



Vivekanand Education Society's Institute of Technology

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

Criteria 3.5 – Collaboration

3.5.2 - Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

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Progress Report -1
(20-08-2020 - 12-02-2021)



ITeS based Solution
for
Operation & Maintenance of the
Community Toilet Blocks
for
Slums of Mumbai



**(Approval Letter- MCGM/Solid Waste Management/Dy. Ch. E./SWM
/Operation /1710/ dated 20-08-2020.)**



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1. Introduction

The project report covers the progress of the project along with the details of the meetings held with the MCGM officials at ward level and at central level in the chronological order in section 1 and 2. The modified project Timeline is given in section 3. The requirements of the CT and PT are given in section 4. The MoMs , CT and PT requirements, Requirement list etc. are given in an Annexure.

2. Details of the meetings

This section covers the details of the meetings held with various stakeholders and vendors. The details of the meetings held to identify the requirements, to understand the process, to identify various options/tools to improve the sanitation, etc. are listed below. There were many meetings held with M-East ward and with central SWM people in the beginning to collect the data, which are not listed here.

Sr. No	Date of the event	Event	Agenda	Outcome
1	20-08-2020	Received Knowledge partner letter from MCGM	Pilot project in M-East ward	Started the project officially
2	01-10-2020	Meeting with MCGM	Project Swechchha launch	Discussed the scope and the requirements of the projects
3	21-10-2020	Meeting with SUD	Project Swechchha : Timeline and Budget Briefing to SUD	Finalized the terms and conditions of the MoU
4	04-11-2020	Meeting with M-East ward SWM	Project स्वेच्छा: Discussion on the Requirements for CT/PT,	Submitted the requirements of CT/PT and identified the responsible agency along with the scope.
5	11-11-2020	Meeting with Veliso - Odour device manufacturer	To identify the feasibility of installation and	VESIT-IT will install 1 device each in 2 CT/PTs

			integration of the device with our app.	
6	27-11-2021	Meeting with Gaia	To identify the feasibility of installation and integration of the push button type feedback device with our app.	VESIT-IT has decided to not to use this due to the possibility of receiving fake feedback in the system.
7	18-12-2020	Signing of MoU with SUD Life	Signing of MoU with our CSR funding partner	Received Rs. 6 Lakhs as the first installment
8	11-01-2021	Meeting with M-East ward SWM and maintenance, Central SWM	Discussion and Approval on CT/PT Requirement	Discussed the requirements and did the changes as per the suggestions given by the MCGM's officials.
9	25-01-2021	Meeting with Central SWM-operation	Discussion and Approval on PT Requirement	Discussed the requirements of PT and did the changes as per the suggestions given by the MCGM's officials.
10	04-02-2021	Meeting with M-East ward SWM	Discussed the MoM and Submitted the CT requirements with suggested modification.	Finalized the CT requirements with the provision to accommodate the suggestions from MCGM, at later stage.
11	04-02-2021	Meeting with Central SWM-operation	To Submit the copy of MoU signed between VESIT-IT and SUD Life	Submitted the MoU copy at pantnagar office for the reference.
12	12-02-2021	Meeting with Central SWM-operation	Discussed the MoM and Submitted the PT requirements with	Submitted the final version of the PT requirements with the provision to accommodate the suggestions from MCGM,

			suggested modification.	at later stage.
13	12-02-2021	Meeting with Central SWM-operation	Submission of final version of CT and PT requirements to Pantnagar office and to Ch.Engineer- Grant Road (SWM)	Submitted the final version of the CT and PT requirements with the provision to accommodate the suggestions from MCGM, at later stage. To Dy. Che- SWM and Ch. Engineer SWM.

3. The details of the requirements sent to the M-East ward/Central SWM-MCGM for approval:

This section lists the requests sent to MCGM for approval:

Sr. No	Date	Requirements	Status
1	01-12-2020	Permission to use MCGM's logo on our product along with our- VESIT's and SUD-Life's (our CSR funding partner) Logo. VESIT-IT has submitted the templates of the Web app and Mobile App to pantnagar office.	Pending
2	12-02-2021	IT infrastructure related query for selection of Domain/URL name and the Cloud services for Data Storage. VESIT-IT to submitted the request on 12-02-21 to pantnagar office	Submitted for approval
3	04-01-2021	Final Approval on CT/PT requirements. VESIT-IT submitted the final CT requirements to M-east ward on 04-02-21. VESIT-IT submitted the final CT requirements to M-east ward on 04-02-21.	Submitted for approval

4. The details of the requirements sent to the M-East ward/Central SWM-MCGM:

Sr. No	Date	Requirements	Status
1	01-11-2020	Requirement Lot-1	Few details as per the sheet attached below from AE maintenance, M-East ward are yet to receive (Request has been submitted to AC M-East ward.

5. Project Timeline:

The VESIT-IT will follow the same timeline to achieve the said milestones:

Table: Timeline and Milestones of the Proposed Project

Period	Milestones	Modified Milestones
October '20 to March '21	Prototype/Pilot Development	At the most delay of a month or so.
April '21 to September '21	Beta Launch Awareness and Training Programs	At the most delay of a month or so.
October '21 - September '22	Release of Version 1.0 for M-East Ward (Chembur) Awareness and Training Programs	VESIT-IT will maintain the timeline
October '22 - September '23	Release for 60% wards or Mumbai Awareness and Training Programs	
October '23 - September '24	Pan Mumbai Coverage Release of Version 2.0 with Analytics and DSS for MCGM	
October '24 - September '25	Release of Version 3.0 Exploring Opportunities for pan India Coverage	

Annexure

A1: Minutes of Meeting

1. Minutes of Meeting-01-10-2020

Subject of Meeting: Project स्वेच्छा
Date and Time: 1st October 2020, 3.00 P..M. to 5.00 P.M.
Venue: Amphitheatre, VESIT, Hashu Advani Memorial Complex, Collectors Colony, Chembur, Mumbai-74.

Attendees:

MCGM Officials

SWM - Operation (Ghatkopar, Pantnagar)

1. Mr. B. S. Desale - Executive Engineer
2. Mrs. Priti Paralkar - Assistant Engineer
3. Mrs. Suvarna Kapadnis -Assistant Engineer
4. Mrs. Mayuri Bhandekar - Sub Engineer
5. Mr. Vivek Nagpure - Sub Engineer

SWM - M-east Ward

6. Mr. Satyajit Patil - Assistant Engineer
7. Mr. Ajay Sataw - Sub Engineer
8. Mr. Vaghela - Asst.Head Supervisor

Maintenance department of M-east Ward

9. Mr. Waghole - Sub Engineer

Project Swechha team members:

1. Dr. M. Vijayalekshmi - Vice Principal, VESIT
2. Dr. Shanta Sondur - Professor, IT Department, VESIT
3. Mr.Amit Singh - Assistant Professor, IT Department, VESIT
4. Mrs.Pooja Shetty - Assistant Professor, IT Department, VESIT
5. Mrs.Vinita Mishra - Assistant Professor, IT Department, VESIT

Sr. No.	Points of Discussion	Actionable	Responsible agency/person
1.	The requirements/data collection from Ward Office.	VESIT will send the requirements to AE - M-East ward with a copy of mail/letter to Chief Engineer -SWM	VESIT will send their requirements to AE-M-East ward who is the single point of contact for data collection. If required he will further coordinate with internal sections of SWM or any other departments of MCGM to collect the data. VESIT will keep other related SWM officials informed (in loop) while sending any requirements to AE-M-East ward or communicating to them.
2.	Instructions to be given to all the CBOs and NGOs for their cooperation in collection of on-site data/information about the status of CTs and PTs..	M East Ward officials will instruct JO's to help VESIT staff/volunteers in collecting on-site information about the status of CTs and PTs.	AE-SWM M-East ward will instruct JOs.
3.	The mechanism to collect the data from M-East ward	VESIT will submit the names of team members who will be responsible for collecting the data in the physical/soft form.	AE- SWM M-East ward.
4	The data related to the new contracts issued to construct the CTs PTs along with the status of CBO formation, completion and the amenities provided.	To make provision to accommodate the new CTs and PTs in the system	For CTs- AE Maintenance & For PTs- AE SWM M-East ward
5.	The integration of the data collected from The Swachhata App.	VESIT will scrutinise the data in coordination with MCGM officials and will decide on the attributes required to be inserted into the system.	For CTs- AE Maintenance & For PTs- AE SWM M-East ward
6.	Accommodation of CTs	CTs- Those where CBO	The authentic data will be

	and PTs	formation process is through, will be included. PTs- Those where official contracts have been issued, will be considered.	provided by concerned AEs of M East ward
7.	Payment related feature in the system.	Payment tracking feature provided.	VESIT
8.	The information to be included in the system.	MCGM officials will decide on the final contents (suggested by VESIT). Suggestions were given to generate the records in compliance with the Swachha Sarvekshan.	Officials of SWM department, at Central and Ward level.
9.	The phases of the projects and timeline	VESIT has given the details in the presentation and will release the first version for M East ward in 2 years of timeline.	VESIT

2. Minutes of Meeting-04-11-2020

Subject of Meeting: Project स्वेच्छा: Discussion on the Requirements for CT/PT, Lot-1
Date and Time: 4th November 2020, 2:30 p.m. to 3:30 p.m
Venue: MCGM M-East Ward
Attendees:

MCGM M Ward East:

1. Mr. Satyajit Patil - Assistant Engineer

Project Swechchha team members:

1. Dr. Shanta Sondur - Professor, IT Department, VESIT
 2. Mrs. Vinita Mishra - Assistant Professor, IT Department, VESIT

Sr. No.	Point of Discussion	Actionable	Responsible agency/person
1.	Recommend/Suggest 3 CTs and 3 PTs in M-east ward based on the locality, area and different operator for implementation of prototype to start with and to understand the operation and maintenance requirements in depth.	AE-SWM M-East Ward agreed to Recommend/Suggest 3 CTs and 3 PTs in M-east ward based on the locality, area and different operator for implementation of prototype.	AE-SWM M-East Ward
2.	Sample copy of detailed information of CT and PT, as per MCGM's record - in terms of attributes/title as a guideline for compiling the data.	AE-SWM M-East Ward agreed to provide with the sample copy of detailed information of CT and PT, as per MCGM's record in soft format.	AE-SWM M-East Ward
3.	Sample data collected through Swachhata App, to avoid redundant data/information.	AE-SWM M-East Ward suggested to download the Swachhata App and look at the attributes and other toilet related functionalities relevant to the project.	VESIT-IT
4.	Sample copy of PT and CT contract/agreement to know the terms and conditions and the scope of the work related to operation and maintenance activities.	AE-SWM M-East Ward agreed to send the Sample copy of PT and CT contract/agreement	AE-SWM M-East Ward
5.	The official list of User's/CT (Yellow card/pass holders) as per MCGM's record.	AE-SWM M-East Ward mentioned that they do not possess the user's list. The list needs to be collected from the CBOs of respective CTs.	CBOs along with JO's of M-East ward

6.	Latitude and Longitude information of all CTs and PTs in M-east ward for Geotagging.	AE-SWM M-East Ward does not possess the information of Latitude and Longitude information of all CTs and PTs. He suggested visiting the toilet blocks to get the on-site information.	VESIT-IT
7.	Contact numbers of MCGM officials (if any) to be given on the portal, in case of an emergency - for CBOs and NGOs.	AE-SWM M-East Ward suggested adding the helpline number of MCGM's Disaster Management Control at central and at ward level as it is available for 24x7.	AE-SWM M-East Ward
8.	The details of the new work order been issued to construct CTs/PTs along with the status of its completion with civil work/CBO formation (so as to make provision to accommodate them in the system)	VESIT-IT to send the request letter with the same requirement (Point no 8 and 9) on the VESIT letterhead along with the copy of the approval letter from MCGM to the Maintenance department of M-east Ward. AE-Maintenance M-East Ward agreed to provide the details on receipt of the above said request letter.	AE-Maintenance M-East Ward
9.	Sample copy of tenders floated under SSP right from construction of toilet blocks till formation and handover of toilet blocks to CBOs in case of CT toilets to understand the scope of work and the mechanism of formation of CBOs and to know the additional number of CTs to be added.	VESIT-IT to send the request letter with the same requirement (Point no 8 and 9) on the VESIT letterhead along with the copy of the approval letter from MCGM to the Maintenance department of M-east Ward. AE-Maintenance M-East Ward agreed to provide the details on receipt of the above said request letter.	AE-Maintenance M-East Ward
10.	* Any other specific details that MCGM officials would like to add to the Web portal/app.	AE-SWM M-East Ward suggested adding the features other than what is available in Swachhata App.	VESIT-IT will prepare the FRS and will send it to MCGM officials for their approval.

