agree | Agree | Yes | No | Agree | No |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| ASIF RAJA M | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | Nill |
| S.S.Deshpande | Strongly agree | Strongly agree | Strongly Agree | No | No | Strongly Agree | Good |

| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | Best |
|-------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---|
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | Nil |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was good |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | THANK YOU .AMIT NAIK SGSITS INDORE |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Good session |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | NA |
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Nil |
| Bhawana S. Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Today we come to know new things ex. Lustre |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Session Was Good |
| Monali V. Rajput | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Good recent topic discussed |
| Dr.E.THANGASE LVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice program |
| Dr.E.THANGASE LVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice program |
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | Yes | Agree | All good |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Agree | Agree | May be | Yes | Strongly Agree | Kindly share PPT |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good. |

| Dashrath B kale | Agree | Agree | Agree | Yes | No | Agree | Nil |
|-------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------------------------|
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice explanation of iot |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| Devanand K. Bathe | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | nice session and excellent discussion |
| ANITA DAYANAND MHATRE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NO |
| Dr.Ramesh Solanki | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | thanks |
| SsDeshpande | Agree | Agree | Agree | Yes | No | Agree | |
| Vaishali Gatty | Agree | Agree | Agree | Yes | Yes | Agree | Very good session |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |

List of participants attended DAY2 session Afternoon with feedback Resource Person- Mr. Bhupendra Bhate Mr. Prashant Kanade

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|--|-------------------|-------------------|-------------------|--------|-----|-------------------|---|
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Real time demo of iot |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Very Informative Session |
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good , Provide PPT and Recoding for Futur Reference |
| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | May be | Yes | Strongly Agree | Very good sesdions |
| Monali V. Rajput | Agree | Agree | Agree | Yes | No | Agree | Good more detailed were much appreciated |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Dr. Sharon Christa I L | Agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Nil |
| B KARTHIKA | Strongly agree | Agree | Strongly Agree | Yes | Yes | Agree | Good session |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Anita Dayanand Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Prof. Geetabala Siddharth Lendhare | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice presentation and discussion |

| | | | | _ | | | |
|-------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|------------------------------|
| Dr GNANAJEYARAM AN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | VERY INSIGHTFUL |
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Thanks |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| Dr Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | - |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Ramassamy Elangovan | Agree | Agree | Agree | Yes | No | Strongly Agree | - |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good. |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Kindly share PPT |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good Session |
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was good |
| Mr.R.SARAVANA N | Strongly agree | Agree | Agree | Yes | Yes | Agree | Good |
| Shreya Kurne | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very good session keep it up |

| Harsh Namdev Bhor | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |
|------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---|
| Prof. Megha Wankhade | Agree | Agree | Agree | Yes | No | Agree | No |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Sessions are very informative |
| PRABHU R | Agree | Agree | Agree | Yes | Yes | Agree | Nil |
| Vaishali Gatty | Agree | Agree | Agree | Yes | Yes | Agree | Excellent session |
| SATHIYAPRIYA T | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | All session we're good n newly added interactive session was good |
| Devanand K. Bathe | Agree | Agree | Agree | May be | Yes | Strongly Agree | nice session followed by open discussion |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | No |
| PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Meenakshi Garg | Agree | Agree | Agree | Yes | Yes | Agree | Good |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good Experience |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |

| Dr.E.THANGASEL VI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
|----------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| ASHOK KUMAR S | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | I will definitely join such sessions in the future. |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent Sessions |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NO |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Best |
| Dr. Mrs. Gresha S Bhatia | Agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Such sessions should be conducted frequently |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Superb Topic |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Nithya Jayakumar | Agree | Agree | Agree | Yes | Yes | Agree | No |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Thank you .amit naik |
| Nahar sunny suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you |
| Amit naik | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you.amit naik |

| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
|-------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---------------------------------|
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Very Informative Session |
| Harsh N Bhor | Strongly agree | Agree | Agree | Yes | No | Agree | Good Session |
| Anna N Kurian | Agree | Agree | Agree | May be | Yes | Agree | Good |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good. |
| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Agree | Neutral | Yes | Yes | Agree | Nice |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Dr GNANAJEYARAM AN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very insightful |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Shreya Kurne | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Well done it was a good session |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Good topic selection |

| Nafees Ahmed M. Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good Sessions |
|---------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| Kazi Nafees Ahmed M. | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent Sessions |
| Vaishali Satish Joshi | Agree | Agree | Agree | Yes | Yes | Strongly Agree | This session has increased our knowledge and skill. |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very Informative sessions |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | I will definitely join such sessions in the future. |

List of participants attended DAY3 session Morning with feedback Resource Person-Dr. Vishnu Shrinivasa Murthy

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|----------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--|
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | - |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| Dr GNANAJEYARAMAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | VERY INSIGHTFUL |
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Session is good and practical oriented |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | session was good |

| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session. |
|---------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|--------------------------------------|
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Superb session, thank you so much |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | Nill |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Anna N Kurian | Agree | Agree | Agree | May be | Yes | Agree | Good |
| Ramassamy Elangovan | Strongly agree | Agree | Agree | Yes | Yes | Strongly Agree | - |
| Devanand K. Bathe | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | nice hands on session |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| PRABHU R | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Dashrath B kale | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Anita Dayanand Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Dr.Ramesh Solanki | Strongly agree | Agree | Agree | Yes | Yes | Strongly Agree | thanks |
| Dr.E.THANGASELVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| SATHIYAPRIYA T | Agree | Agree | Agree | Yes | Yes | Agree | No |

| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Practical Session is very nice |
|-------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------------------|
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | NO |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Best |
| Monali Rajput | Agree | Agree | Strongly Agree | Yes | No | Agree | Good practically explained |
| Vaishali Gatty | Agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent session |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| S.S.DESHPANDE | Agree | Agree | Agree | Yes | Yes | Agree | |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session |
| Nahar Sunny suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Good session |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent |
| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | God Demonstrations |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Good and Well Organized |
| MS. PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Bhawana S. Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session |

| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Neutral | No |
|---------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|------------------|
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| B KARTHIKA | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you |
| Nithya Jayakumar | Agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | No |
| Manish Bhelande | Agree | Agree | Strongly Agree | Yes | No | Strongly Agree | Nope |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Dr.M.DEIVAKANI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | NICE |
| Mr.R.SARAVANAN | Agree | Agree | Agree | Yes | Yes | Agree | Good |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was good |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | _ |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Shreya Kurne | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | Useful session |

| Meenakshi Garg | Strongly agree | Agree | Agree | Yes | Yes | Agree | Good |
|---------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------------|
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Informative session |
| Nafees Ahmed M Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | The Best sessions |
| Vaishali Satish Joshi | Agree | Agree | Agree | Yes | Yes | Strongly Agree | This session has useful. |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent sessions |

List of participants attended DAY3 session Afternoon with feedback Resource Person-Dr. Vishnu Shrinivasas Murthy

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|-------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------------|
| Anita Dayanand Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | excellent |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | Во |
| PRABHU R | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Thanks |
| SATHIYAPRIYA T | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |

| Nithya Jayakumar | Agree | Agree | Strongly Agree | Yes | Yes | Agree | No |
|---------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|-------------------------------|
| Dr.E.THANGASELVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice program |
| Manju ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Prof. Geetabala Siddharth Lendhare | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice session |
| Rasika Gajendra Patil | Agree | Strongly agree | Strongly Agree | Yes | No | Agree | Nil |
| Monali V. Rajput | Strongly agree | Agree | Strongly Agree | Yes | No | Strongly Agree | good session |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Best |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | no |
| KUMARNATH J | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Devanand K. Bathe | Agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | nice hands on practice |
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Dashrath b kale | Agree | Agree | Agree | No | Yes | Agree | Nil |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Practical oriented sessions |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | No | No | Strongly Agree | Excellent practical knowledge |

| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Very Good Informative and Interesting Session |
|---------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| B KARTHIKA | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | GOOD SESSION |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | - |
| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Agree | No |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All Good |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | |
| Sachin Govardhan Jagdale | Agree | Agree | Agree | Yes | No | Agree | Thank you |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Session was very informative |
| Rahul Tiwari | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | NA |
| Dr GNANAJEYARAMAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very insightful |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Shreya Kurne | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Very useful session |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |

| Meenakshi Garg | Agree | Agree | Agree | Yes | Yes | Agree | Ok |
|----------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---------------------------------------|
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Good session |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session. |
| Ssd | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Manish Bhelande | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Anna N Kurian | Agree | Agree | Agree | May be | No | Agree | Good |
| Ramassamy Elangovan | Agree | Agree | Agree | Yes | Yes | Strongly Agree | _ |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
| Prof. Megha Wankhade | Agree | Agree | Agree | Yes | Yes | Agree | No |
| MS. PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice |
| KALESH BUSA | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session no other comments |
| Dr.M.Deivakani | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was good |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Hands on session was very informative |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | NO |

| I | l | ı | ı | ı | ı | ĺ | |
|---------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|----------------------------------|
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Informative Session |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Very informative |
| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Agree | No |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | no |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Harsh N Bhor | Agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| Dr. Vaishali Prashant Jadhav | Agree | Agree | Agree | Yes | No | Strongly Agree | Good organization and Management |
| Vaishali Gatty | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Very interesting session |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Vaishali Satish Joshi | Agree | Agree | Agree | Yes | Yes | Agree | This session was useful. |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very productive sessions |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good sessions |
| Manju ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |

List of participants attended DAY4 session Morning with feedback Resource Person-Mr. Nithin Ravi

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|-----------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------|
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| Anita Dayanand Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | NIL |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Dr. Sushma Jaiswal | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Dashrath Kale | Agree | Agree | Agree | Yes | Yes | Agree | nil |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | EXCELLENT SESSION |
| Monali V. Rajput | Agree | Agree | Agree | Yes | No | Agree | Good session |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Informative Session |
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Thank you |
| B KARTHIKA | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | GOOD SESSIOM |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |

| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice session |
|--|-------------------|-------------------|-------------------|--------|-----|-------------------|---------------------------------------|
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Good Session |
| Torana N.kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was good |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| MS. PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| mrs.Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | nice session |
| Anna N Kurian | Agree | Agree | Agree | May be | No | Agree | good |
| PRABHU R | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | Please share recordings |
| SATHIYAPRIYA T | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice explanation |
| Bhawana S. Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Hands on session was very informative |
| Mr. H M Gaikwad | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Practical oriented sessions |

| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | good session |
|-------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|------------------------------------|
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | NO |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent Session |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Manish Bhelande | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | Nope |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Yes |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very Good Session. |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent explanation about netsim |
| Sandhya sandeep Drshpande | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | No |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | Best |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Dr.E.THANGASE LVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice program |
| Prof. Megha Wankhade | Agree | Agree | Agree | Yes | No | Agree | No |
| Nithya Jayakumar | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |

| Sachin | | | | | | | |
|-----------------------|----------------|----------------|-------------------|-----|-----|-------------------|-----------------------------------|
| Govardhan | | | | | | | |
| Jagdale | Agree | Agree | Agree | Yes | No | Agree | Thank you |
| Vaishali Satish | | | | | | Strongly | This session has increased our |
| Joshi | Agree | Agree | Agree | Yes | No | Agree | knowledge and skill. |
| Vijaya Ambadas | | A = = = = | A ===== | Vaa | Vaa | A === = | Theodores |
| Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| | ugree | ugicc | Agree | 103 | 140 | Agree | |
| Meenakshi Garg | Agree | Agree | Agree | Yes | Yes | Agree | Goof |
| | | 0 | | | | - | |
| Devanand K. Bathe | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Nice session |
| Butile | / Igi cc | 7,6100 | 7.61.00 | 103 | 163 | 7.61.00 | 1400 3033011 |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| DI. Swati Jila | Agree | Agree | Agree | 163 | 163 | Agree | INO |
| Dr. Sharon | A aroo | Agraa | Strongly | Voc | No | Agraa | nil |
| Christa I L | Agree | Agree | Agree | Yes | No | Agree | nil |
| Er. Manoj S. | | | | | | | |
| Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| AMIT NAIK | Strongly | Strongly | Strongly | Yes | Yes | Strongly | thank you amit naik |
| AWIII NAIK | agree | agree | Agree | 163 | 163 | Agree | thank you .amit naik |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you .amit naik |
| | ugi ee | ивгее | 7.6.00 | 100 | 100 | 7.6.00 | I amenan |
| Dr Gnanajeyarama | Strongly | Strongly | Strongly | | | Strongly | |
| n Rajaram | agree | agree | Agree | Yes | No | Agree | Very insightful |
| Nafees Ahmed | Strongly | Strongly | Strongly | | | Strongly | |
| M. Kazi | agree | agree | Agree | Yes | No | Agree | Good event management and session |
| Dr. M. | Strongly | Strongly | Strongly | | | Strongly | |
| Deivakani | agree | agree | Agree | Yes | No | Agree | Nice |
| Sanjaykumar | Strongly | Strongly | Strongly | | | Strongly | |
| Vanjirao Sonar | agree | agree | Agree | Yes | No | Agree | Informative session |
| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Agree | No |
| azanat balai | 6 | | | | | 5 | |

| Vaishali Gatty | Strongly agree | Agree | Agree | Yes | Yes | Strongly Agree | Very interesting session |
|---------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------------------------|
| Shreya Kurne | Strongly agree | Agree | Strongly Agree | Yes | Yes | Agree | Well done |
| Dr. M. Deivakani | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Please provide recordings of session |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent Knowledgeable sessions |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice sessions |

List of participants attended DAY4 session Afternoon with feedback Resource Person- Mr. Vishal Bhatt

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|-----------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------------|
| Dashrath B Kale | Agree | Agree | Agree | Yes | No | Agree | Nik |
| SS Deshpande | Strongly agree | Agree | Agree | Yes | Yes | Agree | |
| Nahar sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Dynamic iot excellent |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | NO |

| ANITA DAYANAND MHATRE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NO |
|--|-------------------|-------------------|-------------------|--------|-----|-------------------|--------------------------|
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Wonderful Session |
| B KARTHIKA | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | VERY NICE SESSION |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Very Informative Session |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | Please share recordings |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very good |
| Nithya Jayakumar | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | no |
| SATHIYAPRIYA T | Agree | Strongly agree | Agree | Yes | Yes | Agree | Nil |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Anna N Kurian | Agree | Agree | Agree | May be | No | Agree | Good |
| Prof. Megha Wankhade | Agree | Agree | Agree | Yes | No | Agree | No |
| PRABHU R | Agree | Strongly agree | Agree | Yes | Yes | Agree | Nil |

| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | very informative sessions |
|------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|-----------------------------|
| Dr.Ramesh Solanki | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Thank you |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Vaishali Gatty | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative and useful |
| Rahul Tiwari | Strongly agree | Agree | Agree | Yes | Yes | Strongly Agree | NA |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Er. Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| Meenakshi Garh | Agree | Agree | Agree | Yes | Yes | Agree | Ok |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Examples were good |
| MS. PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Shreya Kurne | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Nice session |
| Dr.E.THANGASE LVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| Devanand K. Bathe | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Excellent session |

| Mr. H. M. Gakwad | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Practical oriented sessions |
|------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|--------------------------------------|
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |
| Amit naik | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you .amit naik |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | No | Agree | No |
| Monali Rajput | Agree | Agree | Agree | Yes | No | Agree | Good session |
| Ramassamy Elangovan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | - |
| Dr GNANAJEYARA MAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very insightful |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | Best |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | No | Agree | No |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very Informative Sessions |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Please provide recordings of session |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice topics |

| Dr. Sharon Christa I L | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
|-------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|-----------------|
| Harsh Namdev bhor | Agree | Strongly agree | Agree | Yes | No | Strongly Agree | NA |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Rasika Gajendra Patil | Agree | Agree | Strongly Agree | Yes | No | Agree | Nil |
| Manish Bhelande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nope |
| Manish Bhelande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nope |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very good |
| Mr.R.SARAVAN AN | Agree | Agree | Agree | Yes | Yes | Agree | Nice |
| Amit Naik | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
| Dr GNANAJEYARA MAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very insightful |
| Sandhya deshpande | Strongly agree | Agree | Agree | Yes | Yes | Agree | |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you |
| Dr. M. Deivakani | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
| Nafees Ahmed Mushiroddin Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good sessions |

| Vaishali Satish Joshi | Agree | Agree | Strongly Agree | Yes | No | Strongly Agree | This session has useful. |
|--------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------------|
| Sachin Agrawal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |

List of participants attended DAY5 session Morning with feedback Resource Person- Dr. Ajay Kumar Godhara

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|----------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------|
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Best |
| Mr.R.SARAVANAN | Agree | Agree | Agree | Yes | Yes | Agree | Good |
| Devanand K. Bathe | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent session |
| PRABHU R | Strongly agree | Agree | Strongly Agree | Yes | Yes | Agree | No |
| Dr GNANAJEYARAMA N RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | VERY INSIGHTFUL |
| SATHIYAPRIYA T | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | good session |

| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
|--|-------------------|----------------------|-------------------|-----|-----|-------------------|---------------------------|
| Ramesh Solanki | Strongly agree | Agree | Strongly Agree | Yes | No | Strongly Agree | Thank you |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | pls share recording |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | no |
| B KARTHIKA | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | GOOD SESSION |
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nice session |
| Nithya Jayakumar | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | no |
| R S M Lakshmi Patibandla | Strongly agree | Strongly Disagree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| ANITA DAYANAND MHATRE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NO |
| Dr.E.THANGASELVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Er. Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Live demo excellent |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |

| Dr.M.Deivakani | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
|-------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Sandhya sandeep Deshpande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | N |
| Manish Bhelande | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Knowledgeable |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Harsh Namdev Bhor | Strongly agree | Agree | Strongly Agree | Yes | No | Strongly Agree | Good Session |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Monali V. Rajput | Agree | Agree | Strongly Agree | Yes | Yes | Agree | good session |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Prof. (Dr.) Tryambak Hiwarkar | Agree | Agree | Agree | Yes | Yes | Agree | Sessions were excellent and informative |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good Session |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
| Dashrath B Kale | Agree | Agree | Agree | No | Yes | Agree | Nil |
| Rasika Gajendra Patil | Agree | Agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good Session |

| Ramassamy Elangovan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
|------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--|
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Ratan Rajan Srivastava | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | very informative sessions |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Good session |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was nice |
| PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |
| Sachin Govardhan Jagdale | Agree | Agree | Agree | Yes | No | Agree | Thank you |
| Prof.(Dr.) Tryambak Hiwarkar | Agree | Agree | Agree | Yes | Yes | Agree | Session were excellent and informative |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Informative Session |
| Meenakshi Garg | Agree | Agree | Agree | Yes | Yes | Strongly Agree | ok |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | NO |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you .amit naik |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you .amit naik |

| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Goog hands on sessions |
|------------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---------------------------------------|
| Vaishali Gatty | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Very good session |
| amit naik | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you |
| Nafees Ahmed Mushiroddin Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good program |
| Sachin Agrawal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Shreya Kurne | Agree | Agree | Strongly Agree | Yes | Yes | Agree | Useful information provided |
| Monali Rajput | Agree | Agree | Strongly Agree | Yes | No | Agree | Good one |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Gud initiative |
| Vaishali Satish Joshi | Agree | Agree | Agree | Yes | Yes | Strongly Agree | This session has increased knowledge. |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very nice session |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Prof.Megha Wankhade | Agree | Agree | Agree | Yes | No | Agree | No |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good presentation |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Dr.M.DEIVAKANI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | NICE |
| Prof.(Dr.) Tryambak Hiwarkar | Agree | Agree | Agree | May be | Yes | Agree | Very informative |

List of participants attended DAY5 session Afternoon with feedback Resource Person- Dr.Ajay Kumar Godhara

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|--|-------------------|-------------------|-------------------|-----|-----|-------------------|-------------------------|
| Anita Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | NO |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | very informative |
| Dashrath B Kale | Agree | Agree | Agree | Yes | Yes | Agree | nil |
| Nithya Jayakumar | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | Please share recordings |
| Mr.R.SARAVAN AN | Agree | Agree | Neutral | Yes | Yes | Agree | Good |
| Mr. H. M. Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good projects demo |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you |
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Wonderful session |
| Dr. Sharon Christa I L | Agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Er. Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Session Was Good |
| meena.talele@ ves.ac.in | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Aurdino real time demo |

| Dr. Swati Jha | Agree | Agree | Agree | Yes | No | Agree | No |
|-------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------------|
| Dr.E.THANGASE LVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Dr.Ramesh Solanki | Strongly agree | Agree | Strongly Agree | Yes | No | Agree | Thank you |
| Vaishali Gatty | Agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Very interesting session |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session |
| Monali Rajput | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Good session |
| B KARTHIKA | Strongly agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | Good session |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |

| Prof.Megha Wankhade | Agree | Agree | Agree | Yes | No | Agree | No |
|----------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|--------------------------|
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Very Informative Session |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| Devanand K. Bathe | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Nice session |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
| PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Session was nice |
| Sandhya sandeep Deshpande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Manish Bhelande | Strongly agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | Nope |
| PRABHU R | Agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Nil |
| SATHIYAPRIYA T | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | No |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Dr GNANAJEYARA MAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very insightful |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
| Meenakshi Garg | Strongly agree | Agree | Agree | Yes | Yes | Agree | Good |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |

| Dr. M. Deivakani | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice |
|------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------------------|
| Vijaya Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very good session. |
| Nafees Ahmed M. Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Best sessions |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent sessions |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Thank you |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Manish Bhelande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nope |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Properly organized program |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | Nil |
| Harsh Namdev Bhor | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | na |
| amit naik | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you .amit naik |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Dr. Vaishali Prashant Jadhav | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Latest topic discussion was gud |

List of participants attended DAY6 session Morning with feedback Resource Person- Mr. Vipin Jain

Mr.Sushil Bedre

| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|--------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------|
| Manish Bhelande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nope |
| PRABHU R | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Dr.E.THANGASELVI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent program |
| B KARTHIKA | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |
| Dr GNANAJEYARMAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | VERY INSIGHTFUL |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Priyasathe123@g mail.com | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Dr Sachin Agrawal | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| SATHIYAPRIYA T | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| VIJESH MUNDOKALAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good Session. |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Informative Session |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | |
| Mr.R.SARAVANAN | Agree | Agree | Agree | Yes | Yes | Agree | Good |

| Nithya Jayakumar | Strongly agree | Strongly agree | Agree | Yes | Yes | Agree | No |
|--|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------------|
| Sandhya sandeep DESHPANDE | Agree | Agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| Dr.P.Malathy | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Dr HARSHALI PARAG PATIL | Agree | Agree | Agree | Yes | No | Agree | PLEASE SHARE RECORDINGS |
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| Prof. Geetabala Siddharth Lendhare | Agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative session |
| Mr.Gajanan Purushottam Khapre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very nice |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session. |

| Ramassamy Elangovan | Agree | Agree | Agree | Yes | Yes | Agree | - |
|-------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|-------------------------------------|
| Anita Dayanand Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Meena Talele | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Excellent practical knowledge share |
| Sonar Sanjaykumar Vanjirao | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Innovative and informative session |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very informative session |
| Dr. Sharon Christa I L | Agree | Strongly agree | Agree | Yes | No | Strongly Agree | Nik |
| Devanand K. Bathe | Strongly agree | Agree | Agree | Yes | Yes | Strongly Agree | Useful information |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | No |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Nafees Ahmed M.Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | |
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
| Mr. H M Gaikwad | Strongly agree | Strongly agree | Strongly Agree | May be | No | Strongly Agree | Goo session |

| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Good session |
|------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|------------------------|
| Harsh Namdev Bhor | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | na |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Bhawana S Dakhare | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
| Dr.Ramesh Solanki | Strongly agree | Agree | Strongly Agree | Yes | No | Strongly Agree | Thank you |
| AMIT NAIK | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | thank you .amit naik |
| Monali Rajput | Agree | Agree | Agree | Yes | Yes | Agree | Good session |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | Best |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | no |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | All sessions excellent |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Strongly Agree | Nil |

List of participants attended DAY6 session Afternoon with feedback Resource Person- Dr. Abhay kshirsagar

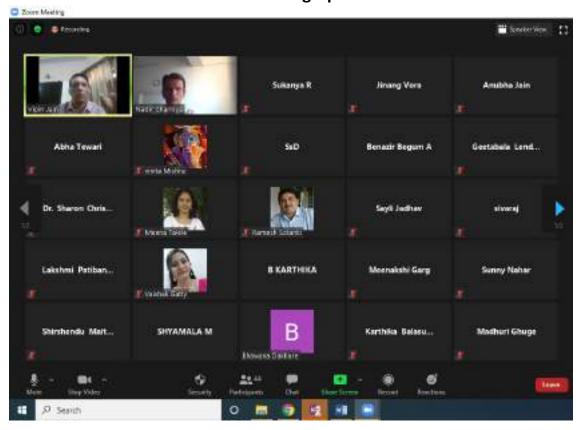
| Name | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Any other comments |
|---------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|-------------------------------|
| P MUTHUMARI | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good |
| Vishakha krantikumar Gaikwad | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Dashrath b kale | Agree | Agree | Agree | No | Yes | Agree | Nil |
| Dr GNANAJEYARAMAN RAJARAM | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very insightful |
| Ramassamy Elangovan | Agree | Agree | Agree | Yes | Yes | Agree | - |
| Nithya Jayakumar | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | no |
| SIVARAJ M | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | |
| SUTHAHAR P | Agree | Agree | Agree | Yes | No | Agree | Very Informative Session |
| Devanand K. Bathe | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent session |
| Dr.Ramesh Solanki | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Thank you |
| Sachin Agrawal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| ASIF RAJA M | Agree | Agree | Agree | Yes | No | Agree | PPT required for all sessions |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | good |
| Sandhya sandeep Deshpande | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Agree | No |
| Harsh Namdev Bhor | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | na |

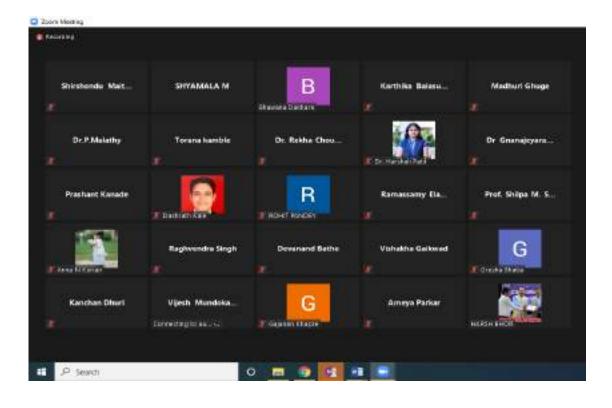
| Prof. Shilpa M. Satre | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | All sessions are very informative |
|---------------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---|
| Er.Manoj S. Kavedia | Agree | Agree | Agree | Yes | No | Agree | All good |
| SHYAMALA M | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Prof. Geetabala Siddharth Lendhare | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative and wonderful sessions |
| Nafees Ahmed M. Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Best Sessions |
| Manish Bhelande | Strongly agree | Agree | Agree | Yes | No | Strongly Agree | Nope |
| Diptee S. Patil | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | |
| Dr. Harshali Parag Patil | Agree | Agree | Agree | Yes | No | Agree | - |
| Nafees Ahmed M.Kazi | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Best organization of program |
| RAGHVENDRA OMPRAKASH SINGH | Strongly agree | Agree | Agree | Yes | Yes | Agree | Best |
| Torana Kamble | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Nil |
| Rahul Tiwari | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | NA |
| Madhuri Ghuge | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Well organised |
| Nazahat Balur | Agree | Agree | Agree | Yes | Yes | Agree | No |
| PRIYA B. PANDHARBALE | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nil |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| B KARTHIKA | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good session |

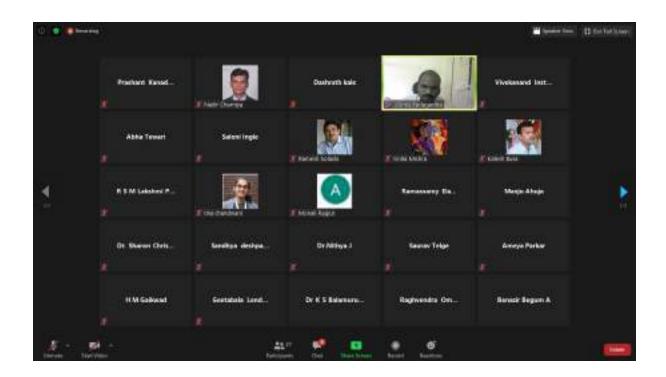
| Mrs Mona Deshmukh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Nice session |
|-------------------------------|-------------------|-------------------|-------------------|-----|-----|-------------------|---------------------------|
| Monali Rajput | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Good session |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Vaishali Gatty | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Great session |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Dr. Rekha Chouhan | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Very Informative session. |
| Ameya Parkar | Agree | Agree | Agree | Yes | No | Agree | No |
| PRABHU R | Agree | Strongly agree | Agree | Yes | Yes | Strongly Agree | No |
| SATHIYAPRIYA T | Agree | Agree | Agree | Yes | Yes | Strongly Agree | Nil |
| Shreya Kurne | Agree | Agree | Agree | Yes | Yes | Agree | Good session |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Tarun Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Anita Dayanand Mhatre | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | No |
| DARSHAN B D | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good |
| Dr. Sushma Jaiswal | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Very informative |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |
| Sanjaykumar Vanjirao Sonar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Informative session |

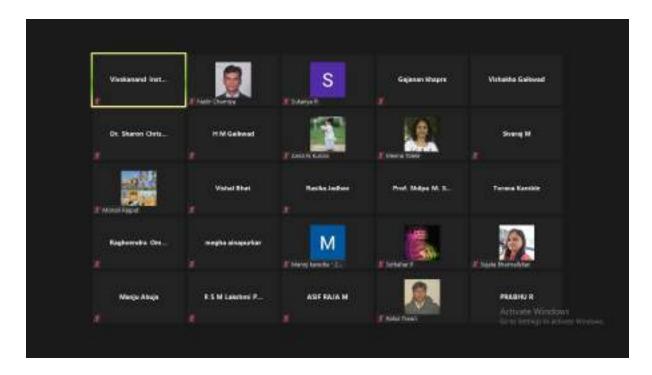
| Mrs.SARIKA ATUL PATIL | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
|-------------------------------|-------------------|-------------------|-------------------|--------|-----|-------------------|---|
| Dr. Sharon Christa I L | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Agree | Please share the recorded videos |
| Prof.Megha Wankhade | Agree | Agree | Agree | Yes | Yes | Agree | No |
| Kanchan Ganesh Dhuri | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | no |
| Prof. Sujata Bhairnallykar | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | Good session |
| Nahar Sunny Suresh | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | No |
| Mr. H M Gaikwad | Agree | Agree | Agree | May be | Yes | Agree | contents were already coved by previous experts |
| Dr K S Balamurugan | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| R S M Lakshmi Patibandla | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Excellent |
| Vijaya Ambadas Dhopte | Agree | Agree | Agree | Yes | Yes | Agree | Thank you |
| Mahesh M. Bulhe | Strongly agree | Strongly agree | Strongly Agree | Yes | Yes | Strongly Agree | Good sessions |
| Manju Ahuja | Strongly agree | Strongly agree | Strongly Agree | Yes | No | Strongly Agree | - |
| Rasika Gajendra Patil | Agree | Agree | Agree | Yes | No | Agree | Nil |
| Dr. Swati Jha | Agree | Agree | Agree | Yes | Yes | Agree | No |

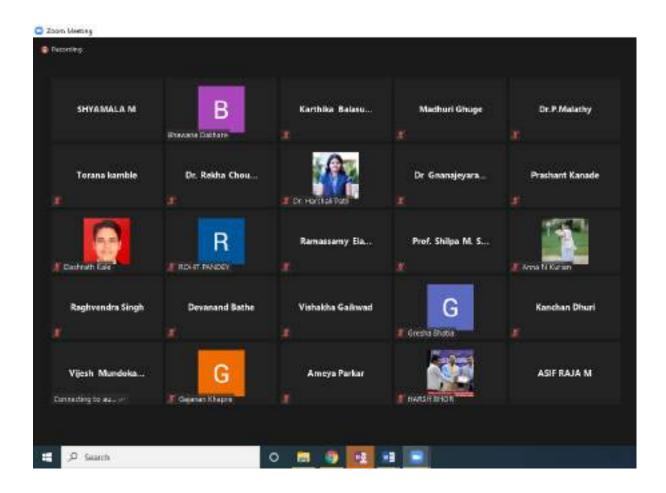
ANNEXURE-VI Grid Photographs

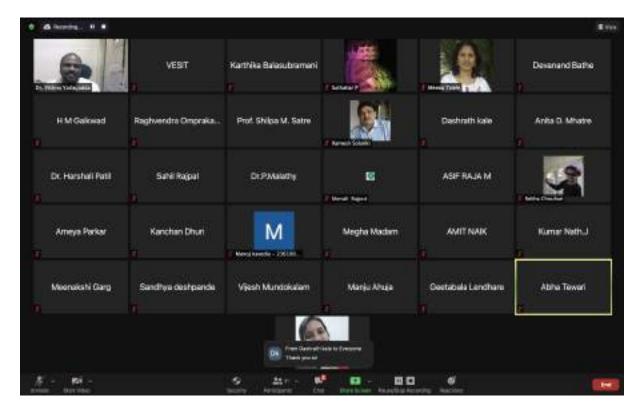












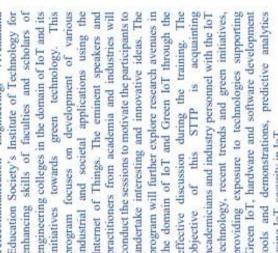
Annexure – VII Sample Copy of Certificate



ANNEXURE-VIII

STTP Brochure







Education Society's Institute of Technology for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its conduct the sessions to motivate the participants to program focuses on development of various practitioners from academia and industries will undertake interesting and innovative ideas. The program will further explore research avenues in the domain of IoT and Green IoT through the providing exposure to technologies supporting Green IoT, hardware and software development academicians and industry personnel with the IoT echnology, recent trends and green initiatives, internet of Things. The eminent speakers ndustrial and societal applications using effective discussion during the training. Engineering, relecommunication nitiatives objective

Vivekanand Education Society's Institute of 'echnology, Chembur, Mumbai 400074

Fechnology (VESIT) established in 1984 is one of the premier engineering colleges affiliated with VESIT offers Bachelors programs in engineering under the VESIT has introduced a new bachelor's degree of PhD centre for Engineering and Technology of University of Mumbai, and also a Lifelong Engineering, Electronics & Telecommunication, Technology and Instrumentation. 2020. In addition to this, VESIT offers Master of Technology and Electronics & Computer program in AI and Data Science from the year in Instrumentation and Control. Computer Applications. VESIT is a recognised Society's Institute Telecommunication streams, and Master Electronics, Mumbai Vivekanand Education streams: University of Learning Centre. Engineering Information Information following

One Week AICTE Sponsored Online STTP on

Department of Electronics and

Telecommunication

Organizing

GREEN INTERNET OF THINGS

(November 23rd to November 28th 2020)

Coordinated by

About Green Internet of Things

Department of Information Technology Department of Computer Engineering

Department of Master of Computer

Applications

Internet of things (IoT) applications forecast to Short Term Training Program (STTP) on Green loT is impacting every aspect of our lives from white goods appliances are also increasingly carefully monitored by smart gateways at home and appliances can be remotely controlled. This is being organized by have 50 billion connected devices by the end of 2020. IoT promises to connect all industrial and consumer appliances to cloud service providers. wearable devices such as fitness bands and smart watches to personal health care monitors. IoT devices are making us connected. Homes and becoming IoT edge node candidates. The Smart Home concept where energy consumption is

(In Association with VESIT IQAC & IIC)

V. E. S. Institute of Technology, Hashu Advani Memorial Complex, R. C. Marg, Collector's Mumbai - 400 074, (Maharashtra) Colony, Chembur,

Phone- (022)61 532 532 Fax- (022) 61 532 555 ittp://www.vesit.ves.ac.in E-mail: vesit/a/ves.ac.in

105

Resource Persons:

Resource persons will be eminent personalities From academia and industries.

Registration Fee:

The course is FREE

Who can attend?

Faculty from AICTE approved Engineering Institutes (Degree/ Diploma) & MCA institutes Industry Representative

Registration Link: https://forms.gle/9on8tjs/7bXHqK1OA Felegram Channel Link: https://t.me/sttp_green_IOT

For enquiries contact:

E-Mail: giot.phaseii@ves.ac.in

Patrons:

Vivekanand Education Society. Shri B. L. Boolani, President.

Principal, VESIT

Dr. (Mrs.) J. M. Nair,

Dr. (Mrs.) M. Vijayalakshmi,

Vice Principal, VESIT Mrs. Shoba Krishnan,

Head of Department, Computer Engineering. Head of Department, EXTC Dr. (Mrs.) Shalu Chopra Dr.(Mrs.) Nupur Giri

Head of Department, Information Technology Dr. Shiv Kumar Goel

Master of Computer Applications. Head of Department

Program Evaluation Committee

Dr. (Mrs.) J. M. Nair, Principal Chairperson

Dr. (Mrs) M. Vijayalakshmi, Vice Principal Member)

Dr. Nadir Charniya, Prof. EXTC,

STTP Coordinator (Member Secretary) Mrs. Shoba Krishnan, Head EXTC

Member)

Dr. P. P. Vaidya, Dean, R and D (Member)

Mrs. Kavita Tewari, Head ETRX Member)

Dr. Ramesh Kulkarni, Deputy Head EXTC Member)

STTP Coordinator

Dr. Nadir Chamiya, Professor, EXTC Email: nadir.charniya@ves.ac.in Mob: +919764996706

Advisory Committee

Director (FDC), AICTE, New Delhi Adviser, RIFD, AICTE, New Delhi Prof. D. N. Malkhede. Col. B. Venkat.

Organising Committee

Ms. Sukanya Roychowdhury, Info Tech Mr. Prashant Kanade, Computer Engg Mrs. Vinita Mishra Info. Technology Mrs Meenakshi Garg, Dept of MCA Mrs Abha Tewari, Computer Engg Mrs Vaishali Gatty, Dept of MCA Mr Sunny Nahar, Dept of MCA

nstructions to Participants:

The faculty members who are willing to join this program

internet pood connection and Gmail account. with Laptop/Desktop

Every participant must register by filling up the online form and join telegram channel thereafter.

All communications will be on Telegram

institution/ college name and e-mail ID Fill the Google registration form carefully name, vour before submission. check 4

Last Date to fill the registration form is 19th November, 2020. vi

2 communicated to the registered e-mail ID registration will by 20th November 2020 Confirmation of 9

Participants need to attend daily online sessions at the scheduled time.

It is mandatory to fill up the feedback orms.

Online Test, based on all the topics discussed during the program will be 40% score necessary for certification. conducted. Minimum 6

AICTE certificates will be provided on participants' e-mail ID. 10

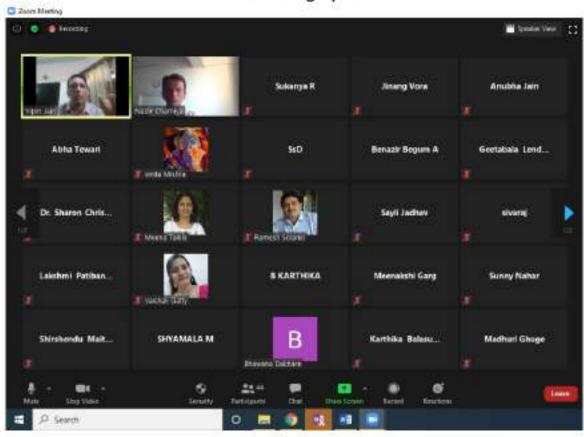


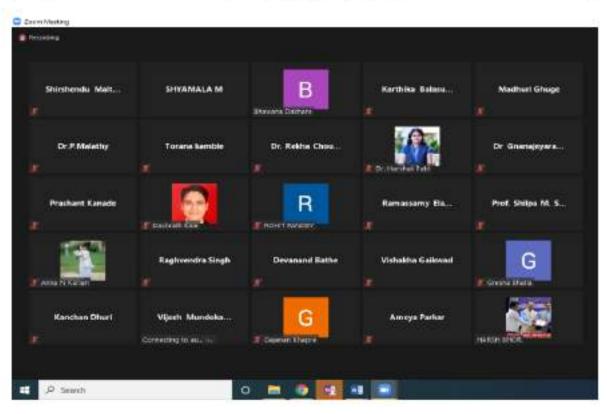
Go 1

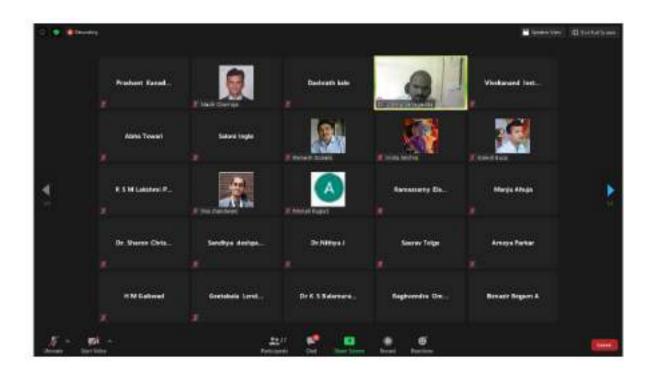
Course material provided by the experts and recording of sessions enclosed herewith in CD/DVD.