3. Minutes of Meeting - 11-01-21

Subject of Meeting: Discussion and Approval on CT/PT Requirement

Date and Time: 11/1/2021

Venue: MCGM M-East Ward , Mankhurd

Attendees:

PT Member

1. Mr. Satyajit Patil - Assistant Engineer-SWM-M/E
2. Mr. Ajay Sataw - Sub Engineer-SWM-M/E
3. Mr.Vivek S.Nagpure - Assistant Engineer-SWM-Operation-M/E
4. Mr.Amol Sanas - Sub Engineer-Maintenance-M/E

VESIT Members

1. Dr. Shanta Sondur - Professor, IT Department, VESIT
2. Mrs Vinita Mishra - Assistant Professor, IT Department, VESIT
3. Mrs. Pooja Shetty - Assistant Professor, IT Department, VESIT

Sr. No.	Points of Discussion	Actionable	Responsible agency/person
CT/PT requirement details were presented to the MCGM officials and few changes were suggested by them which are listed below:			
Static Information			
1.	Point no. 4: Construction details	It was suggested to put CT Construction details along with year of construction and beginning of CBO instead of all the details listed in our proposed CT requirements	VESIT-IT feels that having the complete details of the CT/PT construction will be beneficial for the MCGM officials to keep a track of all the activities under DLP.
2	Point no. 8: MCGM - AHS/JOs to be updated	It was suggested to remove this point.	VESIT-IT will do the needful
3	Point no. 10: No. of Units	It was suggested to use the word "Seats" instead of "Units".	VESIT-IT will do the needful
4	Point no. 14: Sewer	It was suggested to change "CBO" to "MCGM" as the concerned authority to enter the details of the sewer	VESIT-IT will do the needful

		connection.	
5	Point no. 20: Any encroachment ?	It was suggested that this Information should be visible to the MCGM authority only. Should be optional for CBO to provide details (if any)	VESIT-IT will do the needful
Maintenance (Logs)			
6	Point no 1, 2: Structure and Audit details	It was suggested to change “weekly” to “As per the MCGM protocol based on the requirements”	VESIT-IT will do the needful
New Points			
7	About the CT details along with the CBO formation under Lot-11	It was suggested to make a provision for 363 toilets (as per the tender) in the system and add the details as and when they get ready.	VESIT-IT will do the needful
8	Reports and formats	It was suggested to make the reports available yearly/ quarterly/ monthly/ weekly/ day-day basis. Also suggested to submit the draft of the format of the reports for the ready reference and then for approval.	VESIT-IT will do the needful. VESIT-IT will prepare the format in consultation with the MCGM/CBO/NGO and present it for the final approval.
9	Emergency Services:	It was suggested to provide Disaster Management Contact nos at ward and Central level.	VESIT-IT will do the needful
10	Mechanism to identify odour as a part of monitoring cleanliness of the CT/PT	It was suggested to install odometer in the urinals/CT/PT to monitor the odour along with the dashboard facility to see the cleanliness status of the CT/PT	VESIT-IT will study the feasibility and the costing of the installation in 1 CT/PT. VESIT-IT plans to extend the same in other CTs and PTs subject to the condition of the availability of the funds.
11	Mechanism to monitor the level and pressure in the septic tank	It was suggested to install the sensors to monitor the level and pressure in the septic tank to send an alert to the concerned officials to take action (desludge/remedial) to avoid the accidents.	VESIT-IT will study the feasibility and the costing of the installation in 1 CT/PT. VESIT-IT plans to extend the same in other CTs and PTs subject to the condition of the availability of the funds
12	PT related data	It was suggested to coordinate with SBM	VESIT-IT will do the needful

	gathering	deptt, at the Worli office.	
13	Grievances / redressal system: Behavioural/ Safety	VESIT-IT asked for the SOP. However, according to the MCGM officials such SOP does not exist.	VESIT-IT will come up with the SOP in coordination with the CBOs and community people.
14.	Approval of the requirements of the CT and PT presented on the day of meeting.	<p>VESIT-IT presented and discussed the requirements of the CT. The MCGM officials agreed to all the points except the points listed above (where the suggestions were given and VESIT-IT has agreed to do the needful).</p> <p>PT requirements were not presented explicitly. However, VESIT-IT mentioned that except user data most of the functionalities will remain similar.</p> <p>VESIT-IT requested to give the SOPs related to the PT.</p>	<ol style="list-style-type: none"> I. VESIT-IT will do the needful at the points where suggestions are given. II. AE-SWM-Central, Pantnagar office will help VESIT-IT in understanding the SOP related to PT. III. AE-SWM-M-East ward office will help VESIT-IT in understanding the SOP related to CT. IV. AE-maintenance, M-east ward will give us final confirmation on the data to be added to the system under the point no. 1, 2, and 4 under the section maintenance. V. AE-maintenance will help VESIT-IT in understanding the SOP in Grievance-Redressal system. VI. MCGM officials will freeze the report format for CT and PT based on the report templates presented to them by VESIT-IT. VII. The information of the new CBOs of the CTs-under Lot no-11, will be provided to the VESIT-IT as and when they will be handed over to the CBOs after completing the construction of the toilet

			block.
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4. Minutes of Meeting-25-01-2021

Subject of Meeting: Discussion and Approval on PT Requirement

Date and Time: 25/1/2021

Venue: MCGM Pantnagar , Ghatkopar

Attendees:

MCGM (SWM-Operation) Member

1. Shri. Bharat Torne - Dy. Che. SWM -Operation
2. Shri. B. S. Desale - EE SWM-Operation
3. Mr.Vivek S.Nagpure - Assistant Engineer-SWM-Operation

VESIT Members

1. Dr. Shanta Sondur - Professor, IT Department, VESIT
2. Mrs Vinita Mishra - Assistant Professor, IT Department, VESIT
3. Mrs. Pooja Shetty - Assistant Professor, IT Department, VESIT

Sr. No.	Points of Discussion	Actionable	Responsible agency/person
PT requirement details were presented to the MCGM officials and few changes were suggested by them which are listed below:			
Static Information			
1	Construction details (Pt. No. 4)	It was suggested that all the Constructional details of the PT will be updated by MCGM in lieu of PT office bearer (was suggested by VESIT-IT)	VESIT-IT has agreed and will do the needful.
2.	Agreement Details/ MoU	It was suggested that the existing details/Agreement will be updated by MCGM in lieu of PT office bearer (was suggested by VESIT-IT).	VESIT-IT has agreed and will do the needful.
3.	Seats for specially abled/ third gender	It was suggested to have a separate unit or section for specially abled/ third gender users. It was also suggested to make a separate unit by putting a board on the unit/toilet entry.	VESIT-IT has agreed and will add a field to collect the data through app/system..
4.	Sewer details	It was suggested to remove the "option of open nullas" as this is not an option and should be connected to either sewer or septic tank.	VESIT-IT has agreed and will do the needful.

Operations			
1.	Opening and closing time of PTs	It was suggested that instead of opening and closing time of the PT, notify the users of the scheduled closing time of the PT for cleaning/ maintenance purposes. As the PT is open 24x7.	VESIT-IT has agreed and will do the needful.
2	Surveillance Camera	It was suggested to have a note of the existence of the surveillance camera.	VESIT-IT has agreed and will do the needful.
Maintenance (Logs)			
1.	Structure and Audit details	It was suggested to receive a report of the audit done by the PT office bearer.	VESIT-IT has agreed and will do the needful.
2.	Septic tank - SOP for the same/ Schedule	As per the MCGM's SOP, If the desludging is required then the PT office bearer has to request for the service. Upon receiving the request the MCGM will send their vehicle to complete the process.	VESIT-IT will make the necessary changes in the app/system
New Points			
1.	Source of electricity	It was suggested to recommend and add the option of "solar panels" as a source of electricity while collecting the data.	VESIT-IT will make the necessary changes in the app/system
2.	Source of water supply	It was suggested to add "bore well" as one the option for source of water while collecting the data.	VESIT-IT will make the necessary changes in the app/system
3.	Replace Covid-19 with pandemic	It was suggested to use word "Pandemic" in lieu of "Covid-19"	VESIT-IT will make the necessary changes in the app/system
4	Payment	It was suggested that the Display of "Rate boards' is mandatory in every PT and that information should be collected by the App/system.	VESIT-IT will make the necessary changes in the app/system
5.	Format of inspection	It was suggested that the inspection parameters should be as per the format prescribed by the MCGM.	VESIT-IT will make the necessary changes in the app/system

7.	Passholders in PT	It was suggested to include the number of Passholders using PT excluding their other details as an additional parameter in the system/app.	VESIT-IT will make the necessary changes in the app/system
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A2: Requirement - Lot-1

Project स्वेच्छा: Requirements

Subject: CTs and PTs in M-East ward - General
Date: 01st November, 2020
Lot No: 1

Sr. No.	Details of the Requirements
1.	Recommend/Suggest 3 CTs and 3 PTs in M-east ward based on the locality, area and different operator for implementation of prototype to start with and to understand the operation and maintenance requirements in depth.
2.	Sample copy of detailed information of CT and PT, as per MCGM's record - in terms of attributes/title as a guideline for compiling the data.
3.	Sample data collected through Swachhata App, to avoid redundant data/information.
4.	Sample copy of PT and CT contract/agreement to know the terms and conditions and the scope of the work related to operation and maintenance activities.
5.	The official list of User's/CT (Yellow card/pass holders) as per MCGM's record.
6.	Latitude and Longitude information of all CTs and PTs in M-east ward for Geotagging.
7.	Contact numbers of MCGM officials (if any) to be given on the portal, in case of an emergency - for CBOs and NGOs.
8.	The details of the new work order been issued to construct CTs/PTs along with the status of its completion with civil work/CBO formation (so as to make provision to accommodate them in the system)
9.	Sample copy of tenders floated under SSP right from construction of toilet blocks till formation and handover of toilet blocks to CBOs in case of CT toilets to understand the scope of work and the mechanism of formation of CBOs and to know the additional number of CTs to be added.
10.	* Any other specific details that MCGM officials would like to add to the Web portal/app.

* We are working on the FRS, which will be shared in 2 weeks time.

Copy to: Ch.Engineer's Office- SWM operation

A3: CT Requirements

Project Swachh Bharat	
Detailed Functional Requirements of Community Toilets (CT)	
Functionalities are broadly classified into the following heads:	
1	Static Information
2	Operation
3	Maintenance - (logs/month/year)
4	Grievances / redressal system
5	Emergency services
6	Reports/analysis

Sr. No.	Activities	Activity Description	Updated By	Viewed By	Verified/ Approved by	Updated on	Viewable on
Static Information - CT Details							
1	Create account for CBO President (Representative of CBO)	Creating role of CBO President.	MCGM	CBO and MCGM	MCGM	Mobile	Mobile / Website
2	Create account for other CBO Roles	CBO President will create other CBO roles. He would adding/ updation other CBO Office Bearers, Cleaner, Caretaker etc. Assigning and managing different roles to each user.	CBO	CBO and MCGM		Mobile	Mobile / Website
3	CT Details	CT No, Name, Operator, no of units, section for men/women/children/specially abled	CBO	CBO and MCGM	MCGM	Website (bulk) Mobile	Mobile / Website
		Information should be linked to Toilet locator, Need to collect with the help of JOs	VESIT and MCGM	CBO and MCGM	MCGM	Mobile	Mobile
		Opening and closing time of CTs	CBO	CBO and MCGM		Mobile	Mobile / Website
		Display the stars based on the safety/hygiene/cleanliness link it to the toilet locator	System	CBO and MCGM		System	Mobile / Website
4	Construction details	CT Construction details along with the order, year, Plan of approval (Existing CT/PT - before project launch -	VESIT	CBO and MCGM	MCGM	Website (bulk)	Mobile / Website
		CT Construction details along with the order, year, Plan of approval (New CT/PT - after project launch)	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
		When/ Cost, construction agency/ agencies/ work order/ handing over information/name of the contractor/defect liability period/any other data related to the construction and other services (Existing CT/PT - before project launch - Initially)	VESIT	CBO and MCGM	MCGM	Website (bulk)	Mobile / Website
		To be updated in case of new order/construction When/ Cost, construction agency/ agencies/ work order/ handing over information/name of the contractor/defect liability period/any other data related to the construction and other services (New CT/PT - after project launch)	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
5	Agreement Details/MoU	MoU with MCGM	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
6	Latitude/Longitude-geo tagging location	Need to collect with the help of JOs	VESIT and MCGM	CBO and MCGM	MCGM	Mobile	Mobile / Website
7	CBO Federation details - to be updated per year	CBO members and federation members (if any) along with their contact details, position, All Information should be linked to Toilet locator,	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
		history of the CBOs formed yearwise	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
8	MCGM - AHS/JOs -- to be updated	AHS/JO's details along with contact no (ON approval)	MCGM	CBO and MCGM	MCGM	Website	Mobile / Website
9	Caretaker Details	to be updated Name, Contact nos./Aadhar Added and Updated when required	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
10	No of Units	To be collected at every CT - Through App All Information should be linked to Toilet locator	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
11	Equipment Details List	Details of amenities: light/fan/door/exhaust fan/sanitary pad vending machine/ incinerator/ feedback machine - All Information should be linked to Toilet locator,	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
12	Water Connectivity/Agency	Provide Water connection information / incase of disconnectivity of water supply	CBO	CBO and MCGM	MCGM		
		Utility details: Availability of water supply along with the supplying agency		CBO and MCGM			
		Availability of water shoube linked to Toilet locator in terms of star	System	CBO and MCGM		Mobile	Mobile / Website
13	Electricity Connectivity/Agency	Utility details: Availability of electricity along with the supplying agency All Information should be linked to Toilet locator in terms of star	CBO	CBO and MCGM	MCGM		
		Availability of electricity shoube linked to Toilet locator in terms of star	System	CBO and MCGM		Mobile	Mobile / Website
14	Sewer details	Sewer details: Connected to sewer line/septic tank, open in nullhas	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website

Changed to	Construction details	CT Construction details along with year of construction and	MCGM	CBO and MCGM	MCGM		Website (bulk)	Mobile / Website
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Removed								
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Changed to	No of Seats	To be collected at every CT - Through App All Information should be linked to Toilet locator Some toilets may have ground +1 levels	CBO	CBO and MCGM	MCGM		Mobile	Mobile / Website
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Changed to	Sewer details	Sewer details: Connected to sewer line/septic tank, open in nullhas	MCGM	CBO and MCGM	MCGM		Mobile	Mobile / Website
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15	User List- all details should be updated by the system	To be collected at every CT - Through App	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
		List of Pass Holders: /year	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
		Total population of users of the CTs: men/women/children	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
		per year population change	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
		per year men/women/children	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
		Financial status of the pass holders - paid/due etc	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
		Update on yearly basis	CBO	CBO and MCGM	CBO	Mobile	Mobile / Website
16	House hold toilet details	Update on yearly basis	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
17	Monthly charges/family	Monthly charges rates to be collected from the users (need to be obtained from CBOs) or MoM	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
18	Revenue generation mechanism, if any, other than collection of monthly charges	Link it with monitoring section	CBO	CBO and MCGM		Mobile	Mobile / Website
19	Is the CT premises being used for any other purposes?	Information should be visible to the MCGM authority	MCGM	CBO and MCGM	MCGM	mobile	Mobile / Website
20	Any encroachment ?	Information should be visible to the MCGM authority	MCGM	CBO and MCGM	MCGM	Mobile	Mobile / Website
Operations							
1	Opening and closing time of CTs	Should be displayed and checked by the CBOs	CBO	CBO and MCGM	-	Mobile	Mobile / Website
2	Cleanliness Schedule	Capture, Cleanliness SOP - to be displayed physically in the form of a chart	CBO	CBO and MCGM	-	Mobile	Mobile / Website
		Capture, Cleanliness SOP in case COVID - to be displayed physically in the form of a chart	CBO	CBO and MCGM	-	Mobile	Mobile / Website
		Cleanliness schedule/week/month (Normal)	CBO	CBO and MCGM	-	Mobile	Mobile / Website
		Cleanliness schedule/week/month ((COVID situation))	CBO	CBO and MCGM	-	Mobile	Mobile / Website
		Summary report/day	System	CBO and MCGM	-	System	Mobile / Website
	Unit wise/section wise (men/women) should be linked with the toilet locator	System	CBO and MCGM	-	Mobile	Mobile / Website	
3	Consumables required (budgeted) (Normal)	Status of the Availability of consumables	CBO	CBO and MCGM	-	Mobile	Mobile / Website
4	Payment	Pay and Use - user logs and payment collected per day basis Log of income received by payment made by non registered users	CBO	CBO and MCGM	-	Mobile	Mobile / Website
5	Toilet locator	The cleanliness status should be visible	System	CBO and MCGM	-	Mobile	Mobile / Website
		Display the stars based on the safety/hygiene/cleanliness	System	CBO and MCGM	-	System	Mobile / Website
6	Monitoring/day and generating an alerts and sending it to the concerned staff	Daily Users/Men/women/children/adolescent girls/specially abled - based on the QR code/RFID based passes issued to the family members	CBO	CBO and MCGM	-	System	Mobile / Website
7	Attributes for monitoring all/particular activity given by User	User's feedback related to:- cleanliness Availability of the sanitary pads in the vending machine Water availability Electricity availability Consumables Safety Status of the equipments/amenities Surrounding environment - greenary, hygiene, plantation, cleanliness	CBO	CBO and MCGM	-	Mobile	Mobile / Website
8	Attributes for monitoring all/particular activity given by Care taker	Care taker's feedback related to:- cleanliness Availability of the sanitary pads in the vending machine Water availability Electricity availability Consumables Safety Status of the equipments/amenities Surrounding environment - greenary, hygiene, plantation, cleanliness All the data will be entered by the caretaker, sent to the CBO for verification and will be crosschecked with the user feedback to maintain the genuineness	CBO	CBO and MCGM	-	Mobile	Mobile / Website
9	User Feedback from other devices/ Apps	The details of the mechanism for collecting User Feedback other than devices/ app like data collected through swachhata app (if any)	System	CBO and MCGM	-	Mobile	Mobile / Website

Changed to	Any encroachment ?	Information should be visible to the MCGM authority Should be optional for CBO to provide details (if any)	CBO	CBO and MCGM	MCGM		Mobile	Mobile / Website
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10	Payment - Passholders	Display of monthly charges Status and send charges/dues - alerts to be sent to the concerned family members	System	CBO and MCGM	-	Mobile	Mobile / Website
11	Payment - Pay per use	Display of charges Account of payment received by users daily	CBO	CBO and MCGM	-	Mobile	Mobile / Website
12	Caretaker log	Reports on daily/weekly/monthly basis	System	CBO and MCGM	-	Mobile	Mobile / Website
13	Other Sources of Income	Are they generating revenue other than collecting the fees from users	CBO	CBO and MCGM	-	Mobile	Mobile / Website
14	Surveillance Camera	Any Surveillance Camera ? if yes monitor and take the data in	CBO	CBO and MCGM	-	System	Mobile / Website
15	Any emergency services required /day basis	like blast/ damage to septic tank	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
16	Online e Monitoring	Online e Monitoring facility should be available	System	CBO and MCGM	-		
17	Log of user	a functionality to see the log of any activity done by any user	System	CBO and MCGM	-	Mobile	Mobile / Website
18	Block User	to block a user for a month (or particular period) who is raising fake complains	CBO	CBO and MCGM	MCGM	Mobile	Mobile

Maintenance (Logs)

1	Structure and Audit details	weekly	MCGM	CBO and MCGM	MCGM	Mobile	Mobile / Website
2	Structure repair	Minor structural repairs if any - done by CBOs	CBO	CBO and MCGM		Mobile	Mobile / Website
		Major structural repair done by the MCGM with dates/year, internal/external	MCGM	CBO and MCGM	MCGM	Mobile	Mobile / Website
3	Status of the equipments/amenities	per month/year	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website
4	Septic tank - SOP for the same/schedule	Septic tank - cleaning/desludging done and due frequency of desludging should be carried out based on the load taken up by the septic tank. CBO and JO-SWM M-East Ward would decide the frequency of desludging.	CBO/ MCGM	CBO and MCGM	MCGM	Mobile	Mobile / Website
5	Consumables Audit	Logs of consumables/month/year Audit of Consumable/week/month/half yearly/yearly Audit of Consumable/week/month/half yearly/yearly (COVID situation)	System	CBO and MCGM	MCGM	System	Mobile / Website
6	Utility Bills Log	Utility Bill payments: Facility to upload the bills of water and electricity on monthly basis.	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website

Grievances / redressal system

1	Regular Operation - SOP	CBO /Care taker - Day-to-day routine operation related queries. Monthly charges to be paid by the user, sweepers related complaints, consumables, cleanliness, water/electricity, septic tank	CBO/ USER	CBO and MCGM	MCGM	Mobile	Mobile / Website
		User -opening of the toilet, non-availability of water/electricity and caretaker. Cleanliness, sanitary pads, non functioning of fan, light, improper door locking arrangement like adrop, tower bolt etc.	CBO/ USER	CBO and MCGM	MCGM	Mobile	Mobile / Website
2	Maintenance / repair - SOP	Structure - Major/Minor Major: Structural takes 15 to 30 days , Septic tank (choking, desludging, accidents) requires 1 to 2 days Minor: Structural takes 7 to 15 days and	CBO/ USER	CBO and MCGM	MCGM	Mobile	Mobile / Website
3	Behavioural/Safety - SOP	Vandalism, theft Use emergency contact details Should be addressed ASAP	CBO/ USER	CBO and MCGM	-	Mobile	Mobile / Website
4	Utility related - SOP	Availibility of water/electricity Should be resolved ASAP	CBO/ USER	CBO and MCGM	MCGM	Mobile	Mobile / Website
5	User Feedback	User's feedback related to:- cleanliness Availability of the sanitary pads in the vending machine Water availability Electricity availability Consumables Safety Status of the equipments/amenities	USER	CBO and MCGM	MCGM	Mobile	Mobile / Website
6	Cleanliness - SOP	Grievances: logs of all the complaints along with date of arrival and date of closer with proper intimation to all the stakeholders . Cleanliness takes 1 to 2 days resolution period.	CBO	CBO and MCGM	MCGM	Mobile	Mobile / Website

Emergency services

1	Disaster Management Cell	Contact details of Disaster Management Cell	CBO	CBO and MCGM	-	Mobile	Mobile / Website
2	Hospital	Contact details of Drs - MCGM/Govt run hospitals	CBO	CBO and MCGM	-	Mobile	Mobile / Website

Changed to	Structure and Audit details	Carried out has per MCGM orders	MCGM	CBO and MCGM	MCGM		Mobile	Mobile / Website
		Minor structural repairs if any - done by CBOs	CBO	CBO and MCGM			Mobile	Mobile / Website
Changed to	Toilet Repairs	Septic tank related issues are handled by MCGM	MCGM	CBO and MCGM	MCGM		Mobile	Mobile / Website
		In case of major damage the toilet is demolished and rebuilt in te next Lot.	MCGM	CBO and MCGM	MCGM		Mobile	Mobile / Website

Changed to	Consumables Audit	Logs of consumables should be available weekly Audit of Consumable/weekly/ month/ half yearly/ yearly Audit of Consumable/weekly/ month/ half yearly/ yearly (COVID situation)	System	CBO and MCGM	MCGM		System	Mobile / Website
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Changed to	Behavioural/ Safety	Vandalism, theft Use emergency contact details Should be addressed ASAP	CBO/ USER	CBO and MCGM	-		Mobile	Mobile / Website
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Changed to	Disaster Management Cell	Contact details of Disaster Management Cell	CBO	CBO and MCGM	-		Mobile	Mobile / Website
Removed								