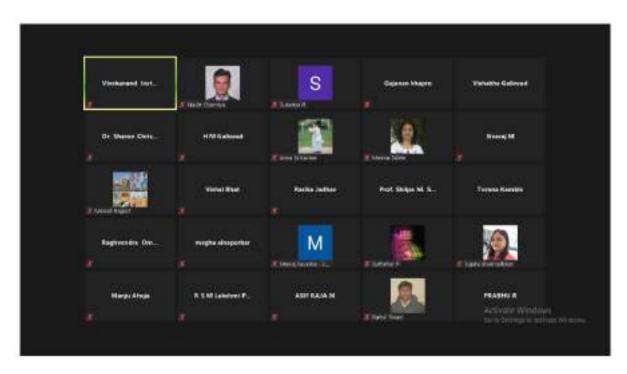
STTP on Green IoT--Phase II Photographs

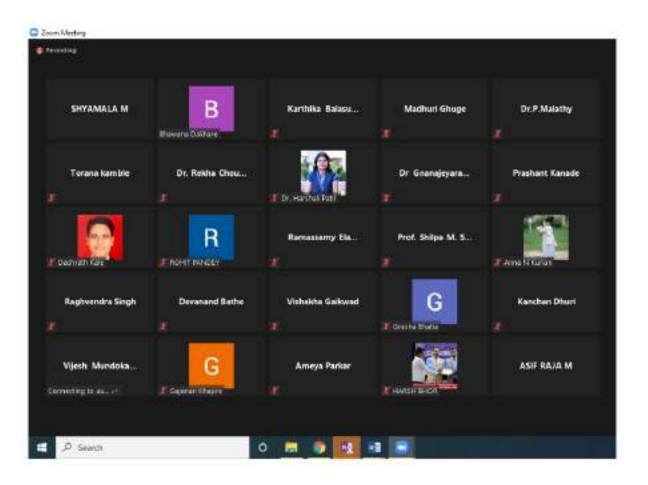
Grid Photographs













Vivekanand Education Society's Institute of Technology, Chembur, Mumbai

AICTE SPONSORED ONLINE STTP







Department of Electronics & Telecommunication Engineering in Collaboration with Department of Electronics Engineering and

Department of Instrumentation Engineering

(In Association with VESIT IQAC & IIC)

Organizes
One Week AICTE Sponsored
Online STTP

on

Green Internet of Things Phase -III

(7th to 12th December, 2020)

V. E. S. Institute of Technology.

Hashu Advani Memorial Complex, R. C. Marg, Collector's Colony,

Chembur, Mumbai – 400 074 Phone: 022 – 61 532 532/500

Fax: 022 – 61 532 555 Email: vesit@ves.ac.in Website: https://vesit.ves.ac.in **About VESIT**

Vivekanand Education Society's Institute of Technology (VESIT) established in 1984 is one of the premier engineering colleges affiliated with the University of Mumbai. VESIT offers Bachelors programs in engineering in the following streams: Electronics, Electronics & Telecommunication, Computer, Information Technology, Instrumentation and Artificial Intelligence & data science.

In addition, VESIT offers Master of Engineering in Instrumentation & Control, Information Technology and Electronics & Telecommunication streams. VESIT also offers post graduate course in Master of Computer Applications. VESIT is a recognised Ph.D. Center for Engineering and Technology of University of Mumbai. VESIT has recognised as Lifelong Learning Center by the University of Mumbai.

About Green Internet of Things

The Internet of Things (IoT) has been envisaged to describe a number of technologies and research areas that enable global connectivity of physical objects. Enabling technologies like Radio-Frequency Identification (RFID), sensor networks, biometrics, nanotechnologies and factory automations are now becoming very common, bringing the IoT into real implementations. This addresses varying applications, including smart grid, e-health, smart factories and intelligent transportation etc. Green IoT networks will contribute to reducing emissions and pollutions. environmental exploiting conservation surveillance, and minimizing operational costs and power consumption.

This Short Term Training Program (STTP) on Green Internet of Things Phase-III is being organized by Department of Electronics and Telecommunication Engineering, in association with the department of Electronics Engineering and Instrumentation Engineering, Vivekanand Education Society's Institute of Technology for enhancing skills of faculty and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology.

The Green Internet of Things (G-IoT) is predicted to introduce significant changes in our daily life towards the vision of "green ambient intelligence". Within few years, we will be surrounded by a massive amount of sensors, devices. and "things," which will be able to communicate via 5G, act "intelligently." and provide green support for users in managing their tasks. These new smart objects will also be context-aware and able to perform certain functions autonomously, calling for new forms of green communication between people and things and between things themselves, where power consumption is optimized and handwidth utilization is maximized. This development would be relevant not only to researchers, but also to corporations and individuals alike. Considering these facts. the aim of this STTP is to focus on both theoretical and implementation aspects in networks that can be utilized in providing green systems through IoT enabling technologies.

Course Objective

The objective of this STTP is acquainting academicians and industry personnel with the IoT technology, recent trends and green initiatives, providing exposure to technologies supporting Green IoT, hardware and software development tools and demonstrations, predictive analytics using IoT, security in IoT.

Course Contents

- Introduction to IoT
- ❖ IoT Architecture
- Concepts of Green IoT
- IoT Protocols
- Wireless Sensor Network for IoT
- Details of IoT Simulators
- Cloud computing for IoT
- Open Source platform for IoT
- IoT Analytics
- ❖ IoT Security and Privacy Issues
- ❖ IoT Standards and Legislation
- Green IoT Applications
- Hands-on sessions

STTP on Green to I Phase-3 Brochure

Resource Person:

The speakers would be eminent personalities from academia and industries.

Registration Fee:

STTP Course is Free

Last date of Registration:

25th November, 2020

Who can attend?

Faculty from AICTE approved Engineering Institutes (Degree/ Diploma) & MCA institutes Industry Representative.

Registration Form Link:

https://forms.gle/4EwNXgiQWvmJB7ds9

Telegram Channel Link:

https://t.me/joinchat/OBqOxEa5O50FvGuPRb-FGA

For enquiries contact:

Dr. Abhay Kshirsagar Mob: +919821686947

Email: abhay.kshirsagar@ves.ac.in

Mr. Kader Shaikh Mob: +919833191909

Email: kader.shaikh@ves.ac.in



Patrons:

Shri .B. L. Boolani, President, VES Trust

Dr. (Mrs.) J. M. Nair, Principal, VESIT

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT

Mrs. Shoba Krishnan, Head, EXTC

Dr. P.P.Vaidya, Head, INST and Dean R & D

Mrs. Kavita Tewari, Head, ETRX

STTP Coordinator:

Dr. Nadir Charniya, Professor, EXTC

Program Evaluation Committee for the STTP:

Dr. (Mrs.) J. M. Nair, Principal (Chairperson)

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal (Member)

Dr. Nadir Charniya (Member Secretary)

Mrs. Shoba Krishnan, Head, EXTC (Member)

Dr. P.P.Vaidya, Head, INST and Dean R & D (Member)

Mrs. Kavita Tewari, Head, ETRX (Member)

Dr.Ramesh Kulkarni, Deputy Head, EXTC (Member)

Advisory Board for the STTP:

Col.B.Venkat, Director (FDC), AICTE, New Delhi Prof.D.N.Malkhede, Advisor, RIFD, AICTE, New Delhi.

Course Coordinator:

Dr.Abhay Kshirsagar, Associate Professor, ETRX Mr.Kader Shaikh, Assistant Professor, INST

Organizing Committee:

Mrs. Naveeta Kant, Deputy Head, ETRX

Mrs.Sangeetha Prasanna Ram, Deputy Head, INST

Mrs. Madhumati Khuspe, Assistant Professor, INST

Mr. Yogesh Pandit, Assistant Professor, ETRX

Mrs. Sarika Kuhikar, Assistant Professor, ETRX

Mrs. Jayashree Ramakrishnan, Assistant Professor, INST

 $Mrs.\ Mugdha\ Joglekar,\ Assistant\ Professor,\ INST$

Mrs. Amrita Jhaveri, Assistant Professor, ETRX

Mrs. Namrata Bonde, Assistant Professor, INST

Mrs. Anushree Prabhu, Assistant Professor, ETRX

Instructions to Participants:

The person willing to join this program need to have the following basic requirements:

- ❖ Laptop/Desktop with good internet connection and Gmail account.
- ❖ Telegram App should be installed on mobile. Zoom App, Google App, Google Meet, MS Teams should be installed on a Laptop/Desktop.
- Every participant must register by filling up the online form and join telegram channel thereafter
- All communications will be on Telegram channel
- ❖ Fill the Google registration form carefully and check your name, university/ institution/ college name and e-mail ID before submission.
- No correction in the certificate will be done due to incorrect information provided in the registration form.
- ❖ Last Date to fill the registration form is 25th November, 2020.
- ❖ Confirmation of registration will be communicated to the registered e-mail ID by 2nd December, 2020.
- Participants need to attend daily online sessions at the scheduled time.
- It is mandatory to fill up the feedback forms.
- Online Test, based on all the topics discussed during the program will be conducted. Minimum 40% score is necessary for certification.
- ❖ AICTE certificates will be provided on participants' e-mail ID.







Proceedings of

One Week AICTE Sponsored Online STTP

On

GREEN INTERNET OF THINGS

(PHASE-III)

From 7th Dec to 12th Dec, 2020

Organized by:

Department of Electronics & Telecommunication

In Collaboration with

Department of Electronics Engineering and

Department of Instrumentation Engineering

In Association with IQAC and IIC

Vivekanand Education Society's Institute of Technology Hashu Advani Memorial Complex, Collectors Colony

Chembur (East), Mumbai – 400 074

INDEX

| ANNEXURE-IV: Final feedback with Score of Online Test and Test Questions | Foreword | 1 |
|--|--|----|
| Green IoT: Course Objectives and Outcomes | Preface | 2 |
| Speakers and their Profile | Program Committees | 4 |
| Inauguration | Green IoT: Course Objectives and Outcomes. | 6 |
| Inauguration | Speakers and their Profile | 7 |
| Valedictory | | |
| ANNEXURE-I: List of Qualified Participants 25 ANNEXURE-II: List of Experts, Affiliation, and Topics 28 ANNEXURE-III: STTP Schedule 29 ANNEXURE-IV: Final feedback with Score of Online Test and Test Questions 30 ANNEXURE-V: Session-wise Attendance and Feedback 41 ANNEXURE-VI: Grid Photographs 93 ANNEXURE-VII: Copy of Sample Certificate 95 | Session-wise Summary. | 17 |
| ANNEXURE-II: List of Experts, Affiliation, and Topics | Valedictory | 24 |
| ANNEXURE-III: STTP Schedule | | |
| ANNEXURE-IV: Final feedback with Score of Online Test and Test Questions | ANNEXURE-II: List of Experts, Affiliation, and Topics | 28 |
| ANNEXURE-V: Session-wise Attendance and Feedback 41 ANNEXURE-VI: Grid Photographs 93 ANNEXURE-VII: Copy of Sample Certificate 95 | ANNEXURE-III: STTP Schedule | 29 |
| ANNEXURE-VI: Grid Photographs 93 ANNEXURE-VII: Copy of Sample Certificate 95 | ANNEXURE-IV: Final feedback with Score of Online Test and Test Questions | 30 |
| ANNEXURE-VII: Copy of Sample Certificate95 | ANNEXURE-V: Session-wise Attendance and Feedback | 41 |
| | ANNEXURE-VI: Grid Photographs | 93 |
| ANNEXURE-VIII: STTP Brochure | ANNEXURE-VII: Copy of Sample Certificate | 95 |
| | ANNEXURE-VIII: STTP Brochure | 96 |
| | | 7 |
| | | 10 |
| | | |
| | | |
| | A CONTRACTOR OF THE PARTY OF TH | |
| | | |

FOREWORD



I am very much delighted to know that our departments of Electronics Engineering and Department of Instrumentation Engineering in association with Electronics and Telecommunications Department are arranging an AICTE sponsored Faculty Development Program on "Green Internet of Things". As all of you know, IOT has the potential to revolutionize the world, similar to what internet did earlier. It can be considered as a facilitator of 'Smart World' which connects devices with unique addresses to interact with each other and with outside world. i.e. It enables physical objects to see, hear, think and perform jobs by having them talk to each other, to share information and co-ordinate decisions. The applications are of mainly three kinds, IOT for Consumers, IOT for Enterprises and IOT for process industries (IIOT). Alexa, Wearable device used by miners, and Smart grid falls under these categories respectively. Green IOT targets 'sustainable smart world' by reducing energy consumption of the IOT devices and processes. It envisages the practice of designing, manufacturing, using, and disposing of computers, servers, and associated sub systems, and networking and communications systems efficiently and effectively with minimal or no impact on the environment.

I am very happy to note that the technical experts from industries, such as, Siemens Ltd, Radisys India, Panache Digilife Ltd, and Tarana Wireless, and researchers from academia are sharing their expertise in this workshop. Hope that the participants of this workshop will make full use of this golden opportunity, and initiate, IOT related projects in their respective educational institutions leading to tangible research in this interdisciplinary, emerging area.

Dr. (Mrs) J. M. Nair

PRINCIPAL, VESIT

PREFACE



Phase-III of the AICTE sponsored online training program on *Green Internet of Things* has been organized by Department of Electronics and Telecommunication Engineering, in collaboration with dept. of Electronics Engineering, and dept. of Instrumentation Engineering, in association with IQAC and IIC, of Vivekanand Education Society's Institute of Technology for enhancing skills of faculties and scholars of engineering colleges in the domain of IoT and its initiatives towards green technology.

Internet of Things (IoT) is a system of interconnected devices, things or sensors over the internet. This network is growing exponentially due to demand of smart consumer appliances, wearable devices, smart home, industrial devices, cloud services and many. This has opened up new challenges and research majorly in managing the energy resources for IoT, and energy efficiency by various means.

'Green IoT' is the initiative and concept motivated by achieving a low power consumption IoT. Green IoT is possible by using Ultra low power consumption hardware, Software algorithms and protocols to minimize power consumption, Using unconventional energy resources, Smart grids, Designing IoT itself for minimizing power consumption and many.

The STTP would provide various concepts, theory, and practical demonstrations on IoT, and Green initiatives to IoT.

The eminent speakers and practitioners from academia and industries are conducting the sessions and demonstrations to motivate the participants to undertake interesting and innovative ideas. The program helps to explore research avenues in the domain of IoT and Green IoT through the effective discussion during the training.

Short Term Training Program on 'Green Internet of Things'

We express profound sense of gratitude towards AICTE for Sponsoring Training Program on

Green Internet of Things and also giving the opportunity to conduct it online due to COVID

crisis.

We are grateful to AICTE, New Delhi and dignitaries from AICTE for the funding the STTP and

guidance received. Special thanks to the experts invited for the sessions, Dr. J. M. Nair

Principal, VESIT, Dr. M. Vijayalakshmi, Vice Principal VESIT, Prof. Shoba Krishnan Head,

Electronics and Telecom Dept, Prof. Kavita Tewari, Head, Electronics Engineering Dept, Dr. P.

P. Vaidya, Dean R & D and Head, Instrumentation Engineering Dept, Program Evaluation

Committee members, the STTP team and the PAN India participants.

I am confident that the sessions, hands-on, and demonstrations during the training will be an

invaluable experience and add-on to the learnings to carry out concrete research.

Dr Nadir Charniya

Course Coordinator

Prof. Electronics and Telecom, VESIT

3

PROGRAM COMMITTEE

Patrons:

Shri B. L. Boolani, President, VES Trust

Dr. (Mrs.) J. M. Nair, Principal, VESIT

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT

Prof. Shoba Krishnan, Head, Electronics and Telecom Dept.

Prof. Kavita Tewari, Head, Electronics Engineering Dept.

Dr. P. P. Vaidya, Dean R & D and Head, Instrumentation Engineering Dept.

Program Evaluation Committee for the STTP:

Dr. (Mrs.) J. M. Nair, Principal (Chairperson)

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT (Member)

Dr. Nadir Charniya, STTP Coordinator (Member Secretary)

Prof. Shoba Krishnan, Head Electronics and Telecom Dept (Member)

Dr. P. P. Vaidya, Dean R & D and Head, Instrumentation Engineering Dept (Member)

Prof. Kavita Tewari, Head, Electronics Dept (Member)

Dr. Ramesh Kulkarni, Deputy Head Electronics and Telecom Dept (Member)

Course Coordinator:

Dr. Nadir Charniya, Professor, Electronics and Telecom Dept

Advisory Committee

Prof. D. N. Malkhede. Adviser, RIFD, AICTE, New Delhi

Col. B. Venkat. Director (FDC), AICTE, New Delhi

Technical Coordinators

Dr. Abhay Kshirsagar, Associate Professor, Electronics Engineering Dept.

Mr. Kader Shaikh, Assistant Professor, Instrumentation Engineering Dept.

Organizing Committee:

Mrs. Naveeta Kant, Deputy Head, Electronics Engineering Dept.

Mrs.Sangeetha Prasanna Ram, Deputy Head, Instrumentation Engineering Dept.

Mrs. Madhumati Khuspe, Assistant Professor, Instrumentation Engineering Dept.

Mr. Yogesh Pandit, Assistant Professor, Electronics Engineering Dept.

Mrs. Sarika Kuhikar, Assistant Professor, Electronics Engineering Dept.

Mrs. Jayashree Ramakrishnan, Assistant Professor, Instrumentation Engineering Dept.

Mrs. Mugdha Joglekar, Assistant Professor, Instrumentation Engineering Dept.

Mrs. Amrita Jhaveri, Assistant Professor, Electronics Engineering Dept.

Mrs. Namrata Bonde, Assistant Professor, Instrumentation Engineering Dept.

Mrs. Anushree Prabhu, Assistant Professor, Electronics Engineering Dept.

GREEN IOT

Course Objectives:

- 1. Acquainting participants with the technology of Internet of things (IoT) and exposure to recent trends in IoT.
- 2. Introducing and exploring the technologies supporting Green IoT
- 3. Exposure to security and privacy in IoT and Green initiative.
- 4. Demonstrating Hardware and Software platforms and tools for IoT.
- 5. Providing exposure and demonstration on IoT applications and Artificial Intelligence (AI) based predictive analytics using IoT.

Course Outcomes:

On completion of the course participants will be expected to:

- Have good understanding of IoT Technology, emerging trends in IoT and various concept and features of Green IoT technology.
- 2. Comprehend and apply different hardware and software tools used for implementation of IoT.
- 3. Have good understanding of cloud platform for IoT, security and privacy in IoT, and Green initiatives towards IoT.
- 4. Apply predictive data analytics with the fusion of AI and IoT using Cloud and programming in python.
- 5. Develop IoT applications with the aid of IoT tools and AI tools.

SPEAKERS AND THEIR PROFILE

Mr. Dhananjay Jadhav (Senior Technical Consultant, Siemens Ltd, Mumbai)



Mr. Dhananjay Jadhav is serving as a Senior Technical Consultant in Siemens Ltd. He is working in Siemens for over nine years in the field of factory automation, products and providing consultancy in various domain like Automotive , W&WW, Pharma, F&B OEM market etc. in view of automation, digitalization and edge technology implementation .

Mr. Shashank Karmarkar (Solution Architect Radisys India, Mumbai)



Mr. Shashank Karmarkar is purely a Telecom professional. He worked with companies like BPL mobiles, Reliance communication, and Huawei India. He also worked in network planning,

deployment, operation of CDMA/2G/3G/4G/IOT. He has around 22 Years of experience. Currently he is working as Solution Architect in Radisys India, Mumbai

Mr. Nishant Singh (Technical Trainer, Mumbai)



Mr. Nishant Singh, Technical Trainer & Patent Holder for 'Home Aquarium Monitoring System'. He is a Technical expert and a passionate trainer having vast experience in Research & Development, Technical Training and Project Management. He has a proven work record of delivering more than 200 workshops and Technical Training in various technologies and domains including IITs, NITs and other premier educational organizations.

Prior to this, he has worked with Kaizen (UAE), Saudi Arabia, Dubai & Abu Dhabi. There he trained participants on Internet of Things for data analytics using MQTT protocols and AWS, Robotics & 3D printing. He has also trained Siemens employee on applications of IoT and data analytics in automation. He has conducted one week Faculty Development Program on Python, Internet of Things and its integration with AWS, and machine learning at various engineering colleges under Mumbai University.

Mr. Amit Rambhia (Chairman and Managing Director— Panache Digilife Ltd, Mumbai)



Mr. Amit Rambhia with over 25 years of experience in innovation. His dedication and hard work is an inspiration to many new entrepreneurs and has instrumented his success in the field of business. He is an accomplished MBA – IIM Indore with Bachelor's Degree in Computer Science from University of Mumbai. He is passionate about making Panache Digilife a world class, competitive and internationally recognized company. Mr. Amit always had a passion for technology. He ventured into ICT hardware business in 1993 while he was in second year engineering at VESIT, Mumbai. It started as a computer assembly business and soon it moved into white box manufacturing for innovative computing systems. He was the first to bring Small Form Factor computers into India. From there on, there has been no looking back; Company has continuously added innovative products to its portfolio under their brand Panache. The company is now focusing on IOT & ICT devices and solutions. Mr. Amit has made Panache Digilife a versatile Product Design to Manufacturing Enterprise with the ability to bring original concepts and ideas into series of production. The company provides cost effective electronic manufacturing solutions adhering to highest standard of service, delivery and quality. It has ability to produce complex products at affordable costs with the use of innovative technology skills. Under the robust leadership of Mr. Amit the Company has been recognized by several awards like CRN Excellence Award for Big Data & Analytics, Intel IoT Group Partner Award, Edge Innovation Award, SME National Award for Excellence in IT, CRN Best System Builder, Intel Embedded Hero award and accolades for the kind of innovations they have made. Mr. Amit has recently been recognized amongst The Most Influential Marketing Leader by The World Marketing Congress. With his vision and dedication, the company has been listed on the NSE (NSE Symbol: PANACHE) Platform on 25th April 2017, with name "PANACHE DIGILIFE LTD." The company's vision of "Making Human Life Easy" has led to contribute them towards the Digital India reforms and are front runners in "Make In India" campaign.

Dr. Y. S. Rao (Vice Principal, Sardar Patel Institute of Technology, Mumbai)



Dr. Y. S. Rao has 30 years of vast experience in Engineering, Research and Consultancy. He is working as Professor, Head of Dept. and Vice Principal at SPIT Andheri, Mumbai. He has done Master's in Electronics Engineering in 1997 and Ph.D. (ES) from IIT Bombay in 2010. He has completed various funded as well as consultancy projects in India and abroad and guiding 7 candidates for their Ph.D. research work.

He has carried responsibilities in the capacity of Board of Studies, Local Managing Committee, and member of MPSC and member of LIC committee of Univ. Of Mumbai and also has been awarded and recognized by IEEE Computer Society. He has patents to his credit along with more than 80 research publications.

Dr. Saurabh N. Mehta (Chief academic officer and Professor, VIT, Mumbai)



Dr.Saurabh N. Mehta has more than 18 years of professional, research, and teaching experience in wireless system development all together. He is currently working as a chief academic officer and professor in the department of electronics and telecommunication at Vidyalankar Institute of Technology, Mumbai.

He is responsible for integrating academia and industry collaboration, research program, planning, and educational training for Vidyalankar institute of technology, Mumbai. He holds B.E., M.S., and PhD. degrees in Electronics Engineering from Mumbai University, Mumbai, India, Ajou University, South Korea, and Inha University, South Korea, in 2002, 2005, and 2011, respectively.

He has over 75 research articles published in books, journals, national and international conferences, and several technical contributions to IEEE standards. He has been a reviewer, technical committee member, and editorial board for many international/national conferences and journals. Currently he is also serving as TPAC at IEEE Bombay Section. He has won several prizes for the technical papers and projects. He is member of many international and national professional organizations including fellow of IETE, Senior Member of IEEE, Senior Life Members of CSI, Senior Member of IACSIT, Singapore, life members of ISTE to name a few. He has also released course on IoT and Sensor network in public domain to contribute in skill/digital India initiative.

His research interests are Wireless Networks, RF-ID Technology, Ubiquitous Computing, Game Theory, and Educational Technology. He is also running his own "Sun Wireless

Technologies", a consultancy firm in the area of embedded System, wireless technology, education, and technical market research. Beside technology he loves to spend his time in watching movies, reading books and educating people about HAM Radio.

Dr. Abhay Kshirsagar (Asso. Professor, V.E.S Institute of Technology, Mumbai)



Dr. Abhay Kshirsagar is Ph.D in Electronics Engineering from Nagpur University. He has over 21 years of experience in teaching as well as in Research Areas. His areas of interest includes Wireless Sensor Networks, Embedded Systems and Internet of Things. Currently, he is serving as Asso. Professor in Vivekanand Education Society's Institute of Technology, Mumbai.

Dr. Anjali Yeole (Asst. Professor, V.E.S Institute of Technology, Mumbai)



Dr. Anjali Yeole is currently serving as an Assistant Professor, in Vivekanand Education Society's Institute of Technology (VESIT), Mumbai University, Mumbai, India. She is Ph.D from University of Mumbai. She has published various research papers in international journals and international conferences including IEEE, ACM, Springer and peer reviewed journals. She co-

authored two books "Information Management" and "Internet of Everything". She has reviewed many papers for conferences and journals. She has reviewed two books "Computer Organization and Architecture" and "Internet of Things" by Shriram K. Vasudevan, Abhishek S. Nagarajan, and R. M. D. Sundaram". She is a Staredu certified IoT trainer. She has completed Microsoft Certification for "Cryptography and System Security". Her areas of interest are IoT, Distributed Computing, Cloud Computing, System Security and Web Technology. She has also delivered and conducted workshops, seminars and expert talks. She has patented innovative idea for her research work.

Mr. Gopalakrishnan N. (Asst. Prof. V.E.S Institute of Technology, Mumbai)



Prof. Gopalakrishnan Narayan has 5 years of industry experience consulting companies like BARC, L & T and SME's and 12 years of Teaching experience. Currently he is serving as Assistant Professor in Instrumentation department, VESIT, Mumbai.

He has done masters from Mumbai University. He has expertise in embedded system, signal conditioning and IoT technologies

Mr. Anurag Chugh (Sr. Syst SW Engineer, Tarana Wireless, Pune)



Mr. Anurag Chugh is an Electronics engineer, currently working as Senior Systems Software Engineer at Tarana Wireless, Pune, developing the next generation of fixed wireless networking devices with beamforming capabilities for the telecom sector.

Before this, he has worked in RLARD as one of the founder directors, where they manufactured dental loupes and LED headlamps under the brand name Ergoptix. Prior to that he was with Greenvity Communications's India Development Centre (Pune), India as a Senior Software Engineer, developing embedded software (linux kernel modules) for power line communications. Before that, he has also served at TCS (Tata Consultancy Services) as an I.T. analyst, where he was part of team which developed embedded software for Automotive Infotainment Systems.

Prior to that, Mr. Anurag Chugh worked for Laboratory for Applied Research in Electronics in Navi Mumbai, India, where he spearheaded the development of a modular prototyping system for students and professionals called <u>UNIBlocks</u>. These modules can be used to quickly assemble and test proof-of-concept prototypes for new embedded systems designs. They are sort of like LEGO Bricks for Embedded Systems. Mr. Anurag Chugh started his career from L& T Technology Services as a Systems Engineer.

Dr. Nadir N. Charniya (Professor, V.E.S Institute of Technology, Mumbai)



Dr. Nadir N. Charniya, is serving as Professor, Dept of Electronics and Telecom Engineering, Vivekanand Education Society's Institute of Technology, Chembur, Mumbai. He is doctorate in Electronics Engineering with specialization in Design of Intelligent Sensors using Neural Networks Approach. He more than 30 years teaching and research experience. He has published more than 50 research papers including IEEE transactions and Journals, Elsevier Journals, Springer book chapters and international conferences.

He has two patent to his credit. He has been awarded First Prize for his Ph.D. research in the Inter-University Research Exhibition "AVISHKAR-2008". He has received various Grants from AICTE, Universities, DST, TEXAS Instruments. Coordinated Research and Consultancy Projects. His projects guided to students received awards including First Prize in I.S.T.E.s' Maharashtra State Engineering Design Award. He has been invited to conduct workshops and as resource person in the domain of Neural Networks, Intelligent Sensors, Matlab and other fields at numerous institutions. He has organized numerous Workshops, AICTE-ISTE Training Programs, and Conferences. He is reviewer of IEEE, Elsevier Transactions/ Journals and Conferences.

INAUGURATION

Inauguration of one week AICTE sponsored online short term training programme on 'Green Internet of Things (Phase-III)' organized by Department of Electronics and Telecommunication Engineering in collaboration with Department of Electronics Engineering and Department of Instrumentation Engineering was conducted on 7th Dec. 2020. The program was organized in association with VESIT- Internal Quality Assurance Cell and Institution's Innovation Council. The function began in presence of dignitaries and guests with lighting the digital lamp in front of Maa Saraswathi and Lord Ganesha.

Dignitaries and guests for the inauguration function included Dr. (Mrs.) J. M. Nair, Principal (VESIT), Dr. (Mrs) M. Vijayalakshmi, Vice Principal (VESIT), Prof. Shoba Krishnan (Head, Electronics and Telecom Dept., VESIT), Prof. Kavita Tewari (Head, Electronics Engineering Dept), Dr. P.P. Vaiya, (Head, Instrumetation Engineering Dept), PEC members, and the participant. The session moderator Ms Anushri Prabhu welcomed the dignitaries and guests, and expressed gratitude towards AICTE for sponsoring the Short-Term Training Program.

Course Coordinator, Dr. Nadir Charniya, Professor from Department of Electronics & Telecommunication gave the course overview. He mentioned that about 200 PAN India participants from Tamilnadu, Andhra Pradesh, Telangana, Karnataka, Gujarat, UP, MP, Jharkhand, Haryana etc. registered online, 82 were shortlisted based on AICTE approval of Institute and stream of participants. 78 gave confirmation for attending the course. After the course overview Dr. (Mrs.) J. M. Nair, Principal, VESIT addressed the gathering mentioning the significance of IoT in every field of engineering and research. She thanked AICTE for sponsoring the programs and enabling to conduct three training programs online. She gave best wishes to the learnings and proceedings of the STTP. She also advised to take the benefit of the training and implement some interdisciplinary projects further that would help the society at large.

Further, audience were addressed by Prof. Kavita Tewari (Head, Electronics Engineering Dept., VESIT). She motivated the participants by mentioning the potential of IoT to solve the challenging real world problems; and suggested take innovative projects in the domain of IoT. The function concluded with vote of thanks.

SESSION-WISE SUMMARY (Day 1 to Day 6)

Day-1, 7th December 2020

Dr. Abhay Kshirsagar, Associate Professor, Department of Electronics Engineering, VESIT, Mumbai, was the speaker for the session-1 on Day-1. Session 1 started with Introduction to IoT and some aspets of Green IoT. IoT refers to Internet technology for connecting devices, machines and tools by means of wireless technologies. Things connected to the internet are projected to cross 20 billion in the near future. It also represents unification of technologies, such as, low power embedded systems, cloud computing, Big Data, machine learning and networking.

Dr. Kshirsagar explained about the importance of Green IoT in today's scenario. Energy efficiency optimization of IoT objects and principles that leads to Green IoT. He also discussed about different IoT Application areas such as Energy management, Smart Agriculture, Smart Industry & Smart City. Different IoT characteristics, physical design of IoT were dealt in details further. He then explained about different IoT protocols, such as, Publish Subscribe Communication Protocol, MQTT protocols, etc., followed by six different IoT levels and 10 steps in IoT Design Methodology. He then explained about Wireless Sensor Networks and its crucial application in human health monitoring.

Session-2 in the afternoon was conducted by Dr.Y.S. Rao, Professor, Department of Electronics Engineering, Sardar Patel Institute of Technology, Mumbai. The topic of his talk was 'Classification of IoT: A case study on Biomedical Engineering'. He emphasized on how the new normal due to the pandemic has affected us and how it directly or indirectly affects IoT industry. He quoted the example of thermal sensors and its use during pandemic for social distancing based human temperature measurement, whereas before it was only used for measurement of temperature of boilers in industries. He explained on how a simple physics based phenomenon which was the idea behind invention of BLUE LED and how it has changed the things for the engineering industry.

He then spoke about different disruptive technologies and its impact on Product Life Cycle, & characteristics of successful Product Development. He briefed about classification of IoT

applications based on Constraints- such as Life critical, Business Critical, Mission critical applications, etc. Thereafter, he dealt about Bio-medical signals processing and its applications in IoT. He concluded by saying "Technology has to be wisely chosen based on its applications".

Day-2, 8th December 2020

Dr. Anjali yeole, Assistant Professor, Department of computer science Engineering, VESIT delivered session-1 of Day-2 on the topic 'IoT security and COOJA simulator'. She began the session with IOT ecosystem. Any IoT application requires sensors to sense data and actuators to take action. For making an entire industry to be IoT enabled huge amounts of data is being generated by various sensors that data has to put on Cloud. Hence security of that Big Data is a major concern.

Dr. Yeole explained the importance of IoT security in today's scenario. She also discussed different IoT Application areas, such as, Smart Parking System, Smart City, Smart Highways, IoT enabled hospitals and its application in various healthcare systems. She also explain how Smart Industry i.e. Industry 4.0 and today's industry differ in their operations. Different security aspects for any IoT enabled application were dealt in detail next. She further explained about top 10 IoT vulnerabilities OWASP. She also introduced COOJA simulator with basics and also suggested there are many such simulators but the choice of any depends on its speed, for encryption and decryption capabilities.

Session-2 in the afternoon was conducted by Mr. Shashank Karmarkar, solution Architect, Radisys India on the topic 'IoT Analytics'. He began his session with what is Smart City? and what are various security risks confronted by the IoT platform. He then discussed which IoT technology should be selected, various other aspects that an IoT application designer should take care. He then discussed why analytics are important?

He explained about NB IoT devices, cellular IoT, 3GPP standards and gave an overview of modular industry, IoT module vendors. He then spoke about how NB IoT is deployed in India with the help of various base stations, IoT platform server, and Application server. Next he discussed the two optimizations - control plane and user plane optimization.

He briefed about different IoT applications like watering meter, smart lighting, smart agriculture, connected cow, sheep tracing, etc. He also gave an example of a 5G remote ultrasonic system.

Day-3, 9th December 2020

Mr. Dhananjay Jadhav, Manager, Siemens Ltd, Mumbai was speaker for Session-1 on Day-3. His topic was 'Hardware for IoT & Edge Technology'. He started his talk by briefing about multiple domains of Siemens Company. He also talked about growing digital revolution in India. Before starting his presentation he condcuted a short quiz with the participants using mentimeter to know how much the participants identified with the existing and latest technological developments. He quoted that the right communication network is the key to IoT establishments. He pointed out the drawbacks of traditional manufacturing and how IoT enabled manufacturing through cloud communication helps overcome those flaws.

The levels of communication in industries were explained using an automation pyramid diagram distinguishing between Internet Technology and Operational Technology. He spoke about horizontal & vertical integration in a company and how IoT technology is necessary for seamless functioning. The switch from older technology PROFIBUS to the newer PROFINET was explained under the Industrial Ethernet. Mr Dhananjay stated that the amalgamation of OPC UA and PROFINET makes the perfect collaboration for a capable IoTenabled system.

He also highlighted about: IoT device structure, Cloud based IoT systems, IIoT 20-40, Simulation using Node-Red, Industrial Edge Technology, IIoT in PCB designing. He showed number of videos to demonstrate the concepts and made it easy and to give an insightful view onto a particular topic. The session ended with a quiz that was taken on menti.com which included questions from the topics those were covered in the presentation.

Mr. Anurag Chugh, Senior Systems Software Engineer was the speaker for Session-2 of Day-3 and his topic was 'IoT Protocols, WSN & IoT Applications'. He stressed on the importance of designing before coding and how this makes the process of coding easier. He briefed about the milestones of his illustrious career that spanned over working at MNCs, Startups and

NGOs as well. He explained about the 5 levels of Industrial IoT: Unplugged, EDGE Intelligence, Remote Monitoring, Predictive and Omnipresent Intelligence.

He then gave an in-depth insight into all the projects that he has worked on in the past and his learning from them. Some of them are: Delhi Metro Project, Cell Site Battery Monitoring, Health Telematics, ADS-B (Automatic Dependent Surveillance System), Home Network Setup, Open WRT Development, Linux Single Board Computers, Wifi Attendance System, Solution to overcrowding of WiFi networks, Weather Stations, Electrical Energy Meter. He advised the participants to implement some projects to collect some data and have detailed insights into it. He stressed upon the fact that a project should never be left incomplete, because there is always a feasible solution to every problem.

Day-4, 10th December 2020

Prof.Dr.Saurabh Mehta, Chief Academic officer and professor in the Department of Computer Science Engineering, Vidyalankar Institute of Technology, Mumbai, the speaker of Day-4 Session 1 started his talk on the topic – 'Open Source tools and Hardware for Iot'. He discussed different software and hardware platforms available for Iot, Comparison of WSN and IOT, Aduino types like Lilypad & others.

Dr.Saurabh Mehta explained the use of Thingspeak for IoT projects. He also discussed different IoT Components, major Industry players in the field of IoT. He also explained about popular hardware platforms like Arduino, Raspberry-pi, Node-MCU. Comparative study of various hardware tools were dealt in details. He further explained about cloud computing architecture and challenges associated with it. He also explained comparative study of various Wireless sensor network simulator.

Session2 on Day-4 in the afternoon was conducted by Mr.GopalaKrishnan, Assistant Professor, Instrumentation department, VESIT, Mumbai. His topic was "Intelligent Transport Design AIS140". He began his session with the content history, design specification, and implementation. He further discussed Why AIS140?, its architecture, specification of its GPS system. He then discussed Global Navigation Satellite System (GNSS), acquisition and tracking sensitivity in detail. He also explained about SBAS, SBAS

segment and why it is required. Different GPS Available, block diagram of L89, NMEA were dealt next.

He explained the communication specification and gave an overview of Q-locator in L89. He then spoke about how message specification, activation SMS from the server, & how emergency response systems work. Further he also discussed FOTA, and it's need. He briefed about different BOOT loader logic and its classification.

Day-5, 11th December 2020

Mr. Nishant Singh, Technical trainer, Mumbai who has previously worked with Kaizen, Abu Dhabi, Dubai & UAE was the speaker for both sessions of Day-5 and his topic was 'Cloud computing for IoT' with Hands-on. Mr. Nishant Singh started his talk by giving real world examples faced by him in his projects in the industry. In the first case study, he took temperature monitoring system for a Silk Manufacturing Unit and he discussed about the challenges to be taken care while designing for such a system- secure encrypted data, internet connectivity issues, how to get missing data and how to achieve these results using Google cloud or AWS IoT.

He also gave example of how IoT deployment can improve the spectrum of business for any industry — illustrated this with Nike company, how from sportsware they can expand to gym and hospital and adding sensors in the shoes and collecting and analyzing data obtained from there to feed different promotional businesses. He explained about how to send sensor data to cloud. Due to lack of hardware in the current situation, he illustrated this with the help of a python code and generated random data and sent to cloud using MQTT protocol. He threw more light on the advantages of MQTT protocol and compared with HTTP protocol and how MQTT is more suitable for telemetry data. QoS (Quality of Service) and different levels of QoS, persistent and non-persistent connections were discussed at length.

He explained how to store data on cloud using AWS IoT. The three steps to be followed while dealing with AWS IoT were: Things, Certificate, & Policy. He gave hands-on on how to make a Thing, create a Certificate, and how to attach a Policy. He cleared the difference between a subscriber and a publisher in the IoT system and how AWS acts as a broker between the

two.

The next part of the session included insights on how to integrate Amazon SNS (Simple Notification Service). This type of service is used for applications to send time-critical messages to multiple subscribers. He even tested the SNS service by mailing the messages to the participants. This gave the participants a life and practical experience of the same. Mr Singh kept the session interactive as he asked the suggestions of the participants. At the end, he also explained the concept of 'Last Will' in depth with respect to AWS IoT, which sends message even when system fails or sudden problem arises, and still it would be communicated.

Day-6, 12th December 2020

Mr. Amit Rambia, Chairman and managing director "Panache Digilife Limited" and Speaker of Day-6 Session-1 started the session on the topic —Design of connected worlds and achieving the goal of making human life easy and healthy. He started the session by requesting all of us to contribute towards making human life easy. He introduced the journey of Panache which is a unique technology driven engineering company with 150 hardware setups with core focus areas like smart computing, smart education, AV & display telematics, smart water for educational institutes.

Further, he discussed various electronics gadgets and smart village. He also emphasizes the role of AI in making teaching learning more effective. His discussion mainly focused on three major IoT solutions- Retail IoT, Smart education, and LYF-KYN Samay IoT solution. He then explained why retailers are adopting IoT, omnichannel IoT, personalised retails, smart shelves, and smart fulfillment. Smart Digital Signage, student tracking, attendance tracking, basic health management, smart pen, interactive white board are various IoT solutions provided by" Panache "

He concluded his session by showing videos of product which designed for Covid"DWAAR" featuring baggage scanning, hand and body sanitizing, temperature measurement for smart schools and campuses.