A4: PT Requirements

Project Swachh Bharat							
Detailed Functional Requirements of PublicToilets (PT)							
Functionalities are broadly classified into the following heads:							
1	Static Information						
2	Operation						
3	Maintenance - (logs/month/year)						
4	Grievances / redressal system						
5	Emergency services						
6	Reports/analysis						
Sr. No.	Activities	Activity Description	Updated By	Viewed By	Verified/ Approved by	Updated on	Viewable on
Static Information - PT Details							
1	Create account in application, for PT President (Representative of PT)	Creating role of PT President.	MCGM	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
2	Create account for other PT office Barier Roles	PT President will create other PT roles. He would add/update other PT office Bearers, Cleaner, Caretaker etc. Assigning and managing different roles to each user.	PT office Barier	PT office Barier and MCGM	-	Mobile	Mobile / Website
3	PT name	PT No. Name, Operator, no of seats, section for men/women/childern/specially abled/ third gender	MCGM	PT office Barier and MCGM	MCGM	Website (bulk) Mobile	Mobile / Website
		Information should be linked to Toilet locator, (Need to collect with the help of JOs)	VESIT and MCGM	PT office Barier and MCGM	MCGM	Mobile	Mobile
		Display the stars based on the safety/ hygiene/ cleanliness link it to the toilet locator	System	PT office Barier and MCGM	-	System	Mobile / Website
4	Construction details	PT Construction details along with the order, year, Plan of approval (Existing PT - before project launch - Initially)	VESIT	PT office Barier and MCGM	MCGM	Website (bulk)	Mobile / Website
		PT Construction details along with the order, year, Plan of approval (New PT - after project launch)	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
		When/ Cost, construction agency/ agencies/ work order/ handing over information/name of the contractor/defect liability period/any other data related to the construction and other services (Existing PT - before project launch - Initially)	VESIT	PT office Barier and MCGM	MCGM	Website (bulk) (for existing CTR)	Mobile / Website
4	Construction details	To be updated in case of new order/construction When/ Cost, construction agency/ agencies/ work order/ handing over information/name of the contractor/defect liability period/any other data related to the construction and other services (New PT - after project launch)	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
5	Agreement Details	Upload Agreement with MCGM	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
6	Latitude/Longitude-geo tagging location	Need to collect with the help of JOs	VESIT and MCGM	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
7	PT/CBO Federation details - to be updated per year	PT office Barier and federation members (if any) along with their contact details, position, All Information should be linked to Toilet locator,	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
		history of the PT office Bariers formed yearwise	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
8	Caretaker Details	Added Name, Contact nos./Aadhar and Updated when required	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
9	No of seats per PT Block	To be collected at every PT Information should be linked to Toilet locator	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
10	Equipment Details List	Details of amenities: light/ fan/ door/ exhaust fan/ sanitary pad vending machine/ incinerator/ feedback machine. All Information should be linked to Toilet locator	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
11	Water Connectivity/Agency	Utility details: Availability of water supply along with the supplying agency All Information should be linked to Toilet locator in terms of star	PT office Barier	PT office Barier and MCGM	MCGM		
		Availability of water should linked to Toilet locator in terms of star All Information should be linked to Toilet locator in terms of star	System	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
12	Electricity Connectivity /Agency	Utility details: Availability of electricity along with the supplying agency All Information should be linked to Toilet locator in terms of star	PT office Barier	PT office Barier and MCGM	MCGM		
		Availability of electricity should be linked to Toilet locator in terms of star	System	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
13	Sewer details	Sewer details: Connected to sewer line/septic tank, open in nullhas	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
14	Usage Charges	Charges for using Toilet and bathing	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website

Updated Statements									
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3	PT name	PT No. Name, Operator, no of seats, section for men/women/childern/specially abled/ third gender	MCGM	PT office Barier and MCGM	MCGM	Website (bulk) Mobile	Mobile / Website
4	Construction details	PT Construction details along with the order, year, Plan of approval (Existing PT - before project launch - Initially)	VESIT	PT office Barier and MCGM	MCGM	Website (bulk)	Mobile / Website
		PT Construction details along with the order, year, Plan of approval (New PT - after project launch)	MCGM	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
		When/ Cost, construction agency/ agencies/ work order/ handing over information/name of the contractor/defect liability period/any other data related to the construction and other services (Existing PT - before project launch - Initially)	VESIT	PT office Barier and MCGM	MCGM	Website (bulk) (for existing CTR)	Mobile / Website
4	Construction details	To be updated in case of new order/construction When/ Cost, construction agency/ agencies/ work order/ handing over information/name of the contractor/defect liability period/any other data related to the construction and other services (New PT - after project launch)	MCGM	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
5	Agreement Details	Upload Agreement with MCGM	MCGM	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website
11	Water Connectivity/Agency	Utility details: Availability of water supply along with the supplying agency Include the bore well as source also All Information should be linked to Toilet locator in terms of star	PT office Barier	PT office Barier and MCGM	MCGM		
12	Electricity Connectivity /Agency	Utility details: Availability of electricity along with the supplying agency Include the solar as source also All Information should be linked to Toilet locator in terms of star	PT office Barier	PT office Barier and MCGM	MCGM		
13	Sewer details	Sewer details: Connected to sewer line/septic tank	PT office Barier	PT office Barier and MCGM	MCGM	Mobile	Mobile / Website

15	Passholder List-	To record name of user																		
Operations																				
1	Opening and closing time of PTs	Should be displayed and checked by the PT office Barriers	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
		Capture, Cleanliness SOP - to be displayed physically in the form of a chart (Janitary Chart)	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
		Capture, Cleanliness SOP in case COVID - to be displayed physically in the form of a chart	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
		Cleanliness schedule/week/month (Normal)	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
		Cleanliness schedule/week/month (COVID situation)	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
2	Cleanliness Schedule	Summary report/ day	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
4	Consumables	Status of the Availability of consumables	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
5	Payment	Pay and Use - User logs and payment collected per day basis Log of income received by payment made by users	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website	Removed and changed	5	Payment	Capture, charges per usage - to be displayed physically in the form of a chart	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website				
6	Toilet locator	The cleanliness status Unit wise/section wise (men/women) should be linked with the toilet locator	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
6		Display the stars based on the safety/ hygiene/ cleanliness	System		-	System	Mobile / Website													
7	Attributes for monitoring all/ particular activity given by User	User's feedback related to:- cleanliness Availability of the sanitary pads in the vending machine Water availability Electricity availability Consumables Safety Status of the equipments/amenities	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
8	Attributes for monitoring all/particular activity given by Care taker	Care taker's feedback related to:- cleanliness Availability of the sanitary pads in the vending machine Water availability Electricity availability Consumables Safety Status of the equipments/amenities Surrounding environment - greenary, hygiene, plantation, cleanliness All the data will be entered by the caretaker, sent to the PT office Barrier for verification and will be crosschecked with the user feedback to maintain the genuineness	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
9	User Feedback from other devices/ Apps	The details of the mechanism for collecting User Feedback other than devices/ app like data collected through swachhata app (if any)	PT office Barrier	PT office Barrier and MCGM	-															
10	Caretaker log	Reports on daily/ weekly / monthly basis	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
11	Surveillance Camera	Any Surveillance Camera ?	PT office Barrier	PT office Barrier and MCGM	-	System	Mobile / Website													
12	Any emergency services required / day basis	like blast/ damage to septic tank	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website	Removed												
13	Log of user count	a functionality to find footfall	System	PT office Barrier and MCGM	-	Mobile	Mobile / Website	Removed												
14	Passholder	Collect payment from passholders						Newly added												
15	Foot fall count	To record number of users visited the toilet	PT office Barrier	PT office Barrier and MCGM		Mobile	Mobile / Website													
Maintenance (Logs)																				
1	Structure and Audit details	Weekly, recorded by JO	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
2	Structure repair (major/ minor)	Undertaken by PT office Barrier	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
3	Status of the equipments/ amenities	per month/year	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
4	Septic tank - SOP for the same/schedule	Septic tank - cleaning/ desludging done and due frequency of desludging should be carried out based on the load taken up by the septic tank. PT office Barrier will call for the desludging whenever required.	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
5	Consumables Audit	Logs of consumables/month/year Audit of Consumable/week/month/half yearly/yearly Audit of Consumable/week/month/half yearly/yearly (COVID situation)	PT office Barrier	PT office Barrier and MCGM	-	System	Mobile / Website													
		Inspection should be carried out annually after 5+ year of the construction of toilet blocks	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
		Septic tank - cleaning/ desludging done and due - Alerts frequency of desludging should be carried out based on the load taken up by the septic tank. PT office Barrier will call for MCGM, on which MCGM will send their vehicle for desludging, whenever required.	PT office Barrier	PT office Barrier and MCGM	-	Mobile	Mobile / Website													
		Logs of consumables/month/year Audit of Consumable/week/month/half yearly/yearly Audit of Consumable/week/month/half yearly/yearly (pandemic situation)	PT office Barrier	PT office Barrier and MCGM	-	System	Mobile / Website													

2	Swachha Sarvekshan	As per the attributes of the form	System	PT office Barier and MCGM	MCGM	System	Mobile / Website												
3	Log of Operational Activities	view report on operational activities on daily /weekly/monthly/yearly Care Taker Activities Cleanliness Schedule Consumables required/ inventory Pay per Use - payment collected and count PT ranking Demographic classification of users (Pass holder) User Feedback Summary(from Swechcha and other apps) Revenue Generated (monthly charges, other source revenue) Expenses incurred Log of Passholders Blocked users list	System	PT office Barier and MCGM	MCGM	System	Mobile / Website	3	Log of Operational Activities	view report on operational activities on daily /weekly/monthly/yearly Care Taker Activities Cleanliness Schedule Consumables required/ inventory PT ranking Demographic classification of users (Pass holder) User Feedback Summary(from Swechchha and other apps) Expenses incurred Log of Passholders	System	PT office Barier and MCGM	MCGM		System	Mobile / Website			
4	Log of Maintainance Activities	view report on maintenance activities on daily /weekly/monthly/yearly Audit Toilet Repair Status of equipment, consumables and utility Record of desludging of septic tank	System	PT office Barier and MCGM	MCGM	System	Mobile / Website												
5	Log of Grievances	view report on Grievance activities on daily /weekly/monthly/yearly regular operatoim SOP maintenance SOP Utility SOP cleanliness SOP vandalism and theft SOP	System	PT office Barier and MCGM	MCGM	System	Mobile / Website												
6	Log of Cleanliness	Cleanliness status of PT /area wise	System	PT office Barier and MCGM	MCGM	System	Mobile / Website												
7	Ranking of PT	Ranking of the PT based on cleanliness	System	PT office Barier and MCGM	MCGM	System	Mobile / Website												
9	Revenue/expenses	Log of Revenue and Expenditure	System	PT office Barier and MCGM	MCGM	System	Mobile / Website	Removed											
System Features																			
1	Local Language	A facility to use the application in local language, Marathi and also English and Hindi	System	System		System	System												

APPENDIX to MOU

Following students are appointed from Computer Engineering Department of Vivekanand Education Society's Institute of Technology, V.E.S.I.T, to work in the project mentioned in the attached MOU for the duration Jan 2020 to May 2021.

The details of the students are as follows

- | | |
|-----------------------------|---------|
| 1. Shreyas Sanjay Talole | D12B/67 |
| 2. Aditya Prabhanath Shinde | D12B/61 |
| 3. Atharva Aniruddha Bapat | D12B/07 |

S. Shreyas



25th September, 2020

To,

Aditya Shinde,
Room No. 19, Siddharth Society,
Ram Nagar (B), Ghatkopar (W)
Mumbai - 400086
Mob - 8655330855

Dear Aditya,

SUB : PROJECT INTERNSHIP

With reference to your application and the interactions, we are pleased to appoint you as a **Project Intern** in our company on the following terms and conditions:-

01. PLACE OF POSTING AND REPORTING AUTHORITY:

Your posting will be in **MUMBAI**. You will be reporting to Mr. Devesh Rajadhyax. In view of the COVID-19 pandemic, you will currently work from home. You will be notified whenever the company decides to start office working.

02. ASSIGNMENT DURATION:

Your internship duration starts from **25th September, 2020**.

This assignment is for a period of **six months**, which may be extended or reduced at the sole discretion of the Management. The internship can be extended or converted into another form of association by mutual consent of both parties during or after the expiry of the agreed duration. The remuneration for the such engagement will be discussed mutually at that time.