Session-2 of Day-6 was conducted by Dr.Nadir Charniya, Professor Electronics and Telecommunication Engineering department Vivekanand Education Society's Institute of Technology, Mumbai. He delivered his session on 'Fusion of IoT with ML- DL - Some Novel Applications'. Dr. Charniya started his session by asking participants what comes to their mind after seeing crowded buses, local trains, crowded stations & various scenerious. He discussed crowd incidents at different places. He proposed solutions to the crowd incidents by image analysis with crowd density estimation system and making it more efficient using IoT. He highlights proposed features of these crowd density estimation systems. He further discussed the motivation behind using Machine Learning and Deep Learning (ML-DL) for crowd density estimation with IoT. Furhter Dr. Nadir explained about learning based, detection based, DL based and feature based approach with its advantages, problems as well as limitations in detail. He then discussed crowd density estimation using CNN and its performance and results with optimal design of CNN architecture. He concluded his session by discussing how crowd density estimation systems can be implemented for similar application. He concluded his session by video demonstration of NIC project - social distancing system for public areas and Lake cleaning robot using IoT and AI.

VALEDICTORY

Valedictory function of the one week AICTE sponsored online short term training programme on 'Green Internet of Things (Phase-III)' organized by Department of Electronics and Telecommunication Engineering in collaboration with Department of Electronics Engineering and Department of Instrumentation Engineering was conducted on 12th December 2020. The program was organized in association with VESIT- Internal Quality Assurance Cell and Institution's Innovation Council. The function started in the presence of dignitaries and guests. Dignitaries and guests for the valedictory function included Dr. (Mrs.) J. M. Nair, Principal (VESIT), Dr. (Mrs) M. Vijayalakshmi, Vice Principal (VESIT), Prof. Shoba Krishnan (Head, Electronics and Telecom Dept., VESIT), Prof. Kavita Tewari (Head, Electronics Engineering Dept), Dr. P.P. Vaiya, (Head, Instrumetation Engineering Dept), Prof. Naveeta Kant (Dy. Head, Electronics Engineering Dept., VESIT), Prof. Sangeeta Prasanna (Dy. Head, Instrumetation Engineering Dept., VESIT), PEC members, and the participants.

Participants shared their extraordinary learning experience during the STTP. The STTP received excellent feedback from the participants during the valedictory function. Further, Prof. Kavita Tewari (Head, Electronics Engineering Dept., VESIT) and Prof. Sangeeta Prasanna (Dy. Head, Instrumetation Engineering Dept., VESIT) addressed the participants with the importance of Green IoT and thanked the organizers and the team of STTP.

An overall online feedback on the STTP was also taken and final quiz based on the 6-day sessions of the STTP was conducted. The regular attendance of the participants and passing in the quiz was compulsory to become eligible for AICTE-STTP certification.

Immense efforts were made by the technical committee and various teams of the STTP to make it a success. All the sessions were conducted at the scheduled time seamlessly without any unnecessary delay in the sessions.

Valedictory function was signed-off with the summary about the sessions conducted during the STTP and vote of thanks by Prof. Naveeta Kant (Dy. Head, Department of Electronics Engineering, VESIT).

ANNEXURE-I

List of Qualified Participants

| Sr. No. | Name | Designation | Department | Institute/Industry | State |
|------------|------------------------------------|------------------------|---|--|-----------------------------------|
| 1 | Mr.Ajit Kumar Singh | Research Scholar | ECE | IIIT Ranchi | Ranchi Jharkhand |
| 2 | Dr.Amit V Patel | Associate Professor | Charusat Space Research and Technology Centre | Chandubhai S Patel Institute of Technology | Changa. Gujarat |
| 3 | Mrs.AnciManon Mary A | Assistant Professor | EEE | Karpagam College Of Engineering | Coimbatore Tamilnadu |
| 4 | Mrs.A.Angulakshmi | Assistant Professor | ECE | Christian College of Engineering and Technology | Chennai Tamilnadu |
| 5 | Mrs.Mugdha Joglekar | Assistant Professor | Instrumentation | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 6 | Mrs.Gautami Aniruddha Pujare | Sr. Lecturer | Computer | VPM's Polytechnic Thane | Thane Maharashtra |
| 7 | Ms.A.Mariyammal | Assistant Professor | ECE | Vivekanandha College of Engineering for Women [Autonomous] | Chennai Tamilnadu |
| 8 | Dr.Asawari Ashok Dudwadkar | Assistant Professor | Electronics Engineering | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 9 | Mr.Ashok Kumar S | Assistant Professor | CSE | Manakula Vinayagar Institute of Technology | Kalitheerthalkuppam Puducherry |
| 10 | Mr.Selvaraj S | Assistant Professor | CSE | Kongu Engineering College | Perundurai Tamilnadu |
| 11 | Mrs.Sarika Pravin Kuhikar | Assistant Professor | Electronics Engineering | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 12 | Mr.Darshan B D | Assistant Professor | ECE | SJB Institute of Technology | Bangalore Karnataka |
| 13 | Mr.Jani Dilip Batukray | Associate Professor | Mechanical | Government engineering college | Dahod Gujrat |
| 14 | Mrs.Dhanamma Jagli | Assistant Professor | MCA | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 15 | Dr.Dilip Kumar Sharma | Assistant Professor | Mathematics | Jaypee University of Engineering and Technology | Guna Madhya Pradesh |
| 16 | Mrs.Dipti Jigar Karani | Assistant Professor | Electronics Engineering | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 17 | Er. Manoj S. Kavedia | Assistant Professor | Electronics and Telecommunication | Thadomal Shahani Engineering College | Bandra Maharashtra |
| 18 | Mr.Harshavardhan Vijay Kulkarni | Assistant Professor | Electrical And Electronics Engineering | Acharya Institute Of Technology | Bengaluru Karnataka |
| 19 | Dr.Abhay Kshirsagar | Associate Professor | Electronics Engineering | V.E.S.Institute of Technology | Mumbai Maharashtra |

| 20 | Mr. Shaikh Kader Basha Tajuddin | Assistant Professor | Instrumentation | V.E.S.Institute of Technology | Mumbai Maharashtra |
|----|------------------------------------|------------------------|---|--|----------------------------|
| | | | | K.J Somaiya | |
| 21 | Mr.Inderjit Singh Dhanjal | Assistant Processor | Electronics | College Of Engineering | Mumbai, Maharashtra |
| 22 | Dr.T. Joby Titus | Assistant Processor | ECE | Sri Ramakrishna Institute of Technology | Chennai Tamil Nadu |
| 23 | Mrs.Kadambari Arun Sharma | Assistant Professor | Instrumentation Engineering | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 24 | Mr.Kartik Patel | Assistant Professor | Electronics and Telecommunication Engineering | K. J. Somaiya College of Engineering, Mumbai-77 | Mumbai Maharashtra |
| 25 | Mrs.Anushree Ashish Prabhu | Assistant Professor | Electronics V.E.S.Institute of Engineering Technology | | Mumbai Maharashtra |
| 26 | Mr. Ranjit Arjun Katkar | Assistant Professor | Civil Engineering | AGTI's Dr.DaulatraoAher College Of Engineering | Karad. Maharashtra |
| 27 | Mr.Lokesh M. Giripunje | Asst. Prof. | E&TC | DY Patil IEMR | Pune (MS) |
| 28 | Dr. Lakshmi Ranganatha | Assistant Professor | Department of Chemistry | National Institute of Engineering | Mysore Karnataka |
| 29 | Dr.Jayant R Mahajan | Assistant Professor | Electronics and Telecommunication Engineering | Rajiv Gandhi Institute of Technology, | Mumbai Maharashtra |
| 30 | Mrs.J Manjula | Assistant Professor | CSE | BVR Inst of Tech | Narsapur Telangana |
| 31 | Mrs. Amrita Jhaveri | Assistant Professor | Electronics Engineering | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 32 | Mrs.Nilima D. Zade | HOD | Electronics | PVPPO C O Engg | Mumbai (MS) |
| 33 | Ms.VARSHA N | Assistant Professor | Information Science and Engineering | Vidya Vikas Institute of Engineering and Technology | Mysuru Karnataka |
| 34 | Dr.PERARASI T | Assistant Professor | ECE | Bannari Amman Institute Of Technology | Erode Tamilnadu |
| 35 | Mrs.RaginiGaikwad | Assistant Professor | Instrumentation Engineering | Ramrao Adik Institute Of Technology, Nerul | Navi Mumbai Maharashtra |
| 36 | Mr.Sandeep Singh | Assistant Professor | Electrical Engineering | Vaish College of Engineering | Rohtak Haryana |
| 37 | Mrs.Gaikwad Sarika Ganpat | Assistant Professor | E&TC | SVPM'S C.O.E Malegaon | Baramati Maharashtra |
| 38 | Dr.Sanjay B.Waykar | Assistant Professor | Computer Engineering | SIT, | Lonavala Maharashtra |
| 39 | Mrs Smita D Khandagale | Lecturer | Instrumentation | V.P.M's Polytechnic | Thane Maharashtra |
| 40 | Mr.Surendra Sutar | Assistant Professor | Electronics and Telecommunication Engineering | MCT's Rajiv Gandhi Institute of Technology | Mumbai Maharashtra |
| 41 | Mr.S.Gnanamurugan | Assistant Professor | ECE | Vivekanandha College Of Engineering For Women | Chennai Tamilnadu |

Short Term Training Program on 'Green Internet of Things'

| 42 | Ms. ShamalSalunkhe | Assistant Professor | Instrumentation Engineering | RAIT, Nerul | Navi Mumbai Maharashtra |
|----|--|-------------------------|--------------------------------|--|----------------------------|
| 43 | Mr.Shankar A | Assistant Professor | ECE | Sri Ramakrishna Institute of Technology | Chennai Tamilnadu |
| 44 | Mr.Shivanand Bhimashankar Konade | Assistance Professor | EXTC | G V Acharya college shelu | Mumbai Maharashtra |
| 45 | Mrs.Namrata Bonde | Assistant Professor | Instrumentation | V.E.S.Institute of Technology | Mumbai Maharashtra |
| 46 | Mrs. K. Shruthi | Assistant Professor | Mechanical | IFET college of engineering | Villupuram Tamil nadu |
| 47 | Mr.Sajid Shaikh | Assistant Professor | Electrical | Pillai HC ET | Rasayani Maharashtra |
| 48 | Mr. Suraj Prabhakar Khandare | Assistant Professor | I.T | Fr. Conceicao Rodrigues Institute of Technology, Vashi | Navi Mumbai Maharashtra |
| 49 | Mrs.TruptiFuria | Assistant Professor | Instrumentation | Vidyavardhini's College of Engineering and Technology | Vasai (MS) |
| 50 | Mr. Vaibhav Prakash | AGM | Operations | Carnation Infotech | Lucknow, UP |
| 51 | Mrs.Jayassre Ramakrishnan | Assistant Professor | Instrumentation | V.E.S.Institute of Technology | Mumbai (MS) |
| 52 | Mr. Yogesh Pandit | Assistant Professor | Electronics Engineering | V.E.S.Institute of Technology | Mumbai (MS) |

Annexure – II List of Experts, Affiliation, and Topics

| S. no. | Speakers | Topics covered |
|--------|--|--|
| 1 | DR. ABHAY KSHIRSAGAR, V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI | WSN, IoT, Levels of IoT, Applications od IoT. |
| 2 | DR. Y SRINIVASA RAO, SADAR PATEL INSTITUTE OF TECHNOLOGY, MUMBAI | IoT and Case studies on biomedical applications of IoT |
| 3 | DR. ANJALI YEOLE, V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI | Security in IoT, COOJA Simulator |
| 4 | Mr. SHASHANK KARMARKAR, RADISYS INDIA, MUMBAI | IoT analytics |
| 5 | MR. DHANANJAY JADHAV, SIEMENS LTD, MUMBAI | IoT HW, Edge technology |
| 6 | MR. ANURAG CHUGH, TARANA WIRELESS, PUNE | IoT protocols and Applications |
| 7 | DR.SAURABH N. MEHTA, VIDYALANKAR INST OF TECHNOLOGY, WADALA, MUMBAI | Open source tools for IoT and HW |
| 8 | MR. N. GOPALAKRISHNAN, V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI | Intelligent transport design AIS140 |
| 9 | MR.NISHANT MANOJ SINGH, TECHNICAL TRAINER, MUMBAI | Cloud computing and hands-on training |
| 10 | MR. AMIT RAMBHIYA, PANACHE DIGILIFE LTD, MUMBAI | IoT in industrial applications |
| 11 | DR. NADIR N CHARNIYA, V E S INSTITUTE OF TECHNOLOGY, CHEMBUR, MUMBAI | Fusion of IoT with Machine learning and Deep learning |

ANNEXURE-III

STTP Schedule

| | 07/12/2020 | 08/12/2020 | 09/12/2020 | 10/12/2020 | 11/12/2020 | 12/12/2020 |
|------------------------------|--|--|--|---|--|--|
| 10.00 to 11.30 AM | Inauguration Session1- Introduction to IoT and Green IoT: by Dr. Abhay Kshirsagar | IoT Security and COOJA simulator by Dr.Anjali Yeole | Hardware for IoT & Edge technology by Mr. Dhananjay Jadhav, Siemen's | Open source tools and hardware for IoT by Dr Saurabh Mehta, VIT | Cloud Computing for IoT with Hands-on by Mr. Nishant Singh, | Applications of IoT and Case Studies Used cases of IoT by Mr.Amit Rambhiya |
| 11.30 AM to 1.00 PM | Session-1- Introduction of IoT and Green IoT by Dr. Abhay Kshirsagar | IoT Security and COOJA simulator by Dr. Anjali Yeole | Hardware for IoT & Edge technology by Mr. Dhananjay Jadhav, Siemen's | Open source tools and hardware for IoT by Dr Saurabh Mehta, VIT | Cloud Computing for IoT with Hands-on by Mr. Nishant Singh | Application s of IoT and Case Studies: Use cases of IoT by Mr. Amit Rambhiya |
| 2.00 PM to 3.30 PM | Classificatio n of IoT - a case study on Biomedical Engg by Dr. Y. S. Rao, SPIT | IoT Analytics by Mr. Shashank Karmarkar | IoT Protocols, WSN and IoT with Applications by Mr. Anurag Chugh | IoT Application Design and Implementa tion by Mr. N. Gopalakrish nan | Cloud Computing for IoT with Hands-on by Mr. Nishant Singh | Fusion of IoT with ML-DL: Some Novel Applications by Dr. Nadir Charniya |
| 3.30 PM to 5.00 PM | Classificatio n of IoT - a case study on Biomedical Engg by Dr. Y.S. Rao, SPIT | IoT Analytics by Mr. Shashank Karmarkar | IoT Protocols, WSN and IoT with Application s by Mr. Anurag Chugh | IoT Application Design and Implementa tion by Mr. N. Gopalakrish nan | Cloud Computing for IoT with Hands-on by Mr. Nishant Singh | Valedictory Ceremony Final Quiz on the STTP |

ANNEXURE-IV

Final feedback with Score of Online Test and Test Questions

Q1: The STTP sessions delivered the information that I expected to receive

Q2: The STTP was successful in its objectives

Q3: How would you rate the effectiveness of the demonstrations shown during the sessions?

Q4: How would you rate the duration of the program?

Q5: How would you rate the online arrangements for the entire STTP?

Q6: Write any three takeaways or outcomes of the STTP.

| Nome | 04 | Q2 | Q3 | 04 | OF | 000 | Any other | Score |
|-------------------------------------|----|----|----|----|-----------|--------------|-----------------|-------|
| Name ANCI MANON | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | comments | (40) |
| MARY | 5 | 4 | 5 | 4 | Excellent | good | Good | 24 |
| JANI DILIP | 3 | 4 | 5 | 4 | Excellent | good | Good | 24 |
| BATUKRAY | 5 | 5 | 5 | 5 | Excellent | Excellent | Excellent | 26 |
| D/ (1 O ((() () | | | | | EXOCITOR | In depth | EXOCIICIT | |
| | | | | | | knowledg | | |
| | | | | | | e of | | |
| | | | | | | theory | | |
| | | | | | | and | | |
| | | | | | | Practical | | |
| | | | | | | session, | | |
| | | | | | | Hands of | | |
| | | | | | | experienc | | |
| | | | | | | e, real | | |
| | | | | | | time | | |
| | | | | | | applicatio | | |
| | | | | | | n deveopm | | |
| Dr. Amit V Patel | 5 | 5 | 5 | 5 | Excellent | ents | Good | 37 |
| DI. AIIIIL V Falei | | | | | LACCHETIC | Green | Good | 31 |
| | | | | | | IOY,AIS,a | | |
| Lokesh Giripunje | 5 | 5 | 5 | 5 | Excellent | nd WSN | | 35 |
| | | | | | | Hardware | | |
| | | | | | | for IOT & | | |
| | | | | | | Edge | | |
| | | | | | | technolog | | |
| | | | | | | y,Cloud | | |
| Mrs. Smita D | | | | | Very | computin | All session | |
| Khandagale | 5 | 5 | 5 | 4 | Good | g | are good | 35 |
| | | | | | | ibformativ | | |
| | | | | | | e | ab a | |
| Voibboy Drokoob | 4 | 4 | 4 | 4 | Excellent | knowledg | share slides | 20 |
| Vaibhav Prakash Abhijit Hindurao | 4 | 4 | 4 | 4 | Excellent | е | Sildes | 30 |
| Kumbhar | 5 | 5 | 5 | 5 | Excellent | _ | | 0 |
| ινιποπαι | | 3 | 3 | 3 | LYCEHELII | Greent | | U |
| | | | | | | loT, | | |
| | | | | | | Diffrent | | |
| | | | | | | Protocols, | | |
| DARSHAN B D | 5 | 5 | 5 | 5 | Excellent | Applicatio | good | 34 |

| | | | | | | nc | | |
|---------------------------|---|----------|---|---|------------|-----------------------|------------------------|------|
| | | | | | | ns, Designs | | |
| | | | | | | Know | | |
| Mrs.A.ANGULAKSH | | | | | | more | | |
| MI | 4 | 5 | 4 | 5 | Excellent | about IOT | Good | 33 |
| | | | | | | Details | | |
| | | | | | | and | | |
| | | | | | | implemen | | |
| Mrs. Coutonsi Duiona | 4 | _ | _ | 4 | Very | tation of | | 25 |
| Mrs. Gautami Pujare | 4 | 5 | 5 | 4 | Good | loT Learn | | 35 |
| | | | | | | green iot | | |
| | | | | | | in | | |
| | | | | | | detail,aws | | |
| | | | | | | cloud, | | |
| | | | | | | applicatio | | |
| | | | | | | n of iot in | | |
| Mr. AJIT KUMAR | _ | _ | _ | _ | Cycollopt | current | | 20 |
| SINGH | 5 | 5 | 5 | 5 | Excellent | scenario 1. Nicely | | 38 |
| | | | | | | organized | | |
| | | | | | | 2. All | | |
| | | | | | | sessions | | |
| | | | | | | were | 1 | |
| | | | | | | good | congratulat | |
| | | | | | | 3. Entire | e to all for | |
| Dr. Dilin Kumar | | | | | | team was | this | |
| Dr. Dilip Kumar Sharma | 5 | 5 | 5 | 5 | Excellent | working hard | successful Event. | 35 |
| Grianna | | 0 | | | EXOCIICITE | TRENDS | E VOITE. | - 00 |
| | | | | | | IN | | |
| | | | | | | GREEN | | |
| | | | | | | IOT, | | |
| | | | | | | Industrial | | |
| | | | | | | IOT, Health | | |
| Dr. T .JOBY TITUS | 5 | 5 | 5 | 5 | Excellent | care IOT | _ | 36 |
| DI. 1 .00D1 11100 | | <u> </u> | | | EXCERCIT | care for | In future | - 50 |
| | | | | | | Hardware | hardware | |
| | | | | | | and | sessions | |
| | | | | | | software | can be | |
| | | | | | | tools of | organized | |
| | | | | | | loT, NB- loT and | on the | |
| | | | | | | loT using | applications of IoT in | |
| | | | | | | machine | healthcare | |
| | | | | | | learning | and | |
| | | | | | | and deep | agricultural | |
| Mr. Kartik Patel | 5 | 5 | 5 | 5 | Excellent | learning | applications | 36 |
| | | | | | | Green | | |
| | | | | | | IOT | All sessions | |
| Surendra Sutar | 5 | 5 | 5 | 5 | Excellent | applicatio | were informative | 35 |
| Sultifula Sulai | 5 | 5 | 5 | 5 | LACCIICIII | ns lot | iiiiOiiiialive | 30 |
| | | | | | | applicatio | | |
| | | | | | | ns in | | |
| | | | | | | healthcar | | |
| | | | | | | е, | Good sttp, | |
| Dr. Asawari | _ | _ | _ | | | environm | great team | 6.4 |
| Dudwadkar | 5 | 5 | 5 | 4 | Excellent | ental | work | 31 |

| | | | -1 | i | Т | | T | , |
|-------------------------|---|---|----|---|-----------|------------------------|--------------|---|
| | | | | | | monitorin | | |
| | | | | | | g, surgical | | |
| | | | | | | & office, | | |
| | | | | | | protocols, | | |
| | | | | | | industry | | |
| | | | | | | applicatio | | |
| | | | | | | ns, | | |
| | | | | | | models | | |
| | | | | | | etc | | |
| | | | | | | Cooja | | |
| | | | | | | simulator understan | | |
| | | | | | | | | |
| | | | | | | ding, aws cloud | | |
| | | | | | | hands on, | | |
| | | | | | | various | | |
| | | | | | | industrial | | |
| | | | | | Very | applicatio | | |
| Mrs Nilima Zade | 4 | 4 | 3 | 4 | Good | n scope | _ | 33 |
| | | • | | • | | iot | | |
| | | | | | | applicatio | | |
| | | | | | | ns having | | |
| Mr Harshavardhan | | | | | | social | | |
| Vijay Kulkarni | 5 | 5 | 5 | 5 | Excellent | impact | excellent | 33 |
| 1.7 | _ | | | | | Use of | | |
| | | | | | | IOT IN | | |
| | | | | | | HOUSE | | |
| | | | | | | INDUSTR | | |
| Mr.Sandeep SIngh | 5 | 5 | 5 | 5 | Excellent | IAL | - | 36 |
| . • | | | | | | Applicatio | | |
| | | | | | | ns, in- | | |
| | | | | | | depth | | |
| Dr.Sanjay B.Waykar | 5 | 5 | 5 | 5 | Excellent | insight | Good | 30 |
| | | | | | | Python, | | |
| | | | | | | IoT,levels | | |
| | | | | | | of | | |
| | | | | | | IoT,Green | | |
| | | | | | | IoT | | |
| Mr. Coild Chailt | | | _ | • | Coord | ,Cooja | | 00 |
| Mr. Sajid Shaikh | 3 | 3 | 3 | 3 | Good | simulator | - | 36 |
| | | | | | | IOT, | | |
| | | | | | | cloud, | | |
| Mr C CELVADA I | _ | _ | _ | _ | Cycellent | applicatio | \/om: ~~ = - | 20 |
| Mr. S. SELVARAJ | 5 | 5 | 5 | 5 | Excellent | ns | Very good | 38 |
| Ms. VARSHA N | 5 | 5 | 5 | 5 | Excellent | - Cood | - | 23 |
| Mo Chomal | | | | | | Good | Evestest | |
| Ms. Shamal | _ | _ | _ | F | Cycollege | data | Excellent | 27 |
| Salunkhe Dr. Lakahmi | 5 | 5 | 5 | 5 | Excellent | sharing | FDP | 37 |
| Dr. Lakshmi | 5 | 5 | 5 | 5 | Evadlast | | | 22 |
| Ranganatha V | 3 | Э | 5 | 5 | Excellent | 1. Real | | 22 |
| | | | | | | world | | |
| | | | | | | | | |
| | | | | | | problems 2. | | |
| | | | | | | BEACON | | |
| | | | | | | Technolo | All the | |
| | | | | | | gy 3. | sessions | |
| | | | | | | Vehicle | were | |
| | | | | | | tracking | excellent. | |
| Mrs. Ragini Gailyyad | 5 | 5 | 5 | 5 | Excellent | | | 38 |
| Mrs. Ragini Gaikwad | ၁ | ၁ | 5 | 5 | Excellent | system. | Thank you | 30 |

| | | | | | | DEACON | | |
|------------------------|---|----|---|-----|-----------|----------------------|-------------------|------|
| | | | | | | BEACON technolog | | |
| | | | | | | y, vehicle | | |
| | | | | | | tracking | | |
| | | | | | | system, | | |
| | | | | | | different | | |
| Mrs.Kadambari | | _ | _ | | Very | simulators | | |
| Sharma | 4 | 5 | 5 | 4 | Good | | | 38 |
| | | | | | | 1) Use of | | |
| | | | | | | loT in daily life. | | |
| | | | | | | 2) | | |
| | | | | | | Designing | | |
| | | | | | | aspects of | | |
| | | | | | | IoT | | |
| B 143/4417 B | | | | | | devices | Excellent | |
| Dr.JAYANT R. | _ | _ | _ | 4 | C II a t | 3) Hands | Co- | 00 |
| MAHAJAN | 5 | 5 | 5 | 4 | Excellent | on of IoT | ordination | 33 |
| | | | | | | Amazon Simple | | |
| | | | | | | Notificatio | | |
| | | | | | | n Service | | |
| | | | | | | is a | | |
| | | | | | | notificatio | | |
| | | | | | | n service | | |
| | | | | | | provided | | |
| | | | | | | as part of Amazon | | |
| | | | | | | Web | | |
| | | | | | | Services | | |
| | | | | | | since | | |
| Rakhi Vijay Gupta | 4 | 3 | 4 | 3 | Good | 2010 | | 30 |
| SHIVANAND | | | | | | | | |
| BHIMASHANKAR KONADE | 5 | 5 | 5 | 5 | Excellent | Good | Good | 22 |
| KONADL | 3 | | 3 | 3 | LACCION | Learned | - | |
| | | | | | | many | | |
| | | | | | | practical | | |
| | | | | | | applicatio | | |
| | | | | | | n basics | | |
| | | | | | | of iot | | |
| Mrs. Dipti Jigar | | | | | | working with | | |
| Karani | 5 | 5 | 5 | 5 | Excellent | tracking | | 36 |
| Taran | | | | | | Green IoT | | - 55 |
| | | | | | | is best for | | |
| | | | | | | future | | |
| | | | | | | generatio | _ | |
| Mr.S.Gnanamurugan | 4 | 4 | 4 | 4 | Good | n | good | 31 |
| | | | | | | here are 7 | | |
| | | | | | | crucial IoT | | |
| | | | | | | characteri | | |
| | | | | | | stics: | | |
| | | | | | | Connectiv | | |
| | | | | | | ity. This | | |
| | | | | | | doesn't | | |
| | | | | | | need too | overell | |
| DR VANDANA B PATIL | 5 | 5 | 5 | 5 | Excellent | much further | overall excellent | 23 |
| | | () | • | ່ ວ | | ı iululci | I EXCEIICIIL | _∠3 |

| | | | | | | explanatio | | |
|---------------------|---|----------|---|---|-----------|---------------------|-----------|-----|
| | | | | | | n | | |
| | | | | | | Things. | | |
| | | | | | | Anything | | |
| | | | | | | that can | | |
| | | | | | | be tagged | | |
| | | | | | | or | | |
| | | | | | | connecte | | |
| | | | | | | d as such | | |
| | | | | | | as it's | | |
| | | | | | | designed | | |
| | | | | | | to be | | |
| | | | | | | connecte | | |
| | | | | | | d | | |
| | | | | | | Data | | |
| | | | | | | Communi | | |
| | | | | | | cation | | |
| | | | | | | Intelligenc | | |
| | | | | | | e | | |
| | | | | | | Action | | |
| | | | | | | Ecosyste | | |
| | | | | | | m. | | |
| Mrs.Manjula J | 3 | 4 | 1 | 1 | Excellent | - | - | 22 |
| | | | | | | 1)Recent | | |
| | | | | | | research | | |
| | | | | | | topic. | | |
| | | | | | | 2)two | | |
| | | | | | | core | | |
| | | | | | | branch | | |
| | | | | | | work | | |
| Mrs Sandhya | | | | | | together | | |
| sandeep | _ | _ | _ | _ | | 3)Alcte | | |
| DESHPANDE | 5 | 5 | 5 | 5 | Excellent | certificate | Good job | 23 |
| | | | | | | Applicatio | | |
| | | | | | | n, | NULL | |
| | | | | | | innovative | Nice | |
| | | | | | | , lasta was ativ | Session, | |
| Mr.Shankar A | 5 | 5 | 5 | 5 | Evaclor | Informativ | Gain good | 33 |
| IVII.SHAHKAI A | 5 | <u> </u> | 5 | 3 | Excellent | e All r new | Knowledge | 33 |
| | | | | | | topics, | | |
| | | | | | | learned | Good | |
| Mrs. K. SHRUTHI | 4 | 4 | 4 | 4 | Good | more | session | 27 |
| | 7 | | 7 | | 3000 | WSN, | 30001011 | |
| | | | | | | AWS, | | |
| | | | | | | Health | | |
| | | | | | Very | care | | |
| Er.Manoj S. KAvedia | 4 | 4 | 4 | 4 | Good | Robots | All good | 32 |
| - | | | | | | What is | | |
| | | | | | | IOt? IOT | | |
| | | | | | | levels. | | |
| Ms. Brinzel | | | | | Very | IOT | | |
| Rodrigues | 3 | 3 | 3 | 5 | Good | protocols | | 37 |
| | | | | | | loT in | | |
| | | | | | | biomedica | | |
| | | | | | | I has lot of | | |
| | | | | | | scope | Thank you | |
| | | | | | | AWS IoT | for the | |
| Suraj Prabhakar | _ | _ | _ | _ | | hands on | wonderful | 0.4 |
| Khandare | 5 | 5 | 5 | 5 | Excellent | IoT to | STTP | 34 |

| | | | 1 | | I | | 1 | |
|----------------------------|---|---|---|---|--------------|---|---|----|
| | | | | | | grow tremendo | | |
| | | | | | | usly in | | |
| | | | | | | future | | |
| Dr.T.Perarasi | 5 | 4 | 4 | 4 | Very Good | IOT APPLICA TION; TOOLS USED; COOJA SIMULAT OR | Good & Informative. Share the PPT of the sessions. | 35 |
| INDERJIT SINGH | 4 | 4 | 4 | 5 | Eycellont | Green IoT Applicatio ns and concept Using AWS services (connectin g sensor value to the cloud) AIS 140 (Smart transport) Citizen science | Very good learning | 37 |
| DHANJAL | 4 | 4 | 4 | 5 | Excellent | using lot IOT | experience | 37 |
| DHANAMMA JAGLI | 5 | 5 | 5 | 5 | Excellent | Applicatio ns | | 33 |
| Mrs Trupti Furia | 5 | 5 | 5 | 5 | Excellent | IoT is essential in smart cities and industry 4.0 | | 37 |
| | 3 | | | | | Valuable informatio n and knowledg e gaining | All sessions were very useful and informative. Collective information and effective presentation with suitable examples and explanation with interaction. Knowledge gaining experience. Arrange | 5. |
| Mr. RANJIT ARJUN KATKAR | 5 | 5 | 5 | 5 | Excellent | experienc e. | few more sessions | 36 |

| | | | | 1 | T | 1 | T | |
|--------------------------------|---|---|---|---|-----------|-----------------------|---------------|-----|
| | | | | | | | like this of | |
| | | | | | | | same | |
| | | | | | | | resource | |
| | | | | | | | persons | |
| | | | | | | | with more | |
| | | | | | | | duration | |
| | | | | | | | and | |
| NA | | | | | | | interaction. | |
| Mrs. Vishakha | _ | _ | _ | _ | C II a t | NI: | | 20 |
| krantikumar Gaikwad | 5 | 5 | 5 | 5 | Excellent | Nil | Informative | 32 |
| | | | | | | Knowledg eable and | sessions | |
| ASHOK KUMAR S | 5 | 5 | 5 | 5 | Excellent | useful sttp | thank you | 35 |
| ASHOR ROWAR S | | | | 3 | LACCHETIC | Green IoT | thank you | 33 |
| | | | | | | is best for | | |
| | | | | | | future | | |
| | | | | | | generatio | | |
| Ms.A.MARIYAMMAL | 4 | 4 | 5 | 5 | Excellent | n | GOOD | 30 |
| INIO./ AINI/AIAI I /AINIIVI/AL | 7 | | | | LAGGIGIT | insights of | 3335 | 50 |
| | | | | | | loT | | |
| | | | | | | Various | | |
| | | | | | | challenge | | |
| | | | | | | s of IoT | Excellent | |
| | | | | | | need and | STTP. All | |
| | | | | | | implemen | Speakers | |
| Mrs Sangita | | | | | | tation of | were too | |
| Mahendra Rajput | 5 | 5 | 5 | 5 | Excellent | Green IoT | good | 33 |
| | _ | | | | | different | 3 | |
| | | | | | | Green | | |
| | | | | | | IOT | | |
| | | | | | | applicatio | | |
| | | | | | | ns,cloud | | |
| | | | | | | computin | | |
| Mrs.Gaikwad Sarika | | | | | Very | g learned | | |
| Ganpat | 5 | 5 | 4 | 4 | Good | under this | - | 31 |
| • | | | | | | Informativ | | |
| | | | | | | e, case | | |
| | | | | | | studies, | | |
| | | | | | | technical | | |
| Dr. Abhay Kshirsagar | 4 | 5 | 4 | 5 | Excellent | contents | All the best. | 32 |
| | | | | - | | Advances | | |
| | | | | | | in IOT | | |
| | | | | | | future | | |
| | | | | | | Applicatio | | |
| | | | | | | ns and | | |
| | | | | | | present | | |
| Mr. SHAIK RAHIL | | | | | Very | technologi | Great | |
| HUSSAIN | 5 | 5 | 5 | 5 | Good | cal trends | sessions | 34 |
| | | | | | | best | | |
| | | | | | | session,b | | |
| | | | | | | est | | |
| Mara Ara et es | | | | | | speakers,i | | |
| Mrs. Anushree | _ | _ | _ | _ | Cycellent | nteresting | | 0.5 |
| Ashish Prabhu | 5 | 5 | 5 | 5 | Excellent | sttp | - | 35 |
| | | | | | | IoT | | |
| | | | | | | applicatio | | |
| | | | | | | ns, | | |
| Mr Vogoch Sharad | | | | | | Introducti on to G | | |
| Mr. Yogesh Sharad Pandit | 4 | 4 | 4 | 5 | Excellent | loT | _ | 34 |
| raliuil | 4 | 4 | 4 |) | Excellent | 101 | <u> </u> | 34 |

| Mrs. Sarika Pravin Kuhikar 5 5 5 5 Excellent 1 .Smart hospital and role of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | |
|--|----|-----------|------------|-----------|---|---|---|---|---------------------|
| Mrs. Sarika Pravin Kuhikar 5 5 5 5 Excellent 1 .Smart hospital and role of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | |
| Mrs. Sarika Pravin Kuhikar 5 5 5 5 Excellent 1 .Smart hospital and role of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | |
| Mrs. Sarika Pravin Kuhikar 5 5 5 5 Excellent e 35 1 .Smart hospital and role of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | |
| Kuhikar 5 5 5 5 Excellent e 35 1 .Smart hospital and role of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | Mrs Sarika Pravin |
| 1 .Smart hospital and role of IOT in the field of health care and cooja simulator to test IOT | 35 | | | Excellent | 5 | 5 | 5 | 5 | |
| hospital and role of IOT in the field of health care and cooja simulator to test IOT | | | | LXOCIICIT | | | | J | Rankai |
| and role of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | |
| of IOT in the field of health care and cooja simulator to test IOT | | | | | | | | | |
| the field of health care and cooja simulator to test IOT | | | | | | | | | |
| of health care and cooja simulator to test IOT | | | | | | | | | |
| cooja simulator to test IOT | | | | | | | | | |
| simulator to test IOT | | | care and | | | | | | |
| to test IOT | | | cooja | | | | | | |
| IOT | | | simulator | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | based | | | | | | |
| projects. | | | | | | | | | |
| 2.Applicat | | | | | | | | | |
| ion of IOT | | | | | | | | | |
| in the field | | | | | | | | | |
| of of | | | | | | | | | |
| education | | | | | | | | | |
| smart | | | | | | | | | |
| campus | | | | | | | | | |
| and school in | | | | | | | | | |
| current | | | | | | | | | |
| pandemic Excellent | | Evcellent | | | | | | | |
| covid , STTP very | , | | | | | | | | |
| project wellplanned | | | | | | | | | |
| Dwaar" , cordinated | | | | | | | | | |
| 3. smart and | | | | | | | | | |
| water executed | | | | | | | | | |
| meter for also | | also | meter for | | | | | | |
| schools discuss | | discuss | schools | | | | | | |
| abd major areas | | | | | | | | | |
| education in the field | | | education | | | | | | |
| al of Green | | | | | | | | | |
| Mrs. Amrita Jhaveri 5 5 5 5 Excellent institutes . IOT. 36 | 36 | IOT. | | Excellent | 5 | 5 | 5 | 5 | Mrs. Amrita Jhaveri |
| Basics of | | | | | | | | | |
| Mrs. Mugdha Ruturaj | | | | | _ | | _ | _ | |
| Jogalekar 5 5 4 4 Excellent cleared 31 | | | | | | 4 | 5 | | Jogalekar |
| Namrata Bonde 5 5 5 5 Excellent Yes 30 | 30 | | | ⊨xcellent | 5 | 5 | 5 | 5 | Namrata Bonde |
| 1. Conceptu | | | | | | | | | |
| Conceptu | | | | | | | | | |
| al knowledg | | | | | | | | | |
| e of | | | | | | | | | |
| systems. | | | | | | | | | |
| 2. | | | | | | | | | |
| Understa | | | | | | | | | |
| nding of | | | | | | | | | |
| compone | | | | | | | | | |
| nts. | | | | | | | | | |
| 3. | | | | | | | | | |
| Understa | | | Understa | | | | | | |
| | 1 | | nding of | | | | | | Mr. SHAIKH KADER |
| Mr. SHAIKH KADER nding of | | | protocols. | Excellent | 5 | 5 | 5 | 5 | |

| | | | | | | 4. Knowledg e of simulators | |
|--------------|---|---|---|---|-----------|---|----|
| Jayassre | | | | | | Keep learning new technologi es and implemen t in projects, handson gives more knowledg e and understan | |
| Ramakrishnan | 5 | 5 | 5 | 5 | Excellent | ding | 36 |