03. DUTIES AND RESPONSIBILITIES:

- a. The Company will expect you to work with a high standard of initiative, efficiency and economy. You will perform, observe and confirm to such duties, directions and instructions assigned or communicated to you by the Company and those in authority over you.
- b. You shall neither divulge nor give out to any unauthorized person during the period of your service or even afterwards by word of mouth or otherwise, particulars or details of our process, technical know-how, security arrangements, administrative and / or organizational matters of a confidential/secret nature, which may be your privilege to know by virtue of your being our employee.
- c. You shall keep confidential all the information and material provided to you by the Company or by its clients concerning their affairs, in order to enable the Company to perform the service. This also includes such information as is already known to the public which also you will not release, use or disclose except with the prior written permission of the Company. Your obligation to keep such information confidential shall remain even on termination or cancellation of this employment.
- d. You are allowed to share the code on github repository only after permission is given from company to do so. If you are working on a client project or company data is involved, then you are not supposed to upload it anywhere outside the company.

04. TERMINATION OF INTERNSHIP:

- a. Your services are liable to be terminated without any notice or compensation in lieu thereof for misconduct, without being exhaustive and without prejudice to the general meaning of the term 'misconduct' in the case of reasonable suspicion of misconduct,

disloyalty, commission of an act involving moral turpitude, any action of indiscipline or inefficiency.

- b. You can apply for discontinuance of your internship by sending an e-mail to your reporting authority two weeks prior to the date of discontinuance. The reporting authority will decide on the acceptance of request subject to completion of handover of work and any other formalities that need to be completed.

05. GENERAL :

- a. You will be covered by the service rules and regulations including conduct, discipline and administrative orders and any such other rules or orders of the company that may be in force from time to time.
- b. You will hand over the charge of Letter of Authority issued to you or any property / material of the company in your possession at the time of cessation of your employment within the Company.
- c. You shall make your own stay and transport arrangements if required to visit office.
- d. The work on the project is done concurrently with your academic requirements. You have to take care that the academic requirements are not being ignored because of the project work.
- e. The office is under supervision of CCTV camera and by accepting this offer you consent to the said supervision whenever you visit office.

We look forward to a long, successful and pleasant association.

Yours sincerely,
For **Cere Labs Pvt. Ltd.**

AUTHORISED SIGNATORY

ACKNOWLEDGMENT & ACCEPTANCE

I have read and understood the above terms and conditions and unconditionally accept the same.

SIGNATURE:

DATE :

V. E. S. Institute of Technology, Chembur, Mumbai

VESIT-Aditya Jyot Eye Innovation Centre Project

Academic Year: 2020-2021

Project Collaboration: Aditya Jyot Eye Innovation Centre (Aditya Jyot Foundation for Twinkling Little eyes)

VESIT-Aditya Jyot Eye Innovation Centre is the result of a collaborative relationship between two diverse fields namely medicine and engineering, for the purpose of medical research and technological innovation. In VESIT-Aditya Jyot Eye Innovation Centre, a platform is provided for development of student-based research projects on various fields of ophthalmology, to provide better and superior health care facilities which are technology driven, for the poor and needy.

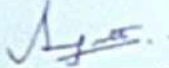
Project Title: Detection of Diabetic Retinopathy using fundus images

Name of the Faculty: Mrs. Sangeetha Prasanna Ram, Mrs. Amudha Senthilkumar

Name of the Students: Advait Shirvaikar, Tanmay Shrivage, Anjali Kothawade, Advait Mandlik

Description of the Project:

Diabetes Mellitus is a condition in which a human body is unable to produce enough insulin to regulate metabolism of sugar for storage in human cells. This results in high sugar levels in blood that may progressively damage the blood vessels in the retina and can result in vision impairment leading to diabetic Retinopathy. The primary objective of this project was to find out the most accurate transfer learning algorithm that would identify the severity of the diabetic retinopathy and classify diabetic retinopathy and non-diabetic retinopathy images accurately. The detection of Diabetic Retinopathy depends upon identification of minute features like exudates or microaneurysms. The dataset consists of images that are captured under varying environments and at different locations. Thus, the images are not standardized. One of the most important things to look out for, when deploying a Machine Learning model is that the data is standardized, to get the best possible result. The system proposed in this project has two modules: 1. Image Processing - to facilitate standardization of all the images 2. Machine Learning Classification Module - to classify the images as our perusal Input to the models was real-time augmented images, processed as 'Intensity Equalization of the RGB images and application of CLAHE on the luminous channel of the images' and 'Grayscale and local mean subtraction'. The RGB images gave a better result during the first training, so all the Input to the models was real-time augmented images, processed as 'Intensity Equalization of the RGB images and application of CLAHE on the luminous channel of the images' and 'Grayscale and local mean subtraction'. The RGB images gave a better result during the first training, so all the subsequent models were trained on RGB images.


(Mrs. Sangeetha Prasanna Ram)



JADAVPUR UNIVERSITY ALUMNI ASSOCIATION (MUMBAI BRANCH) TRUST

(Regn. No. BOM / 318-80 under Registrar of Societies Act 1860 and Regn. No. F- 6172 (BOM) under The Bombay Public Trust Act 1950)

C/o Shri A K Adhikary, A/2/9 Gokuldharm Hsg Complex, Flat 403, Nirmal, Goregaon(E), Mumbai 400 063 . Tel : 2840 0082 & Mbl : +91 9820190336.

Email : akadhikary@gmail.com

This is to certify that a scholarship of Rs 20,000/= in memory of Late Tarun Kumar Basu, B E (Mech) In 1952 & an active member of our Alumni Association, is awarded by Jadavpur University Alumni Association (Mumbai Branch) Trust to Mr Yogesh Shamsundar Inamdar of second year Electronics & Telecommunication Engineering for securing topmost rank in second year examination under entire Engineering & Technology faculty held in 2019-20 (although result declared in 2020-21) of Vivekananda Education Society's Institute of Technology, Chembur, Mumbai.

Rajat Kumar Das Gupta
Chairman



Shyama Prasad Ray
Managing Trustee





Vivekanand Education Society's Institute of Technology

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

Dr. (Mrs.) J. M. Nair
M. Tech., Ph.D. (IIT-B)
Principal

Ref. No.: VESIT/SJ/1695/2020-21

Date: 26/2/2021

Acknowledgment

A scholarship of Rs. 20,000/- in memory of Late Tarun Kumar Basu, B E (Mech) in 1952 & an active member of Jadavpur University Alumni Association (Mumbai Branch) Trust, is awarded by the Trust to Mr. Yogesh Shamsunder Inamdar of second year Electronics & Telecommunication Engineering for securing topmost rank in second year examination, held in 2019-20 of Vivekananda Education Society's Institute of Technology, Chembur, Mumbai.

Mr. Yogesh Shamsunder Inamdar received the amount transferred to his account on the 5th of February 2021. He also received a Citation Certificate from the Association.



Received
Yogesh S. F.
Yogesh Inamdar



ATS Microsoft Exam Report

Contents: Training details, exam dates and results


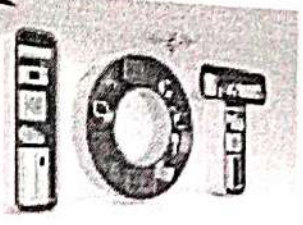
AY:2020-2021



[Handwritten Signature]
Anjali Yedc




Syllabus
Syllabus IOT :






- Other Options
- Rasp-Config
- Test

New Course Content for 3-Day free Workshop on IOT

1. **Understanding and introduction to Raspberry Pi (11hrs)**
 - What is SOC?
 - Versions of Raspberry Pi & Their Difference
 - Raspberry Pi 4
 - Basics of Electronics
 - Hardware Description
 - Pin Configuration
2. **OS Installation on SD Card (30Mins)**
 - Downloading Image
 - Study Various Operating Systems Available
 - Making SD Card: Formatting and Partition
 - Raspberry Pi SD Installer
3. **OS Configuration (30Mins)**
 - Booting into Desktop
 - GUI Version
 - C/C++ Desktop
 - Changing Time zone
4. **Network Setup (30Mins)**
 - Setting Up Using GUI
 - Setting Up Using Command Line
 - Finding Pi's IP Address
 - Connecting with Wi-Fi/ LAN/ Data card
5. **GPIO (1hrs)**
 - Study GPIO Pins
 - Libraries Using GPIO
 - Configuring GPIO Pins
6. **Running SSH (30Mins)**
 - Enabling SSH
 - Logging in using PuTTY
 - Run Basic Commands
 - Use LAMP
7. **Linux (11hrs)**
 - Understanding Linux
 - File Structure
 - Linux Commands
 - Permissions
8. **Using Python (8hrs) with raspberry Pi 4**
 - Understanding Python
 - Interpreted Languages
 - Variables, Keywords, Operators and Expressions
 - Data Types in Python
 - Flow Control
 - Conditional Statement
 - Loops
 - Importing Libraries
 - Functions
 - Classes
9. **New addition with Microsoft certification on Python: Using Python for web app for connecting with IOT devices. (in addition to the above topics)**
 - Document and structure code










OpenWeb

- Perform troubleshooting and error handling
- Perform operations using modules and tools
- Introduction to web frames works
- Flask
- Connecting with Think speak (data visualization)

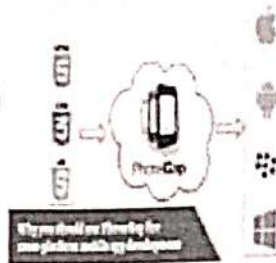
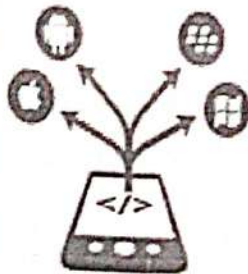
AIS Learning Solutions



10. Working with Different sensors.

11. Project using raspberry Pi 3 and different sensors (mini)

<https://drive.google.com/file/d/0B1zrzByr9RRQTUtQa1pwOVdCTkpIV2E1a1dhUThvVDhScVhn/view?usp=sharing&resourcekey=0-wzmyCn6cnWRXXpk4OhKtBq>



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Syllabus Security :

ATS Network Security and Ethical Hacking

[1.] Hacking Psychology

The next section will explain the purpose of ethical hacking and exactly what ethical hackers do. As mentioned earlier, ethical hackers must always act in a professional manner to differentiate themselves from malicious hackers. Gaining the trust of the client and taking all precautions to do no harm to their systems during a pen test are critical to being a professional.

- (1.) Concept of Ethical Hacking: Legal or illegal??
- (2.) Categories of Hackers(As per Knowledge)
- (3.) Categories of Hackers(As per Working)
- (4.) How to Secure yourself from Attackers
- (5.) How to Stop Attackers
- (6.) Indian Cyber Law

[2.] E-Mails: Exploitation and Security

Forging an e-mail header to make it appear as if it came from somewhere or someone other than the actual source. The main protocol that is used when sending e-mail -- SMTP -- does not include a way to authenticate. There is an SMTP service extension (RFC 2554) that allows an SMTP client to negotiate a security level with a mail server. But if this precaution is not taken anyone with the know-how can connect to the server and use it to send spoofed messages by altering the header information.

ATS Learning Solutions

- (1.) What is an E-mail
- (2.) Working of E-mail
- (3.) Traveling of an E-Mail
- (4.) Email Servers
- (5.) E-mail Forgery and Spamming
- (6.) Security to Anonymous Mailing
- (7.) Attacks on E-Mail Password
- (8.) Securing the E-Mail Passwords
- (9.) Email Forensics

Typical email security products didn't. Phishing emails that link to infected websites cause many of today's information security breaches. Yet typical email security products use outdated methods from phishing's early days, when hackers attached viruses to emails. They can't catch blended email/web threats that can lead to malware infection. And they can't detect employee activities that can lead to data loss.



[3.] Operating System Hacking & Security

Hacking systems and planting and/or sending malicious content are the two most performed actions by hackers. As an ethical hacker, it will be your responsibility to test systems against hacking and to be prepared for the different types of malicious content that hackers will try to get into your network environment. This course examines password cracking methodologies and tools, privilege escalation, rootkits, steganography and backdoor types and tools, and different types of viruses and worms and their countermeasures.

1. Introduction to System Software's
2. Windows Security Components and Working
3. Introduction to Virtual Machines
4. Implementation of Virtualization
5. Windows
6. Linux
7. Attacks on Windows Login Password
8. Other Security Measures
9. Windows Inbuilt Flaws and Security Loopholes
10. Invading into Computer System
11. Optimizing Windows Computer System
12. Restrict Hackers into box

A technical background with a solid understanding of networks and networking concepts, such as IP, IP Routing, and LAN Switching, as well as Windows and/or UNIX/LINUX operating systems.

[4.] Malwares: Trojan, Viruses & Worms

Malware, short for malicious software, is software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It can appear in the form of code, scripts, active content, and other software. Malware is a general term used to refer to a variety of forms of hostile or intrusive software.

Named after the Trojan Horse of ancient Greek history, a Trojan is a network software application designed to remain hidden on an installed computer. Trojans generally serve malicious purposes and are therefore a form of Malware, like viruses.

1. What are malwares?
2. Trojan
3. Trojan Attack Methods
4. Some Well Known Trojans
5. Detection of Trojan
6. Viruses
7. Working and Functionality of Viruses
8. Development
9. Development of Folder lockers
10. Registry tweaks and Tricks
11. Developing Professional Security too
12. Detection and Manual Removal



A **computer virus** is a type of malware that, when executed, replicates by inserting copies of itself (possibly modified) into other computer programs, data files, or the boot sector of the hard drive. When this replication succeeds, the affected areas are then said to be "infected".

A **computer worm** is a standalone malware computer program that replicates itself in order to spread to other computers. Often, it uses a computer network to spread itself, relying on security failures on the target computer to access it. Unlike a computer virus, it does not need to attach itself to an existing program. Worms almost always cause at least some harm to the network, even if only by consuming bandwidth, whereas viruses almost always corrupt or modify files on a targeted computer.

[5.] Attacks Related to Network & Security (LAN/WLAN)

Network security consists of the provisions and policies adopted by a network administrator to prevent and monitor unauthorized access, misuse, modification, or denial of a computer network and network-accessible resources. Network security involves the authorization of access to data in a network, which is controlled by the network administrator. Users choose or are assigned an ID and password or other authenticating information that allows them access to information and programs within their authority.

1. Introduction to the LAN (Local Area Networks)
2. Back-Track: Penetration Tool
3. Secure Network Configuration

Security management for networks is different for all kinds of situations. A home or small office may only require basic security, while large businesses may require high-maintenance and advanced software and hardware to prevent malicious attacks from hacking and spamming.

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[6.] Web Server Attacks & Security

The HTTP (or HTTPS) protocol is the standard that makes it possible to transfer web pages via a request and response system. Mainly used to transfer static web pages, the web has quickly become an interactive tool making it possible to provide on-line services. The term "web application" refers to any application whose interface can be accessed on the web from a simple browser. Now the basis for a certain number of technologies (SOAP, Javascript, XML-RPC, etc.), the HTTP protocol plays an undeniable strategic role in information system security.

1. Introduction to Web Application Security
2. Understanding Attack Vectors
3. Web Application Attacks
4. SQL Injection
5. Google Dorks - Using Google as an Expert
6. Cross Site Scripting: XSS
7. Directory Traversal Attacks
8. Putting breaks on Web Application attacks
9. Mozilla Firefox as a Hacking tool



10. Bypassing Proxy - Intermediate
11. Using Google as Proxy
12. Remote File Inclusion for Opening Blocked Websites
13. Creating your Own Proxy Server

Attacks on web applications are always harmful since they give the company a bad image. A successful attack can have any of the following consequences.

- Website defacement,
- Stolen information,
- Modification of data, and particularly modification of users' personal data
- Web server intrusion

[7.] *Software Reverse Engineering and Attacks on Demand*

Software Reverse Engineering (SRE) is the practice of analyzing a software system, either in whole or in part, to extract design and implementation information. A typical SRE scenario would involve a software module that has worked for years and carries several rules of a business in its lines of code. Unfortunately the source code of the application has been lost, what remains is "native" or "binary" code. Reverse engineering skills are also used to detect and neutralize viruses and malware, as well as to protect intellectual property. It became frighteningly apparent during the Y2K crisis that reverse engineering skills were not commonly held amongst programmers.

1. What is Reverse Engineering
2. Software - Definition
3. Disassembling the Software's
4. Software Cracking & Serial Key Phishing
5. Software Patching
6. Applying Application Security
7. Attacks on Demand

Since that time, much research has been undertaken to formalize just what types of activities fall into the category of reverse engineering so that these skills could be taught to computer programmers and testers. To help address the lack of software reverse engineering education, several peer-reviewed articles on software reverse engineering, re-engineering, reuse, maintenance, evolution, and security were gathered with the objective of developing relevant, practical exercises for instructional purposes. The research revealed that SRE is fairly well described and most of the related activities fall into one of two categories: software development-related and security-related.

for more details : <https://drive.google.com/filed/0B1zzBy9RRQT0MISkUwckhSVIIVDZCYkx3WGNFT3BuelpN/view?usp=sharing&resourcekey=0-QBmF6v2zQwLmsqC4MFAQK9>



Vivekanand Education Society's Institute of Technology

Approved by AICTE & Affiliated to University of Mumbai

2020-21

In the month of May 2020 we started with registration.

Total No. of Registration: 59

Subject	No. of Students
Java	2
Data Science and Data Analytics	25
Machine Learning	32

Online training was conducted 4th May 2020- 31st Aug 2020

Students details :

S. No.	FirstName	Technology Enrolled For	Semester	Department	EXAM STATUS
1	Bhairavi Sawantdesai	JAVA	6TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	#N/A
2	Soham Kamat	ML	3RD SEMESTER	COMPUTER SCIENCE	PASS
3	SHIKHAR NIRANJAN	ML	4TH SEMESTER	Computer Science	FAIL
4	Varun Vicharay	DS	4TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
5	Sadhvi Naresh Ganuwala	DS	3RD SEMESTER	COMPUTER SCIENCE	PASS
6	Riddhi Khole	DS	4TH SEMESTER	Computer Science	PASS



[Signature] 40
Dr. Anjali Yelke 49



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Yes 40
Dr. Anjali Yelke 50



7	Srishti Vazirani	DS	4TH SEMESTER	COMPUTER SCIENCE	PASS
8	Sakshée Sachin Sawant	DS	4TH SEMESTER	COMPUTER SCIENCE	PASS
9	Nidhi Rohra	DS	4TH SEMESTER	COMPUTER SCIENCE	PASS
10	Simran Watwani	DS	4TH SEMESTER	COMPUTER SCIENCE	PASS
11	Harshita Mishra	ML	4TH SEMESTER	Computer Science	PASS
12	Manasee parulekar	DS	3RD SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
13	MITALI JADHAW	DS	6TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	FAIL
14	Anisha Asis Patnalk	DS	6TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
15	Vaibhavsingh Rajput	DS	5TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
16	Bhakti Shashikant Parab	DS	6TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
17	Shikhar Raj	DS	4TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
18	Shubhangi Balasubramanian	DS	6TH SEMESTER	INSTRUMENTATION	PASS
19	Jayant mukundam	ML	4TH SEMESTER	Computer Science	PASS
20	Dimple Nachnani	ML	4TH SEMESTER	COMPUTER SCIENCE	#N/A
21	Payal Naresh Rathi	ML	4TH SEMESTER	Electronics & Telecommunication	PASS
22	Hitesh.G.Santani	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS



23	Simran Sunil Gurnani	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
24	Baldev Arjundas Sundarani	ML	4TH SEMESTER	Computer Science	PASS
25	Amit Vinod Joshi	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
26	Om S. Yerawar	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
27	Abhishek Waghmare	ML	4TH SEMESTER	Computer Science	PASS
28	Shubham Mishra	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
29	Yashkumar Jain	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
30	PARTHESH PAWAR	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
31	Manoj	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
32	SAACHI DUDANI	DS	4TH SEMESTER	ELECTRONICS & TELE COMMUNICATION	PASS
33	Krish Amesur	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
34	Mrinali Dole	DS	6TH SEMESTER	ELECTRONICS	#N/A
35	Kedar Harishchandra Kharde	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
36	Kunal Kotkar	ML	4TH SEMESTER	Computer Science	PASS
37	SANKET NARENDRA JANGALE	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
38	Shreyas Udupa	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS



39	Nikhil Gangaramani	DS	4TH SEMESTER	COMPUTER SCIENCE	PASS
40	Mrunal Ajay Solanki	ML	2ND SEMESTER	Information Technology / Information Science	#N/A
41	Devang Vinod Chandivade	ML	2ND SEMESTER	Information Technology / Information Science	#N/A
42	Shreyas Shamkant Kotkar	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
43	Nupur balkrishna parab	ML	4TH SEMESTER	MCA	PASS
44	Anmol Devnani	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
45	Tejas Vidyadhar Kothawade	DS	6TH SEMESTER	Electronics	PASS
46	Maitrayi Dandekar	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
47	Purva Saindane	DS	4TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	#N/A
48	SWARANGI JITENDRA DALI	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
49	Nameira shaikh	ML	6TH SEMESTER	Electronics	PASS
50	MANASI PATANKAR	DS	4TH SEMESTER	Electronics	PASS
51	Aarya Naik	DS	4TH SEMESTER	ELECTRONICS & TELE COMMUNICATION	PASS
52	Anisha Kaul	DS	8TH SEMESTER	COMPUTER SCIENCE	#N/A
53	Shreya Balasubramanian	DS	4TH SEMESTER	Electronics & Telecommunication	PASS
54	Kiran Gurbani	JAVA	4TH SEMESTER	MCA	PASS



55	Yusuf kulkarni	DS	4TH SEMESTER	ELECTRONICS & TELECOMMUNICATION	PASS
56	bhairavi	DS	4TH SEMESTER	Electronics	PASS
57	Chetan Naik	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS
58	Aniket Gupta	ML	4TH SEMESTER	INFORMATION TECHNOLOGY	PASS
59	Ayush Singh	ML	4TH SEMESTER	COMPUTER SCIENCE	PASS

for more details :

https://docs.google.com/spreadsheets/d/1-ZKtFK1Xcvd-tYU1O9_VYJBIM6k_Ou0/edit?usp=sharing&oid=113526138583551742549&rtipof=true&sd=true



Sample Certificates



Ref. No. ATS Infotech/Proj Trng/cert/Viv/00,50

Date: 31/7/2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr/Ms. **VINIT. P. MOTWANI** a student of **VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY, CHEMBUR** has successfully completed the project on **UNIT CONVERSION APP** during the period of **7/3/2019 12:00:00 AM to 7/30/2019 12:00:00 AM** under the guidance of our trainers with reference to partial fulfilment of the Industrial Training as per the requirements of his/her **BE** degree course under **MUMBAI UNIVERSITY**.

We wish him/her all the best for future endeavours.

Prakash M.

Authorized Signatory
(For ATS Infotech Pvt. Ltd.)

Workshops:- CloudWorkshop **ANDROID[®]** **Network Security Training** Digital Marketing



Ref. No. ATS Infotech/Proj/Templeet/Visim.53

Date: 31/7/2019

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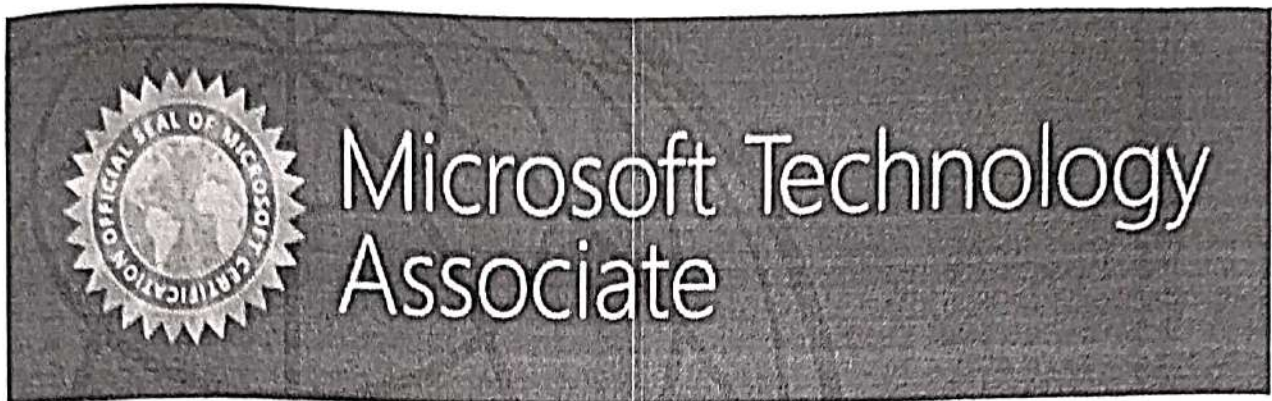
This is to certify that Mr/Ms. **VISHAL GUPTA** a student of **VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY, CHEMBUR** has successfully completed the project on **INTERACTIVE QUIZ APP** during the period of **7/3/2019 12:00:00 AM to 7/30/2019 12:00:00 AM** under the guidance of our trainers with reference to partial fulfilment of the Industrial Training as per the requirements of his/her **BE** degree course under **MUMBAI UNIVERSITY**.