• Final Test Questions

STTP Quiz Questions

| Q.N. | Question | | | | | | |
|------|---|--|--|--|--|--|--|
| 1 | Mention two major ways to achieve Green IoT design? | | | | | | |
| 2 | What is difference between Level 1 and Level 6 IoT? | | | | | | |
| 3 | Name any Three protocols used in IoT. | | | | | | |
| 4 | WSN applications are what level IoT applications? | | | | | | |
| 5 | How the IoT is useful in Biomedical field? | | | | | | |
| 6 | What are the different IoT communication patterns? | | | | | | |
| 7 | What are intelligent sensors? | | | | | | |
| 8 | What are four key pillars of IoT? | | | | | | |
| 9 | What is difference between 2G and 4G network? | | | | | | |
| 10 | What is the importance of IPv6? | | | | | | |
| 11 | What are the 5 levels of Intelligence in an Industrial IoT? | | | | | | |
| 12 | What are the advantages of twisted pair cable over others, especially while being | | | | | | |
| | used for different communication protocol? | | | | | | |
| 13 | What is difference between WSN and IoT? | | | | | | |
| 14 | List the different sensors that we can use for Arduino board project? | | | | | | |
| 15 | What are different variations in Raspberry Pi? | | | | | | |
| 16 | What is node MCU? | | | | | | |
| 17 | Which open source software is useful in WSN? | | | | | | |
| 18 | What are the important Components of an Internet of Things? | | | | | | |
| 19 | What are the major Privacy and Security Issues in case of IoT? | | | | | | |
| 20 | What is the role of Gateway in smart grid architecture IoT? | | | | | | |
| 21 | What are advantages of MQTT protocol compared to HTTP? | | | | | | |
| 22 | What is difference between persistent connection and non persistent connection? | | | | | | |

| | | MCQ | | | | | | | |
|-----|--|---|-------------------------|-----------------------|--|--|--|--|--|
| 1 | Warren Buffet says that "Cyber security is the biggest threat facing mankind, even more dangerous than" | | | | | | | | |
| | nuclear weapons | war | calamity | strick | | | | | |
| | | | | | | | | | |
| 2 | In IoT DOS attack tak | | | | | | | | |
| | Application | Network | Middleware layer | percepatuion layer | | | | | |
| 3 | Which of the following | g is a simulator for Io | oT ? | | | | | | |
| | contiki | tiny | cooja | rtos | | | | | |
| | | | | | | | | | |
| 4 | Which is the top most | challenge for adoption | on of Internet of Thing | gs? | | | | | |
| | Security | Money | | Users | | | | | |
| | | | Implementation | | | | | | |
| | T = | | | | | | | | |
| 5 | In Cooja simulator pro | | which programming l | | | | | | |
| | java | python | С | cobol | | | | | |
| 6 | GNSS supports which | satellites | | 1 | | | | | |
| | GPS | Baidu | IRNSS | All Global | | | | | |
| | | | | Satellites | | | | | |
| _ | 1.0 | | | | | | | | |
| 7 | AIS stands for | | | 1 | | | | | |
| | Automotive Industry | Automation | Active Industry | Aerospace | | | | | |
| | Standards | Industry | Standard | Industry | | | | | |
| | | Standards | | Standards | | | | | |
| 8 | GPS communicates us | ing | | | | | | | |
| | NMEA protocol | I2C protocol | Modbus protocol | RS232 protocol | | | | | |
| | • | · | · | | | | | | |
| 9 | Which of the following | g is not data link laye | er technology? | | | | | | |
| | UART | Bluetooth | HTTP | WiFi | | | | | |
| | | . | <u> </u> | 1 | | | | | |
| 10 | Which language is pre | ferred for IoT analyti | ics? | | | | | | |
| | C++ | HTML | Python | PHP | | | | | |
| | | | | | | | | | |
| 11 | What is the example of | smart grid edge device | for utility? | | | | | | |
| | Smart Home | Smart Car | Smart Meters | Smart College | | | | | |
| | 1 | | | | | | | | |
| 12 | API enables services por | <u>'</u> | | 1 | | | | | |
| | Systems | Devices | Networks | Services | | | | | |
| 1.2 | | | e | | | | | | |
| 13 | services are th | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| | Bigdata | Internet | Network | Cloud | | | | | |
| | The state of the s | | | | | | | | |
| 14 | Which of the following s | • | <u> </u> | 1 | | | | | |
| | IETF 6 LowPAN | IEFT CoAP | RFID/NFC | Bluetooth | | | | | |
| | | | | | | | | | |

| | Raspberry Pi 2 model | Raspberry Pi 3 | Galieo Gen 2 | Galieo Gen 1 | | | | | |
|----|---|---|-----------------|--------------------|--|--|--|--|--|
| | | model | board | Board | | | | | |
| | | | | | | | | | |
| 16 | AIS 140 is an application de | veloped for | | | | | | | |
| | Smart City | Smart Lab | Smart Transport | Smart Home | | | | | |
| | | | | | | | | | |
| 17 | What is MQTT protocol? | | | | | | | | |
| | Message Queuing | Message | Media Queuing | Media Queuing | | | | | |
| | Telemetry Transport | Queuing Text | Transport | Telemetry | | | | | |
| | | Transport | Things | Things | | | | | |
| | | | | | | | | | |
| 18 | Which environment does Global Sensor Network work on? | | | | | | | | |
| | C++ | JAVA | HTML | С | | | | | |
| | | | | | | | | | |
| 19 | Which axis accelerometer is mostly used in IOT? | | | | | | | | |
| | 1 axis | 2 axis | 3 axis | Combination of all | | | | | |
| | | · | • | | | | | | |
| 20 | The design of the Internet p | The design of the Internet protocol suites adhere to the principle. | | | | | | | |
| | Data corruption | Connection | End to End | Reliability | | | | | |
| | | oriented | principle | | | | | | |
| | | | | | | | | | |
| | | i e e e e e e e e e e e e e e e e e e e | | 1 | | | | | |

ANNEXURE - V

Session wise Attendance and Feedback

List of Participants attended Day-1, Session-1 and Feedback

Resource Person: Dr. Abhay Kshirsagar

| Name | Is delivery of the session as per expectation? | How would you rate the topics covered in this session? | Write takeaways or outcomes of the Session. | Any other comment. |
|-------------------------------------|---|--|---|--------------------|
| VARSHA N | 5 | 5 | It was informative session | - |
| Er.Manoj S. Kavedia | 4 | 4 | Concepts of Green IOT | All good |
| JANI DILIP BATUKRAY | 5 | 5 | Excellent knowledge | Excellent program |
| Dr S Srinivasulu Raju | 5 | 5 | Green IoT design | |
| Mr. Chankar A | 4 | 4 | informativo | Nil |
| Mr.Shankar A Ms. Shamal Salunkhe | 5 | 5 | informative IoT | Good |
| Mr. Sajid Shaikh | 3 | 3 | lot introduction | |
| Mrs J Manjula | 5 | 5 | Good | No |
| Dr.T.Joby Titus | 5 | 5 | IOT and green IOT | NIL |
| SHIVANAND BHIMASHANKAR KONADE | 5 | 5 | Good | Good session |
| Dr. Lakshmi Ranganatha V | 4 | 5 | | |

| 1 | İ | ĺ | | |
|------------------------------------|---|----------|---|--------------------|
| | | | Understandin g IoT design methodologie s, IoT levels, deployment template and | |
| Mr. Kartik Patel | 5 | 5 | appplications | Good session |
| Ms | 5 | 5 | Understood concept of Green IoT | |
| Mr.Harshavardhan Vijay kulkarni | 5 | 5 | To know iot applications, green iot implementati on | Nil |
| Mr.R.Karthickmanoj | 5 | 5 | lot | |
| | _ | _ | I learned | Number |
| Mrs.V Mosherani | 5 | 5 | about iot 6 level in iot , application of iot , different layer protocol,man aging space | Nice session |
| Mrs Dipti Jigar Karani | 5 | 5 | in cloud | |
| Mr. | 5 | 5 | Green IoT | |
| Ms. Diptee S. Patil | 5 | 5 | | |
| Dr. Gargi Sameer | | | | |
| Phadke | 3 | 4 | good | good |
| Mr. AJIT KUMAR SINGH | 5 | 5 | Learn green | |
| Mar A An avidabahasi | 4 | 4 | Know basics | Occid |
| Mrs.A.Angulakshmi | 4 | 4 | of IOT Interesting research topics cloud data handling and processing, cyber security | Good |
| Mrs. Ragini Gaikwad | 5 | 5 | management. | Excellent session. |
| Dr.Asawari Dudwadkar | 5 | 5 | IOT protocols usage, open source solution, use of available hardware, research areas | Good going |
| 2 todaran Dadwadkar | J | <u> </u> | 4,040 | 2304 gonig |

| VANDANA B PATIL | 5 | 5 | "Anytime, anywhere communication" has been a long-time dream and fueling advances in wireless communication technologies. Accordingly today, the ratio between radios and humans is almost one to one | EXCELLENT |
|----------------------------|---|---|---|-----------|
| Mr. RANJIT ARJUN KATKAR | 5 | 5 | Excellent presentation with suitable examples and explanation with interaction. Knowledge gaining experience. | |

| Mrs. Vishakha | | | Very | |
|------------------------------|---|---|-------------------------------|-------------------|
| krantikumar Gaikwad | 5 | 5 | informative | Nil |
| ASHOK KUMAR S | 5 | 5 | Informative | |
| ACHORROWAR | 3 | 3 | momative | |
| | | | understand | |
| Mrs.Gaikwad Sarika Ganpat | 5 | 4 | importance of green IOT | NICE SESSION |
| Сапрас | 3 | 7 | after | NICE SESSION |
| | | | successful | |
| | | | completion of this session, i | |
| | | | can able to | |
| | | | understand IOT levels | |
| | _ | _ | and Protocols | |
| Mr. | 5 | 5 | used in IoT. Very apt | very much useful. |
| | | | overview of | |
| | | | green IoT and how it is | |
| | | | going to be | |
| Mrs. | 5 | 4 | helpful for the | |
| IVII 5. | 5 | 4 | society. | |
| | | | | |
| | | | | |
| | | | Overview of | |
| | | | IOT , importance of | |
| Mrs Sangita Mahendra | _ | _ | IOT, need of | Theodores |
| Rajput | 5 | 5 | green IOT | Thank you so much |

| , | | | | 1 |
|---------------------|---|---|------------------|------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | good | |
| Vaibhav Prakash | 4 | 4 | knowledge | share slides |
| Tallotta Traitaon | - | | | 3.10.10 |
| | | | Sensing is for | |
| | | | collecting | |
| SANDEEP SINGH | 5 | 5 | various data | NO |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Mr Anand Bali | 5 | 5 | Levels of IoT | |
| | | | | |
| | | | | |
| Mark a main and all | | | Laguage Loo | |
| Mr vemireddy | _ | | Learned new | |
| suryanarayanareddy | 5 | 5 | things | |
| | | | We learnt | |
| | | | most critical | |
| | | | technologies | |
| | | | used for | |
| | | | green IoT | |
| | | | and | |
| | | | | |
| | | | keeping our | |
| | | | environment | |
| | | | and society | |
| | | | smarter and | |
| Dr. Amit V Patel | 5 | 5 | green. | NO |
| | | | designing | |
| | | | energy | |
| | | | efficient | |
| | | | | |
| | | | datacenters, | |
| | | | energy | |
| | | | efficient | |
| | | | transmission | |
| | | | of data from | |
| DHANAMMA JAGLI | 5 | 5 | sensors, | |
| | | | Today's | |
| | | | dependency | |
| | | | is on lot and | |
| | | | power | |
| | | | • | |
| | | | management | |
| 1 | | | is best with | |
| Arunkumar Mishra | 5 | 5 | IoT | None |
| | | | Now a days, | |
| | | | how loT plays | |
| | | | important role | |
| Dr. JAYANT R. | | | in our daily | |
| MAHAJAN | 5 | 5 | life | Session is very useful |
| INIVITATIVI | 5 | 5 | iii C | ocosion is very useful |

| | | | Takeaways : 1. Common | |
|----------------------|---|---|-----------------------------|----|
| | | | sensors used | |
| | | | in IoT | |
| | | | 2. IoT levels and | |
| | | | deployment | |
| | | | templates | |
| | | | with case | |
| | | | studies | |
| | | | 3. IoT | |
| | | | application domains | |
| | | | 4. IoT | |
| | | | characteristic | |
| | | | S | |
| | | | 5. Green IoT: | |
| | | | Overview | |
| | | | 6. IoT Protocols | |
| | | | 7. | |
| | | | Communicati | |
| | | | on models in | |
| | | | loT | |
| | | | 8. IoT Design | |
| | | | Methodology (with 10 | |
| | | | steps | |
| | | | involved) | |
| | | | 9. Wireless | |
| | | | sensor | |
| | | | networks | |
| | | | process and its | |
| | | | applications | |
| INDERJIT SINGH | | | 10 Research | |
| DHANJAL | 5 | 5 | areas in IoT | NA |
| | | | Green IoT, | |
| | | | IoT deployment | |
| | | | levels and its | |
| | | | examples, | |
| | | | IoT Design | |
| Suraj Khandare | 5 | 5 | Methodology | |
| | | | great | |
| | | | understandin g regarding | |
| | | | the basics of | |
| Mrs.Kadambari Sharma | 4 | 4 | green IOT | |

| Mrs. Smita D Khandagale 4 4 GIOT design Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of reducing the | | | | | |
|---|--------------|---|---|---------------|----------------|
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Khandagale 4 4 GIOT design Useful session Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| Internet of Things (IoT) is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | _ | | | |
| Things (loT) is an emerging concept, which aims to connect billions of devices with each other. The loT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green loT envisions the concept of | Khandagale | 4 | 4 | | Useful session |
| is an emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| emerging concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| concept, which aims to connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| which aims to connect billions of devices with each other. The loT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green loT envisions the concept of | | | | | |
| connect billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | which aims to | |
| billions of devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| devices with each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| each other. The IoT devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | devices with | |
| devices sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green loT envisions the concept of | | | | | |
| sense, collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| collect, and transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| transmit important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| important information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| information from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| from their surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| surroundings. This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| This exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| exchange of very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| very large amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| amount of information amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| amongst billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | amount of | |
| billions of devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| devices creates a massive energy need. Green IoT envisions the concept of | | | | | |
| creates a massive energy need. Green IoT envisions the concept of | | | | | |
| massive energy need. Green IoT envisions the concept of | | | | | |
| energy need. Green IoT envisions the concept of | | | | | |
| Green IoT envisions the concept of | | | | | |
| envisions the concept of | | | | Green InT | |
| concept of | | | | | |
| | | | | | |
| 1 | | | | reducing the | |
| energy | | | | energy | |
| consumption | | | | | |
| of IoT | | | | | |
| devices and | | | | | |
| making the | | | | | |
| environment safe. Inspired | | | | | |
| by achieving | | | | | |
| a sustainable | | | | | |
| environment | | | | | |
| | Rahul Tiwari | 5 | 5 | for IoT. | NA |

| | | | Green iot and | |
|------------------------|----------|----------|---------------|------------------|
| | | | ways to | |
| Ms. Brinzel Rodrigues | 5 | 5 | achieve that | |
| | | | Valuable | |
| | | | information | |
| | | | and | |
| | | | knowledge | |
| David Ada a Kadaa | _ | _ | gaining | |
| Ranjit Arjun Katkar | 5 | 5 | experience. | |
| | _ | | | |
| Mr.E.Udayakumar | 5 | 4 | Knowledge | |
| | | | | |
| | | | Very good | |
| Rupesh Kumar Dutta | 5 | 5 | session | |
| | | | Green IoT is | |
| | | | essential in | |
| | _ | _ | current | |
| Mrs. Trupti Furia | 5 | 5 | situation. | |
| | | | | |
| | | | | |
| | | | Was very | |
| Dr. Dilip Kumar Sharma | 5 | 5 | good | NIL |
| | | | | |
| | | | Ways to | |
| | | | design green | |
| Mr. Surendra Sutar | 4 | 4 | iot | Nicely organized |
| | | | reducing | |
| | | | energy | |
| | | | consumption | |
| | | | of IoT | |
| Ms.A.MARIYAMMAL | 4 | 4 | devices | |
| | · | | reducing | |
| | | | energy | |
| | | | consumption | |
| | | | of IoT | |
| Mr.S.GNANAMURUGAN | 4 | 4 | | good |
| | | | Excellent | |
| | | | session on | |
| | | | green | |
| Pratik Mukund Gumble | 5 | 5 | concept | |
| | | | | |
| | | | new | |
| Rakhi Yashwant Jadhav | 4 | 4 | technology | No |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Mrs. K. SHRUTHI | 4 | 4 | Basic r clear | Good |
| DARSHAN B D | 5 | 5 | Green iot | Good |
| 5, 4,0,1,4,1,5,5 | <u> </u> | <u> </u> | 3,0011100 | |
| | | | | |
| | | | major ways to | |
| M | | | achieve | |
| Mr. SHAIK RAHIL | | ء ا | Green IoT | |
| HUSSAIN | 4 | 4 | design | |

| Mrs. Sarika Pravin Kuhikar | 5 | 5 | Session was very informative | |
|-------------------------------|---|---|---|----------------------|
| Mrs. Amrita Jhaveri | 5 | 5 | Session explains about IOT applications, Various protocols, WSN | Excellent session |
| Anushree Ashish Prabhu | 5 | 5 | lot is upcoming field | No comment |
| Mrs.Mugdha R. Jogalekar | 5 | 5 | Green IOT basics | |
| Jayassre Ramakrishnan | 5 | 5 | There are six IoT levels 1 to 6. We can start working from level 1 with simple applications and move towards time critical, mission critical applications, there are 10 deployment steps to be followed for successful implementati on of IoT | Session is very good |
| Namrata Bonde | 5 | 5 | Overall session was good | |
| Mr.Yogesh Pandit | 5 | 5 | informative | No |

| Mr. Shaikh Kader B T | 5 | 5 | Simple explanation | |
|----------------------|---|---|--------------------|------|
| ANCI MANON MARY A | 5 | 4 | Good | Good |

List of Participants attended Day-1, Session-2 and Feedback

Resource Person: Dr. Y. S. Rao

| | Is delivery of the session as per | How would you rate the topics covered in this | Write takeaways or outcomes of | Any other |
|---------------------------|-----------------------------------|---|--------------------------------|------------------|
| Name | expectation? | session? | the Session. | comment. |
| JANI DILIP | _ | _ | Excellent | F |
| BATUKRAY SHIVANAND | 5 | 5 | knowledge | Excellent |
| BHIMASHANKAR | | | | |
| KONADE | 5 | 5 | Good | Good |
| Dr. Lakshmi | | | Coou | Cood |
| Ranganatha V | 4 | 5 | - | Nil |
| | | | Various | |
| | | | application of | |
| Mr. Sajid Shaikh | 3 | 3 | IOT | |
| Ms. VARSHA N | 5 | 5 | - | - |
| | | | Applications of | |
| M K C C D C I | _ | _ | loT in | Very informative |
| Mr. Kartik Patel | 5 | 5 | biomedical field | session |
| Mr.Shankar A | 5 | 5 | Real time applications | nil |
| ASHOK KUMAR S | 5 | 5 | Good | 1111 |
| ASHOR ROWAR S | 3 | 3 | IOT in medical | |
| Mrs.A.Angulakshmi | 5 | 4 | field | Good |
| Wite St. Strigglian Commi | | | The IoT world is | Cood |
| | | | all about | |
| | | | communication | |
| | | | between | |
| | | | devices, | |
| Ms. Rakhi Vijay | | | gateways, and | |
| Gupta | 3 | 4 | the Cloud; | |
| | | | Excellent | |
| | | | session explained along | |
| Mrs Smita D | | | with medicine | Excellent |
| Khandagale | 5 | 5 | and engineering | session |
| 1 / / / | | | How IoT is | 330.0 |
| | | | important and | |
| | | | helpful in | |
| | | | healthcare | Nice informative |
| Mrs. | 5 | 5 | sector. It can be | session |

| | | | adforfoot | |
|------------------|---|----------|--------------------|-------------------|
| | | | used for fast | |
| | | | diagnosis and | |
| | | | treatments of | |
| Destant O wills | | | patient. | |
| Prateek Gumble | 5 | 5 | | |
| | | | Sensors do | |
| | | | provide lots of | |
| | | | data but they | |
| | | | are also | |
| | | | unstructured | |
| | | | data. There | |
| | | | must be some | |
| | | | smart algo in | |
| | | | healthcare and | |
| | | | processing. | |
| | | | There are many | |
| | | | common | |
| | | | compenents in | |
| | | | loT and | |
| Mr. Arunkumar | | | healthcare | Good session |
| Mishra | 3 | 5 | components. | but bit lengthy. |
| | | <u> </u> | Understood | |
| Ms.Sakshi | | | application of | |
| M.Hosamani | 5 | 5 | loT | |
| Williosamam | | <u> </u> | Taxonomy in | |
| | | | research related | Nice session. |
| | | | to IoT and cloud | Day 1 both the |
| | | | | sessions were |
| Mrs. Dogini | | | computing for | |
| Mrs. Ragini | _ | _ | biological data | informative. |
| Gaikwad | 5 | 5 | handling. | Thank you. |
| | | | Application | |
| Mr.Harshavardhan | _ | _ | insights of iot n | _ , , , |
| Vijay Kulkarni | 5 | 5 | biomedical feild | Excellent lecture |
| Dr.T.Joby Titus | 5 | 5 | New technology | nil |
| | | | Application in | |
| | | | medical field | |
| | | | some circuit of | |
| | | | bp measures | |
| | | | EEG ECG spo2 | |
| Mrs Dipti Jigar | | | glucose | |
| Karani | 4 | 4 | measurements | |
| AJIT KUMAR | | | Application of lot | |
| SINGH | 5 | 5 | in biomedical | |
| | | - | In depth idea of | |
| | | | Biomedical and | |
| | | | how IoT is | |
| | | | useful in that | |
| Dr. Amit V Patel | 5 | 5 | field. | NA |
| Ms. Brinzel | | | Communication | |
| Rodrigues | 5 | 5 | models in iot | |
| rtourigues | 3 | 3 | Biomedical IoT | |
| | | | devices like | |
| | | | | |
| | | | SpO2 and | |
| | | | ventilators have | |
| | | | a lot of potential | |
| | | | as seen during | |
| | | | the Pandemic. | |
| | | | Edge computing | |
| Suraj Khandare | 5 | 5 | on the devices | |
| | | | | |

| | | | | T |
|---|----------|----------|--------------------|------------------|
| | | | also has a lot of | |
| | | | potential | |
| Ms. Shamal | | | | |
| Salunkhe | 5 | 5 | Good | Good |
| Rakhi Yashwant | | | | |
| Jadhav | 4 | 4 | new technology | no |
| | | | Informative | |
| Vaibhav Prakash | 4 | 4 | knowledge | share slides |
| DHANAMMA JAGLI | 5 | 5 | lot application | |
| | | | Biomedical | |
| Mr. Surendra Sutar | 4 | 4 | applications | Nicely organized |
| Mrs J Manjula | 5 | 5 | Good session | No |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | - | | Approaches to | - |
| | | | different WSN | |
| Sanjay B.Waykar | 5 | 5 | application s | No |
| Carijay B.Waykar | · · | <u> </u> | basic things | 110 |
| | | | about IoT based | |
| | | | Bio-medical | |
| Mr. | 4 | 4 | applications | Good |
| IVII. | 4 | 4 | different project | J000 |
| Mrs.Kadambari | | | ideas for | |
| | 4 | 4 | | |
| Sharma | 4 | 4 | implementation | Nice |
| Mrs. K. SHRUTHI | 4 | 4 | Good | Nice session |
| | | | Use of IoT in | |
| | | | biomedical field | |
| Dr. JAYANT R. | _ | _ | with different | Very useful |
| MAHAJAN | 5 | 5 | sensors. | session |
| Mr.R.Karthickmanoj | 5 | 5 | Good | |
| | | | IoT use in | |
| | | | human health | |
| | | | care, use of | |
| | | | microprocessors | |
| | | | and | |
| Mr.Sandeep Singh | 5 | 5 | microcontrollers | No |
| | | | lot in health care | |
| Dr. Asawari | | | applications, | |
| Dudwadkar | 5 | 5 | biomedical | Good session |
| | | | Biomedical | |
| | | | application WRT | |
| Mr. Anand Bali | 5 | 5 | IoT | |
| | - | | Valuable | Arrange few |
| | | | information and | more sessions |
| | | | knowledge | like this with |
| Mr. RANJIT ARJUN | | | gaining | more duration |
| KATKAR | 5 | 5 | experience. | and interaction. |
| Mrs. Vishakha | <u> </u> | <u> </u> | 5.1po11011001 | |
| krantikumar | | | | |
| Gaikwad | 5 | 5 | Very informative | |
| vemireddy | 3 | 3 | Learned new | |
| _ | 5 | 5 | things | |
| suryanarayanareddy | 5 | 5 | นแบร | |
| Dr. Dilip Kumar | _ | _ | □ | NE |
| Sharma | 5 | 5 | Fruitful | Nil |
| Mr.E.Udayakumar | 5 | 4 | Knowledge | |
| Mr. DARSHAN B D | 5 | 5 | Good | Good |
| | | | The take-away | |
| | | | is something | |
| | | | they will | |
| | | | remember, | |
| Mrs.V Mosherani | 5 | 5 | something | Good session |
| · | | - | - | |

| | T | | | |
|---------------------------|---|---|------------------------------------|----------------------|
| | | | someone said, | |
| | | | an activity they | |
| | | | did, a comment | |
| | | | someone made | |
| | | | | |
| | | | or a personal | |
| | | | commitment | |
| | | | they are | |
| | | | planning to | |
| | | | make as a result | |
| | | | of the session | |
| | | | How lot can be | |
| Er. Manoj S. | | | used to take | |
| | 4 | 4 | | المال ما |
| Kavedia | 4 | 4 | care of Health | all good |
| | | | | Plz provide |
| | | | | YouTube link. |
| | | | | Because due to |
| | | | IoT | some network |
| Mr. Tanveer Husain | | | communication | issues some |
| | E | 4 | | |
| Shaikh Feroz Khatik | 5 | 4 | patterns | part get missed. |
| | | | How IOT is used | |
| Mr. SHAIK RAHIL | | | in current | |
| HUSSAIN | 4 | 4 | situation | |
| | | | 1. How invention | |
| | | | of Blue LED had | |
| | | | impacted the | |
| | | | world. | |
| | | | | |
| | | | 2. | |
| | | | Characteristics | |
| | | | of successful | |
| | | | product | |
| | | | development. | |
| | | | 3. Information | |
| | | | | |
| | | | on Disruptive | |
| | | | technologies. | |
| | | | Classification | |
| | | | of Applications | |
| | | | based on | |
| | | | constraints | |
| | | | 5. Various | |
| | | | | |
| | | | Biological | |
| | | | signals | |
| | | | 6. GAPS in | |
| | | | information, | |
| | | | communication | |
| | | | and computation | |
| | | | 7. Data- | |
| | | | | |
| | | | oriented IoT and | |
| | | | service oriented | |
| | | | IoT | |
| | | | 8. Architecture | |
| | | | of IoT | |
| | | | 9. IoT | |
| | | | | |
| | | | Communication | |
| | i | | patterns | |
| | | | 10. IoT protocol | |
| | | | | |
| INDERJIT SINGH | | | and platforms. | Overall Rating: |
| | 5 | 5 | | Overall Rating: 9/10 |
| INDERJIT SINGH DHANJAL | 5 | 5 | and platforms. | Overall Rating: 9/10 |
| | 5 | 5 | and platforms. Green IoT in | |
| | 5 | 5 | and platforms. | |

| Ms. A.Mariyammal 4 4 4 equipment medical medical Green lot in medical Aware about biomedical applications Nice session Maxiva ANCI MANON MARY A 5 4 Good Good Session was very interesting and useful for biomedical applications Life critical, Business Critical, Mission critical, etc. Bio medical signals in lot most imp message that sir gave is "Technology has to be wisely chosen based on its gapication." Nice session Mrs. Amrita Jhaveri 5 5 Best No comments Mrs. Mughha Stuturaj Jogalekar 5 5 biomedical There are many disruptive technologies like lot, 3.0 printing, cloud technology, automation, electric vehicle we need to keep on updating even in designing a product-constant upgradation is required. Dr. Abhay Sphirsagar 4 4 In Normative No No No Normatical Sphirsagar Normatical Rultural Bonde 5 S Informative No Normatical Normatical Rultural Normatical Rultural Sphirsagar Normatical Sphirsagar No | | 1 | | One are let in | |
|--|-----------------------------|---|---|--|--------------|
| Ms. A.Mariyammal 4 4 4 equipment Green IoT in medical Components Good Mrs. Gaikwad Sarika Ganpat 4 4 aplications Nice session ANCI MANON MARY A 5 4 Good Good Mrs. Sarika Pravin Kuhikar 5 5 5 applications Mrs. Sarika Pravin Kuhikar 5 5 5 applications Mrs. Amrita Jhaveri 5 5 application." Mrs. Amrita Jhaveri 5 5 application." Mrs. Amrita Jhaveri 5 5 Best No comments Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. Mrs. | | | | | |
| Mr S GNANAMURUGAN 4 4 Aware about biomedical Aware about biomedical apllications Anici MANON MARY A 5 4 Good NA A NA STATE | | , | | |
| Mrs Gaikwad Sarika Ganpat ANCI MANON MARY A Mrs. Sarika Pravin Kuhikar Mrs. Sarika Pravin Kuhikar Mrs. Amrita Jhaveri Anushree Ashish Prabhu Mrs. Mugdha Ruturaj Jogalekar Mrs. Mugdha Ruturaj Jogalekar Jayassre Ramakrishnan Dr. Abhay Mrs. Gaikwad Aware about bomedical components Aware about bomedical aplications Nice session Aware about applications Nice session | Ms.A.Mariyammai | 4 | 4 | | |
| GNANAMURUGAN 4 4 4 components Good Mrs. Gaikwad Sarika Ganpat 4 4 4 aplications Nice session MARY A 5 4 Good Good Good Good Good Good Good Mrs. Sarika Pravin Kuhikar 5 5 5 4 Good Mrs. Sarika Pravin Kuhikar 5 5 5 4 Good Mrs. Sarika Pravin Kuhikar 5 5 5 6 Classification of IoT applications Life critical, Business Critical, Mission critical, etc. Bio medical signals in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its Mrs. Amrita Jhaveri 5 5 application." Nice session Mrs. Amrita Jogalekar 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 5 There are many disruptive technology, automation, electric vehicle we need to keep on updating even in designing a product- constant upgradation is required. Nice explanation about communication patterns, application of Nice session Nice session | | | | | |
| Mrs. Gaikwad Sarika Ganpat ANCI MANON MARY A 5 4 Good Good Good Session was very interesting and useful for biomedical and useful for biomedical and useful for biomedical applications Classification of loT applications . Life critical, Business Critical, Mission critical, etc. Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its Anushree Ashish Prabhu 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 Best No comments There are many disruptive technologis like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product- constant upgradation is required. Nice explanation about communication patterns, application of Nice session Nice session | | | | | |
| Mrs. Amrita Jhaveri 5 5 1 2 Best No comments Mrs. Amrita Jhaveri 5 5 5 Best No comments Mrs. Amrita Jogalekar 5 5 5 Japlication." Nice session Mrs. Amrita Jogalekar 5 5 5 Best No comments Mrs. Amrita Jogalekar 5 5 5 Best No comments Mrs. Amrita Jogalekar 5 5 7 Japlication." Nice session Mrs. Amrita Jogalekar 5 7 No comments Mrs. Amrita Jogalekar 5 No | GNANAMURUGAN | 4 | 4 | | Good |
| Sarika Ganpat 4 4 4 Apllications Nice session ANCI MANON | | | | | |
| ANCI MANON MARY A 5 4 Good Good Good Session was very interesting and useful for biomedical applications Life critical, etc. Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri Anushree Ashish Prabhu 5 Mrs. Mugdha Ruturaj Jogalekar 5 Sestion was very interesting and useful for biomedical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 Anushree Ashish Prabhu 5 Mrs. Mugdha Ruturaj Jogalekar 5 Sestion No comments uses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle—we need to keep on updating even in designing a product-constant upgradation is required. Nice explanation about communication patterns, application of Nice session Dr. Abhay Kshirsagar 4 VES NO Nice session | | | | | |
| MARY A 5 4 Good Good Session was very interesting and useful for biomedical applications Life critical, Business Critical, Business Critical, etc. Bio medical signals in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 5 application." Nice session Mrs. Amrita Jhaveri 5 5 5 best No comments Mrs. Amrita Jhaveri 5 5 5 best No comments Mrs. Mushree Ashish Prabhu 5 Best No comments Mrs. Mugdha Uses in biomedical There are many disruptive technology is like IoT, 3D printing, cloud technology, automation, electric vehicle we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Kshirsagar 4 4 4 IoT Nice session | | 4 | 4 | apllications | Nice session |
| Mrs. Sarika Pravin Kuhikar 5 | | | | | |
| Mrs. Sarika Pravin Kuhikar 5 Sarika Pravin | MARY A | 5 | 4 | | Good |
| Mrs. Sarika Pravin Kuhikar 5 Sapplications Life critical, Business Critical, Mission critical, etc. Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri Anushree Ashish Prabhu 5 Sapplication." Nice session Mrs. Mugdha Ruturaj Jogalekar 5 Sibiomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product- constant upgradation is required. Jayassre Ramakrishnan 5 Sice explanation about communication patterns, application of Nice session Nice session | | | | Session was | |
| Mrs. Sarika Pravin Kuhikar 5 5 5 5 5 5 5 5 5 5 | | | | very interesting | |
| Kuhikar 5 5 applications classification of lot applications , Life critical, Business Critical, Mission critical, etc.Bio medical signals in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 application." Nice session Anushree Ashish Prabhu 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 Best No comments Jogalekar 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Nice explanation about communication patterns, application of loT. Nice session Namrata Bonde 5 YES NO | | | | and useful for | |
| classification of loT applications , Life critical, Business Critical, Mission critical, etc.Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 Best No comments Mrs. Mugdha Suses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Nice session Nice session | Mrs. Sarika Pravin | | | biomedical | |
| classification of loT applications , Life critical, Business Critical, Mission critical, etc. Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 Best No comments Mrs. Mugdha Suses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Nice session Nice session | Kuhikar | 5 | 5 | applications | |
| IoT applications , Life critical, Business Critical, House Scritical, etc. Bio medical signals in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 application." Nice session Anushree Ashish Prabhu 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 biomedical There are many disruptive technologies like IoT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar 4 1 IoT Nice session Nice session | | | | | |
| Life critical, Business Critical, Mission critical, etc.Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product- constant upgradation is required. Jayassre Ramakrishnan 5 Nice explanation about communication patterns, application of Kshirsagar 4 4 4 IoT Nice session | | | | | |
| Business Critical, Mission critical, etc. Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its Anushree Ashish Prabhu 5 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product- constant upgradation is Ramakrishnan 5 5 required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Kshirsagar 4 4 4 loT Nice session Namrata Bonde 5 VES NO | | | | | |
| Critical, Mission critical, etc. Bio medical signals in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 5 Best No comments Mrs. Mugdha 5 5 5 Best No comments Mrs. Mugdha 5 5 5 Diomedical There are many disruptive technologies like IoT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 Tequired. Dr. Abhay Nice explanation about communication patterns, application of Kshirsagar 4 4 4 IoT Nice session Namrata Bonde 5 VES NO | | | | | |
| critical, etc.Bio medical signals in loT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 application." Nice session Anushree Ashish Prabhu 5 Best No comments Mrs. Mugdha Uses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Kshirsagar 4 4 4 1 IoT Nice session Namrata Bonde 5 YES NO | | | | | |
| medical signals in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 Best No comments Mrs. Mugdha 5 5 Best No comments Mrs. Mugdha 7 5 5 Best No comments Mrs. Mugdha 8 5 5 5 Best No comments Mrs. Mugdha 9 5 5 5 Best No comments Mrs. Mugdha 9 6 6 7 There are many disruptive technologies like IoT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre 8 7 S S S S S S S S S S S S S S S S S S | | | | | |
| in IoT most imp message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 5 Best No comments Mrs. Mugha Suses in biomedical Mrs. Mugha Suses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Suses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle we need to keep on updating even in designing a product-constant upgradation is required. Nice explanation about communication patterns, application of Nice session Namrata Bonde 5 YES NO | | | | | |
| message that sir gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 5 application." Nice session Anushree Ashish Prabhu 5 5 5 Best No comments Mrs. Mugdha uses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 5 required. Dr. Abhay Kshirsagar 4 4 4 I IoT Nice session Namrata Bonde 5 7 YES NO | | | | | |
| gave is "Technology has to be wisely chosen based on its application." Nice session Mrs. Amrita Jhaveri 5 5 5 Best No comments Mrs. Mugha Ruturaj Jogalekar 5 5 5 Best No comments Mrs. Mugdha Uses in biomedical There are many disruptive technologies like IoT, 3D printing, cloud technology, automation, electric vehicle we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 5 Tequired. Dr. Abhay Kshirsagar 4 4 4 IoT Nice session Namrata Bonde 5 YES NO | | | | | |
| Mrs. Amrita Jhaveri 5 5 application." Nice session Mrs. Amrita Jhaveri 5 5 application." Nice session Anushree Ashish Prabhu 5 5 Best No comments Mrs. Mugdha uses in biomedical Ruturaj Jogalekar 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Kshirsagar 4 4 IoT Nice session Namrata Bonde 5 YES NO | | | | | |
| Mrs. Amrita Jhaveri 5 5 5 application." Nice session Anushree Ashish Prabhu 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 7 Required. Dr. Abhay Kshirsagar 4 4 4 loT Nice session Nice session Nice session Nice session Nice session | | | | | |
| Mrs. Amrita Jhaveri 5 5 5 application." Nice session Anushree Ashish Prabhu 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 5 required. Dr. Abhay Kshirsagar 4 4 4 loT Nice session Namrata Bonde 5 YES NO | | | | | |
| Mrs. Amrita Jhaveri 5 5 5 application." Nice session Anushree Ashish Prabhu 5 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 5 Nice explanation about communication patterns, application of Kshirsagar 4 4 IoT Nice session Namrata Bonde 5 5 YES NO | | | | | |
| Mrs. Amrita Jhaveri55application."Nice sessionAnushree Ashish Prabhu55BestNo commentsMrs. Mugdha Ruturaj Jogalekar55biomedicalRuturaj Jogalekar7There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constantJayassre Ramakrishnan55required.Pr.Abhay Kshirsagar Namrata BondeNice explanation application of Nice sessionNamrata Bonde5YESNO | | | | | |
| Anushree Ashish Prabhu S S Best No comments uses in biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product- constant upgradation is required. Nice explanation about communication patterns, application of Kshirsagar Volume Version Namrata Bonde Volume No comments No comment | | _ | _ | | . . |
| Prabhu 5 5 5 Best No comments Mrs. Mugdha Ruturaj Jogalekar 5 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr. Abhay Kshirsagar 4 4 1 loT Nice session Namrata Bonde 5 5 YES NO | | 5 | 5 | application." | Nice session |
| Mrs. Mugdha Ruturaj Jogalekar 5 5 5 5 6 There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 7 8 8 8 8 8 9 1 8 1 8 1 8 1 8 1 8 8 8 8 8 | | _ | _ | | |
| Ruturaj Jogalekar 5 5 biomedical There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr.Abhay Dr.Abhay Namrata Bonde 5 5 YES NO | | 5 | 5 | | No comments |
| There are many disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 Nice explanation about communication patterns, application of Kshirsagar Value of the product of the product of the patterns of the patte | | | | | |
| disruptive technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 required. Dr.Abhay Dr.Abhay Kshirsagar 4 4 IoT Nice session Namrata Bonde 5 YES NO | Ruturaj Jogalekar | 5 | 5 | | |
| technologies like loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is Ramakrishnan 5 5 7 required. Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde 5 7 YES NO | | | | | |
| loT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is Ramakrishnan 5 5 7 required. Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde 1 IoT, 3D printing, cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is Ramakrishnan 5 5 7 YES NO | | | | | |
| cloud technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 5 5 required. Dr.Abhay Dr.Abhay Abhay Rshirsagar 4 4 4 IoT Nice session Namrata Bonde 5 YES NO | | | | | |
| technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant Upgradation is Ramakrishnan 5 7 required. Nice explanation about communication patterns, application of Nice session | | | | IoT, 3D printing, | |
| technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant upgradation is Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde technology, automation, electric vehicle - we need to keep on updating even in designing a product-constant Upgradation is Ramakrishnan 5 7 required. Nice explanation about communication patterns, application of Nice session | | | | | |
| automation, electric vehicle - we need to keep on updating even in designing a product- constant upgradation is Ramakrishnan 5 5 7 8 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 | | | | | |
| electric vehicle - we need to keep on updating even in designing a product- constant upgradation is Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar 4 4 4 10T Nice session Namrata Bonde Nice session | | | | | |
| we need to keep on updating even in designing a product-constant upgradation is required. Jayassre Ramakrishnan 5 Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde Vene no vene in designing a product-constant upgradation is required. Nice explanation about communication patterns, application of Nice session | | | | | |
| on updating even in designing a product-constant upgradation is required. Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde On updating even in designing a product-constant upgradation is required. Nice explanation about communication patterns, application of Nice session | | | | | |
| even in designing a product-constant upgradation is Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar 4 10T Nice session Noce even in designing a product-constant upgradation is required. Nice explanation about communication patterns, application of System Noce session | | | | | |
| designing a product-constant upgradation is Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar 4 10T Nice session Namrata Bonde 5 YES NO | | | | | |
| Jayassre Ramakrishnan 5 5 Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde 5 YES Nocenstant upgradation is required. Nice explanation about communication patterns, application of Nice session | | | | | |
| Jayassre Ramakrishnan 5 Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde 5 Constant upgradation is required. Nice explanation about communication patterns, application of Nice session Namrata Bonde 5 YES NO | | | | | |
| Jayassre Ramakrishnan 5 Signature Ramakrishnan 5 Nice explanation about communication patterns, application of Kshirsagar Namrata Bonde 5 YES Nice session Nice session | | | | | |
| Ramakrishnan 5 5 required. Nice explanation about communication patterns, application of Kshirsagar 4 10T Nice session Namrata Bonde 5 YES NO | lovosoro | | | | |
| Nice explanation about communication patterns, application of Kshirsagar 4 4 10T Nice session Namrata Bonde 5 5 YES NO | | _ | _ | | |
| about communication patterns, application of Kshirsagar 4 4 10T Nice session Namrata Bonde 5 5 YES NO | Ramaknshhan | 5 | 5 | | |
| Dr.Abhay Shirsagar Namrata Bonde Communication patterns, application of loT Nice session NO NO NO NO NO NO NO NO NO N | | | | | |
| Dr.Abhay Kshirsagar Namrata Bonde Dr.Abhay A patterns, application of loT Nice session NO NO | | | | about | |
| Dr.Abhayapplication ofKshirsagar44IoTNice sessionNamrata Bonde55YESNO | | | | | |
| Kshirsagar44IoTNice sessionNamrata Bonde55YESNO | | | | communication | |
| Namrata Bonde 5 5 YES NO | | | | communication patterns, | |
| | | | | communication patterns, application of | |
| Mr. Yogesh Pandit 5 Informative No | Kshirsagar | | | communication patterns, application of IoT | |
| | Kshirsagar Namrata Bonde | 5 | 5 | communication patterns, application of IoT | NO |

List of Participants attended Day-2, Session-1and Feedback

Resource Person: Dr. Anjali Yeole

| | | How would | | |
|---------------------|----------------|----------------|--------------------------|---------------|
| | Is delivery of | you rate the | Write | |
| | the session as | topics covered | takeaways or | |
| | per | in this | outcomes of | Any other |
| Name | expectation? | session? | the Session. | comment. |
| | | | Excellent | Excellent |
| Jani dilip Batukray | 5 | 5 | presentation | program |
| ANCI MANON MÁRY | | | ' | |
| Α | 4 | 4 | Good | Good |
| Mr. DARASHAN B D | 5 | 5 | Good | Good |
| | | | How to work | |
| Dr. Asawari | | | with Cooja | |
| Dudwadkar | 4 | 5 | simulator | Good |
| | | | Various | |
| | | | application of | |
| Mr. Sajid Shaikh | 3 | 3 | IoT | |
| Dr Lakshmi | | | | |
| Ranganatha V | 5 | 4 | | - |
| Mr.R.KARTHICKMAN | | | | |
| OJ | 5 | 5 | GOOD | |
| | | | Software | |
| Mrs.Kadambari | | | learning | |
| Sharma | 4 | 4 | contiki2.7 | |
| Mr.Shankar A | 5 | 5 | Infromative | nil |
| | | | Technical | |
| | | | details | |
| | | | regarding | |
| | | | implementatio | |
| Mrs. GAUTAMI | | | n of IoT for | |
| PUJARE | 4 | 4 | securities. | |
| Ms. VARSHA N | 5 | 5 | - | - |
| Dr.T.Joby Titus | 5 | 5 | Technology | Nil |
| | | | In the context | |
| | | | of Internet of | |
| | | | Everything, | |
| | | | any | |
| | | | vulnerability | |
| | | | can be | |
| | | | exploited and | |
| | | | cyber security | |
| | | | is of prime | |
| | | | importance. | |
| | | | The security | |
| | | | measures can | |
| | | | be tested by | |
| | | | using Cooja simulator | |
| Mrs Trupti Furia | 5 | 5 | environment. | |
| wiis Trupii Fulla | 3 | 3 | loT attacks, | |
| | | | Challenges for | |
| | | | adoption of | |
| | | | IoT, IoT | |
| Mr. Kartik Patel | 5 | 5 | security | Good session |
| | | | Journey | 2000 00001011 |

| | | | | 1 |
|------------------------|---|----------|------------------|---------------|
| | | | requirements, | |
| | | | Simulation of | |
| | | | IoT network | |
| | | | Cooja | |
| | | | simulator for | |
| Mr | 5 | 5 | IOT | |
| | J | 3 | 101 | |
| SHIVANAND | | | | |
| BHIMASHANKAR | | | | _ |
| KONADE | 5 | 5 | Good | Good |
| | | | Upcoming | |
| Mr. SHAIK RAHIL | | | technologies | |
| HUSSAIN | 5 | 5 | and threats | |
| | | | Implementatio | |
| Mrs Smita D | | | n of IOT for | |
| | _ | _ | | |
| Khandagale | 5 | 5 | securities | good session |
| | | | Informative | please share |
| Vaibhav Prakash | 4 | 4 | knowledge | slides |
| Mr Harshavardhan | | | - | |
| Vijay Kulkarni | 5 | 5 | iot security | nil |
| . gay ramarii | 3 | <u> </u> | Security is | |
| | | | | |
| | | | major thing to | |
| | | | consider while | |
| | | | design IOT | |
| | | | project ,eco iot | |
| Mrs Dipti Jigar Karani | 5 | 5 | system | |
| Mr. Shrikant | | | IoT security | |
| Balasaheb Shelke | 5 | 5 | issue | na |
| Daiasaries Srieike | 3 | 3 | loT in home | ıια |
| NA A A | _ | _ | | |
| Mrs.A.Angulakshmi | 5 | 5 | appliances | Good |
| Dr. Dilip Kumar | | | | |
| Sharma | 5 | 5 | Nice Session | Nil |
| | | | Clarify the | |
| Mrs. K. SHRUTHI | 4 | 4 | results | Good |
| | 7 | <u> </u> | IoT Eco | |
| | | | | |
| | | | system was | |
| | | | introduced | |
| | | | IoT Enable | |
| | | | Healthcare | |
| | | | devices with | |
| | | | classification | |
| | | | into various | |
| | | | categories | |
| | | | | |
| | | | New threats | |
| | | | and attack | |
| | | | vectors | |
| | | | How to | |
| | | | incorporate | |
| | | | security | |
| | | | Cooja | |
| | | | | Mondorful |
| | | | Simulation and | Wonderful |
| | | | Contiki OS | session and |
| Suraj Khandare | 5 | 5 | introduction | thanks to all |
| | | | Cooja | |
| | | | Simulator was | |
| | | | interesting | Nice session. |
| Mrs.Ragini Gaikwad | 5 | 5 | part. | Thank you |
| | 5 | <u>5</u> | | THATIK YOU |
| Mr Anand Bali | 5 | 5 | IoT simulator | |
| Mrs J Manjula | 5 | 4 | Good | No |

| | T | | oogurity. | |
|-----------------------------|---|----------|-------------------------|---------------------------|
| Sanjay B.Waykar | 5 | 5 | security aspects in iot | good |
| Sanjay B.Waykai | 3 | 3 | | good |
| | | | Security | |
| | | | protocols can be | |
| | | | | |
| | | | implemented | |
| | | | and tested for | |
| | | | any application | |
| | | • | using cooja | |
| Mrs Nilima Zade | 4 | 3 | simulator | |
| | _ | _ | Updation of | |
| Ashok Kumar S | 5 | 5 | knowledge | |
| | | | Simulation of | |
| | | | COOJA | |
| Mrs.Gaikwad Sarika | | | network | |
| Ganpat | 4 | 5 | understood | Good session |
| Rakhi Yashwant | | | New | |
| Jadhav | 4 | 4 | technology | No |
| | | | Commans | |
| Mrs.V Mosherani | 5 | 5 | attacks | Good session |
| | | | Valuable | - |
| | | | information | |
| | | | and | |
| | | | knowledge | |
| | | | gaining | |
| | | | experience. | |
| | | | Excellent | Arrange few |
| | | | presentation | more sessions |
| | | | with suitable | like this of same |
| | | | | |
| | | | examples and | resource person with more |
| | | | explanation with | |
| | | | | duration and |
| | | | interaction. | interaction with |
| A BANGET ABOUT | | | Knowledge | explanation and |
| Mr. RANJIT ARJUN | _ | _ | gaining | hand on |
| KATKAR | 5 | 5 | experience. | practice. |
| | | | Use of IoT in | |
| | | | smart city and | |
| | | | other | |
| | | | applications | |
| | | | and their | |
| | | | security. | |
| | | | How cooja | |
| | | | simulator are | |
| | | | important in | |
| | | | different | |
| Dr. JAYANT R. | | | sensor | Informative |
| MAHAJAN | 5 | 5 | network. | session |
| | - | <u> </u> | Valuable | |
| | | | information | Arrange few |
| | | | and | more sessions |
| | | | knowledge | like this with |
| | | | gaining | more duration |
| Mr. Ranjit Arjun Katkar | 5 | 5 | experience. | and interaction. |
| ivii. Naiijii Aijuii Naikal | J | 3 | loT Security | and interaction. |
| | | | issues and | |
| | | | | Nice |
| N/m | _ | - | cooja | |
| Mr. | 5 | 5 | simulations | presentation |
| Mr. Surendra Sutar | 4 | 4 | Applications | Nicely organized |
| DHANAMMA JAGLI | 5 | 5 | COOJA | |

| | | | | , |
|-----------------------|----------|----------|------------------------------|---|
| | | | Smart cities, | |
| | | | retail points, | |
| | | | smart grids, | |
| | | | agriculture and | |
| | | | farming, | |
| | | | homes and | |
| | | | offices | |
| | | | | |
| | | | The Internet of | |
| | | | Vehicles (IoV) | |
| | | | Connected | |
| Ms. Rakhi Gupta | 4 | 3 | cars | |
| | | | Cyber security | |
| | | | and | |
| | | | application of | |
| Mr.sandeep singh | 5 | 5 | iot | No |
| | 5 | <u>5</u> | | |
| Ms. Shamal Salunkhe | 5 | 5 | Good | Good |
| | | | How python | |
| | | | can be used | |
| Er.Manoj S. Kavedia | 4 | 4 | for Anlytics | All good |
| | | | 1. loT | |
| | | | Ecosystems | |
| | | | with several | |
| | | | | |
| | | | examples | |
| | | | 2. Information | |
| | | | on various | |
| | | | attacks on IoT | |
| | | | Challenges | |
| | | | for adopting | |
| | | | IoT | |
| | | | 4. Cooja | |
| | | | | |
| | | | simulator | |
| | | | Demo | |
| | | | 5. IoT Enable | |
| INDERJIT SINGH | | | healthcare | Overall rating: |
| DHANJAL | 4 | 5 | devices | 8/10 |
| Mr. Vemireddy | | | Learned iot | |
| suryanarayanareddy | 5 | 5 | security | |
| 23.75 | <u> </u> | <u> </u> | BASICS OF | |
| | | | Cooja | |
| | | | | |
| | | | simulator and | |
| | | | a bit about | |
| AJIT KUMAR SINGH | 5 | 5 | java | |
| | | | Essential part | |
| | | | of security in | |
| | | | IOT and cloud | |
| Pratik Mukund Gumble | 5 | 5 | applications | |
| Mrs. Vishakha | ن ا | <u> </u> | | |
| | _ | _ | very | |
| Gaikwad | 5 | 5 | informative | |
| | | | To learn and | |
| | | | understand | |
| | | | IoT OS and | |
| | | | implementatio | |
| Dr. Amit V Patel | 5 | 5 | n | NA |
| DI. / WITHE V T CALCI | 3 | 3 | GREEN IOT | 14/1 |
| | | | | |
| | | | DEVICE | |
| | | | ARCHITECHT | |
| Ms.A.MARIYAMMAL | 4 | 4 | URE | GOOD |
| | | | Simple | |
| Mr. Arunkumar Mishra | 4 | 5 | template for | Very informative |
| | • | • | 1 | . , , , , , , , , , , , , , , , , , , , |

| | | | manulaT | |
|-----------------------|----------|----------|-----------------|----------------|
| | | | many loT | |
| | | | command | |
| | | | GREEN IOT | |
| | | | DEVICE | |
| Mr.S.GNANAMURUG | | | ARCHITECHT | |
| AN | 4 | 5 | URE | OK |
| | | | Attacks on iot | |
| | | | system, iot | |
| Ms. Brinzel Rodrigues | 5 | 5 | simulation | |
| | | | Understood | |
| | | | the concept | |
| | | | related with | |
| Dr.PERARASI T | 5 | 4 | IoT | good |
| Mr.E.Udayakumar | 5 | 4 | Knowledge | |
| | | <u> </u> | Session was | |
| | | | interesting and | |
| | | | informative | |
| | | | based on | |
| Mrs. Sarika Pravin | | | COOJA | |
| Kuhikar | 5 | 5 | Simulator | |
| Anushree Ashish | <u> </u> | <u> </u> | Network | |
| Prabhu | 5 | 5 | simulator | No comments |
| Flabilu | 5 | 3 | Various | No comments |
| | | | | |
| | | | security and | |
| | | | design aspects | |
| | | | of any IOT | |
| | | | based | |
| | | | applications, | |
| | | | introduction to | |
| | | | Cooja | |
| | | | simulator to | |
| | | | test any IOT | |
| Mrs. Amrita Jhaveri | 5 | 5 | application | Well delivered |
| | | | Cooja | |
| Mrs. Mugdha Ruturaj | | | simulator | |
| Jogalekar | 5 | 5 | basics | |
| _ | | | Understood | |
| | | | importance of | |
| | | | IoT security in | |
| Jayassre | | | today's | |
| Ramakrishnan | 5 | 5 | scenario. | |
| | | | Nice info about | |
| | | | simulators, | |
| | | | pen sources | |
| | | | and | |
| Dr.Abhay Kshirsagar | 4 | 4 | applications | Nice Session |
| Namrata Bonde | 5 | 5 | yes | no |
| Ivaliliala Dullue | <u> </u> | ວ | Simple | TIU |
| Mr. Shaikh Kadar D.T. | r l | F | | |
| Mr. Shaikh Kader B T | 5 | 5 | understanding | |
| | | | Introduction to | |
| Maximus B. Br | _ | _ | Cooja | NI. |
| Mr.Yogesh Pandit | 5 | 5 | simulator | No |

List of Participants attended Day-2, Session-2 and Feedback

Resource Person: Mr. Shashank Karmarkar

| | | How would | | |
|---------------------|----------------|---------------|------------------|--------------------|
| | Is delivery of | you rate the | Write | |
| | the session | topics | takeaways or | |
| | as per | covered in | outcomes of | Any other |
| Name | expectation? | this session? | the Session. | comment. |
| | | | NB - IOT & | |
| | | | architectures, | |
| Dr. Asawari | | | low power | |
| Dudwadkar | 5 | 5 | modes | Good going |
| Dr.T. Joby Titus | 5 | 5 | technology | nil |
| ANCI MANON | | | | |
| MARY A | 4 | 4 | Good | Good |
| | | | Green IoT, | |
| | | | Smart city and | |
| Mr. Kartik Patel | 5 | 5 | applications | Good Session |
| SHIVANAND | | | | |
| BHIMASHANKAR | | | | |
| KONADE | 5 | 5 | Good | Good |
| Mr.Shankar A | 4 | 3 | informative | nil |
| | | | Smart city | |
| | | | mission is | |
| | | | feasible due to | |
| Mrs Nilima Zade | 3 | 3 | IoT | |
| JANI DILIP | | | | |
| BATUKRAY | 5 | 5 | Excellent | Excellent |
| Mrs.A.Angulakshmi | 4 | 5 | Smart city | Good |
| Dr. Lakshmi | | | - | |
| Ranganatha V | 5 | 5 | | |
| | | | Collective | |
| | | | information and | |
| | | | effective | |
| | | | presentation | |
| | | | with suitable | |
| | | | examples and | |
| | | | explanation with | |
| | | | interaction. | Arrange few more |
| | | | Knowledge | sessions like this |
| | | | gaining | with more duration |
| Ranjit Arjun Katkar | 5 | 5 | experience. | and interaction. |
| | | | smart city case | |
| Dr.Sanjay B.Waykar | 5 | 5 | study | good |
| | | | More steps | |
| | | | ahead from the | |
| | | | basic | |
| Dr. Amit V Patel | 5 | 5 | knowledge | NA |
| | | | Architectural | |
| | | | considerations, | |
| | | | NB-IoT for | |
| | | | LPWA | |
| | | | application, | Got new things to |
| | | | Power Saving | know. Informative |
| Mar David Circ | _ | _ | and CP-UP | session. Thank |
| Mrs. Ragini Gaikwad | 5 | 5 | optimization | you |
| Mr. RANJIT ARJUN | _ | _ | Knowledge | Very useful and |
| KATKAR | 5 | 5 | gaining | informative |

| | I | | | |
|--------------------------|-----|---------------|--------------------------------|----------------------|
| | | | experience and | session. Well |
| | | | valuable | planned and |
| | | | information | organized. |
| | | | acquired. | Excellent |
| | | | • | presentation with |
| | | | | suitable examples |
| | | | | and explanation |
| | | | | with interaction. |
| | | | | Knowledge |
| | | | | • |
| | | | | gaining |
| | | | | experience. |
| | | | | Arrange few more |
| | | | | sessions like this |
| | | | | of same resource |
| | | | | person with more |
| | | | | duration and |
| | | | | interaction with |
| | | | | explanation and |
| | | | | hand on practice. |
| Mrs J Manjula | 5 | 5 | Good | No |
| Mrs. K. SHRUTHI | 4 | 4 | Good session | Useful |
| mrs. Vishakha | | | | |
| Gaikwad | 5 | 5 | very informative | |
| Mr | 5 | 5 | Security of IoT | |
| | | | | Being an |
| | | | | instrumentation |
| | | | | engineer, |
| | | | Overview NB | understanding the |
| | | | IoT and its | core |
| | | | usage. | telecommunication |
| | | | Applications of | discussions was |
| | | | IoT in Smart | difficult, but the |
| | | | City. Discussion | overall scenario of |
| | | | on use cases | essential aspects |
| Mrs. Trupti furia | 5 | 5 | for the same. | is understood. |
| - Milor Fraparana | Ŭ | <u> </u> | Introduction of | 10 411401010041 |
| Mr. Sajid Shaikh | 3 | 3 | iot analytics | |
| Wir. Cajia Criaikir | | | TCP/ip and | |
| V Mosherani | 5 | 5 | primary function | Good session |
| V MOSHEIAIII | 5 | 5 | | Good Session |
| Ma Comanda Costa | 4 | 4 | Important | Nilaak, augus sisaal |
| Mr. Surendra Sutar | 4 | 4 | applications | Nicely organized |
| Mr.R.Karthickmanoj | 5 | <u>4</u> 5 | Good | _ |
| Ms. VARSHA N | 5 | 5 | - | Provide PPT and |
| | | | | |
| | | | | video if possible |
| M. OL. " . C. " | _ | _ | NU 1. T | for future |
| Mr Shrikant Shelke | 5 | 5 | Nb IoT | reference |
| | | | Architecture of | |
| | | | iot ,risk in iot, | |
| Mrs. Dipti Jigar | | | cellular iot | |
| Karani | 4 | 5 | application | |
| Dr. Dilip Kumar | _ | _ | N.I. | API |
| Sharma | 5 | 5 | Nice Importance of | Nil |
| 1 | l l | | Importance of ipv6, pillars of | |
| Mc Brinzel | | | | |
| Ms. Brinzel | _ | , | | |
| Ms. Brinzel Rodrigues | 5 | 5 | iot, | |
| | 5 | 5 | | Good |

| AJIT KUMAR | | | key pillars of | |
|------------------------------------|---|---|---|-----------------------|
| SINGH | 5 | 5 | loT | |
| SINGIT | 3 | 3 | Smart city Grid IoT brief architectures Smart city engineering jobs Green IoT ecosystem Why IoT analytics is important Narrow Band IoT Principles MTC: Machine to machine communication Use cases of NB-IoT | |
| INDERJIT SINGH DHANJAL | 5 | 5 | Use cases of Industrial IoT | Overall Session: 9/10 |
| Miss Rakhi Vijay Gupta | 4 | 3 | Gateway. Gateway enables easy management of data traffic flowing between protocols and networks. | |
| συρια | 4 | 3 | Government can make smart cities with the help of 5G technology only loT network and smart city teams Principles to follow for Green | Thank you for the |
| Suraj Khandare Ms. Shamal | 5 | 5 | IoT | wonderful session |
| Salunkhe | 5 | 5 | Good | Good |
| Mr.Sandeep Singh | 5 | 5 | APPLICATION OF IOT HHOW TO USE IOT | No |
| Mr. Arunkumar | | | All samsung defined protocol and IoT based systems with cloud and ip | Very informative |
| Mishra | 5 | 5 | based IoT | and useful |
| Mr. Darshan B D Mr Karthik Kumar | 5 | 5 | Good | Good |
| Vaigandla | 4 | 4 | | Good |
| Dr.PERARASI T | 4 | 4 | Understood the Protocols for lot | Informative |
| Mr Harshavardhan Vijay Kulkarni | 5 | 5 | EXPOSURE TO SMART CITY ECOSYSTEM | NIL |
| Mr.E.Udayakumar | 5 | 4 | Knowledge | |

| | | | Mar al | Г |
|-------------------------|----|----------|--------------------|-------------------|
| Mar Kadambad | | | Network | |
| Mrs.Kadambari | 4 | | evolution to 5G | |
| Sharma | 4 | 4 | was interesting | |
| | | | Technical | |
| | | | importance of | |
| | | | all important | |
| Mrs. Gautami Pujare | 4 | 5 | pillars of IoT | Good session |
| Rakhi Yashwant | | | | |
| Jadhav | 4 | 4 | technology | No |
| | | | iot | |
| DHANAMMA JAGLI | 5 | 5 | APPLICATIONS | |
| | | | Its beneficial for | |
| | | | understanding | |
| | | | IoT application | |
| | | | in city like | |
| | | | energy | |
| | | | ,water,transport | |
| Mrs.Gaikwad Sarika | | | management | Nicely topic |
| Ganpat | 4 | 5 | purpose | covered |
| Canpat | т. | | loT architecture, | oovoica |
| | | | loT design, and | |
| | | | it's | |
| | | | implementation | |
| Anand Dali | _ | _ | • | |
| Anand Bali | 5 | 5 | in smart city | |
| | | | Understanding | |
| | | | of 5G and | |
| Dr.JAYANT | | | Home | Informative |
| R.MAHAJAN | 5 | 5 | Automation | session |
| | | | Technical | |
| | | | importance of | |
| Mrs Smita D | | | all important | |
| Khandagale | 5 | 5 | pillars of IOT | Excellent session |
| Mr. SHAIK RAHIL | | | IMPORTANCE | |
| HUSSAIN | 4 | 4 | OF IPV6 | |
| | | | Informative | please share |
| Vaibhav Prakash | 4 | 4 | knowledge | slides |
| | | - | Protocols for | |
| Mr.S.Gnanamurugan | 4 | 4 | IOT | GOOD |
| Wir.O.Orianamaragan | т | 7 | Protocols for | СООВ |
| Ms.A.MARIYAMMAL | 4 | 4 | IOT | ОК |
| INIO.W.INIAU I WININIAL | 4 | 4 | | OI \ |
| Mrs. Cariles Dravin | | | Session was | |
| Mrs. Sarika Pravin | _ | _ | very | |
| Kuhikar | 5 | 5 | informative. | |
| Anushree Ashish | _ | _ | | |
| Prabhu | 5 | 5 | Best session | No comments |
| | | | Various | |
| | | | components of | |
| Mrs. Amrita Jhaveri | 5 | 5 | IOt protocols | Nice session |
| | | | Nicely | |
| | | | introduced to | |
| | | | NB IoT, | |
| Dr.Abhay Kshirsagar | 4 | 4 | Applications | Nice Session |
| Namrata Bonde | 5 | 5 | YES | |
| ramata Donae | 3 | <u> </u> | | I |

List of Participants attended Day-3, Session-1 and Feedback

Resource Person: Mr. Anurag Chugh

| | Is delivery of | How would you | Write | |
|------------------------------|--|-----------------|-------------------------------|------------------|
| | the session | rate the topics | takeaways or | |
| | as per | covered in this | outcomes of | Any other |
| Name | expectation? | session? | the Session. | comment. |
| JANI DILIP | | | | |
| BATUKRAY | 5 | 5 | Excellent | Excellent |
| | | | Introduction of | |
| | | | Siemens | |
| | | | appliances via | |
| Sajid Shaikh | 4 | 4 | iot | |
| | | | knowledge on | |
| Shankar A | 5 | 5 | IoT | nil |
| Dr. Lakshmi | _ | _ | | |
| Ranganatha V | 5 | 5 | | |
| Udayakumar E | 4 | 5 | Knowledge | |
| Dr. Dilip Kumar | _ | _ | | |
| Sharma | 5 | 5 | Good | Nil |
| | _ | _ | Innovative | |
| Mrs J Manjula | 5 | 5_ | session | No |
| DARSHAN B D | 5 | 5 | Good | Good |
| Dr.T.Joby Titus | 5 | 5 | Technology | NIL |
| VARSHA N | 5 | 5 | - | - |
| | | | Edge | |
| | | | technology, | |
| | | | profibus, | |
| | | | communication | |
| | | | protocol in | |
| | | | industry, safety | Great session, |
| Da Assurati | | | procedure, | industry outlook |
| Dr. Asawari | _ | _ | security | & |
| Dudwadkar | 5 | 5 | aspects. | securityaspects |
| V Mosherani | 5 | 5 | Profinet and | Cood coosion |
| v Mosnerani | 3 | 3 | edge technology Protocols and | Good session |
| | | | technology used | |
| Mro Trunti Eurio | 5 | 5 | in OT and IT. | |
| Mrs. Trupti Furia Ms. Shamal | 3 | 3 | in Or and II. | |
| | | _ | Cood | Cood |
| Salunkhe | 5 | 5 | | Good |
| SELVARAJ S | 5 | 5 | IIoT, Edge Computing | very useful. |
| SELVARAJ S | 3 | 5 | Cutting edge | very userui. |
| | | | technology, | |
| | | | challenges, | Good session |
| | | | applications, | with mentimeter |
| KARTIK PATEL | 5 | 5 | case studies | quiz |
| A.Angulakshmi | 4 | 5 | Hardware in IOT | Good |
| 7ruigulaksiiiiii | 4 | 3 | IOT using Edge | 3000 |
| Lokesh M. Giripunje | 5 | 5 | Technology | |
| Lokeon W. Ompunje | 3 | 3 | Tried to make | |
| | | | aware about | |
| Nilima Zade | 3 | 4 | industrial lot | |
| Shrikant Balasaheb | | | maddina fot | |
| Shelke | 5 | 5 | | |
| Dr. JAYANT R. | | | Importance of | Informative |
| MAHAJAN | 5 | 5 | EDGE | session |
| MALIAVALI | <u> </u> | <u> </u> | _ LDOL | JUJJIUH |

| | | | technology in | |
|---------------------|----------|----------|------------------------------|-----------------------------|
| | | | industrial | |
| 0 : 5 24 | | | applications | |
| Sanjay B.Waykar | 5 | 5 | edge technology | good |
| Harshavardhan Vijay | _ | _ | let in industry | NI:I |
| Kulkarni | 5 | 5 | lot in industry | Nil |
| | | | Technologies used in Siemens | |
| | | | for IIoT | |
| | | | Applications | Thank you for |
| | | | using Edge | the wonderful |
| Suraj Khandare | 5 | 5 | Computing | session |
| | | | Good | |
| | | | knowledge of | |
| | | | Industrial Edge | |
| | | | IoT and | |
| Dr. Amit V Patel | 5 | 5 | applications. | NA |
| | | | Application of | |
| | | | profibus. Edge | |
| | | | standard plc | |
| | | | and scada with | |
| Distilling Konst | _ | _ | IOT personal | |
| Dipti Jigar Karani | 5 | 5 | cloud | Man and Land |
| | | | | Very useful and informative |
| | | | | session. |
| | | | | Excellent |
| | | | | presentation |
| | | | | with suitable |
| | | | | examples and |
| | | | | explanation with |
| | | | | interaction and |
| | | | | question |
| | | | | answers |
| | | | | session. |
| | | | | Arrange few |
| | | | | more sessions |
| | | | | like this of same |
| | | | | resource person |
| | | | | with more |
| | | | Valuable | duration and |
| | | | information and | interaction with |
| Mr. RANJIT ARJUN | | | knowledge gaining | explanation and hand on |
| KATKAR | 5 | 5 | experience. | practice. |
| TWITTVIII | <u> </u> | <u> </u> | understanding | pidolioo. |
| | | | of Industrial | |
| | | | Edge | |
| | | | technology and | |
| SANDEEP SINGH | 5 | 5 | profinet | No |
| | _ | | Thus, the | |
| | | | adoption of | |
| | | | Industrie 4.0 | |
| | | | business | |
| | | | models in the | |
| | | | manufacturing | |
| DR VANDANA B | | | industry is | |
| PATIL | 5 | 5 | accelerated | |
| | | | informative | please share |
| Vaibhav Prakash | 4 | 4 | knowledge | slides |

| | 1 | | | |
|------------------------|---|---|--------------------------------|------------------|
| | | | Industrial edge- | |
| | | | Trend edge | |
| | | | computing, | |
| | | | Automation | |
| | | | tools with edge | |
| | | | runtime, hybrid | |
| | | | solutions, | |
| Danini Cailwad | _ | _ | · · | Nice ecoion |
| Ragini Gaikwad | 5 | 5 | python app. | Nice session. |
| | | | Details of Edge | |
| Gautami Aniruddha | | | Technology and | |
| Pujare | 5 | 5 | IoT | |
| | | | 1. Siemens | |
| | | | company setup | |
| | | | information and | |
| | | | | |
| | | | cutting-edge | |
| | | | technologies | |
| | | | that enable | |
| | | | autonomous | |
| | | | manufacturing. | |
| | | | 2. IoT enabled | |
| | | | manufacturing in | |
| | | | Siemens | |
| | | | | |
| | | | 3. Automation | |
| | | | Pyramid | |
| | | | communication | |
| | | | to each level | |
| | | | 4. Critical | |
| | | | requirements of | |
| | | | industrial | |
| | | | | |
| | | | network | |
| | | | Profinet and | |
| | | | Profibus | |
| | | | overview | |
| | | | 6. Integration of | |
| | | | IoT with other | |
| | | | | |
| | | | technologies | |
| | | | Data logging | |
| | | | to smart data | |
| | | | case studies | |
| | | | 8. Cloud-based | |
| | | | Open IoT | |
| | | | operating | |
| | | | | |
| | | | system. | |
| | | | 9. IoT Gateway | |
| | | | 10. IIoT demo | |
| | | | 11. Siemens | |
| | | | Industrial edge | |
| | | | devices and | |
| | | | technology | |
| | | | 12. PCM cutting | |
| INDED UT CINCLI | | | | |
| INDERJIT SINGH | | _ | machine case | N.A |
| DHANJAL | 4 | 5 | study | NA |
| | | | How to use IOT | |
| | | | Hardware , Its | |
| Er. Manoj S. Kavedia | 4 | 4 | Benefit | All good |
| Shivanand konade | 5 | 5 | Good | Good |
| Shivanana Konaue | 3 | 3 | | 3000 |
| Mr. Composite Costerio | | 4 | Edge | Nicoly comenies |
| Mr. Surendra Sutar | 4 | 4 | technology | Nicely organized |

| | | | | T |
|-----------------------|----------|----------|--------------------|-----------------|
| | | | industrial edge | |
| | _ | _ | technology in | |
| AJIT KUMAR SINGH | 5 | 5 | green iot | |
| | | | different | |
| | | | protocols | |
| Kadambari Sharma | 4 | 4 | needed in IOT | |
| | | | Understand | |
| Prof.Gaikwad Sarika | | | industrial edge | |
| Ganpat | 4 | 4 | technology | No |
| • | | | Industry | |
| Mr. Anand Bali | 5 | 5 | standards | |
| | | | Upcoming | |
| Mr. SHAIK RAHIL | | | industrial | |
| HUSSAIN | 5 | 5 | technologies | |
| Rakhi Yashwant | <u> </u> | <u> </u> | tecinologies | |
| Jadhav | 4 | 4 | Technology | No |
| | 4 | 4 | recrinology | INO |
| ANCI MANON MARY | 4 | _ | 01 | 01 |
| A | 4 | 5 | Good | Good |
| Vishakha Gaikwad | 5 | 5 | Very informative | |
| | | | Understood | |
| | | | basic hardware | |
| | | | with IoT; | |
| | | | PROFINET Vs | |
| Dr.T.Perarasi | 4 | 4 | PROFIBUS | good |
| S.Ashok Kumar | 5 | 5 | Knowledgeable | |
| | | | EDGE | |
| DHANAMMA JAGLI | 5 | 5 | technology | |
| Mrs. K. SHRUTHI | 4 | 4 | New idea | Good |
| WHO I'VE OF IIVO I'VE | · · | <u>'</u> | Session was | 0000 |
| | | | nice but bit of | |
| | | | | |
| | | | lagging. I got to | |
| | | | know many new | |
| | | | concepts about | |
| | | | industry level | |
| 1 | _ | _ | automation via | |
| Arunkumar Mishra | 5 | 5 | IoT sensors | None |
| | | | architecture | |
| | | | Design with | |
| | | | communication | |
| S.GNANAMURUGAN | 5 | 4 | network | OK |
| | | | architecture | |
| | | | Design with | |
| | | | communication | |
| A.MARIYAMMAL | 4 | 4 | network | ok |
| Mrs Smita D | | · | Industrial Edge | |
| Khandagale | 5 | 5 | technology | Nice session |
| Mrs. Sarika Pravin | <u> </u> | <u> </u> | Session was | . 1.00 00001011 |
| Kuhikar | 5 | 5 | very informative. | |
| Anushree Ashish | ິ | <u> </u> | very informative. | |
| | _ | - | Nico | No comments |
| Prabhu | 5 | 5 | Nice | No comments |
| Mrs. Mugdha Ruturaj | _ | _ | (111 | |
| Jogalekar | 5 | 5 | technologies | |
| | | | Learnt about | |
| | | | traditional vs IoT | |
| | | | enabled | |
| | | | manufacturing, | |
| | | | automation | |
| Jayassre | | | pyramid | |
| Ramakrishnan | 5 | 5 | different levels, | |
| | 3 | | , | I . |

| | | | horizontal & | |
|----------------------|---|---|------------------|--------------|
| | | | vertical | |
| | | | integration | |
| | | | Understood | |
| | | | edge | |
| | | | technology, IIoT | |
| Dr. Abhay Kshirsagar | 4 | 4 | applications | Nice Session |
| Namrata Bonde | 5 | 5 | YES | |
| | | | Simple | |
| Mr. Shaikh Kader B T | 5 | 5 | understanding | |
| | | | IIoT, Edge | |
| Mr.Yogesh Pandit | 5 | 4 | Computing etc | No |

List of Participants attended Day-3, Session-2 and Feedback

Resource Person: Mr. Dhananjay Jadhav

| | Is delivery of the session | How would you rate the topics covered | Write takeaways or | |
|---------------------|----------------------------|---|-----------------------|-------------|
| | as per | in this | outcomes of | Any other |
| Name | expectation? | session? | the Session. | comment. |
| ANCI MANON MARY | • | | | |
| Α | 3 | 3 | Good | Good |
| VARSHA N | 5 | 5 | - | + |
| Jani dilip Batukray | 5 | 5 | Excellent | Excellent |
| Shankar A | 5 | 5 | informtive | nil |
| Dr. T.Joby Titus | 5 | 5 | Technology | Nil |
| | | | Understood | |
| | | | Hardware | |
| Nilima Zade | 4 | 4 | implementeren | |
| Vardhan Vijay | | | lot | |
| Kulkarni | 5 | 5 | manufacturing | Nil |
| | | | Real life | |
| Sanjay B.Waykar | 5 | 5 | examples | Good |
| | | | Implementing | |
| | | | IoT projects in | |
| Mrs Trupti Furia | 5 | 5 | home network | |
| J Manjula | 5 | 5 | Good | No |
| vishakha Gaikwad | 5 | 5 | Very informative | |
| A.Angulakshmi | 4 | 4 | Industrial IOT | Good |
| Dr. Lakshmi | | | | |
| Ranganatha V | 5 | 5 | | Nil |
| | | | Technical | |
| | | | details of | |
| | | | installation and | Good |
| | | | implementation | informative |
| Gautami Pujare | 4 | 4 | | session |
| | | | IoT Protocols, | |
| | | | WSN and IoT | |
| | _ | _ | with | |
| SANDEEP SINGH | 5 | 5 | | NO |
| | | | Edge | |
| | | | technologies, | |
| | | | industrial lot | |
| Dr. Assurant | | | applications, | |
| Dr. Asawari | _ | _ | use of | No |
| Dudwadkar | 5 | 5 | microcontrollers. | No |

| | | | 1 1 - 4 | |
|---------------------------|---|----------|--------------------|------------------|
| | | | Learn a lot | |
| | | | during this | |
| | | | session: | |
| | | | 1. Citizen | |
| | | | Science using | |
| | | | IoT | |
| | | | | |
| | | | 2. DIY IoT | |
| | | | projects in-home | |
| | | | apartments | |
| | | | 3. Extremely | |
| | | | detailed | |
| | | | informative | |
| | | | | |
| | | | Projects case | |
| | | | studies of a. | |
| | | | Wired Sensor | |
| | | | Network, b. | |
| | | | Delhi Metro rail | |
| | | | Corporation c. | |
| | | | | |
| | | | Cell Site Battery | |
| | | | Monitoring | |
| | | | system d. | |
| | | | Health | |
| | | | Telematics f. | |
| | | | ADS-B receiver | |
| | | | | |
| | | | g. Home | |
| | | | Network Set-up | |
| | | | h.Electric | |
| | | | Energy meter | |
| | | | case study i. | |
| | | | Wifi Attendance | |
| | | | System j. | |
| | | | | |
| | | | Weather station | |
| | | | and ambient | |
| | | | sensors. | |
| | | | 4.OpenWRT | |
| INDERJIT SINGH | | | Router | |
| DHANJAL | 5 | 5 | rtodtoi | Ratings: 10/10 |
| DHANJAL | 3 | 3 | 14/ | Natings. 10/10 |
| | | | We can take | |
| | | | project in our | |
| | | | daily life with | |
| | | | some | |
| Dipti Jigar Karani | 5 | 5 | knowledge | |
| z.p.: oigai itaiaiii | | <u> </u> | Development | |
| | | | | |
| | | | Board, home | |
| | | | network setup, | |
| | | | Boeing | |
| Ragini Gaikwad | 5 | 5 | application | Nice session |
| <u> </u> | | | Informative and | |
| S.Ashok Kumar | 5 | 5 | useful | |
| | | | | |
| Udayakumar E | 4 | 5 | Knowledge | |
| | | | In depth and | |
| | | | practical | |
| | | | knowledge of | |
| Dr. Amit V Patel | 5 | 5 | lloT | NA |
| = | | <u> </u> | Protocols used | |
| | | | | Information |
| | | | for IoT in | Informative. |
| | | | industrial | Kindly share the |
| Dr.T.Perarasi | 5 | 5 | standards | lecture notes |
| Vemireddy | | | Learned | |
| suryanarayanareddy | 5 | 5 | application of iot | |
| - Sar yariara yariar cady | 3 | <u> </u> | application of lot | |