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Prakash M.

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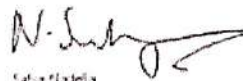


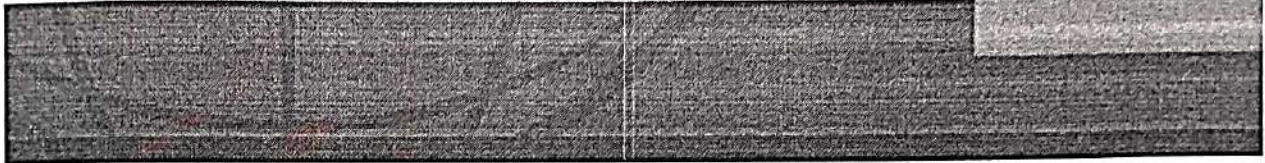
Anjali Ravi Amin

has successfully completed the requirements to be recognized as a Microsoft Technology Associate for

Introduction to Programming using JavaScript

Date of achievement: October 9, 2019
verify.certport.com: mN6Y-Dwhp


Satya Hazare
Chief Executive Officer





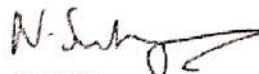
Microsoft Technology Associate

PATIL OMKAR DILIP

has successfully completed the requirements to be recognized as a Microsoft Technology Associate for

Introduction to Programming using Python

Date of achievement: October 10, 2019
verify.certport.com: 8GT5-uSHL


Satish Madole
Chief Executive Officer

Microsoft
Technology Associate

for more details :

<https://drive.google.com/drive/folders/1m0SWvc689fUXMvVJqjTAM7rM7UwxQY8e?usp=sharing>

Vivekanand Education Society's Institute of Technology

Report Poster Exhibition and Session on Project Domain and Topics Presentation

Speakers: Mr. Vikash Kumar and Mr. Sanket Parab , Blockology.

Target Audience : TE- INFT Students (72)

Blockology is an eLearning App offering Blockchain Authenticated Certification on **Blockchain, AI, ML, IoT, Networking and Ethical Hacking, TechnoIngress (Platter) and more.**

A poster exhibition on project ideas by third year INFT students was organised at the institute, by the Department of Information Technology on 20th Jan.2020.

The speakers Mr. Vikash Kumar and Mr. Sanket Parab reviewed the exhibition. Students gave detailed presentations of their ideas. The speakers were very delighted to see various ideas displayed .

A session was also conducted on project selection by the speakers. The session was well received by the students. The students got an insight of things to remember while project selection.



Asha Bharambe



Pictures:





Project Mentor
Prof. Sharmila Sengupta
(2019-2020)

**VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF
TECHNOLOGY**
Department of Computer Engineering



Certificate

This is to certify that *Shreyas Talole, Atharva Bapat, Aditya Shinde* of Third Year Computer Engineering studying under the University of Mumbai have satisfactorily completed the mini project on "*Extraction And Analysis of Information From Ophthalmic Image Report*" as a part of their coursework of Mini Project for Semester-VI under the guidance of their mentor *Prof. Sharmila Sengupta* in the year 2019-2020.

Date:

Project Guide:

S. Sengupta

Industry Certificate

Cere Labs
Know • Connect • Invent

30th January, 2020

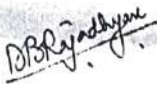
To
Dr. Nupur Giri
Head of the Department,
Computer Science,
VESIT,
Mumbai

Respected Sir/Madam,

With reference to the above mentioned subject, the following students from Vivekanand Education Society's Institute of Technology **Shreyas Talole, Atharva Bapat, and Aditya Shinde**, studying in Third Year Computer Engineering in class D12B, aspire to do a project titled "**Information Extraction from Ophthalmology Report using NLP and ML**" under Cere Labs for the academic year 2019-20. They are working under their project mentor **Prof. Sharmila Sengupta** and the guidance of their Head of Department **Dr. Nupur Giri**. Throughout the year these students would work under our practical guidance and adhere to the rules and regulations of their college.

Providing the best wishes and hoping for a good venture with them.

Yours Sincerely,



Devesh Rajadhyax
Founder and CEO



Cere Labs Pvt. Ltd.

Abstract

The aim of the paper is to correctly classify the test reports with respect to the tests done on the patient, and the diagnosis; to enable the doctor to efficiently access the records to annotate the report images for training a deep learning model that could identify the disease without any human involvement. To manually classify a huge number of reports is a tedious and time consuming task and would be preferably done by automation. To make use of advanced computer algorithms to produce benevolent results will be considered to be a valuable contribution. The task begins with extracting the text from the doctor's reports and classifying the information into various parts in accordance with the report itself. This text content is in the form of doctor's investigation and therefore it is required to convert it into structured format. This format is henceforth used to train a model that classifies the report automatically and notifies presence/absence of any disease. The model would then be able to correctly detect the presence of the disease and would make a record of the same in the statistical CSV file.

processing images & building a neural net
to identify diseases from images of eye
sonography.

V. E. S. Institute of Technology, Chembur, Mumbai

VESIT-Aditya Jyot Eye Innovation Centre Project

Academic Year: 2019 -2020

Project Collaboration: Aditya Jyot Eye Innovation Centre (Aditya Jyot Foundation for Twinkling Little eyes)

VESIT-Aditya Jyot Eye Innovation Centre is the result of a collaborative relationship between two diverse fields namely medicine and engineering, for the purpose of medical research and technological innovation. In VESIT-Aditya Jyot Eye Innovation Centre, a platform is provided for development of student-based research projects on various fields of ophthalmology, to provide better and superior health care facilities which are technology driven, for the poor and needy.

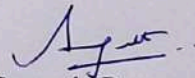
Project Title: Detection of Diabetic Retinopathy using fundus images

Name of the Faculty: Mrs. Sangeetha Prasanna Ram, Mrs. Amudha Senthilkumar

Name of the Students: Sonali Gaitonde, Mradul Mundra, Anurag Sarang, Mayuresh Shelar

Description of the Project:

Diabetes Mellitus is a condition in which a human body is unable to produce enough insulin to regulate metabolism of sugar for storage in human cells. This results in high sugar levels in blood that may progressively damage the blood vessels in the retina and can result in vision impairment leading to diabetic Retinopathy. Early detection of Diabetic Retinopathy is critical for timely treatment to prevent loss of vision. The project propose a solution to address the problem of timely detection of Diabetic Retinopathy using a model developed using Artificial Intelligence. This model uses machine learning to identify Diabetic Retinopathy in the retina fundus images and classify them into various stages of progress of disease as Normal, Moderate and Proliferative Diabetic Retinopathy (PDR), with main focus being the Binary Classification, which will help doctors in the treatment of patients. Classification of the images into the different stages of eye disease was done using Convolutional Neural Networks with Transferred Learning. We are in the process of preparing research paper based on the project work.



(Mrs. Sangeetha Prasanna Ram)

**VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF
TECHNOLOGY**
Department of Computer Engineering



Certificate

This is to certify that *Piyusha Bauskar, Pallavi Brahmaurkar, Omkar Mororgiri, Gauri Sagane* of Fourth Year Computer Engineering studying under the University of Mumbai have satisfactorily completed the project on "*Detection of Eye Tumor And Its Response To Treatment*" as a part of their coursework of PROJECT-II for Semester-VIII under the guidance of their mentor *Prof. Priya R L* in the year 2019-2020 .

This project report entitled *Detection of Eye Tumor And Its Response To Treatment* by *Piyusha Bauskar, Pallavi Brahmaurkar, Omkar Mororgiri, Gauri Sagane* is approved for the degree of BE Computer Engineering

Programme Outcomes	Grade
PO1,PO2,PO3,PO4,PO5,PO6,PO7, PO8, PO9, PO10, PO11, PO12 PSO1, PSO2	

Date: September, 2020

Project Guide : Prof. Priya R.L.

Priya R.L.



Vivekanand Education Society's Institute of Technology

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

Dr. (Mrs.) J. M. Nair
M. Tech., Ph.D. (IT-B)
Principal

Ref. No.: VESIT/PRC/1328/2019-2020

MEMORANDUM OF UNDERSTANDING

Date: 30/10/2019

THIS MEMORANDUM OF UNDERSTANDING is made on this day of 1st November, year 2019, by and between Vivekanand Education Society's Institute of Technology (V.E.S.I.T), Department of Computer Engineering, Chembur and PBMA's H. V. Desai Eye Hospital having their place of work at Pune.

RECITALS:

1. The Department of Computer Engineering, V.E.S.I.T is desirous to conduct research in the area of Health Care and execute a project titled "Detection of Eye Tumor and its Response to Treatment".
2. The purpose of this study is to develop a system for efficient calculation of Retinoblastoma.
3. The outcome measures of the project shall be conducted through clinical tests.
4. STUDY RATIONALE: To detect the presence of Retinoblastoma in fundus images of eyes and to provide an efficient report stating the percent reduction of the tumor at each stage during the treatment.

NOW IT IS AGREED BETWEEN THE PARTIES AS FOLLOWS:

1. PURPOSE AND OBJECTIVE OF THE RESEARCH/PROJECT

- 1.1 To examine the feasibility/develop and validate the system for detection of Retinoblastoma and its response to treatment.

Primary objective: To detect Retinoblastoma in fundus images of eyes and to monitor the improvements occurred at each stage of the treatment.

Secondary objective: To develop a tool to gather data so as to determine whether a patient has improvement after treatment to eye tumor patients.

2. ARRANGEMENT

- 2.1.1 It is agreed and understood that Department of Computer, V.E.S.I.T and Department of Oculoplasty, PBMA's H. V. Desai Eye Hospital jointly shall do Data Collection, Data modeling and Analysis and Report Writing.
- 2.1.2 It is agreed and understood that V.E.S.I.T, Department of Computer Engineering and PBMA's H. V. Desai Eye Hospital, Department of Oculoplasty shall jointly do Protocol Preparation, Overall Coordination and Expert Advice.
- 2.1.3 It is agreed and understood that the total duration of the project is from the day of the signing of the MOU till April 2020.
- 2.1.4 It is agreed that the parties associate exclusively for the purpose of the project within the region specified.
- 2.1.5 Each party agrees and undertakes that they will not enter into or any way seek award of any contract for the project or any part thereof other than in accordance with MOU without the written consent of the other party hereto.

21.6 The parties hereto Department of Oculoplasty, PBMA's H. V. Desai Eye Hospital and Department of Computer Engineering V.E.S.I.T, shall have no objection to the use of the data collected under the project for research purposes as is required under the project.

21.7 The parties have no objection to the results and the report of the project work to be submitted as partial fulfilment of Bachelor of Engineering for the students working in this project under Mumbai University. This report should acknowledge the collaboration of the two parties.

3. RESPONSIBILITIES

3.1 The Department of Oculoplasty, PBMA's H. V. Desai Eye Hospital will act as the Study Department for the feasibility of the study and will control and manage the day to day activities necessary for the study.

3.2 PBMA's H. V. Desai Eye Hospital, shall also recruit the participants of the study and the persons responsible for the same are Dr. Kuldeep Dole, Dr. Sonal Chaugule and Mrs. Priya R. L, Assistant Professor, Department of Computer Engineering, V.E.S.I.T.

3.3 The person responsible for recruiting will also be responsible for taking informed consent.

3.4 The persons responsible in Department of Computer Engineering, V.E.S.I.T. and Department of Oculoplasty, PBMA's H. V. Desai Eye Hospital are Mrs. Priya R. L, BE students(4) and Dr. Kuldeep Dole and Dr. Sonal Chaugule respectively.

4. CONFIDENTIALITY

4.1.1 The parties and the persons responsible and working on the project shall keep confidential all information relating to the project that is confidential in nature, including the participants details, test reports etc. Confidentiality of the participants (patients) shall be maintained in all publications of the study too.