| Kartik Patel 5 5 5 Good Session Kartik Patel 5 5 5 Five levels of intelligence in lioT Delhi metro project information Twisted pair cable use Cell site battery monitoring system Keep on learning and trying projects of the wonderful information by speaker Dr. Dilip Kumar 5 5 Good Nil Levels of intelligence in lioT Levels of intelligence in lioT Wisted pair cable use Cell site battery monitoring system Keep on learning and trying projects of the wonderful information by speaker Dr. Dilip Kumar 5 5 Good Nil Levels of intelligence SelLYARA J S 5 5 OpenWRT_IIOT Super SelLYARA J S 5 5 OpenWRT_IIOT Super SelLYARA J S 5 5 Industrial iot SellYARA Sell SellYARA Sell SellYARA S | | 1 | | Ī | |
|--|---|----------------------------|-----------------------|--|---|
| Cables, OpenWRT projects, Cots and Microcontroller projects, Cots and Microcontroller projects. Cots and Microcontroller projects. Good Session Five levels of intelligence in IloT | | | | Advantages of | |
| Kartik Patel 5 5 5 Five levels of intelligence in libor the wonderful learning and information by speaker Dr. Dilip Kumar 5 5 Good Nil Mirrocontroller Uniformation Twisted pair cable use Cell site battery monitoring system Thank you for Keep on learning and information by speaker Dr. Dilip Kumar 5 5 Good Nil Mirrocontroller the wonderful learning and information by speaker Dr. Dilip Kumar 5 5 Good Nil Levels of intelligence SelLVARAJ S 5 5 OpenWRT, IIOT Super AJIT KUMAR SINGH 5 5 Industrial iot SHIMANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications Against 4 understand No Introduction of industrial iot Sajid Shaikh 4 industrial iot Sajid Shaikh 4 industrial iot Speaker Shamma 5 5 Good Good Red, Wireless Against Again Shaikh 4 industrial iot Speaker Shamma 5 5 Good Good Red, Wireless Speaker Shamma 5 5 Speaker Shamma 5 Speaker Sh | | | | twisted pair | |
| Kartik Patel 5 5 5 Good Session Suraj Khandare 5 5 Good Nil Suraj Khandare 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Intelligence Sindormanian Selvar Selvar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Intelligence Selvar Selvar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good How to build IOT project in different applications Against All Sajid Shaikh 4 4 Industrial iot Sajid Shaikh 4 4 Industrial iot Sajid Shaikh 4 4 4 Industrial iot Sajid Shaikh 4 4 4 Industrial iot Sajid Shaikh 5 5 5 Good Red, Wireless Red, Wireless Red, Wireless All good V Mosherani 5 5 Yes Communication protocol approaches Red, Wireless All good V Mosherani 5 5 Informative session Dr. JAYANT R. MAHAJAN 5 5 Ilife we session Mrs. K. SHRUTHI 4 4 New Frotocols and procedures for setting up the | | | | cables, | |
| Kartik Patel 5 5 5 Good Session Suraj Khandare 5 5 Good Nil Suraj Khandare 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Intelligence Sindormanian Selvar Selvar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Intelligence Selvar Selvar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good How to build IOT project in different applications Against All Sajid Shaikh 4 4 Industrial iot Sajid Shaikh 4 4 Industrial iot Sajid Shaikh 4 4 4 Industrial iot Sajid Shaikh 4 4 4 Industrial iot Sajid Shaikh 5 5 5 Good Red, Wireless Red, Wireless Red, Wireless All good V Mosherani 5 5 Yes Communication protocol approaches Red, Wireless All good V Mosherani 5 5 Informative session Dr. JAYANT R. MAHAJAN 5 5 Ilife we session Mrs. K. SHRUTHI 4 4 New Frotocols and procedures for setting up the | | | | OpenWRT | |
| Kartik Patel 5 5 5 Five levels of intelligence in liot Delhi metro project information Twisted pair cable use Cell site battery monitoring system Keep on learning and information by speaker Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 intelligence SELVARAJ S 5 OpenWRT, IIOT Super SHIVANAND SHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications A understand No Introduction of industrial iot Sajid Shaikh 4 4 industrial iot Sajid Shaikh 4 4 industrial iot Sajid Shaikh 4 5 5 IOT With codeing How to do programing of RPI using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good Er.Manoj S. Kavedia 4 4 Sensor network All good Protocol and protoc | | | | | |
| Microcontroller projects Good Session | | | | | |
| Kartik Patel 5 5 projects Good Session | | | | | |
| Five levels of intelligence in IIIoT Delhi metro project Information Twisted pair cable use Cell site battery monitoring system Keep on learning and | | | _ | | |
| intelligence in IIoT Delhi metro project information Twisted pair cable use Cell site battery monitoring system Keep on learning and learning and learning and system Keep on learning and Information by speaker Dr. Dilip Kumar Sharma 5 5 6 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 1 Intelligence information by speaker Thank you for Keep on learning and information by speaker Thank you for Keep on learning and information by speaker Thank you for Keep on learning and information by speaker Thank you for Keep on learning and information by speaker Thank you for Keep on learning and information by speaker Thank you for Meep on learning and information by speaker Thank you for Meep on learning and Information by speaker Thank you for Meep on learning and Information by speaker Thank you for Meep on learning and Information by speaker Thank you for Meep on learning and Information Information Information Information Information Information Information Information Information Informative session Informative Session Informative Session Informative Session Informative Session Informative Session Setting up the | Kartik Patel | 5 | 5 | | Good Session |
| IIOT Delhi metro project information Twisted pair cable use Cell site battery monitoring system Keep on learning and information by speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for | | | | Five levels of | |
| IIOT Delhi metro project information Twisted pair cable use Cell site battery monitoring system Keep on learning and information by speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Speaker Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for the wonderful learning and trying projects Thank you for | | | | intelligence in | |
| Delhi metro project project information Twisted pair cable use Cell site battery monitoring system Keep on Ilearning and Information by Speaker Dr. Dilip Kumar Sharma 5 5 Good Nil Levels of String projects Seaker Sharma 5 Good Nil Levels of Industrial iot SELVARAJ S 5 S 5 OpenWRT_IIOT Super SHINANAND SAIJI SEARCH A GROOD STREET STR | | | | | |
| project information Twisted pair cable use Cell site battery monitoring system Keep on learning and strying projects Suraj Khandare Dr. Dilip Kumar Sharma 5 5 5 Good Mr. SHAIK RAHIL HUSSAIN 5 5 5 Good Mil HUSSAIN 5 5 5 OpenWRT,IIOT Super AJIT KUMAR SINGH 5 5 1 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 6 Good How to build IOT project in different applications Ganpat 4 4 understand No Introduction of industrial iot Sajid Shaikh 4 4 industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 5 Yes EPOSE ET.CHOLOGY, INDUSTRIAL OT With codeing How to do programing of RPI using Node Red, Wireless Red, Wireless E.F. Manoj S. Kavedia 4 4 Sensor network B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Informative session Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | | | | - | |
| information Twisted pair cable use Cell site battery monitoring system Keep on learning and information by speaker Dr. Dilip Kumar Sharma 5 5 Good Mil Mr. SHAIK RAHIL HUSSAIN 5 5 Intelligence SELVARAJ S 5 OpenWRT,IIOT SHIVANAND SHIVANAND SHIVANAND SHIVANAND SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications understand No Introduction of industrial iot Sajid Shaikh 4 1 industrial iot Sajid Shaikh 4 1 industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 5 Yes Communication V Mosherani 5 5 Yes Communication Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 1 New Good Protocols and procedures for setting up the | | | | | |
| Twisted pair cable use Cell site battery monitoring system Keep on learning and information by speaker Dr. Dilip Kumar Sharma 5 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 intelligence SELVARAJ S 5 5 OpenWRT, IICT Super AJIT KUMAR SINGH 5 Industrial iot BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications AJIT KUMAR SINGH SIGNAMAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications Understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 TOT DHANAMMA JAGLI 5 TYPE ET.Manoj S. Kavedia 4 Sensor network All good P. JAYANT R. MAHAJAN 5 TYPE MAHAJAN 5 Iffe Sood Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | | | | | |
| Cable use Cell site battery monitoring system Keep on the wonderful learning and trying projects speaker Dr. Dilip Kumar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 Intelligence SELVARAJ S 5 OpenWRT, IIOT Super AJIT KUMAR SINGH 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 Good Good Prof. Gaikwad Sarika Ganpat 4 Introduction of industrial iot Sajid Shaikh 4 Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er. Manoj S. Kavedia 4 Sensor network B. BALAJI 5 Yes Communication V Mosherani 5 Yes Communication Dr. JAYANT R. MAHAJAN 5 Iife Mirs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | | | | | |
| Suraj Khandare 5 5 5 tryes Suraj Khandare 5 5 5 trying projects Suraj Khandare 5 5 5 trying projects Dr. Dilip Kumar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 5 DepenWRT ,IIOT Super AJIT KUMAR SINGH 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications applications applications and understand No Introduction of industrial iot Sajid Shaikh 4 4 industrial iot DHANAMMA JAGLI 5 5 IOT With codeing How to do programing of RPi using Node Red, Wireless E.Manoj S. Kavedia 4 4 Sensor network B. BALAJI 5 5 Yes V Mosherani 5 5 protocol Dr. JAYANT R. MAHAJAN 5 5 life Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | | | | Twisted pair | |
| Suraj Khandare 5 5 5 Good Information by speaker Dr. Dilip Kumar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good Prof. Gaikwad Sarika Ganpat 4 4 Introduction of industrial iot Sajid Shaikh 4 4 Introduction of Programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network B. BALAJI 5 5 Yes Communication V Mosherani 5 5 Informative session Importance of loT; nour daily Informative session Importance of loT in our daily Informative setting up the | | | | cable use | |
| Suraj Khandare 5 5 5 Good Information by speaker Dr. Dilip Kumar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good Prof. Gaikwad Sarika Ganpat 4 4 Introduction of industrial iot Sajid Shaikh 4 4 Introduction of Programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network B. BALAJI 5 5 Yes Communication V Mosherani 5 5 Informative session Importance of loT; nour daily Informative session Importance of loT in our daily Informative setting up the | | | | Cell site battery | |
| Suraj Khandare 5 5 5 Good hill wonderful information by speaker Dr. Dilip Kumar Sharma 5 5 6 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Industrial iot SELVARAJ S 5 5 OpenWRT, IIOT Super AJIT KUMAR SINGH 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good Frof.Gaikwad Sarika Ganpat 4 4 understand No Introduction of industrial iot Sajid Shaikh 4 4 Introduction of industrial iot DHANAMMA JAGLI 5 5 IOT With codeing How to do programing of RPI using Node Red, Wireless Fr.Manoj S. Kavedia 4 Sensor network B. BALAJI 5 Yes V Mosherani 5 5 Fife Mrs. K. SHRUTHI 4 New Good Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | | | | - | |
| Suraj Khandare 5 5 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 5 OpenWRT ,IIOT Super AJIT KUMAR SINGH 5 5 Good Good Prof. Gaikwad Sarika Ganpat 4 4 Industrial iot Sajid Shaikh 4 4 Industrial iot Sajid Shaikh 4 4 Industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 5 IO Er.Manoj S. Kavedia 4 Sensor network All good B. BALAJI 5 5 Yes T. JAYANT R. MAHAJAN 5 5 5 Informative session Mrs. K. SHRUTHI 4 New Good Mill Information by speaker Soud Nil How to do intelligence Securate of Securation Super Soud Nil Intelligence Soud Good Nil How to Build IOT project in different applications understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPI using Node Red, Wireless Sensor network All good Importance of IoT in our daily Informative Session Protocols and procedures for setting up the | | | | | Thank you for |
| Suraj Khandare 5 5 5 trying projects speaker Dr. Dilip Kumar Sharma 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 intelligence SELVARAJ S 5 OpenWRT, IIOT Super AJIT KUMAR SINGH 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications Ganpat 4 4 understand No Introduction of industrial iot Sajid Shaikh 4 4 industrial iot DHANAMMA JAGLI 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 Sensor network B. BALAJI 5 7 Yes V Mosherani 5 7 Protocol Good Dr. JAYANT R. MAHAJAN 5 5 If ior in our daily Mrs. K. SHRUTHI 4 New Good Protocous and procedures for setting up the | | | | | |
| Suraj Khandare Dr. Dilip Kumar Sharma 5 5 5 Good Nil Mr. SHAIK RAHIL HUSSAIN 5 5 Intelligence SELVARAJ S 5 OpenWRT, IIOT Super AJIT KUMAR SINGH SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications Ganpat 4 4 Introduction of industrial iot Sajid Shaikh 4 4 Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI DHANAMMA JAGLI 5 5 JOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia B. BALAJI 5 5 Yes Communication V Mosherani 5 5 Forotocol Good Session Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 New Good Nil Levels of Intelligence Sogod Nil Idevels of Intelligence Super Supe | | | | | |
| Dr. Dilip Kumar Sharma 5 Good Mr. SHAIK RAHIL HUSSAIN 5 intelligence SELVARAJ S 5 OpenWRT,IIOT Super AJIT KUMAR SINGH 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 Good How to build IOT project in different applications applications Ganpat 4 4 4 understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 Sensor network B. BALAJI 5 Tyes V Mosherani 5 S Good Good How to build IOT project in different applications applications A Understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Red, Wireless All good V Mosherani 5 Yes Communication protocol Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 New Good | | _ | _ | | |
| Sharma | | 5 | 5 | trying projects | speaker |
| Mr. SHAIK RAHIL HUSSAIN 5 intelligence intelligence intelligence SELVARAJ S 5 OpenWRT_IIOT Super | | | | | |
| HUSSAIN 5 5 intelligence | | 5 | 5 | | Nil |
| SELVARAJ S 5 5 5 OpenWRT, IIOT Super AJIT KUMAR SINGH 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications Ganpat 4 4 understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 Sensor network B. BALAJI 5 Yes Communication V Mosherani 5 Forotocol Dr. JAYANT R. MAHAJAN 5 Ife Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | Mr. SHAIK RAHIL | | | Levels of | |
| SELVARAJ S 5 5 5 OpenWRT, IIOT Super AJIT KUMAR SINGH 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications Ganpat 4 4 understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 Sensor network B. BALAJI 5 Yes Communication V Mosherani 5 Forotocol Dr. JAYANT R. MAHAJAN 5 Ife Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | HUSSAIN | 5 | 5 | intelligence | |
| AJIT KUMAR SINGH 5 5 Industrial iot SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good Prof.Gaikwad Sarika Ganpat 4 4 Introduction of industrial iot industrial io | | | | | Super |
| SHIVANAND BHIMASHANKAR KONADE 5 5 Good Good How to build IOT project in different applications understand No Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT Uith codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia B. BALAJI 5 Communication V Mosherani Dr. JAYANT R. MAHAJAN 5 INDUSTRIAL IOT Communication Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 No Good Good Good Good Good Good Good Good Frotocols and procedures for setting up the | | | | | |
| BHIMASHANKAR KONADE 5 Good How to build IOT project in different applications Applications Application of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT DHANAMMA JAGLI 5 TOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network B. BALAJI Tot V Mosherani Tot Dr. JAYANT R. MAHAJAN Mrs. K. SHRUTHI A Bood Good Frotocol Informative session Frotocol All good Frotocol B. Beach All Session Frotocol Beach Bea | | 3 | 3 | maasman lot | |
| KONADE 5 | | | | | |
| Prof. Gaikwad Sarika Ganpat 4 4 4 4 4 4 4 4 4 4 4 B. BALAJI Dr. JAYANT R. MAHAJAN Dr. JAYANT R. MAHAJAN Mond How to build iOT project in different applications understand No How to do programing of RPi using Node Red, Wireless Communication For to communication Dr. JAYANT R. MAHAJAN Mrs. K. SHRUTHI How to build iOT project in different applications applications applications in different applications applications applications in different applications applications in different applications applications applications in different applications applications in different applications in different applications in different applications of industrial iot EDGE TECHNOLOGY, INDUSTRIAL With codeing How to do programing of RPi using Node Red, Wireless All good For Communication good session Importance of loT in our daily informative session Informative session Protocols and procedures for setting up the | | _ | _ | 0 | 0 |
| Prof.Gaikwad Sarika Ganpat 4 4 4 4 4 4 4 4 4 4 4 4 4 | KUNADE | 5 | 5 | | G000 |
| Prof.Gaikwad Sarika Ganpat 4 4 4 4 4 Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 5 10T With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia B. BALAJI V Mosherani 5 5 7 5 Communication V Mosherani 5 5 7 Communication protocol Good session Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 V Mew Good Good Protocols and procedures for setting up the | | | | How to build | |
| Prof.Gaikwad Sarika Ganpat 4 4 4 4 4 Introduction of Introduc | | | | | |
| Ganpat 4 4 understand No Sajid Shaikh 4 4 industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Dr. JAYANT R. MAHAJAN 5 5 life session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | | | | | |
| Ganpat 4 4 understand No Sajid Shaikh 4 4 industrial iot EDGE TECHNOLOGY, INDUSTRIAL DHANAMMA JAGLI 5 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Dr. JAYANT R. MAHAJAN 5 5 life session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | | | | | |
| Sajid Shaikh 4 4 4 Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia B. BALAJI 5 Communication V Mosherani 5 Dr. JAYANT R. MAHAJAN 5 Informative session Mrs. K. SHRUTHI 4 Informative session Protocols and procedures for setting up the | Prof.Gaikwad Sarika | | | different | |
| Sajid Shaikh 4 | | 4 | 4 | different applications | No |
| DHANAMMA JAGLI 5 EDGE TECHNOLOGY, INDUSTRIAL 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 Sensor network B. BALAJI 5 Communication V Mosherani 5 Communication Forotocol Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | | 4 | 4 | different applications understand | No |
| DHANAMMA JAGLI 5 TECHNOLOGY, INDUSTRIAL 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network B. BALAJI 5 Yes Communication V Mosherani 5 Forotocol Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 New Good Technology, INDUSTRIAL S IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network All good Importance of IoT in our daily Informative session Protocols and procedures for setting up the | Ganpat | | | different applications understand Introduction of | No |
| DHANAMMA JAGLI 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | Ganpat | | | different applications understand Introduction of industrial iot | No |
| DHANAMMA JAGLI 5 5 IOT With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Dr. JAYANT R. MAHAJAN 5 5 Iife session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat | | | different applications understand Introduction of industrial iot EDGE | No |
| With codeing How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Importance of IoT in our daily Informative session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat | | | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, | No |
| How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 7es Communication Protocol Good session Importance of IoT in our daily Informative Session Mrs. K. SHRUTHI 4 4 New Good Protocols and Procedures for setting up the | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL | No |
| How to do programing of RPi using Node Red, Wireless Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 7es Communication Protocol Good session Importance of IoT in our daily Informative Session Mrs. K. SHRUTHI 4 4 New Good Protocols and Procedures for setting up the | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT | No |
| Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Importance of loT in our daily Informative session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing | No |
| Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Importance of loT in our daily Informative session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing | No |
| Er.Manoj S. Kavedia 4 4 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Importance of loT in our daily Informative session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do | No |
| Er.Manoj S. Kavedia 4 4 Sensor network All good B. BALAJI 5 5 Yes Communication V Mosherani 5 5 protocol Good session Importance of loT in our daily Informative session Mrs. K. SHRUTHI 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of | No |
| B. BALAJI 5 | Ganpat Sajid Shaikh | 4 | 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node | No |
| V Mosherani 5 5 5 6 6 7 7 7 8 7 8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 | Ganpat Sajid Shaikh DHANAMMA JAGLI | 5 | 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless | |
| V Mosherani Dr. JAYANT R. MAHAJAN Mrs. K. SHRUTHI MAHAJAN MAHA | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia | 5 | 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network | |
| Dr. JAYANT R. MAHAJAN 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia | 5 | 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes | |
| Dr. JAYANT R. MAHAJAN 5 Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI | 4 5 4 5 | 4 5 4 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication | All good |
| Dr. JAYANT R. MAHAJAN 5 Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI | 4 5 4 5 | 4 5 4 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol | All good |
| MAHAJAN 5 5 life session Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI | 4 5 4 5 | 4 5 4 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol | All good |
| Mrs. K. SHRUTHI 4 4 New Good Protocols and procedures for setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani | 4 5 4 5 | 4 5 4 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of | All good Good session |
| Protocols and procedures for setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani Dr. JAYANT R. | 4 5 4 5 5 | 4 5 4 5 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of IoT in our daily | All good Good session Informative |
| procedures for setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani Dr. JAYANT R. MAHAJAN | 4 5 5 5 5 | 4 5 5 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of IoT in our daily life | All good Good session Informative session |
| setting up the | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani Dr. JAYANT R. MAHAJAN | 4 5 5 5 5 | 4 5 5 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of IoT in our daily life New | All good Good session Informative session |
| | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani Dr. JAYANT R. MAHAJAN | 4 5 5 5 5 | 4 5 5 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of IoT in our daily life New Protocols and | All good Good session Informative session |
| | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani Dr. JAYANT R. MAHAJAN | 4 5 5 5 5 | 4 5 5 5 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of IoT in our daily life New Protocols and procedures for | All good Good session Informative session |
| Arunkumar Mishra 5 5 wireless very Good | Ganpat Sajid Shaikh DHANAMMA JAGLI Er.Manoj S. Kavedia B. BALAJI V Mosherani Dr. JAYANT R. MAHAJAN Mrs. K. SHRUTHI | 4 5 5 5 5 4 | 4 5 5 5 4 | different applications understand Introduction of industrial iot EDGE TECHNOLOGY, INDUSTRIAL IOT With codeing How to do programing of RPi using Node Red, Wireless Sensor network Yes Communication protocol Importance of IoT in our daily life New Protocols and procedures for setting up the | All good Good session Informative session Good |

| T T | | | | |
|----------------------|----------|---|------------------|------------------|
| | | | networks with | |
| | | | sensors | |
| | | | used to carry | |
| | | | both analog and | |
| S.GNANAMURUGAN | 4 | 5 | digital data. | OK |
| | | | IoT protocol and | |
| | | | wireless sensor | |
| A.MARIYAMMAL | 4 | 5 | network | OK |
| KARTHIK KUMAR | | | GOOD | |
| VAIGANDLA | 4 | 4 | SESSION | GOOD |
| | | | Intelligence | |
| Kadambari Sharma | 4 | 4 | levels in iot | |
| | | | Different IOT | |
| Mr. Surendra Sutar | 4 | 4 | applications | Nicely organised |
| Will Caronara Catar | • | • | intelligence in | Thoory organicou |
| | | | industrial IoT | |
| Mrs Smita D | | | communication | |
| Khandagale | 5 | 5 | protocol | Good session |
| Rakhi Yashwant | 3 | 3 | protocoi | Good Session |
| | 4 | 4 | Tachnalagu | No |
| Jadhav | 4 | 4 | Technology | No |
| Anushree Ashish | _ | _ | | No commentsno |
| Prabhu | 5 | 5 | Nice | com |
| Mrs. Sarika Pravin | | | Session was | |
| Kuhikar | 5 | 5 | very useful | |
| | | | Design before | |
| | | | coding is | |
| | | | important. | |
| | | | Projects should | |
| | | | not be left | |
| | | | halfway, keep | |
| | | | extending | |
| | | | further and | |
| Jayassre | | | develop a | |
| Ramakrishnan | 5 | 5 | product | |
| | | | Excellent | |
| | | | explanation | |
| | | | about small | |
| | | | applications, | |
| | | | hardware | |
| | | | importance in | |
| Dr. Abhay Kshirsagar | 5 | 5 | loT | Nice Session |
| Namrata Bonde | 5 | 5 | YES | 14100 00331011 |
| Ivaliliala DUIIUE | <u> </u> | ၁ | Informative and | |
| Vogoob Dondit | 4 | 4 | | No |
| Yogesh Pandit | 4 | 4 | useful | No |

List of Participants attended Day-4, Session-1 and Feedback

Resource Person: Dr. Saurabh N. Mehta

| Name | Is delivery of the session as per expectation? | How would you rate the topics covered in this session? | Write takeaways or outcomes of the Session. | Any other comment. |
|---------------------|---|--|---|--------------------|
| JANI DILIP | | | | |
| BATUKRAY | 5 | 5 | Excellent | Excellent |
| Ms. Shamal Salunkhe | 5 | 5 | Good | Good |

| | 1 | | 1 | T |
|----------------------|----------|----------|-------------------|---|
| | | | Hardware and | |
| | | | software | |
| | | | platforms of IoT, | |
| | | | Projects, | |
| | | | Versions of | |
| | | | Arduino and | |
| Kartik Patel | 5 | 5 | Raspberry pi | Good Session |
| ranii atoi | <u> </u> | | lot, basics of | 0000 00001011 |
| AJIT KUMAR SINGH | 5 | 5 | wsn | |
| | 5 | | | |
| Vishakha Gaikwad | | 5 | Very informative | |
| Sajid Shaikh | 3 | 4 | Introduction | |
| Dr. Dilip Kumar | | | | |
| Sharma | 5 | 5 | Good | Nil |
| SHIVANAND | | | | |
| BHIMASHANKAR | | | | |
| KONADE | 5 | 5 | Good | Good |
| | - | | WSN, protocols, | |
| | | | tools etc. nS2 | |
| Dr. Asawari | | | NS3, & | |
| | ے ا | _ | | Cood acina |
| Dudwadkar | 5 | 5 | comparison. | Good going |
| Dr.T.Joby Titus | 5 | 5 | IOT Devices | nil |
| | | | Hardware & | |
| A.Angulakshmi | 4 | 4 | Software in IOT | Good |
| | | | Selection of | |
| | | | hardware for | |
| | | | particular | |
| Dipti Jigar Karani | 5 | 5 | application | |
| Dipti digai Karani | 3 | <u> </u> | cloud | |
| Conjey D. Waydon | _ | _ | | |
| Sanjay B.Waykar | 5 5 | 5 | architecture | good |
| J Manjula | 5 | 5 | Good | No |
| | | | Comparison of | |
| | | | simulation and | |
| Mr. Anand Bali | 5 | 5 | hardware | |
| VARSHA N | 5 | 5 | - | - |
| | | | Wsn, raspberry | |
| DHANAMMA JAGLI | 5 | 5 | pi | |
| ANCI MANON MARY | | | _ F · | |
| A | 4 | 4 | Good | Good |
| A | т | <u></u> | | 0000 |
| | | | Use of open | |
| | | | source software | |
| | | | and hardware in | |
| Dr.JAYANT R. | | | different | Very informative |
| MAHAJAN | 5 | 5 | network. | session |
| | | | Simulation | |
| Lokesh Giripunje | 5 | 5 | Softwares | |
| | | | RaspberryPi, | |
| | | | cloud | |
| | | | Technology, | |
| Er. Manoj s. Kavedia | 4 | 4 | | All good |
| | 7 | | Beagle Board | good |
| | | | | |
| | | | cape, built in | |
| | | | networking | |
| | | | Remote access, | |
| | | | Simple linking | |
| | | | Wifi Platform, | |
| | | | Comparison of | |
| | | | different | Informative |
| | | | Wireless | session Thank |
| Ragini Gaikwad | 5 | 5 | networks, | you. |
| . tagiiii Caiitwaa | 3 | <u> </u> | , | , |

| | | | 0 | |
|--------------------------|---|-----|--------------------|-----------|
| | | | Good | |
| 0.4-1-1-16 | _ | _ | knowledgeable | |
| S.Ashok Kumar | 5 | 5 | session | |
| | | | LEARNT | |
| | | | ABOUT IOT | |
| | | | APPLICATION | |
| | | | IN | |
| HARSHAVARDHAN | | | TRANSPORTA | |
| VIJAY KULKARNI | 5 | 5 | TION | NIL |
| | | | Various kinds of | |
| | | | IOT devices and | |
| | | | software tools, | |
| | | | cloud support | |
| SELVARAJ S | 4 | 4 | for IOT | good |
| | | | Loads of | |
| | | | simulation tools | |
| | | | and wsn tools | |
| | | | with their | |
| | | | comparison. | |
| | | | Open source | |
| | | | resources are | |
| Mr. Arunkumar Mishra | 5 | 5 | well discussed | Very good |
| Will / Warmannar Willoma | | | 1. Future of IoT | vory good |
| | | | with facts and | |
| | | | figures, 2. | |
| | | | Industrial | |
| | | | players in IoT. 3. | |
| | | | Popular | |
| | | | hardware used | |
| | | | in IoT. 4. | |
| | | | | |
| | | | Arduino types, | |
| | | | its IDE, big 6 | |
| | | | concepts, and | |
| | | | Arduino board | |
| | | | projects. 5. R pi | |
| | | | hardware and | |
| | | | software | |
| | | | platforms. 6. | |
| | | | Information on | |
| | | | Node MCU and | |
| | | | beagle board | |
| | | | and PSOC. 7. | |
| | | | Comparative | |
| | | | study of | |
| | | | hardware tools. | |
| | | | 8. Cloud | |
| | | | computing: its | |
| | | | applications, | |
| | | | data storage, | |
| | | | hardware | |
| | | | infrastructure, | |
| | | | examples of | |
| | | | cloud services. | |
| | | | and challenges | |
| | | | in cloud | |
| | | | computing. 9. | |
| | | | Comparative | |
| INDERJIT SINGH | | | study of WSN | |
| DHANJAL | 4 | 4 | simulation tools. | NA |
| PITAINOAL | 4 | 1 4 | Jimulation tools. | 14/7 |

| <u> </u> | T | | | T |
|---|---|---|-------------------|------------------|
| | | | wireless | |
| | | | network,simulati | |
| | | | on tools, | |
| | | | comparison of | |
| Kadambari Sharma | 4 | 4 | different network | |
| | | | Raspberry Pi | |
| | | | Arduino ,WSN | |
| SANDEEP SINGH | 5 | 5 | Vs IOT | No |
| Mr. Surendra Sutar | 4 | 4 | Detailed wsn | Nicely organized |
| | | | Facts and | |
| | | | Figures of IoT | |
| | | | Open source | |
| | | | tools | |
| | | | Applications of | |
| | | | WSN | |
| | | | WSN vs IoT | |
| | | | Hardware like | |
| | | | Arduino, | |
| | | | Raspberry Pi, | Thank you for |
| | | | Beagle Board, | the wonderful |
| Surai Khandara | 5 | 5 | PSOC | |
| Suraj Khandare | 5 | 5 | | session |
| | | | Compare | |
| | | | Raspberry Pi | |
| | | | 400 vs | |
| | | | Raspberry Pi 4 | |
| | | | vs Raspberry Pi | |
| | | | 3 A+ vs | |
| | | | Raspberry Pi 3 | |
| | | | B+ vs Raspberry | |
| | | | Pi 3 vs | |
| | | | Raspberry Pi 2 | |
| DR VANDANA B | | | vs Raspberry Pi | |
| PATIL | 5 | 5 | Zero | excellent |
| | | | Different tools | |
| Prof.Gaikwad Sarika | | | and lot | |
| Ganpat | 4 | 5 | hardware | No |
| Shankar A | 5 | 4 | Informaive | Nil |
| SHAIK RAHIL | | | variations in | |
| HUSSAIN | 4 | 4 | Raspberry Pi | |
| | | | Very | |
| | | | introductory | |
| | | | session which | |
| | | | was almost | |
| | | | covered in | |
| | | | previous | |
| Nilima zade | 2 | 2 | sessions. | |
| 1 1111111111111111111111111111111111111 | | | Hardware and | |
| | | | software | |
| | | | knowledge of | |
| Dr. Amit V Patel | 5 | 5 | loT | NA |
| DI. AIIIIL V FALEI | 5 | 5 | Details of IoT | INA |
| | | | | |
| Cautami D. ia | _ | _ | applications and | Nilaa a |
| Gautami Pujare | 5 | 5 | implementation | Nice session |
| W-24 - 5 - 1 | | | Informative | please share |
| Vaibhav Prakash | 4 | 4 | knowledge | slides |
| | | | Various | |
| | | | hardware for IoT | |
| Dr. PERARASI T | 4 | 4 | & Tools used | Informative |
| Dr. Lakshmi | | | | |
| Ranganatha V | 5 | 5 | | Nil |
| | | | | |

| | | | 0 | |
|----------------------|----------|---|-------------------------------|-------------------------|
| | | | Open source | |
| BA - A BAADINAABAAA | 4 | 4 | tools USED for | 014 |
| Ms.A.MARIYAMMAL | 4 | 4 | green ioT | OK |
| | | | | Excellent |
| | | | | presentation |
| | | | | with suitable |
| | | | | examples and |
| | | | | explanation with |
| | | | | interaction. |
| | | | | Knowledge |
| | | | | gaining |
| | | | Valuable | experience. |
| | | | information and | Arrange few |
| | | | knowledge | more sessions |
| | | | gaining | like this of same |
| | | | experience. | resource person |
| | | | Excellent | with more |
| | | | presentation | duration and |
| | | | with suitable | interaction with |
| Mr. RANJIT ARJUN | | | examples and explanation with | explanation and hand on |
| KATKAR | 5 | 5 | interaction. | practice. |
| NATRAN | <u> </u> | 5 | Open source | practice. |
| | | | tools USED for | |
| Mr.S.Gnanamurugan | 4 | 4 | green ioT | ок |
| Mrs. K. SHRUTHI | 4 | 4 | Nice | Good |
| V Mosherani | 5 | 5 | Raspberry Pi | Good session |
| KARTHIK KUMAR V | 4 | 4 | | GOOD |
| Rakhi Yashwant | - | - | - | |
| Jadhav | 4 | 4 | technology | No |
| Udayakumar E | 5 | 4 | Knowledge | _ |
| Anushree Ashish | | | | |
| Prabhu | 5 | 5 | Nice | No comment m |
| | | | Different | |
| | | | hardware and | |
| | | | software | |
| | | | platform and | |
| | | | databases were | Very well |
| Mrs. Amrita Jhaveri | 5 | 5 | discussed | delievered |
| Mrs.Mugdha Ruturaj | | | Raspberry Pi | |
| Jogalekar | 5 | 5 | basics | |
| | | | Nice explanation | |
| | | | about devices | |
| | _ | _ | used in lot and | |
| Dr. Abhay Kshirsagar | 4 | 5 | their importance | Nice Session |
| Namrata Bonde | 5 | 5 | YES | |
| M. Obertheid in D.T. | _ | _ | Simple | |
| Mr. Shaikh Kader B T | 5 | 5 | understanding | |

List of Participants attended Day-4, Session-2 and Feedback

Resource Person: Mr. Gopalakrishnan Narayan

| | Is delivery of | How would you | Write | |
|---------------------|----------------|-----------------|------------------|---------------|
| | the session as | rate the topics | takeaways or | |
| | per | covered in this | outcomes of | Any other |
| Name | expectation? | session? | the Session. | comment. |
| ANCI MANON | | | | |
| MARY A | 4 | 4 | Good | Good |
| JANI DILIP | | | | |
| BATUKRAY | 5 | 5 | Excellent | excellent |
| Dr.T.Joby Titus | 5 | 5 | Technology | Nil |
| | | | Standards for | |
| | | | GPS and | |
| Dipti Jigar Karani | 5 | 5 | software for it | |
| | | | Details about | |
| | | | vehicle tracking | |
| Nilima Zade | 4 | 4 | system | Good topic |
| | | | Smart transport | |
| A.Angulakshmi | 4 | 4 | design | Good |
| SHIVANAND | | | | |
| BHIMASHANKAR | | | | |
| KONADE | 5 | 5 | Good | Good |
| Prof.Gaikwad Sarika | | | | |
| Ganpat | 4 | 4 | GPS application | No |
| J Manjula | 5 | 5 | Good | No |
| • | | | Ais140, AT | |
| | | | command, GPS | |
| | | | navigation, ARM | Very nice and |
| Arunkumar Mishra | 5 | 5 | processors | informative |
| Ms. Shamal | | | | |
| Salunkhe | 5 | 5 | Good | Good |
| | | | Understood the | |
| | | | Communication | |
| | | | protocols and | Good & |
| Dr.PERARASI T | 5 | 4 | standards | Informative |
| Dr. Dilip Kumar | | | | |
| Sharma | 5 | 5 | Good | Nil |
| Vishakha Gaikwad | 5 | 5 | Informative | |
| | | | AIS 140 | |
| | | | Architecture, | |
| | | | GSM and GPS | |
| | | | communication | |
| | | | standards, GSM | |
| | | | AT commands | |
| | | | for IOT | |
| SELVARAJ S | 5 | 5 | Applictions | good |
| | | | New terms like | |
| | | | POTA, FOTA | |
| | | | and practical | |
| | | | implementations | |
| Kadambari Sharma | 4 | 4 | of GPS. | |
| VARSHA N | 5 | 5 | - | - |
| Dr. Lakshmi | | | | |
| Ranganatha V | 5 | 5 | | Nil |
| Dr. JAYANT R. | | | AIS 140 | Informative |
| MAHAJAN | 5 | 5 | standards | Session |

| | | | 1.1.112 | |
|---------------------------|---|----------|------------------|-------------------|
| | | | Intelligent | |
| | | | Transport | 211 |
| Ms.A.MARIYAMMAL | 4 | 4 | Design AIS 140 | OK |
| | | | Design of | |
| | | | vehicle | |
| | | | detection | |
| Trupti Furia | 5 | 5 | system | |
| | | | Intelligent | |
| | | | Transport | |
| Mr.S.Gnanamurugan | 4 | 5 | Design AIS 140 | OK |
| Mrs. K. SHRUTHI | 4 | 4 | Nice | Good session |
| Er. Manoj S. | | | How GPS will | |
| Kavedia | 4 | 4 | be helpfull | all good |
| AJIT KUMAR | - | <u> </u> | | J |
| SINGH | 5 | 5 | More about gps | |
| Dr. Asawari | 0 | <u> </u> | NMEA protocol, | |
| Dudwadkar | 4 | 4 | GPS & demo | No |
| Dudwadkai | 4 | 4 | GF 5 & defile | Excellent |
| | | | | |
| | | | | presentation |
| | | | | with suitable |
| | | | | examples and |
| | | | | explanation with |
| | | | | interaction and |
| | | | | question |
| | | | | answers |
| | | | | session. |
| | | | | Knowledge |
| | | | | gaining |
| | | | | experience. |
| | | | | Arrange few |
| | | | | more sessions |
| | | | | like this of same |
| | | | | resource person |
| | | | | with more |
| | | | Valuable | duration and |
| | | | information and | interaction with |
| | | | knowledge | explanation and |
| Mr. RANJIT ARJUN | | | gaining | hand on |
| KATKAR | 5 | 5 | | |
| IVATIVAN | 3 | 5 | experience. | practice. |
| | | | AIS 140, Vehicle | |
| | | | tracking system, | |
| | _ | _ | AIS 140 Basic | |
| Kartik Patel | 5 | 5 | architecture | Good Session |
| | | | Bootloader | |
| | | | classification, | |
| | | | GNSS, DOP- | |
| | | | Dilution of | |
| Ragini Gaikwad | 5 | 5 | pricision | Nice session |
| | | | POTA, | |
| | | | Emergency | |
| | | | Response | |
| | | | System , Health | |
| | | | Check sms from | |
| SANDEEP SINGH | 5 | 5 | server. | No |
| S.Ashok Kumar | 5 | 5 | Useful | |
| Lokesh Giripunje | 5 | 5 | Al | |
| Loncon Ompanje | 3 | 5 | 1. History, | |
| | | | | |
| INDED HT CINCLI | | | specification, | |
| INDERJIT SINGH DHANJAL | _ | - | design, and | NA |
| I DHANJAI | 4 | 5 | implementation | NA |

| | | | of the intelligent | |
|---------------------|--------------|---|------------------------------|--------------|
| | | | transport system | |
| | | | Need for | |
| | | | AIS140 (5 why | |
| | | | ?) | |
| | | | 3. Basic | |
| | | | architecture and | |
| | | | block diagram of | |
| | | | | |
| | | | the AIS 140 | |
| | | | system | |
| | | | 4. Information | |
| | | | on Global | |
| | | | Navigation | |
| | | | Satellite System | |
| | | | (GNSS) | |
| | | | 5. Why SBAS is | |
| | | | required? | |
| | | | 6. NMEA | |
| | | | Format | |
| | | | | |
| | | | 7. GSM | |
| | | | specification | |
| | | | and Set-up | |
| | | | GSM | |
| | | | Activation | |
| | | | SMS from | |
| | | | server and | |
| | | | Health check | |
| | | | SMS from | |
| | | | server | |
| | | | 9. | |
| | | | Implementation | |
| | | | - | |
| | | | parameters over | |
| | | | the Air (POTA) | |
| | | | Learn iot | |
| | | | application to | |
| Vemireddy | | | statellite | |
| suryanarayanareddy | 5 | 5 | communication | |
| | | | DESIGN, | |
| | | | IMPLEMENTATI | |
| DHANAMMA JAGLI | 5 | 5 | ON | |
| | <u> </u> | | Informative | Please share |
| Vaibhav Prakash | 4 | 4 | | slides |
| Valoria V i Tanasii | _ | | Big epaper | Silado |
| | | | | |
| | | | display | |
| | | | GPS and GNSS | |
| | | | AIS 140 | |
| | | | approved GPS | |
| Suraj Khandare | 5 | 5 | tracking device | |
| SHAIK RAHIL | | | GPS | |
| HUSSAIN | 5 | 5 | Communication | |
| KARTHIK KUMAR | | | | |
| VAIGANDLA | 4 | 4 | - | GOOD |
| Rakhi Yashwant | <u> </u> | | | |
| Jadhav | 4 | 4 | technology | No |
| Sanjay B.Waykar | 5 | 5 | hardware details | good |
| Janjay D. Waykai | 5 | 5 | | guuu |
| DADOLIANDO | _ | _ | Some standard | |
| DARSHAN B D | 5 | 5 | S | Good |
| Udayakumar | 5 | 4 | Knowledge | |
| Mrs. Sarika Pravin | | | Session was | |
| Kuhikar | 5 | 5 | very informative | |
| | | - | • | • |

| A 1 A 1 1 | | | | |
|---------------------|---|---|-----------------|--------------|
| Anushree Ashish | | | | |
| Prabhu | 5 | 5 | Nice | No |
| | | | Highlights | |
| | | | automobile | |
| | | | tracking using | |
| Mrs. Amrita Jhaveri | 5 | 5 | IOT | Good session |
| Mrs. Mugdha Ruturaj | | | | |
| Jogalekar | 5 | 5 | Applications | |
| | | | IoT application | |
| | | | in transport | |
| Dr. Abhay | | | system, use of | |
| Kshirsagar | 4 | 4 | GPS | Nice Session |
| Namrata Bonde | 5 | 5 | YES | |
| Mr. Shaikh Kader B | | | Application | |
| T | 5 | 5 | development | |
| Mr.Yogesh Pandit | 4 | 5 | Informative | No |

List of Participants attended Day-5, Session-1 and Feedback

Resource Person: Mr. Nishant Singh

| | Is delivery of the session as per | How would you rate the topics covered in | Write takeaways or outcomes of | Any other |
|-------------------|---|---|--------------------------------|---|
| Name | expectation? | this session? | the Session. | comment. |
| ANCI MANON | _ | | | |
| MARY A | 5 | 4 | Good | Good |
| Dr. Dilip Kumar | _ | _ | | |
| Sharma | 5 | 5 | Good | Nil |
| Dr.T.Joby Titus | 5 | 5 | Technology | Nil |
| | | | AWS cloud iot | |
| A 117 17 18 48 D | | | system,mqtt and | |
| AJIT KUMAR | _ | _ | compare with | |
| SINGH | 5 | 5 | other protocol | |
| | | | | Such hands on session should be arranged at |
| | | | Real time | least for two to |
| | | | implementation of | three days |
| Nilima Zade | 5 | 5 | lot application | continuously |
| | | | Working on AWS | |
| | | | cloud, MQTT | Good hands on |
| Kartik Patel | 5 | 5 | protocol working | session |
| DARSHAN B D | 5 | 5 | Good | |
| J Manjula | 5 | 5 | Good session | No |
| Sajid Shaikh | 3 | 3 | Aws iot | |
| Dr. Asawari | | | lot python programing hands | |
| Dudwadkar | 5 | 5 | on | Good |
| Karthik Kumar | | | | |
| Vaigandla | 4 | 4 | | Good |
| | _ | _ | Case study explain, protocol | |
| Brinzel Rodrigues | 5 | 5 | used | |

| Arrange few more sessions like this of same resource person with more duration and knowledge gaining experience. Excellent presentation with suitable examples to hand on practice. Any advance and relevant topics and relevant topics and relevant topics and sessions. How to implement MQTT and Thing based sessions. Er.Manoj S. Kavedia 4 Speak Software how to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Realize Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Software flow to take over loss data due to internet Realize MQTT.COAP Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow to take over loss data due to internet Software flow t |
|--|
| Valuable information and knowledge gaining experience. Excellent presentation with suitable examples hand on practice. Any advance and relevant topics and technologies based sessions. How to implement MQTT and Thing Speak All good Prof. Gaikwad Sarika Ganpat 5 5 internet Realize MQTT, COAP difference A.Angulakshmi 4 4 Hands on training Good SANDEEP SINGH 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No WARSHA N 5 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No Warsha No S 5 5 - Computing for loT with Hands-on No No Warsha No S 5 5 - Computing for loT with Hands-on No No Warsha No S 5 5 - Computing for loT with Hands-on No No Warsha No S 5 5 - Computing for loT with Hands-on No No Warsha No S 5 5 - Computing for loT with Hands-on No No Warsha No S 5 5 - Computing for loT with Hands-on No No Warsha No S 5 5 - Computing for loT with Hands-on No |
| Valuable information and knowledge gaining experience. Excellent presentation with suitable examples have been made and technologies based sessions. Mr. RANJIT ARJUN KATKAR 5 5 3 and explanation. How to implment MCTT and Thing technologies based sessions. How to implment MCTT and Thing technologies based sessions. Dipti Jigar Karani 5 5 difference for loT with for loT with Hands-on SANDEEP SINGH 5 5 Hands-on No VARSHA N 5 5 5 Computing for loT with Hands-on SANAMARIYAMMAL 4 4 with Hands-on OK Ms. AMARIYAMMAL 4 4 With Hands-on OK DI. JayANT r. MALAJAN 5 5 5 Excellent Excellent Handshand practice protein for lot with handshand practice between MQTT and HTML HiveMQ, Active MQ, MQT |
| With more duration and interaction with and interaction with explanation and knowledge paining experience. Excellent presentation with suitable examples and explanation. Mr. RANJIT ARJUN S 5 and explanation. Mr. RANJIT ARJUN S 5 and explanation. MoTT and Thing Speak All good Er.Manoj S. Kavedia 4 4 Speak All good Er.Manoj S. Kavedia 5 5 data due to take over loss data due to internet Prof. Gaikwad Sarika Ganpat 5 5 difference Prof. Gaikwad Sarika 4 4 Hands on training Good SANDEEP SINGH 5 5 Hands-on VARSHA N 5 5 Computing for loT with Hands-on VARSHA N 5 5 Touting for loT with Hands-on OK MS.A.MARIYAMMAL 4 4 With Hands-on OK JAYANT TAYANT TEAL THE STANDARD SESSION SES |
| Valuable information and knowledge gaining experience. Excellent representation with explanation and knowledge paining experience. Excellent representation with suitable examples and explanation. Mr. RANJIT ARJUN S 5 and explanation. Matther the technique of the technique of the technologies and explanation. Matther the technique of the technologies and explanation. How to impliment MOTT and Thing Speak All good Er.Manoj S. Kavedia 4 4 Speak All good Luse of Aws software how to take over loss data due to internet Realize MOTT, COAP Society of the technologies of the technologies and adult to take over loss data due to internet Realize MOTT, COAP Society of the technologies of technologies of the technologies of the technologies of the technologies of the technologies of technologies of the technologies of technologies of technologies of technologies of technologies |
| Valuable information and knowledge gaining experience. Excellent presentation with suitable examples has davance and relevant topics presentation with suitable examples and explanation. How to implement MQTT and Thing Speak All good Valuable information and knowledge gaining experience. Excellent presentation with suitable examples and explanation. How to implement MQTT and Thing Speak All good Valuable information and interaction with experience. Excellent presentation with suitable examples the technologies based sessions. How to take over loss data due to data due to take over loss data due to dat |
| Valuable information and knowledge gaining experience. Excellent presentation with explanation and hand on practice. Any advance and experience experience. Excellent presentation with suitable examples and explanation. Mr. RANJIT ARJUN KATKAR 5 5 is and explanation. How to impliment MQTT and Thing Speak All good Er.Manoj S. Kavedia 4 4 Speak All good Er.Manoj S. Kavedia 5 5 internet Prof. Gaikwad Sarika Ganpat 5 5 difference No A.Angulakshmi 4 Hands on training for IoT with Hands-on No VARSHA N 5 5 - Computing for IoT with Hands-on No Use of AWS in real time example of Nike Difference between MQTT and HTML Handshand practice. DIANAMMA JAGLI 5 5 Excellent Excellent BATUKRAY 5 5 Excellent Excellent Suraj Khandare 5 5 Dashboard session Knowledge Saining Valuable information and knowledge hand on practice. Any advance and texplanation and not practice. Any advance and texplanation. All good tex |
| information and knowledge gaining gaining experience. Excellent presentation with suitable examples hased sessions. Mr. RANJIT ARJUN KATKAR 5 5 5 and explanation. How to impliment MQTT and Thing All good Er. Manoj S. Kavedia 4 4 Speak All good Lise of Aws software how to take over loss data due to internet Realize MQTT, COAP A.Angulakshmi 4 4 Hands on training Good SANDEEP SINGH 5 5 - MS.A.MARIYAMMAL 4 4 Hands on training Good MS.A.MARIYAMMAL 4 4 Hands on training Good Dir. JAYANT real time real time applications DIPLIP BATUKRAY 5 5 Excellent Excellent Handshand DHANAMMA JAGLI 5 5 Dashboard Suraj Khandare 5 5 Dashboard S.Ashok Kumar 5 5 gaining Excellent explanation and hand on revent the xollent and hand on relevant topics and training and technologies based sessions. All good Use of Aws on training Good Cloud Computing for IoT with Hands-on No Use of AWS in real time Informative session Informative session Thank you for the wonderful session Knowledge S.Ashok Kumar 5 5 gaining |
| knowledge gaining experience. Excellent presentation with suitable examples and explanation. Er. Manoj S. Kavedia Er. Mary S. Sale Sessions. All good Use of Aws Sano Rallia Sessions. No Er. Manoj S. Kavedia Er. Mary S. Sale Sessions. All good Use of Aws Sano Rallia Sessions. No Er. Manoj S. Kavedia Er. Mary S. Sale Sessions. All good Use of Aws Sano Rallia Se |
| gaining experience. Excellent Excellent presentation with suitable examples technologies based sessions. Mr. RANJIT ARJUN KATKAR 5 5 and explanation. How to implment MQTT and Thing All good Er.Manoj S. Kavedia 4 4 5 Speak All good Er.Manoj S. Kavedia 5 5 internet Dipti Jigar Karani 5 5 internet Prof. Gaikwad Sarika Ganpat 5 5 difference A.Angulakshmi 4 4 Hands on training Good A.Angulakshmi 4 4 Hands on training Good SANDEEP SINGH 5 5 Hands-on No VARSHA N 5 5 - MS.A.MARIYAMMAL 4 4 with Hands-on OK Dr. JAYANT CAMPANAN 5 5 5 Excellent DHANAMMA JAGLI 5 5 Excellent Excellent Handshand Phankyou for lor with Handshand DHANAMMA JAGLI 5 5 Dashboard SAIDER SINGH 5 THANKYOU Thank you for lor with Handshand DHANAMMA JAGLI 5 5 Dashboard session SAIDER SINGH 5 THANKYOU FOR MANAMYOU Thank you for the wonderful session SAIDER SINGH 5 THANKYOU FOR MANAMYOU SESSION MR. A.MARIYAMMAL 4 THANKYOU FOR MQ, MQTT and HTML HIVEMQ. Active MQ, MQTT the wonderful session S. Ashok Kumar 5 5 gaining |
| ## Advance and relevant topics and experience. Excellent presentation with suitable examples technologies based sessions. ## All good ## Appear |
| mr. RANJIT ARJUN Mr. RANJIT ARJUN KATKAR 5 5 5 All good Lise of Aws software how to take over loss data due to linternet Realize MQTT,COAP Alangulakshmi 5 All good Lise of Aws software how to take over loss data due to linternet Realize MQTT,COAP Alangulakshmi All good Lise of Aws software how to take over loss data due to linternet Realize MQTT,COAP Alangulakshmi All good Lise of Aws software how to take over loss data due to linternet Realize MQTT,COAP Alangulakshmi Alands on training Good Cloud Computing for loT with No VARSHA N 5 Computing for loT With Hands-on VARSHAN Dr. JAYANT LISE L |
| Mr. RANJIT ARJUN KATKAR 5 5 6 Mr. RANJIT ARJUN KATKAR 5 5 Mand explanation. How to impliment MQTT and Thing Speak All good Lise of Aws software how to take over loss data due to internet Realize MQTT, COAP Ganpat 5 A.Angulakshmi A.Angulakshmi 4 4 4 Hands on training Good Cloud Computing for loT with Hands-on VARSHA N Dr. JAYANT I. MALAJAN Dr. JAYANT I. MALAJAN JANI DILIP BATUKRAY DHANAMMA JAGLI Saraj Khandare 5 Care in the computing for lot with Handshand practice Real time example of Nike Difference Batukana Handshand DHANAMMA JAGLI Saraj Khandare Karaj Khandare Saraj Khandare Saraj Khandare Saraj Khandare Saraj Khandare Karaj Khandare Saraj Khandare Saraj Khandare Saraj Khandare Karaj Karani All good Computing for loT with Hands-on OK Computing for loT with Hands-on OK Computing for loT with Hands-on All good All good Computing for loT All good |
| Mr. RANJIT ARJUN KATKAR 5 5 5 Ind explanation. How to implment MQTT and Thing Speak Independent of the profession of |
| Mr. RANJIT ARJUN KATKAR 5 Suitable examples and explanation. How to impliment MQTT and Thing Speak All good Er.Manoj S. Kavedia 4 4 Speak All good Use of Aws software how to take over loss data due to internet Prof.Gaikwad Sarika Ganpat 5 5 difference No A.Angulakshmi 4 Hands on training Good Cloud Computing for IoT with Hands-on No VARSHA N 5 5 MS.A.MARIYAMMAL 4 4 with Hands-on OK Dr. JAYANT real time Informative session JANI DILIP BATUKRAY 5 5 Excellent DHANAMMA JAGLI 5 5 Dashboard Suraj Khandare 5 Dashboard S.Ashok Kumar 5 5 Dashboard Knowledge Saining Suraj Khandare 5 5 Dashboard Saind explanation. based sessions. |
| KATKAR 5 5 |
| Er.Manoj S. Kavedia 4 4 Speak All good Use of Aws software how to take over loss data due to Dipti Jigar Karani 5 5 internet Prof.Gaikwad Sarika Ganpat A.Angulakshmi 4 4 Hands on training SANDEEP SINGH SANDEEP SINGH For. JAYANT Dr. JAYANT L.MAHAJAN T.MAHAJAN DHANAMMA JAGLI DIAMAGE ALL BATUKRAY S 5 5 Excellent Handshand DHANAMMA JAGLI Suraj Khandare S Ashok Kumar 5 All good
| Er.Manoj S. Kavedia 4 4 Speak All good Use of Aws software how to take over loss data due to internet Prof.Gaikwad Sarika Ranpat 5 5 difference No A.Angulakshmi 4 4 Hands on training Good SANDEEP SINGH 5 5 Hands-on No VARSHA N 5 5 - Computing for IoT with Hands-on OK Use of AWS in real time Informative session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Dashboard Suraj Khandare 5 5 Dashboard S.Ashok Kumar 5 5 gaining MQTT and Thing Speak All good A |
| Er.Manoj S. Kavedia 4 4 Speak All good Use of Aws software how to take over loss data due to internet Prof.Gaikwad Sarika Ganpat 5 5 difference No A.Angulakshmi 4 4 Hands on training for loT with SANDEEP SINGH 5 5 Hands-on No VARSHA N 5 5 - MS.A.MARIYAMMAL 4 4 With Hands-on OK Dr. JAYANT C.MAHAJAN 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Dashboard Suraj Khandare 5 5 Dashboard S.Ashok Kumar 5 5 gaining |
| Er.Manoj S. Kavedia 4 4 Speak All good Use of Aws software how to take over loss data due to internet Prof.Gaikwad Sarika Ganpat 5 5 difference No A.Angulakshmi 4 4 Hands on training Good Cloud Computing for loT with SANDEEP SINGH 5 5 Hands-on No VARSHA N 5 5 5 - Ms.A.MARIYAMMAL 4 With Hands-on OK Dr. JAYANT C.MALAJAN 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Dashboard Suraj Khandare 5 5 Dashboard S.Ashok Kumar 5 5 gaining |
| Dipti Jigar Karani Dipti Jigar Karani Prof.Gaikwad Sarika Ganpat A.Angulakshmi Soural Sand Sand Sand Sand Sand Sand Sand Sand |
| Dipti Jigar Karani Dipti Jigar Karani Dipti Jigar Karani Frof. Gaikwad Sarika Ganpat A.Angulakshmi A.Angulakshmi A.Angulakshmi A.Angulakshmi A.Angulakshmi A.Angulakshmi B.Ands-on B.Ands-o |
| Dipti Jigar Karani Dipti Jigar Karani Dipti Jigar Karani Frof.Gaikwad Sarika Ganpat A.Angulakshmi B.Ands on training Good Cloud Computing for loT with Hands-on No Computing for loT A.Angulakshmi A.Angulakshmi B.Angulakshmi A.Angulakshmi A.Angulakshmi B.Angulakshmi A.Angulakshmi B.Angulakshmi B.Angulakshm |
| Dipti Jigar Karani Prof.Gaikwad Sarika Ganpat A.Angulakshmi Sander Sider Si |
| Dipti Jigar Karani Prof.Gaikwad Sarika Ganpat A.Angulakshmi A.Angulakshmi 4 4 4 Hands on training Good Cloud Computing for IoT with SANDEEP SINGH 5 5 Computing for IoT with Hands-on VARSHA N 5 Computing for IoT With Hands-on Varsha N Computing for IoT With Hands-on OK Use of AWS in real time Informative session JANI DILIP BATUKRAY DHANAMMA JAGLI DHANAMMA JAGLI S Excellent Handshand practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful Suraj Khandare S SAshok Kumar S S S S S S S S S S S S S |
| Prof.Gaikwad Sarika Ganpat 5 5 6 difference A.Angulakshmi 4 4 Hands on training Cloud Computing for loT with Hands-on No VARSHA N 5 5 - Computing for loT With Hands-on Ms.A.MARIYAMMAL 4 4 with Hands-on OK Use of AWS in real time applications JANI DILIP BATUKRAY 5 5 Excellent DHANAMMA JAGLI 5 5 Excellent BATUKRAY 5 5 Excellent Computing for loT With Hands-on OK Use of AWS in real time applications session Facility BATUKRAY 5 5 Excellent Computing for loT With Hands-on OK Use of AWS in real time applications session Facility BATUKRAY 5 5 Excellent Computing for loT With Hands-on OK Use of AWS in real time applications session Facility BATUKRAY 5 5 Excellent Facility BATUKRAY 5 5 Excellent Facility BATUKRAY Thank you for the wonderful Suraj Khandare 5 5 Dashboard Session Knowledge S.Ashok Kumar 5 5 gaining |
| Prof.Gaikwad Sarika Ganpat 5 5 5 difference No A.Angulakshmi 4 4 Hands on training Good Cloud Computing for loT with Hands-on No VARSHA N 5 5 - MS.A.MARIYAMMAL 4 4 With Hands-on OK Dr. JAYANT ral time Informative session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 pathoard session DHANAMMA JAGLI 5 5 Dashboard session Suraj Khandare 5 5 gaining MQTT,COAP difference No AMOTT,COAP difference No AMOTT,COAP difference No ANOTHER SESSION ANOTHER SESSION NO Computing for loT with Hands-on OK Use of AWS in real time Informative session Excellent Excellent Handshand practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful session Knowledge S.Ashok Kumar 5 5 gaining |
| Ganpat 5 5 difference No A.Angulakshmi 4 4 Hands on training Good Cloud Computing for IoT with Hands-on No VARSHA N 5 5 - Ms.A.MARIYAMMAL 4 4 with Hands-on OK Dr. JAYANT real time Informative session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Excellent Example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful Suraj Khandare 5 5 gaining S.Ashok Kumar 5 5 gaining |
| Ganpat 5 5 difference No A.Angulakshmi 4 4 Hands on training Good Cloud Computing for IoT with Hands-on No VARSHA N 5 5 - Ms.A.MARIYAMMAL 4 4 with Hands-on OK Dr. JAYANT real time Informative session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Excellent Example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful Suraj Khandare 5 5 gaining S.Ashok Kumar 5 5 gaining |
| A.Angulakshmi 4 4 Hands on training Good Cloud Computing for IoT with Hands-on No VARSHA N 5 5 - Computing for IoT Ms.A.MARIYAMMAL 4 With Hands-on OK Use of AWS in real time Informative session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Facal time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful Suraj Khandare 5 5 Dashboard session S.Ashok Kumar 5 5 gaining |
| Cloud Computing for IoT with Hands-on No VARSHA N 5 5 - Ms.A.MARIYAMMAL 4 4 With Hands-on OK Dr. JAYANT r.MAHAJAN 5 5 applications session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful Suraj Khandare 5 5 pashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| SANDEEP SINGH 5 5 Hands-on No VARSHA N 5 5 - Ms.A.MARIYAMMAL 4 4 With Hands-on OK Use of AWS in real time Informative session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful Suraj Khandare 5 5 Dashboard session S.Ashok Kumar 5 5 5 gaining |
| SANDEEP SINGH VARSHA N 5 5 Computing for IoT with Hands-on OK Use of AWS in real time applications session JANI DILIP BATUKRAY DHANAMMA JAGLI DHANAMMA JAGLI S S S Hands-on No Computing for IoT with Hands-on OK Use of AWS in real time applications session Informative session Excellent Handshand practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful session Suraj Khandare S S SAshok Kumar S S S Knowledge S Saning |
| VARSHA N 5 5 |
| Ms.A.MARIYAMMAL 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| Ms.A.MARIYAMMAL 4 4 with Hands-on OK Dr. JAYANT r.MAHAJAN 5 5 applications session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 Dashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| Dr. JAYANT r.MAHAJAN 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Dr. JAYANT r.MAHAJAN 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| Dr. JAYANT r.MAHAJAN 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| r.MAHAJAN 5 applications session JANI DILIP BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 Dashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| JANI DILIP BATUKRAY 5 5 Excellent Handshand practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 Excellent Handshand practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 5 6 Knowledge S.Ashok Kumar 5 5 5 5 5 5 5 5 5 5 5 5 5 |
| BATUKRAY 5 5 Excellent Excellent DHANAMMA JAGLI 5 5 Factore Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 Dashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| DHANAMMA JAGLI 5 5 Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 Dashboard Knowledge S.Ashok Kumar 5 5 Saining |
| DHANAMMA JAGLI 5 5 practice Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 Dashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| Real time example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 5 Dashboard Knowledge S.Ashok Kumar 5 5 5 gaining |
| example of Nike Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful suraj Khandare 5 5 5 Dashboard Knowledge S.Ashok Kumar 5 5 5 gaining |
| Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful session Knowledge S.Ashok Kumar 5 5 5 gaining |
| Difference between MQTT and HTML HiveMQ, Active MQ, MQTT the wonderful session Knowledge S.Ashok Kumar 5 5 5 gaining |
| between MQTT and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 5 Dashboard Knowledge S.Ashok Kumar 5 5 5 gaining |
| and HTML HiveMQ, Active MQ, MQTT Suraj Khandare 5 5 5 Dashboard Knowledge S.Ashok Kumar 5 5 gaining |
| HiveMQ, Active MQ, MQTT the wonderful session Suraj Khandare 5 5 5 gaining HiveMQ, Active MQ, MQTT the wonderful session Knowledge gaining |
| Suraj Khandare 5 5 Dashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| Suraj Khandare 5 5 Dashboard session Knowledge S.Ashok Kumar 5 5 gaining |
| S.Ashok Kumar 5 5 gaining |
| S.Ashok Kumar 5 5 gaining |
| |
| |
| Di Lanoinii |
| Ranganatha V 5 5 Nil |
| 1. Real-time case |
| studies for the |
| deployment of IoT |
| |
| for improvement. |
| 2. Deployment of |
| INDERJIT SINGH IoT application |
| DHANJAL 5 5 using AWS IoT NA |

| Т | = | | services to use | |
|-------------------|---|----------|--------------------|----------------|
| | | | cloud services | |
| | | | | |
| | | | 3. Information on | |
| | | | MQTT, HTTP, | |
| | | | and CoAP | |
| | | | 4. Recent | |
| | | | developments in | |
| | | | IoT | |
| | | | 5. Demo in | |
| | | | ThingSpeak | |
| | | | 6. Fields of | |
| | | | applications that | |
| | | | use MQTT | |
| | | | protocol | |
| | | | 7. MQTT working | |
| | | | | |
| | | | and brokers | |
| | | | information | |
| | | | 8. Sending | |
| | | | Sensor data over | |
| | | | MQTT | |
| Kadambari Sharma | 4 | 4 | IOT protocols | |
| SELVARAJ S | 5 | 5 | AWS cloud | Good |
| | | | Handson | Interactive |
| | | | sessions are | session. Thank |
| Ragini Gaikwad | 5 | 5 | interesting | you |
| Vishakha Gaikwad | 5 | 5 | Very informative | |
| Shankar A | 5 | 5 | Informative | nil |
| | | | In depth | |
| | | | knowledge and | |
| | | | practical | |
| Dr. Amit V Patel | 5 | 5 | implementation | NA |
| | | | Be account | |
| | | | creation on AWS | |
| | | | and IoT cloud with | |
| Arunkumar Mishra | 5 | 5 | QoS | Good session |
| Mrs Trupti Mane | 5 | 5 | Cloud computing | 0000 36331011 |
| wito Trupii Marie | J | 5 | HTTP occurs | |
| | | | | |
| | | | when we reuse | |
| | | | the single | |
| DD \/AND AN A | | | connection for | |
| DR VANDANA B | _ | _ | sending multiple | |
| PATIL | 5 | 5 | messages | |
| Lokesh Giripunje | 5 | 5 | IOT | |
| Sanjay B.Waykar | 5 | 5 | AWS IOT | Good |
| Mrs. K. SHRUTHI | 4 | 4 | New think | Good |
| SURENDRA | | | Use of cloud | Nicely |
| TUKARAM SUTAR | 4 | 4 | computing | Organised |
| Mrs Smita D | | | | |
| Khandagale | 5 | 5 | Cloud computing | Good |
| | | | Details regarding | |
| Gautami Pujare | 4 | 5 | mqtt | |
| Ms. Shamal | | | <u> </u> | |
| Salunkhe | 5 | 5 | Good | Good |
| | 3 | <u> </u> | real time case | |
| | | | studies explained | |
| | | | by the speaker for | |
| SHAIK RAHIL | | | deployment of IoT | |
| HUSSAIN | 5 | 5 | for improvement | |
| TIOOOAIIN | 5 | J | 101 improvement | |

| | | | Computing for IoT | |
|---------------------|---|----------|-----------------------|--------------|
| | | | with Hands-on | |
| Mr.S.Gnanamurugan | 5 | 4 | | ОК |
| Wir.S.Grianamurugan | ე | 4 | | UK |
| V Mosherani | 5 | 5 | Development of iot | Good session |
| v Mosnerani | ວ | <u> </u> | Informative | |
| Vaibbay Drakash | 4 | 4 | | Please share |
| Vaibhav Prakash | 4 | 4 | knowledge | slides |
| Rakhi Yashwant | 4 | 4 | ta da ala | |
| Jadhav | 4 | 4 | technology | no |
| E.Udayakumar | 5 | 5 | Knowledge | |
| Anushree Ashish | | | | |
| Prabhu | 5 | 5 | Good | No |
| Mrs. Sarika Pravin | | | Session was very | |
| Kuhikar | 5 | 5 | informative. | |
| | | | Hands-on on | |
| | | | making a thing | |
| | | | create a | |
| | | | certificate and | |
| | | | how to attach | |
| Mrs. Amrita Jhaveri | 3 | 3 | apolicy | No |
| Mrs. Mugdha Ruturaj | | | Basics of cloud | |
| Jogalekar | 5 | 5 | computing | |
| Mr. Shaikh Kader B | | | Simple | |
| Т | 5 | 5 | understanding | |
| | | | Good session and | |
| Mr.Yogesh Pandit | 5 | 4 | Informative | No |
| - J | | | AWS IoT, AWS | |
| | | | SNS, AWS | |
| | | | quicksight can be | |
| | | | learnt - hands on | |
| | | | gives better | |
| Jayassre | | | practical | |
| Ramakrishnan | 5 | 5 | knowledge | |
| ramannaman | J | 5 | Kilowieuge | |

List of Participants attended Day-5, Session-2 and Feedback

Resource Person: Mr. Nishant Singh

| Name | Is delivery of the session as per expectation? | How would you rate the topics covered in this session? | Write takeaways or outcomes of the Session. | Any other comment. |
|------------------|--|--|---|--------------------|
| ANCI MANON | | | | |
| MARY A | 4 | 4 | Good | Good |
| JANI DILIP | | | | |
| BATUKRAY | 5 | 5 | Excellent | Excellent |
| | | | Cloude computing | |
| Lokesh Giripunje | 5 | 5 | in IOT | |
| Dr.T.Joby Titus | 5 | 5 | Technology | Nil |
| Shankar A | 5 | 5 | Informative | Nil |
| VARSHA N | 5 | 5 | - | - |
| Mrs. K. SHRUTHI | 4 | 4 | Nice | Good |
| J Manjula | 5 | 5 | Good | No |
| • | | | depth knowledge | |
| AJIT KUMAR SINGH | 5 | 5 | of cloud | |
| Dr. Dilip Kumar | | | | |
| Sharma | 5 | 5 | Good | Nil |

| | | | Introduction Aws | |
|------------------------|---|---|---------------------------------|-----------------|
| Sajid Shaikh | 4 | 4 | iot | |
| A.Ángulakshmi | 4 | 4 | Hands on training | Good |
| | | | - | very nice |
| | | | | session, |
| | | | | these topic |
| | | | | should have |
| | | | implementation of | been covered |
| ulline a Zanla | _ | _ | iot application | in two to three |
| nilima Zade | 5 | 5 | using cloud how to use Cloud | days in detail |
| sandeep singh | 5 | 5 | Computing | No |
| Sandeep singn | J | 3 | Three steps to be | INO |
| | | | followed while | |
| SHAIK RAHIL | | | publishing data to | |
| HUSSAIN | 4 | 4 | cloud | |
| | | | Working on AWS | Good hands |
| Kartik Patel | 5 | 5 | server | on session |
| | | | AWS IOT | |
| | | | applications.Publi | |
| | | | sher, subscriber, br | |
| | | | oker like different | |
| Duet Cailman I Canilla | | | insurance | |
| Prof.Gaikwad Sarika | 4 | 4 | services IoT based | No |
| Ganpat | 4 | 4 | How to publish | INO |
| | | | and read data in | |
| Dipti Jigar Karani | 5 | 5 | cloud | |
| Dipti digai rtaram | | J | Cloud Computing | |
| | | | for IoT with | |
| Ms.A.MARIYAMMAL | 4 | 4 | Hands-on | OK |
| Trupti Mane Furia | 5 | 5 | Cloud computing | |
| | | | Cloud Computing | |
| | | | for IoT with | |
| Mr.S.Gnanamurugan | 5 | 4 | Hands-on | OK |
| Mrs Smita D | _ | _ | Publishing data to | Excellent |
| Khandagale | 5 | 5 | cloud | session |
| | | | Cloud data handling, rules, | |
| | | | attributes, AWS, | |
| Dr.Asawari | | | google cloud | |
| Dudwadkar | 5 | 5 | services, etc. | No |
| | | | publishing data to | |
| SELVARAJ S | 5 | 5 | the cloud | very nice |
| | | | Cloud computing | |
| DHANAMMA JAGLI | 5 | 5 | fot IOT | |
| | | | How Amazon | |
| - 11 10 11 11 | | _ | Web Services to | |
| Er. Manoj S. Kavedia | 4 | 4 | setup and use | All good |
| | | | Filter Notification | |
| | | | in AWS | |
| | | | subscription, GIOT | Nice session. |
| Ragini Gaikwad | 5 | 5 | Applications. | Thank you |
| Shamal Salunkhe | 5 | 5 | Good | Good |
| SHIVANAND | | 3 | 2004 | 3000 |
| BHIMASHANKAR | | | | |
| KONADE | 5 | 5 | Good | Good |
| | | | | • |

| | | | | Arrange few |
|--------------------|----------|---|-------------------------------------|---------------------|
| | | | | more sessions |
| | | | | like this of |
| | | | | same |
| | | | | resource |
| | | | | person with |
| | | | | more duration |
| | | | | |
| | | | | and |
| | | | | interaction |
| | | | Valuable | with |
| | | | information and | explanation |
| | | | knowledge | and hand on |
| | | | gaining | practice. Any |
| | | | experience. Gain | advance and |
| | | | all aspects, | relevant topics |
| | | | insights and | and |
| | | | advances in the | technologies |
| Mr. RANJIT ARJUN | | | field of Cloud | based |
| KATKAR | 5 | 5 | Computing for IoT | sessions. |
| IVALIVAIN | 5 | 3 | AWS IoT core | JUJJIUI 13. |
| | | | | Thonk was far |
| | | | working | Thank you for |
| | | | Learning new | the wonderful |
| | | | things for IoT | hands on |
| Suraj Khandare | 5 | 5 | cloud | session |
| | | | How to use AWS | |
| Dr. JAYANT R. | | | for cloud | Informative |
| MAHAJAN | 5 | 5 | computing | session. |
| B. BALAJI | 5 | 5 | Yes | |
| | | | Writing engine | |
| | | | rule. Setting up | |
| | | | subscription for | |
| | | | SMS and | Vary naw and |
| Arunkum or Michro | E | E | | Very new and useful |
| Arunkumar Mishra | <u> </u> | 5 | configuration etc | |
| V Mosherani | 5 | 5 | Engine format | Good session |
| Dr. Lakshmi | _ | _ | | |
| Ranganatha V | 5 | 5 | | Nil |
| | | | 1. Steps to be | |
| | | | followed while | |
| | | | publishing data to | |
| | | | the cloud | |
| | | | 2. Rule Engine | |
| | | | format for | |
| | | | incoming | |
| | | | messages? | |
| | | | 3. last Will | |
| | | | feature in AWS | |
| | | | | |
| | | | services | |
| | | | 4. AWS Lambda | |
| | | | service feature | |
| | | | and demo | |
| INDERJIT SINGH | | | Billing with free | |
| DHANJAL | 5 | 5 | Tier account | NA |
| | | | informative | |
| Vaibhav Prakash | 4 | 4 | knowledge | share slides |
| Vishakha Gaikwad | 5 | 5 | Very informative | |
| DARSHAN B D | 5 | 5 | APPLICATIONS | GOOD |
| | | | How to use AWS | |
| SURENDRA | | | for cloud | Infomative |
| TUKARAM SUTAR | 4 | 4 | computing | session |
| I DIVAIVAIVI SUTAR | 4 | 4 | Companing | 36331011 |

| Rakhi Yashwant | | | | |
|---------------------|----------|----------|--------------------------------|----|
| Jadhav | 4 | 4 | technology | no |
| Udayakumar E | 5 | 4 | Knowledge | |
| Anand bali | 5 | 5 | а | |
| | | | Filter notification | |
| | | | in AWS | |
| | | | subscription,GIOT | |
| Kadambari Sharma | 4 | 4 | Applns | |
| Anushree Ashish | | | | |
| Prabhu | 5 | 5 | Nice | No |
| | | | Session was very | |
| Mrs. Sarika Pravin | _ | _ | interesting and | |
| Kuhikar | 5 | 5 | useful | |
| | | | the advantages of | |
| | | | MQTT protocol | |
| | | | when compared | |
| | | | with HTTP | |
| | | | protocol and how | |
| | | | MQTT is more | |
| | | | suitable for | |
| | | | telemetry data. | |
| | | | QoS(Quality of Service) and | |
| | | | different levels of | |
| | | | QoS, persistent | |
| | | | and non- | |
| | | | persistent | |
| Mrs. Amrita Jhaveri | 3 | 4 | connections | No |
| Mrs. Mugdha Ruturaj | | <u> </u> | 3311100010110 | |
| Jogalekar | 5 | 5 | cloud basics | |
| 9 | <u> </u> | - | Even if the device | |
| | | | fails, Last will | |
| | | | message can be | |
| Jayassre | | | communicated to | |
| Ramakrishnan | 5 | 5 | the user | |

List of Participants attended Day-6, Session-1 and Feedback

Resource Person: Mr. Amit Rambhiya

| Name | Is delivery of the session as per expectation? | How would you rate the topics covered in this session? | Write takeaways or outcomes of the Session. | Any other comment. |
|------------------|---|--|---|--------------------|
| Dr. Lakshmi | _ | _ | | |
| Ranganatha V | 5 | 5 | | Nil |
| DARSHAN B D | 5 | 5 | Products | Good |
| Dr.T.Joby Titus | 5 | 5 | Technology | Nil |
| AJIT KUMAR SINGH | 5 | 5 | Application of lot in different areas | |
| Mrs Nilima Zade | 3 | 3 | Introduction about industrial application | |
| Kartik Patel | 5 | 5 | IoT Retails and applications | Good session |
| Kadambari Sharma | 4 | 4 | Great applications of IoT | |

| VARSHA N | 5 | 5 | Γ_ | |
|-------------------------|--------|----------|----------------------------|-------------------|
| VARSHA IN | 5 | ე | How lot with | - |
| | | | different | |
| | | | technology | |
| Er.Mano0j S. Kavedia | 4 | 4 | make life esay | All good |
| Dr. Dilip Kumar | | , | make ine eeay | 7 til good |
| Sharma | 5 | 5 | Good | Nil |
| JANI DILIP | J | | | |
| BATUKRAY | 5 | 5 | Excellent | Excellent |
| Sanjay B.Waykar | 5 | 5 | IOT applications | Good |
| J Manjula | 5 | 5 | Good | No |
| | | - | How to make life | - |
| A.Angulakshmi | 4 | 4 | easy? | Good |
| | | | Big data, Al role | |
| | | | in lot | |
| | | | applications, | |
| | | | panache | |
| | | | products in iot, | |
| | | | atmanirbhar | |
| | | | bharat , make in | |
| | | | India product | |
| Dr. Asawari | | | development | |
| Dudwadkar | 4 | 4 | etc. | No |
| | | | | Arrange few |
| | | | | more sessions |
| | | | | like this of same |
| | | | | resource person |
| | | | | with more |
| | | | Valuable | duration and |
| | | | information and | interaction with |
| | | | knowledge | explanation and |
| Mr. RANJIT ARJUN | _ | _ | gaining | hand on |
| KATKAR | 5 | 5 | experience. | practice. |
| | | | Understood | |
| | | | about Panache | |
| Dref Callanad Cariles | | | DigiLifes | |
| Prof.Gaikwad Sarika | 5 | 4 | different and IoT | No |
| Ganpat | 3 | 4 | applications "Making Human | No |
| DEDADAGIT | 4 | 1 | | GOOD |
| PERARASI T Shankar A | 4 5 | 4 | Life Easy" Informative | Nil |
| Olialikai A | 3 | 4 | Devices for daily | INII |
| | | | usages, for retail | |
| | | | shop for | |
| Dipti Jigar Karani | 5 | 5 | reducing theft | |
| Dipti digai Natatii | 3 | <u> </u> | Information of | |
| | | | Panache digiLife | |
| | | | company and its | |
| | | | business | |
| | | | overview | |
| | | | 2. Education | |
| | | | footprint | |
| | | | devices, pen | |
| | | | devices, and Al | |
| | | | Teach TV | |
| | | | developed by | |
| | | | Panache | |
| | | | 3. Electronics | |
| INDERJIT SINGH | | | Gadgets | |
| DHANJAL | 4 | 4 | contributed by | NA |
| D17/110/12 | | | continuated by | 14/1 |

| | | | | <u>, </u> |
|-------------------|---|----------|-------------------------------|--|
| | | | Panache Digi | |
| | | | Life Limited | |
| | | | Various IoT | |
| | | | solutions like a) | |
| | | | Retail IoT | |
| | | | solutions b) | |
| | | | Smart education | |
| | | | | |
| | | | solutions c) | |
| | | | Samay IoT | |
| | | | solution d) | |
| | | | Smart shelves | |
| | | | 5. Beacon | |
| | | | technology | |
| ANCI MANON MARY | | | | |
| Α | 5 | 5 | Good | Good |
| | | | Many kinds of | |
| | | | iot applications | |
| | | | and devices | |
| | | | which are | |
| | | | | |
| | | | manufactured | |
| 0511/45410 | _ | _ | by panache | |
| SELVARAJ S | 5 | 5 | digilife ltd. | Superb session. |
| | | | Different IoT | |
| | | | devices made | |
| | | | by Panache Digi | |
| | | | Life Ltd., and | |
| Dr. JAYANT R. | | | use in our daily | Informative |
| MAHAJAN | 5 | 5 | life. | session. |
| SANDEEP SINGH | 5 | 5 | lot application | NO |
| 0,110221 0111011 | | <u> </u> | Digital platforms | 110 |
| | | | provided by | |
| | | | | |
| Labach Cirinornia | 4 | _ | panache Digi | |
| Lokesh Giripunje | 4 | 5 | Life | |
| | | | IoT and ict | |
| | | | device and | |
| | | | interconnection | |
| | | | of smart | |
| | | | devices. Product | |
| Arunkumar Mishra | 5 | 5 | range | Good session |
| | - | | How Beacon | |
| | | | works | |
| | | | | |
| | | | Panache Design | |
| | | | philosophy | |
| | | | Electronic | |
| | | | gadgets by | |
| | | | Panache | |
| | | | Retail IoT | |
| | | | solutions | |
| | | | Smart education | |
| | | | loT solutions | |
| | | | loT Market Size | Thank you for |
| | | | | the wonderful |
| Curai Khandara | _ | - | is about to | |
| Suraj Khandare | 5 | 5 | increase a lot | session |
| DR VANDANA B | | | | |
| PATIL | 5 | 5 | Yes | |
| | | | Retailers | |
| | | | adopting IoT, | |
| | | | BEACON | Very nice |
| | | | Technology, | session. Thank |
| Ragini Gaikwad | 5 | 5 | Omnichannel | you |
| | J | 0 | J | , ,· |

| | | | | 1 |
|------------------------------------|---|----------|-------------------|--------------|
| | | | retail, Smart | |
| | | | shelves | |
| | | | various | |
| | | | Electronics | |
| | | | Gadgets | |
| | | | contributed by | |
| SHAIK RAHIL | | | Panache Digi | |
| HUSSAIN | 4 | 5 | Life Limited | |
| HARSHAVARDHAN | - | | IOT USING | |
| VIJAY KULKARNI | 5 | 5 | CLOUD | NIL |
| | 3 | 3 | CLOOD | |
| Mrs Smita D | _ | _ | P 24 1 126 | Excellent |
| Khandagale | 5 | 5 | digital life | session |
| Vemireddy | | | | |
| suryanarayanareddy | 5 | 5 | lot application | |
| | | | IoT based | |
| | | | products by | |
| | | | Panache Digi | |
| Gautami Pujare | 4 | 5 | Life Limited | |
| Sajid Shaikh | 3 | 3 | Introduction | |
| Cajia Orialian | 3 | | Different IOT | |
| | | | | |
| | | | devices made | |
| | | | by Panache Digi | |
| | | | Life Ltd., and | |
| | | | use their use in | Informative |
| Mr. Suendra Sutar | 5 | 5 | our daily life. | session |
| | | | Design of | |
| | | | connected | |
| Mrs Trupti Furia | 5 | 5 | devices | |
| тис тарит опа | | - | Good | |
| | | | knowledge | |
| Dr. Amit V Patel | 5 | 5 | about session | NA |
| | 3 | <u> </u> | about session | INA |
| SHIVANAND | | | | |
| BHIMASHANKAR | _ | _ | | |
| KONADE | 5 | 5 | Good | Good |
| | | | Designing of | |
| | | | connected world | |
| | | | and achieving | |
| | | | the goal of | |
| | | | Making Human | |
| | | | Life Easy and | |
| Ms.A.MARIYAMMAL | 4 | 5 | Healthy | ОК |
| IVIO./ CIVI/ CI CI I / CIVIIVI/ CL | 7 | <u></u> | Designing of | |
| | | | connected world | |
| | | | | |
| | | | and achieving | |
| | | | the goal of | |
| | | | Making Human | |
| | | | Life Easy and | |
| Mr.S.Gnanamurugan | 4 | 4 | Healthy | GOOD |
| Mrs. K. SHRUTHI | 4 | 4 | Nice class | Good |
| | | | SMART | |
| | | | REMOTE | |
| DHANAMMA JAGLI | 5 | 5 | CLEANER | |
| DITA WANTEN ON OLI | 3 | | The future of IoT | Thank you so |
| Mrs Consits Makes at | | | | |
| Mrs Sangita Mahendra | _ | _ | is exceptionally | much |
| Rajput | 5 | 5 | bright | Rambhiya Sir |
| Rakhi Yashwant | | | | |
| Jadhav | 4 | 4 | technology | no |
| | | | New innovative | |
| | | _ | | 1 |
| anand bali | 5 | 5 | devices | |

| Anushree Ashish | | | | |
|----------------------|---|---|------------------|--------------|
| Prabhu | 5 | 5 | Nice | No |
| | | | Al can be used | |
| | | | to make | |
| | | | teaching | |
| | | | learning system | Wonderful |
| Mrs. Amrita Jhaveri | 5 | 5 | more effective | session |
| | | | Nice information | |
| | | | shared about | |
| Dr. Abhay Kshirsagar | 4 | 4 | startups in IoT | Nice Session |
| | | | Application | |
| | | | development | |
| Mr. Shaikh Kader B T | 5 | 5 | example | |
| Mr.Yogesh Pandit | 5 | 5 | Informative | No |

List of Participants attended Day-6, Session-2 and Feedback

Resource Person: Dr. Nadir Charniya

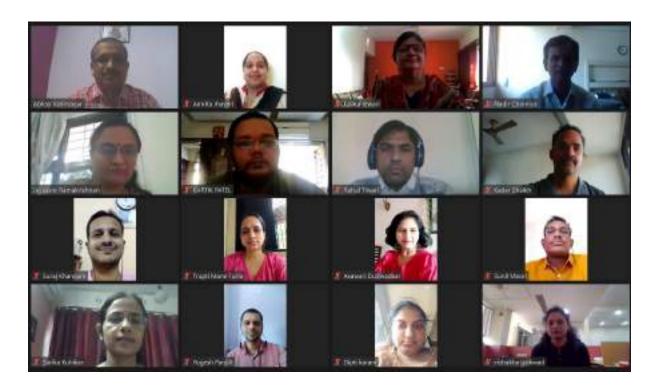
| | lo delivery of | How would | Write | |
|----------------------|----------------------------|---------------------|------------------|-----------|
| | Is delivery of the session | you rate the topics | takeaways or | |
| | as per | covered in | outcomes of | Any other |
| Name | expectation? | this session? | the Session. | comment. |
| Jani dilip batukray | 5 | 5 | Excellent | Excellent |
| ANCI MANON MARY | | | | |
| Α | 5 | 5 | GOOD | GOOD |
| | | | Introduction of | |
| | | | deep learning | |
| | | | and machine | |
| AJIT KUMAR SINGH | 5 | 5 | learning | |
| | | | lot related to | |
| Vemireddy | _ | _ | machine | |
| suryanarayanareddy | 5 | 5 | learning | |
| MS. Shamal Salunkhe | 5 | 5 | Good | Good |
| | | | MI and FL for | |
| NPP and Zoola | | | novel | |
| Nilima Zade | 3 | 3 | applications | |
| Dilip Kumar Sharma | 5 | 5 | Good | |
| | | | SOCIAL IMPACT | |
| HARSHAVARDHAN | | | APPLICATIONS | |
| VIJAY KULKARNI | 5 | 5 | USING IOT | |
| VIJAT KOLKAKINI | 3 | 3 | GoT is very | |
| | | | imp.topic of | |
| Sandhya Deshpande | 5 | 5 | reseatch | Good |
| Carrainya Deempariae | - | - | Projects done | |
| | | | and AI ML | |
| Lokesh Giripunje | 5 | 5 | Applications | |
| J Manjula | 5 | 5 | Good | |
| • | | | Crowd | |
| | | | management | |
| | | | application, | |
| | | | deep learning | |
| | | | architecture, | |
| Dr. Asawari | | | decision making | |
| Dudwadkar | 5 | 5 | algo etc. | |
| Sajid Shaikh | 3 | 3 | Introduction | |

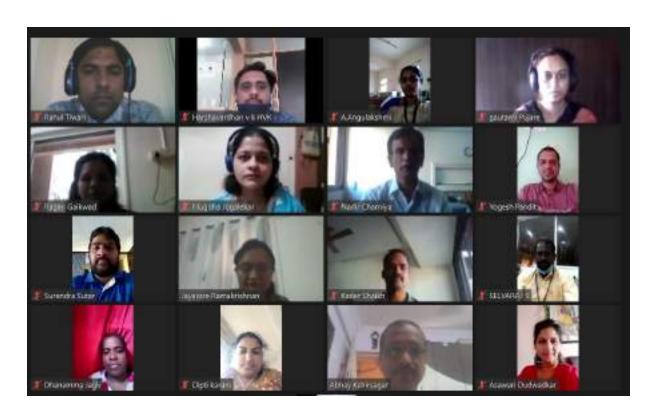
| | T | | | T |
|--|--------|--------|--|---------------|
| | | | Applications of | |
| | | | IoT with | |
| | | | machine | |
| | | | learning in deep | Good case |
| Kartik Patel | 5 | 5 | learning | study example |
| Tarin ator | | | Know MI & DL | orday oxampio |
| A Angulakshmi | 4 | 5 | with IoT | Good |
| A.Angulakshmi | 4 | 3 | | G000 |
| | | | various IoT | |
| | | | applications like | |
| | | | lake cleaning | |
| | | | robot, crowd | |
| | | | density | |
| SELVARAJ S | 5 | 5 | estimation, etc. | Nice |
| Sanjay B.Waykar | 5 | 5 | IOT applications | Good |
| | | | How machine | |
| | | | can be trained | |
| | | | | |
| F. Marri O. Karadia | | | to make human | A.II I |
| Er.Manoj S. Kavedia | 4 | 4 | work easy | All good |
| | | | Details & | |
| | | | application of | |
| Gautami Pujare | 5 | 5 | CNN | |
| • | | | Machine | |
| | | | learning, Deep | |
| Mrs. Trupti Furia | 5 | 5 | learning | |
| Wils. Trupti i dila | J | 3 | Good | |
| | | | | |
| | | | knowledge of | |
| | | | practical | |
| | | | implications of | |
| | | | Fusion of IoT | |
| | | | | |
| Dr. Amit V Patel | 5 | 5 | with ML and DL | |
| | 5 5 | 5 5 | | |
| Dr. Amit V Patel Shankar A | | | Infomative | |
| | | | Infomative Understand | |
| | | | Infomative Understand Machine | |
| | | | Infomative Understand Machine learning and | |
| Shankar A | | | Infomative Understand Machine learning and Deep learning | |
| Shankar A prof.Gaikwad Sarika | 5 | 5 | Infomative Understand Machine learning and Deep learning fusion with IOT | |
| Shankar A | | | Infomative Understand Machine learning and Deep learning fusion with IOT applications | |
| Shankar A prof.Gaikwad Sarika Ganpat | 5 | 5 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d | |
| Shankar A prof.Gaikwad Sarika | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications | |
| Shankar A prof.Gaikwad Sarika Ganpat | 5 | 5 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density estimation using | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density estimation using CNN | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density estimation using | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density estimation using CNN | |
| Shankar A prof.Gaikwad Sarika Ganpat Ms.Sakshi | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density estimation using CNN 5. Social distancing | |
| prof.Gaikwad Sarika Ganpat Ms.Sakshi M.Hosamani | 5 | 4 | Infomative Understand Machine learning and Deep learning fusion with IOT applications Understood 3d printing applications 1. Need for crowd counting and crowd density estimation 2. Crowd management in Best buses 3. Feature- based and deep learning-based approach 4. Crowd density estimation using CNN 5. Social | |

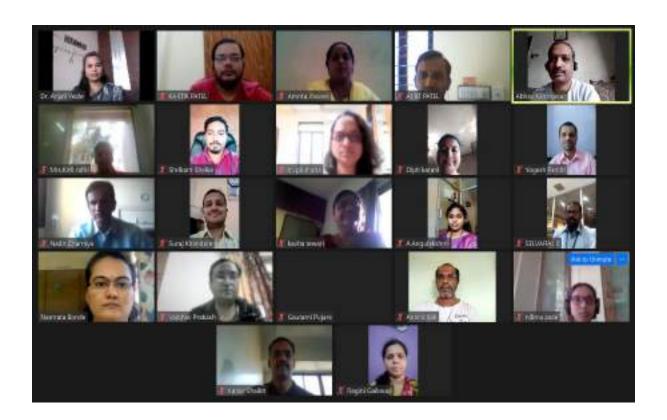
| | | | T | 1 |
|-----------------------|---|----------|------------------------|----------------------------|
| | | | 6. Lake | |
| | | | cleaning robot | |
| | | | using IoT and AI | |
| Dr. JAYANT R. | | | New approach | Informative |
| MAHAJAN | 5 | 5 | of ML and DL | session |
| | | | machine | |
| | | | learning, deep | |
| | | | learning, CNN, | |
| | | | Data set | |
| | | | collection,smart | |
| SANDEEP SINGH | 5 | 5 | fullfillment | |
| | | | Details and | |
| | | | application of | |
| Mrs. S.D.khandagale | 5 | 5 | CNN | good session |
| imor ora milandagaro | | | applications | good occolor: |
| | | | based on | |
| | | | Machine | |
| | | | learning and | |
| | | | Artificial | Informative |
| Mr. Curandra Cutar | 4 | 1 | | |
| Mr. Surendra Sutar | 4 | 4 | Intelligence | Session |
| V/Marchanas' | _ | _ | Machine and | 0 |
| V Mosherani | 5 | 5 | deep learning | Good session |
| | _ | _ | Deep learning | |
| DARSHAN B D | 5 | 5 | concepts | Good |
| | | | | Very useful and |
| | | | | informative |
| | | | | session. |
| | | | | Collective |
| | | | | information and |
| | | | | effective |
| | | | | presentation |
| | | | | with suitable |
| | | | Valuable | examples and |
| | | | information and | explanation with |
| | | | effective | interaction and. |
| | | | knowledge | Arrange few |
| Mr. RANJIT ARJUN | | | gaining | more sessions |
| KATKAR | 5 | 5 | experience. | like this. |
| KATRAK | 5 | <u> </u> | Machine | IINE II IIS. |
| | | | | |
| Kadarahari Charra | | 4 | learning and | |
| Kadambari Sharma | 4 | 4 | deep learning | |
| | | | Good | |
| | | | combination of | |
| | | | embedded with | |
| | | | intelligence ML | |
| Dipti Jigar Karani | 5 | 5 | and DL | |
| | | | ML Vs DL; IoT | |
| PERARASIT | 4 | 4 | APPLICATIONS | GOOD |
| | | | Real world | |
| | | | problems can be | |
| | | | taken up and | |
| | | | solved using | |
| | | | Deep learning | |
| | | | and Machine | |
| | | | Learning | Nice session. |
| Mrs. Ragini Gaikwad | 5 | 5 | approach. | Thank you |
| Wild. Nagirii Gaikwau | J | <u> </u> | Fusion of IoT | THAIR YOU |
| | | | with ML-DL | Thank you for |
| 1 I | | | | Thank you for |
| | | | crowd | the wonderful |
| Suraj Khandare | 5 | 5 | crowd management in | the wonderful presentation |

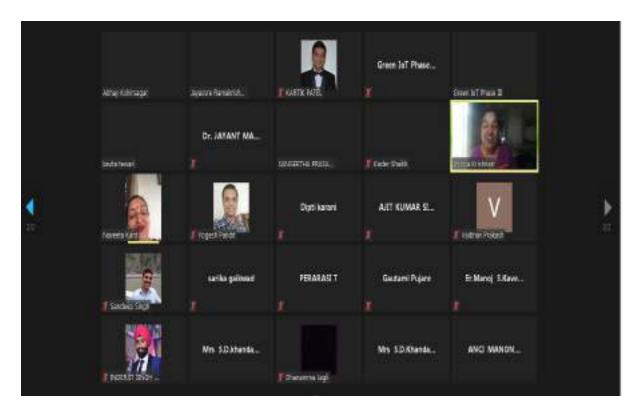
| | <u> </u> | | | |
|-------------------------|----------|----------------|------------------|--------------|
| | | | buses and trains | |
| | | Lake cleaning_ | | |
| | | | robot using IoT | |
| SHIVANAND K | F | | and Al | Cood |
| | 5 5 | 5 | Good | Good |
| Dr.T. JOBY TITUS | 5 | <u> </u> | Technology | |
| VARSHA N | 5 | 5 | - | - |
| Dr. Lakshmi | _ | _ | | |
| Ranganatha V | 5 | 5 | Fusion of IoT | |
| | | | | |
| | | | with MI-DL for | |
| NAC A NAADIWANANA | 4 | 4 | some novel | OK |
| Ms.A.MARIYAMMAL | 4 | 4 | applications | OK |
| | | | Fusion of IoT | |
| | | | with MI-DL for | |
| | 4 | | some novel | 0000 |
| Mr.S.Gnanamurugan | 4 | 4 | applications | GOOD |
| Mrs. K.SHRUTHI | 4 | 4 | Overall Gud | Good |
| | | | machine | |
| SHAIK RAHIL | _ | _ | learning and | |
| HUSSAIN | 5 | 5 | deep learning | |
| | _ | _ | IOT | |
| DHANAMMA JAGLI | 5 | 5 | APPLICATIOS | |
| Vishakha Gaikwad | 5 | 5 | Nil | |
| | | | IoT is having | |
| | | | endless | Thank you so |
| | | | applications in | much for an |
| Mrs Sangita Mahendra | _ | | almost all | informative |
| Rajput | 5 | 5 | domains | sessions |
| Rakhi Yashwant | | | | |
| Jadhav | 4 | 4 | Technology | |
| Anand bali | 5 | 5 | Α | |
| Anushree Ashish | _ | | | |
| Prabhu | 5 | 5 | Nice | |
| | | | Crowd density | |
| | | | estimation | |
| | | | system lake | |
| | | | cleaning boot | |
| | _ | _ | and features of | Excellent |
| Mrs. Amrita Jhaveri | 5 | 5 | these projects | session |
| Mrs. Mughda Ruturaj | _ | _ | | |
| Jogalekar | 5 | 5 | Fusions of IOT | |
| | | | Very good | |
| | | | explanation | |
| D. Alle Kall | , | | about ML Al and | Ni co Oc. 1 |
| Dr. Abhay Kshirsagar | 4 | 4 | loT | Nice Session |
| | | | Application | |
| Mar Obrailda Karlanda T | _ | _ | development | |
| Mr. Shaikh Kader B T | 5 | 5 | using videos | |
| Mr.Yogesh Pandit | 5 | 5 | Informative | |
| Jayassre | _ | - | Keep learning | |
| Ramakrishnan | 5 | 5 | new techniques | |

ANNEXURE-VI Grid Photographs









Annexure – VII
Sample Copy of Certificate



Annexure – VIII BROCHURE

The Green Internet of Things (G-IoT) is predicted to introduce significant changes in our daily life towards the vision of "green ambient intelligence". Within few years, we intelligently," and provide green support for users in managing their tasks. These new smart objects will also be will be surrounded by a massive amount of sensors, devices, and "things," which will be able to communicate via 5G, act and able to perform certain functions to researchers, but also to implementation aspects in networks that can be utilized in to technologies and things and between and bandwidth utilization is maximized. This development corporations and individuals alike. Considering these facts The objective of this STIP is acquainting academicians and industry personnel with the IoT technology, recent trends and supporting Green IoT, hardware and software development the aim of this STTP is to focus on both theoretical and tools and demonstrations, predictive analytics using IoT providing green systems through IoT enabling technologies providing exposure Wireless Sensor Network for IoT loT Security and Privacy Issues IoT Standards and Legislation Open Source platform for IoT Details of IoT Simulators Cloud computing for loT communication between people things themselves, where power Green loT Applications would be relevant not only Concepts of Green lo I Hands-on sessions Introduction to IoT calling loT Architecture loT Protocols loT Analytics Course Objective Course Contents green initiatives. ecurity in loT. autonomously, context-aware ٠ ٠ ٠ ٠ the VESIT offers Bachelors The Internet of Things (IoT) has been envisaged to Technology (VESIT) established in 1984 is one of the describe a number of technologies and research areas Radio-Frequency ding smart grid, e-health, smart factories and intelligent transportation etc. Green IoT networks will surveillance, and minimizing operational costs and This Short Term Training Program (STTP) on Green Internet of Things Phase-III is being organized by Engineering, in association with the department of Instrumentation & Control, Information Technology seconning very common, bringing the IoT into real contribute to reducing emissions and pollutions. Department of Electronics and Telecommunication nstitute of Technology for enhancing skills of faculty and scholars of engineering colleges in the domain of programs in engineering in the following streams ater, Information Technology, Instrumentation global connectivity of physical objects sensor networks, biometries nanotechnologies and factory automations are now mentations. This addresses varying applications Education Society In addition, VESIT offers Master of Engineering streams.VESIT also offers post graduate course of Computer Applications. VESIT is colleges affiliated with Technology of University of Mumbai. VESIT as Lifelong Learning Center by Society's Institute oT and its initiatives towards green technology. conservation and Artificial Intelligence & data science. About Green Internet of Things Ph.D. Center for environmental Engineering Vivekanand Education technologies Electronics of Mumbai. University of Mumbai. dentification (RFID), Hectronics power consumption. About VESIT University hat enable Master AICTE SPONSORED ONLINE STTP Vivekanand Education Society's Department of Electronics Engineering Electronics & Telecommunication Engineering in Collaboration with V. E. S. Institute of Technology, Engineering (In Association with VESIT IQAC & IIC) Department of Instrumentation One Week AICTE Sponsored Green Internet of Things Institute of Technology Hashu Advani Memorial Complex, R. C. Marg, Collector's Colony, Chembur, Mumbai - 400 074 Phone: 022 - 61 532 532/500 Chembur, Mumbai (7th to 12th December, 2020) Email: vesit@ves.ac.in Fax: 022 - 61 532 555 Online STTP Department of Phase -III Organizes

Resource Person:

The speakers would be eminent personalities from academia and industries

Registration Fee:

STTP Course is Free

Last date of Registration: 25th November, 2020

Who can attend?

Faculty from AICTE approved Engineering Institutes (Degree/ Diploma) & MCA institutes industry Representative.

Registration Form Link:

https://forms.gle/4EwNXgiOWvmJB7ds9

Felegram Channel Link:

//t.me/ioinchat/OBoOxEa5O50EvGuPRb-FGA

For enquiries contact:

Mob: +919821686947 Dr. Abbay Kshirsagar

Franil: abhay kst

Mr. Kader Shaikh Mob. +919833191909



Instructions to Participants:

The person willing to join this program need to have the following basic requirements

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal, VESIT

Patrons: Shri .B. L. Boolani, President, VES Trust

Dr. (Mrs.) J. M. Nair, Principal, VESIT

Dr. P.P.Vaidya, Head, INST and Dean R & D

Mrs. Kavita Tewari, Head, ETRX

Mrs. Shoba Krishnan, Head, EXTC

Zoom App, Google App, Google Meet, MS Telegram App should be installed on mobile. connection and Gmail account. with Laptop/Desktop
 Lapto ٠

installed

should

Teams

- Every participant must register by filling up the online form and join telegram channel Laptop/Desktop. thereafter. ٠
- All communications will be on Telegram channel.
- and check your name, university/ institution/ ID before Fill the Google registration form carefully c-mail pur name college ٠

Dr. P.P.Vaidya, Head, INST and Dean R. & D (Member)

Mrs. Shoba Krishnan, Head, EXTC (Member)

Dr. Nadir Chamiya (Member Secretary)

Dr.Ramesh Kulkatni, Deputy Head, EXTC (Member)

Mrs. Kavita Tewari, Hend, ETRX (Member

Dr. (Mrs.) M. Vijayalakshmi, Vice Principal (Member)

Dr. (Mrs.) J. M. Nair, Principal (Chairperson

Program Evaluation Committee for the

Dr. Nadir Charmiya, Professor, EXTC

STTP Coordinator:

- No correction in the certificate will be done due to incorrect information provided in the registration form. ۰
- Last Date to fill the registration form is 25th November, 2020. ۰

Prof.D.N.Malkhede, Advisor, RIFD, AICTE, New Delhi.

Dr. Abhay Kshirsagar, Associate Professor, ETRX

Course Coordinator:

Mr. Kader Shaikh, Assistant Professor, INST

Col.B. Venkat, Director (FDC), AICTE, New Delhi

Advisory Board for the STTP:

communicated to the registered e-mail ID by will registration 24th December, 2020. Confirmation of

ä

- Participants need to attend sessions at the scheduled time
- It is mandatory to fill up the feedback forms. 0
- Online Test, based on all the topics discussed Minimum 40% score is during the program will
 - provided g Will participants' e-mail ID. AICTE certificates certification.

Mrs. Jayushree Ramakrishnan, Assistant Professor, INST Mrs. Mugdha Joglekar, Assistant Professor, INST Mrs. Amrita Jhaveri, Assistant Professor, ETRX Mrs. Namrata Bonde, Assistant Professor, INST

Virs. Anushree Prabhu, Assistant Professor, ETRX

Mrs. Madhumati Khuspe, Assistant Professor, INST

Mrs. Sarika Kuhikar, Assistant Professor, ETRX Mr. Yogesh Pandit, Assistant Professor, ETRX

Mrs. Sangoetha Prasanna Ram, Deputy Head, INST

Mrs. Naveeta Kant, Deputy Head, ETRX

Organizing Committee:

E

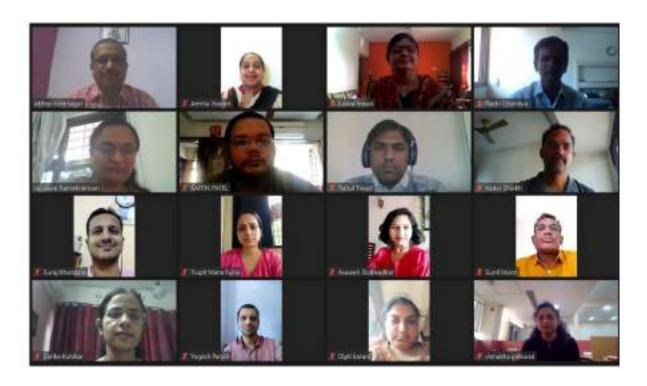
for

| Chart | Tarres | Tunining | Program on | 60 | Irataura at | of Things! |
|-------|--------|----------|------------|----|-------------|------------|
| | | | | | | |

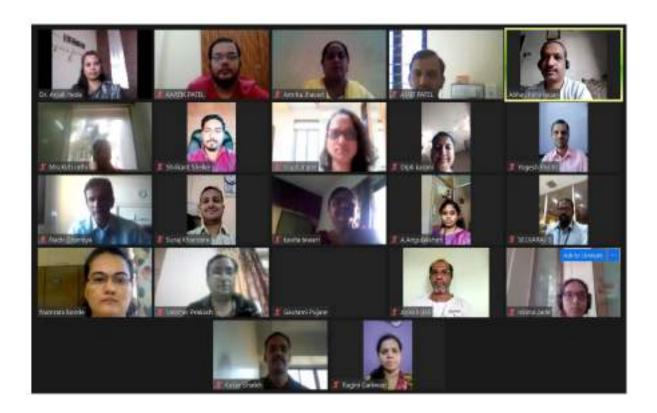
Course material provided by the experts and recording of sessions enclosed herewith in CD/DVD.

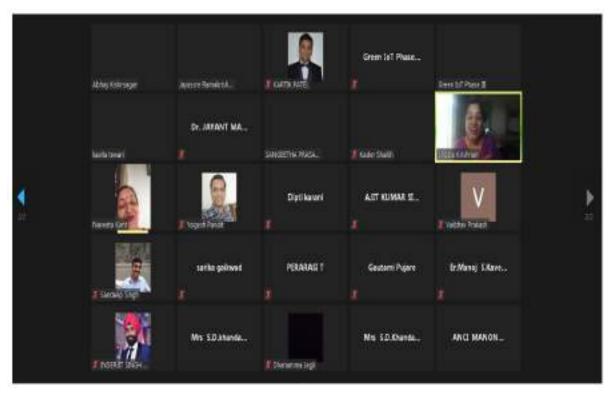
STTP on Green IoT--Phase III Photographs

Grid Photographs









VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY

"आरोहण"

Arise Awake and Asend

(Faculty Development Program) 4th July 2016 to 9th July 2016

| Date | Time | Event | Oragnised By | |
|-----------------|----------------------|-----------------------------------|--|--|
| | | | | |
| | 9.50 am - 10.00 am | Inauguration function | | |
| | 10.00 am -11.10 am | Team Building workshop | | |
| 4th July 2016 | 11.10-am - 11.30 am | Tea Break | | |
| 411 July 2010 | 11.30 am - 1.30 pm | Team Building workshop | | |
| | 1.30 pm - 2.15 pm | Luch Break | Conshility Duilding Mahindra & Mahindra | |
| | 2.15 pm onwards | Team Building workshop | Capability Building, Mahindra & Mahindra Auto & Farm Sector | |
| | 10.00 am-11.30 am | Team Building workshop | Adto & Fairii Sector | |
| | 11.30 am -11.50 am | Tea Break | | |
| 5th July 2016 | 11.50 am -1.00 pm | Team Building workshop | | |
| | 1.00 pm -1.45 pm | Luch Break | | |
| | 1.45 pm -3.30 pm | Team Building workshop | | |
| | 9.45 am -10.00 am | Tea Break | Emotional Intelligence Firm | |
| 7th July 2016 | 10.00 am - 12.30 pm | session I : Multiple Intelligence | | |
| 7 til July 2016 | 12.30 pm - 1.30 pm | Luch Break | | |
| | 1.30 pm - 3.30 pm | session II :Multiple Intelligence | | |
| | 9.00 am -9.30 am | Tea Break | late and Advisory Consus | |
| 8th July 2016 | 9.30 am - 11.00 am | Talk on "Health is Wealth" | | |
| | 11.00 am - 2.30 pm | Body check up | Integre Advisory Group | |
| | 2.30 pm -3.30 pm | Talk on Autonomy | | |
| 011 1 2016 | 9.30 am - 10.30 am | "Office Yoga" | | |
| | 11.00 am - 12.30 pm | Talk on Autonomy | Ami Yoga Solutions Private Limited | |
| 9th July 2016 | 12.30 p.m - 1.30 p.m | Luch Break | | |
| | 1.30 p.m - 3.30 p.m | Talk on Autonomy | External Expert | |

Aarohan FDP Brochure 299

Vivekanand Education Society's Institute Of Technology

आरोहण - Faculty Development Programme

(4th to 9th July 2016)

Report

A one week Faculty Development Programme, '**31716**", was held at Vivekanand Education Society's Institute of Technology from 4th July to 9th July, 2016. The FDP provided a wonderful opportunity to faculty members for augmenting and elevating their effective conversation skills, team building skills and multiple intelligence. The Programme also envisioned to cultivate the acquaintance of the participants with the importance of good health and autonomy. It was attended by all the regular faculty members of the college.

INAUGURAL SESSION

Mrs. Kadambari, Assistant Professor, Department of Instrumentation, welcomed all the respected dignitaries and participants. In her welcome speech, she underlined the importance and objectives of attending such FDP programmes and briefed the participants about the subjects chosen for the same. Dr. Nair, Principal, VESIT, and Dr. M.Vijayalakshmi, Vice-Principal, VESIT, appreciated the efforts of VRC team for organizing this programme and accentuated the benefits of this kind of resourceful activity.

Day 1 and Day 2

4-5 July 2016

Effective Conversation

Distinguished speakers Dr. Prince Augustine, Executive Vice- President, Human Capital and Leadership Department and Dr. Nandakumar both from Mahindra and Mahindra Group enlightened the participants on a usually untouched topic of 'Capability Building'. Though the participants were from diverse academic background and age group, they showed equal acute interest in contents of the programme, specifically towards effective listening, asking powerful questions and giving and receiving feedback. In today's era of innovations in communication technology, effective and skilful use of communication tools has become mandatory for the faculty in Engineering Colleges as effective conversation skills largely regulate the success of the teaching –learning process regardless of the technical knowledge and proficiency of the faculty. The sessions enabled all the teachers to apply the principle of effective conversation in day to day teaching learning process which included apposite teaching, methods of class control, participative learning etc. The speakers had also included a lot of interesting activities to help the faculties to evaluate their present communication styles and build conversational bridges at work, get their point across and steer discussions in the right direction.



1. Dr. Nair ,Principal ,VESIT Felicitating Resource person from Mahindra and Mahindra



2. Dr. Nair ,Principal ,VESIT Felicitating Resource person from Mahindra and Mahindra



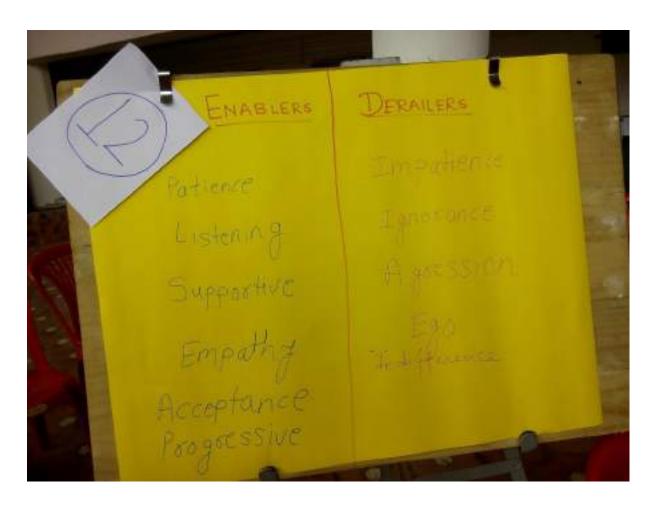
3. Outdoor Team Building Activities



4. Role Play Activity



5. Activities done by participants



6. Activities done by participants



7. Outdoor Team Building Activities

Day 3

7 July 2016

Multiple Intelligence

On third day, Mr Y. Dattatreya, Leadership and Od Consultant, acquainted the faculty with the theory of multiple intelligence and how it can be competently used to cater the needs of different types of students. The theory suggests that the traditional notion of intelligence, based on I.Q. testing, is far too limited. He highlighted one of the most fundamental feature of the theory i.e. it provides eight different potential pathways to learning. He also recommended innovative and ingenious ways for teachers to facilitate effective learning rather

than relying on the more traditional linguistic and logical ways of instruction .Learning was made fun with several fun filled activities like MI Test, which the participants thoroughly enjoyed. It also assisted them to know their personality types and the areas where they require improvement.



9. Mr Y. Dattatreya addressing Audience



10 Dr. Nair Facilitating Mr Y. Dattatreya

Day 4

8 July 2016

Health is Wealth

Educators undoubtedly make a gigantic impact on their students – however, because of their busy schedules and standing for long hours, they face many challenges, which may result in low back, neck and shoulder pain; headaches, insomnia and stress. The resource person Mr. Puneet Anand from Integre Advisory Group started his discussion with the very basic idea of importance of maintaining good health for the persons belonging to teaching profession. He emphasized that only a strong mind and healthy body makes a complete person. The next session was taken by Dr. Kavita Puri, Medical Coordinator, Good Health Foundation. She accustomed the faculty with the occupational health

hazards of teaching profession like aching and tired legs, varicose veins, spondylitis etc. She also demonstrated some of the exercises which can be really helpful to get rid of lassitude and fatigued muscles. It was followed by a medical health check-up of all the faculties. The post lunch session was taken by Dr. Nair who is a very renowned Orthopaedic Surgeon from Zen Hospital. He delivered a health talk on prevention of osteoarthritis & osteoporosis.



11. Dr. Rakesh Nair addressing Audience



12. Mrs. Asha Bharabhe, Mrs. Shamila Sengupta: Body Check-up



13. Dr.Nadir Charniya checking BMI

Day 5

9 July 2016

Yoga and Autonomy

The fifth day started with a yoga session organized by Ami Yoga Solutions Private Limited. Before beginning the Asanas and various breathing exercises, the yogacharya pin pointed the importance of yoga in our day to day life and how it offers a holistic rejuvenation to our body, mind and soul. Various Asanas were demonstrated which are really helpful for the teaching faculty like Surya Namaskar, Pawan puktasan, Shawasan etc. She also explained the right manner in which they should be done, the precautions to be taken and the likely effect they have on the body and mind. All the Asanas and Pranayamas were enthusiastically done by the faculty members. The second session was handled by Mr., from, who had familiarised the faculty with the concept of 'Autonomy' and its effect on management, faculty, staff and students. The post lunch session was jointly taken by Mr. Abhay Kshirsagar, Associate Professor, Electronics Department and Dr. C.D.Rawat, Associate Professor, Electronics and Telecommunication Department. They had given a power point presentation on the current status of work done so far for attaining autonomy.

Finally, the Faculty Development Programme came to a close, with a vote of thanks proposed by Prof. Kadambri. All the faculty members found the sessions very enlightening and expedient as the discussed areas match with the requirements of their current working domain.



14. Mrs. Palavi Pawar explaining importance of Yoga

Aarohan Faculty Development Program Photographs



1. Dr. Nair "Principal "VESIT Felicitating Resource person from Mahindra and Mahindra



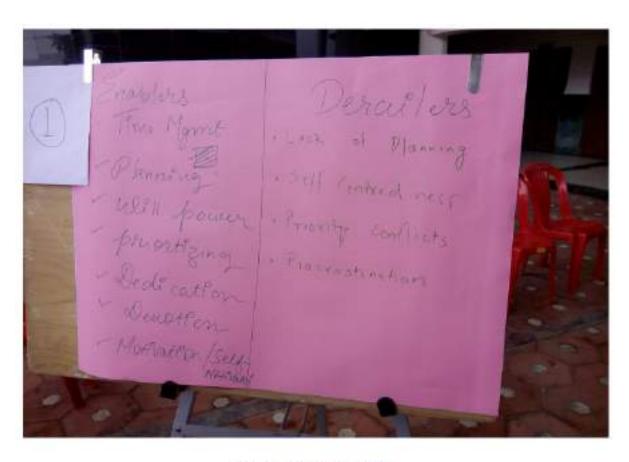
2. Dr. Nair , Principal , VESI7 Felicitating Resource person from Mahindra and Mahindra



3. Outdoor Team Building Activities



Aarohan Faculty Development Program Photographs



5. Activities done by participants



6.Activities done by participants



7. Outdoor Team Building Activities



9. Mr Y. Dattatreya addressing Audience



10 Dr. Nair Facilitating Mr Y. Dattatreya



11. Dr. Rakesh Nair addressing Audience



12. Mrs. Asha Bharabhe, Mrs. Shamila Sengupta : Body Check-up



13. Dr.Nadir Charniya checking BMI



14. Mrs. Palavi Pawar explaining importance of Yoga

FDP on EPNCVII 4th to 11th Jan 2017

(Embedded systems, Power Electronics, Networks, Communication, VLSI and Industry Interaction)

By

Department of Electronics Engineering, VESIT

| Day and Date | Time | Topic | Resource Person |
|--|----------------|---|---------------------------|
| Day 1- Wednesday 4 th Jan 2017 | 11 to 12 noon | Theory session Introduction : Advance Networks | Dr. Rajani Mangala |
| 4 th Jan 2017 | 1 to 3pm | Demo on NTOP & ZEN Map Advance network tools | Mrs. Rupali Patil |
| Day 2 - Thursday 5 th Jan 2017 | 11 to 12 noon | Theory session Introduction: Low Power RISC Devices | Mrs. Asawari Dudwadkar |
| 5 th Jan 2017 | 1 to 3 pm | Embedded cortex Kits Demo | Company representative |
| Day 3- Friday 6 th Jan 2017 | 10 am onwards | Industrial visit to Adtron Technologies Ltd. Thane | Mr. Joshi from Adtron |
| Day 4 -Monday 9 th Jan 2017 | 11 to 12 noon | Theory session Image Processing | Mr. P.Birajdar |
| 9 th Jan 2017 | 1 to 3 pm | Demo Power Electronics kits | Mrs. Gauri Sahoo |
| Day 5 -Tuesday 10 th Jan 2017 | 11 to 12noon | Theory session : Statistics for communication | Mrs. Navita Kant |
| 10 th Jan 2017 | 1 to 3 pm | Demo on Electrical Machines | Ms. Rakhi Jadhav |
| Day 6 Wednesday 11 th Jan 2017 | 11 to 12.15 pm | Demo on CVLSI | Mrs. Amrita Zaveri |
| 11 th Jan 2017 | 1 to 3 pm | Demo of Advance Instruments. | Aplab technology |

EPNCVII FDP Brochure 322

FDP on EPNCVII 4th to 11th Jan 2017

(Embedded systems, Power Electronics, Networks, Communication, VLSI and Industry Interaction)

By

Department of Electronics Engineering, VESIT

Department of Electronics has organized One week Faculty Development Program EPNCVII (FDP) from 4th to 11th Jan 2017. The aim of this workshop is cover different Subject Seminars and Demonstrate various software and Electronic educational kits. In these FDP Seminars are arranged on all the days of workshop. The schedule for the workshop is as follows.

| Day and Date | Time | Topic | Resource Person |
|--|----------------|--|---------------------------|
| Day 1- Wednesday 4 th Jan 2017 | 11 to 12 noon | Theory session Introduction : Advance Networks | Dr. Rajani Mangala |
| 4 th Jan 2017 | 1 to 3pm | Demo on NTOP & ZEN Map Advance network tools | Mrs. Rupali Patil |
| Day 2 - Thursday 5 th Jan 2017 | 11 to 12 noon | Theory session Introduction : Low Power RISC Devices | Mrs. Asawari Dudwadkar |
| 5 th Jan 2017 | 1 to 3 pm | Embedded cortex Kits Demo | Company representative |
| Day 3- Friday 6 th Jan 2017 | 10 am onwards | Industrial visit to Adtron Technologies Ltd. Thane | Mr. Joshi from Adtron |
| Day 4 -Monday 9 th Jan 2017 | 11 to 12 noon | Theory session Image Processing | Mr. P.Birajdar |
| 9 th Jan 2017 | 1 to 3 pm | Demo Power Electronics kits | Mrs. Gauri Sahoo |
| Day 5 -Tuesday 10 th Jan 2017 | 11 to 12noon | Theory session : Statistics for communication | Mrs. Navita Kant |
| 10 th Jan 2017 | 1 to 3 pm | Demo on Electrical Machines | Ms. Rakhi Jadhav |
| Day 6 Wednesday 11 th Jan 2017 | 11 to 12.15 pm | Demo on CVLSI | Mrs. Amrita Jhaveri |
| 11 th Jan 2017 | 1 to 3 pm | Demo of Advance Instruments. | Aplab technology |

Day 1- 4th January – Dr. Mrs. Rajani Mangala took a session Advance Networks. In her session she told about latest technologies in computer networking, such as Routing techniques, Networking Protocol, Wireless networks, etc. She also summarizes about different applications and importance of Advance Networks.

The second session of the day is handles by Mrs. Rupali Patil where she demonstrated two tools NTOP and Zen Map used for performing experiments of Advance Networking Technologies.

Day 2- 5th January- Mrs. Asawari Dudwadkar explained various Low Power RISC Devices in this session. The Embedded devices requires microcontroller based device to work and Low Power RISC Devices are very efficient to use in these Embedded System.

In Second Hal of the Day Mr. Chintan from Edutech – Baroda demonstrated the working of Cortex M3 based Boards used for Embedded System Experiments. In his session he showed the different practicals that can be performed on these Boards.

Day 3- On this day Staff of Electronics Department visited the Adtron Technologies Ltd. Thane. In this Industry various Kits were manufactured. And Mr. Joshi showed the process of manufacturing these kits. The various Educational kits used for Analog and digital circuits were manufactured in this company.

Day 4- On this day Mr. Parmeshwar Birajdar took session on Image Processing. In his session he told about various projects that can be done using Image Processing.

The second session of Day 4 is conducted by Mrs. Gauri Sahoo. She showed the different kits used for Power Electronics Experiment and explained the working and process of performing practical.

Day 5 – Mrs. Naveeta kant conducted session on Statistics for communication in the first half. She explained about Various Mathematical concepts involved in Communication.

In second session Ms. Rakhi Jadhav explains the working of various Electrical machine. She demonstrated the Experiments performed using AC and DC motors in Lab 215.

Day 6 – Mrs. Amrita Jhaveri conducted session on AVLSI on this day. She took hands on session using Cadence tool. This tool is used for Designing of VLSI Circuits and Simulation. In this session participants performed designing of basic Digital circuit using the tool.

In the second half of the day a Demonstration / Showcase of Advance Instruments in collaboration with Aplab Limited is organized. In this session representative from Aplab Limited Demonstrated various equipment's. These equipment are 1GHz Synthesized Signal Generator Model 2110, 150MHz DDS Signal Generator Model DDS150, 6 ½ Digit DMM Model DMM5061,1.5GHz Spectrum Analyzer with Tracking

Generator Model SA3015,MASG10M- 10MHz Multi waveform Arbitrary Signal Generator, D37070A- 70MHz ,2 Channel, 1 GS/s Digital Storage Oscilloscope



1 Mrs. Kavita Tewari felicitating Resource person from Aplab Technologies



2. Resource person from Aplab Tech. explaining advanced instruments introduced by company



3. Ms. Rakhi Jadhav explaining working of various motors.

Faculty Development Program (FDP) on EPNCVII Photographs



1 Mrs. Kavita Tewari felicitating Resource person from Aplab Technologies



Resource person from Aplab Tech. explaining advanced instruments introduced by company



3. Ms. Rakhi Jadhav explaining working of various motors.