4.1.2 No confidential information shall be revealed to any third person without the express written consent of the party or participant whose information is confidential in nature.

4.1.3 Use of confidential information for any purpose other than the said purpose of the project shall not be allowed unless all parties agree and give consent for the same.

4.1.4 No public announcement, press release, public statement etc. shall be made about the study project till its final completion and without the consent for the same.

4.1.5 Parties shall conform to the guidelines for research, good clinical practice and medical ethics and shall not breach the same.

5. CONSIDERATION

5.1.1 There is no financial consideration to be paid by either of the parties to this MOU.

6. OWNERSHIP OR CREDIT OF THE STUDY RESEARCH/PROJECT

6.1.1 It is agreed that the ownership and credit for the research project shall be shared by all the parties involved in the project handling execution and analysis of the same.

6.1.2 Ethical review of the research project shall be done and all rules and regulations shall be followed strictly by all parties.

7. The governing law shall be the law applicable in India for the time being in force. If there is a dispute or difference on the ownership or credentials of the project, or any other aspect of the project or as to the rights and the responsibilities and obligations of the parties hereto, the same shall be referred to the common arbitrator/ Ethics committee, as agreed upon by





Vivekanand Education Society's Institute of Technology

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

Dr. (Mrs.) J. M. Nair
M. Tech, Ph.D. (IIT-D)
Principal

Ref. No: VESIT/PRL/1325/2019 - 2020

Date: 30/10/2019

both parties, for resolving the dispute and the decision of said arbitrator shall be final and binding for all the parties. The agreement of arbitrator shall be governed under Indian Arbitration and conciliation, 1996 for the time being in force. The venue for such arbitration shall be Mumbai India.

8. Any notice under this MOU or change of persons in charge or responsible for projects shall be sent to other party in writing by either post, email, facsimile or delivered by hand. The notice to the party should be sent to the address mentioned in this MOU.
9. The MOU shall be terminated at the completion of project. In case for some reason it is stopped or terminated prior to completion by either party, reasons for the same would have to be given in writing and approval from the Ethics committee and any concerned authority for the same would have to be taken. Decision on the impact of such termination on the participants would also have to be assessed and appropriate compensation would have to be paid by the party terminating the project prior to its completion.
10. The entire MOU constitutes the final and concluded agreement between the parties. It replaces all other, if any, MOUs or agreements signed for the above said project, whether in oral or in writing.
11. The paper publications, participation in competitions and seminar or presentations should be ethically reviewed and all rules and regulations shall be followed strictly by all parties.
12. It is agreed that the ownership and credit for the prototype/product/patent hence developed shall be shared by both parties, equally.

The parties have set their hands to this MOU voluntarily on the day and year first mentioned herein.

Signed and executed by

(Signature of Dr. Madan Deshpande)
Principal Investigator
Col. Dr. Madan Deshpande
Chief Medical Director
PBMA's H. V. Desai Eye Hospital



(Signature of Mrs. Priya R. L.)
Principal Investigator
Mrs. Priya R. L.
Assistant Professor,
Dept. Of Computer Engineering
V.E.S Institute of Technology, Mumbai

Abstract

Retinoblastoma (Rb) is a rare form of cancer that rapidly develops from the immature cells of the retina, the light-detecting tissue of the eye. Retinoblastoma is caused by changes (mutations) in retinoblastoma 1 (RB1) gene in the retinoblasts. Those mutations cause retinoblasts to grow out of control and form a tumor called retinoblastoma. Early detection of leukocoria can improve the overall treatment duration. In general, to identify a retinoblastoma the doctor uses an ophthalmoscope that shines brightly through the pupil to examine the back of the eye and see the presence of white or yellowish white tumor lesions in the eye. Also, techniques like Red Reflex, Hirschberg Test, etc are used for diagnosis but during treatment cannot provide an estimate of changes in tumor size. Therefore, a system is needed to help the expert to diagnose retinoblastoma.

Thus, we propose an idea to develop an application that will detect the presence of Retinoblastoma in fundus images of eyes and also will be reporting the volumetric changes in the tumor at each stage during the treatment. The proposed system will take the fundus image of eyes of a patient as input which will be preprocessed using image processing techniques like resizing, scaling, contrast stretching, thresholding, etc. The processed images will then be fed to a neural network to train the model for detecting Retinoblastoma. Then, Segmentation techniques such as region growing and thresholding can be used to extract the tumor. After extracting the tumor, the number of pixels present in it can be calculated. Similarly, tumor presence in the next stages of treatment can be calculated. Then percent reduction can be calculated by comparing the current and previous pixel count of the tumor.

Report
On
L&T PGETs/GETs Hands-on Training
Prayag- Instrumentation and Control

Program Co-ordinator: Mrs. Nilima Warke

Training Instructors:

- 1) Mrs. Nilima Warke
- 2) Mrs. Kanchan Chavan
- 3) Mrs. Kadambari Sharma
- 4) Mrs. Amudha S
- 5) Mr. P.K.Godse

Participants: L&T Graduate Engineer Trainees (GETs) of Electronics/ Instrumentation /Electronics & Communication/ Computer/Information Technology/ Mechanical/Production/Civil Engineering

L&T Graduate Engineer Trainees (GETs) training was conducted by Instrumentation Department, V.E.S.I.T, Chembur from 18th July to 31st July, 2019 (10 days) for 229 GETs.

Main aim of this training was to provide hands-on on the module Instrumentation and Control Engineering to GETs of Electronics/ Instrumentation /Electronics & Communication/ Computer/Information Technology/ Mechanical/Production Engineering. During this training, the importance of safety, quality, productivity, cost, planning and organizing and creativity was delivered. Lab sessions on temperature, pressure measurement, pressure control loop, level control loop, control valves, current to pneumatic converters were explained and performed. At the end of the session, quiz was conducted based on the theory and lab sessions.

Nilima Warke
10/08/19
Program Co-ordinator
Mrs. Nilima Warke

P. P. Vaidya
H.O.D, Instrumentation
Dr. P.P.Vaidya



Report
On
L&T GETs Hands-on Training
Prayag- Instrumentation and Control

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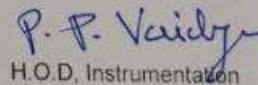
Participants: L&T Graduate Engineer Trainees (GETs) of Electronics/ Instrumentation /Electronics & Communication/ Computer/Information Technology/ Mechanical/Production/Civil Engineering

L&T Graduate Engineer Trainees (GETs) training was conducted by Instrumentation Department, V.E.S.I.T, Chembur from 9th Sept to 17th Sept 2019 (06 days) for 152 GETs.

Main aim of this training was to provide hands-on on the module Instrumentation and Control Engineering to GETs of Electronics/ Instrumentation /Electronics & Communication/ Computer/Information Technology/ Mechanical/Production Engineering. During this training, the importance of safety, quality, productivity, cost, planning and organizing and creativity was delivered. Lab sessions on temperature, pressure measurement, pressure control loop, level control loop, control valves, current to pneumatic converters were explained and performed. At the end of the session, quiz was conducted based on the theory and lab sessions.



Program Co-ordinator
Mrs. Nilima Warke



H.O.D, Instrumentation
Dr. P.P.Vaidya

JADHAVPUR UNIVERSITY ALUMINI TRUST
Late Tarun K. Basu Scholarship
(2019-20)

Date/ Venue	Chief Guests/ Dignitaries
Thursday 30 th Jan, 11.00 a.m. – 13.30 p.m., Auditorium	<p>Ret. CDR S. K. Jana</p> <ul style="list-style-type: none"> • Past President of the TRUST. • Post graduate in Physics Jadavpur University. • Electrical Engineering Degree Ranchi University • Joined The Indian Navy, Submarine Arm (Anti- submarine class of ships and warfare). • In-charge of INS Chakra Project in Visakhapatnam. <p>Mr Shyama Prasad Ray</p> <ul style="list-style-type: none"> • B. Sc (Hons) in Physics from Calcutta University, • B.Tech (Hons) in Instrumentation and Electronics Engg. From Jadavpur University in 1971. • Fellow Member of Institution of Engineers (India) <p>Mr. Ashok Adhikary</p> <ul style="list-style-type: none"> • Electrical Engineer, Jadavpur University <p>Mr. Ramani Iyer</p> <ul style="list-style-type: none"> • Alumni of Jadhavpur University • DAB committee Member (Dept. of EXTC, VESIT)

Co-ordinator of the Event	Mrs. Smita Jangale and Scholarship In-charges of all the Departments
Audience	All F. E. Students

Scholarship Winner:

Sr. no.	Name	Class
1	Vaswani Girish Pritam	CMPN / Second Year / IV

The Scholarship Event started with saraswati vandana, lighting the lamp.

It was followed with welcome speech and introduction for all the dignitaries by Ms. Sukanya Roychowdhury, the anchor of the event.

Principal Dr. (Mrs.) J.M. Nair and Scholarship In-charge, Mrs. Smita Jangale felicitated all the guests on the dais with Tulsi sapling as a token of appreciation. Each guests gave their introduction, views and their vision for the Jadhavpur University Alumini Scholarship and the Trust.

This year is the centenary year of Jadhavpur University and they are conducting various projects and programs, throughout the year, all over the country and also abroad, to spread goodwill to all concerned,

SJ
(Smita Jangale)



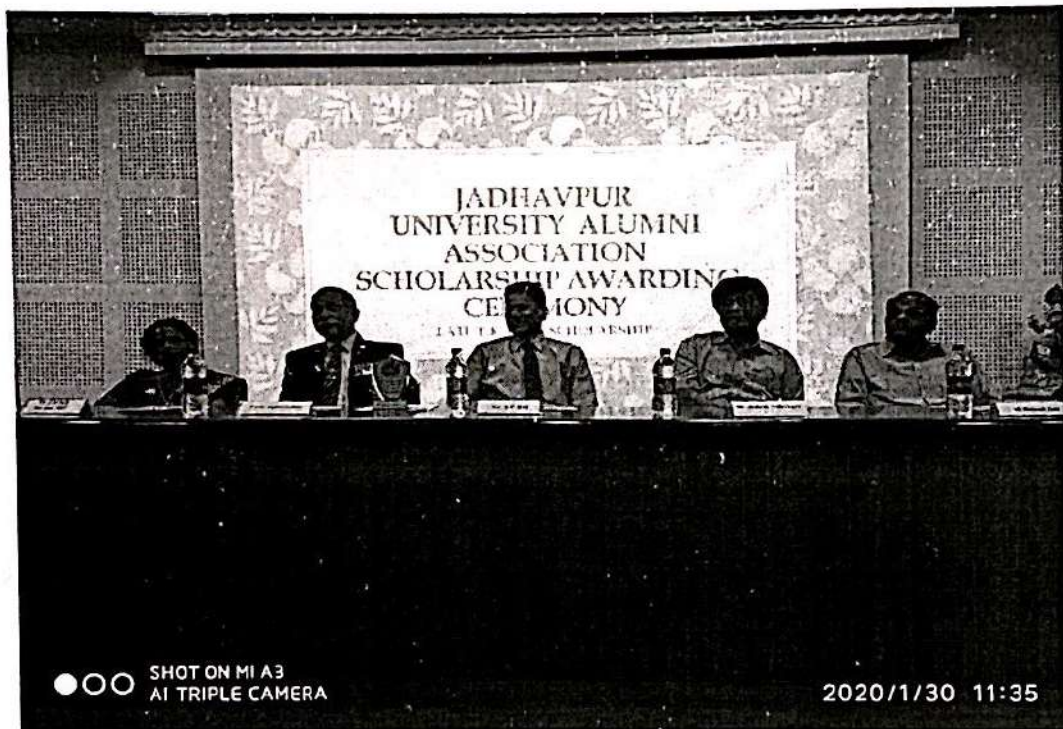


specially targeting the youth of this country in the line of Swami Vivekananda's preaching. The chief guest Ret. Cominader Mr. S.K. Jana gave a motivating seminar to create awareness about The Indian Armed Forces among the youth and open up a new horizon of opportunities for them, especially for the women of the country for a better tomorrow.

After this, Mr. Vaswani Girish Pritam of S.E. Department of Computer Engineering, was awarded with the Late Tarun K. Basu Scholarship. All F.E. students were invited for the event so that they can get inspired and work harder for their brighter future.

The event was concluded with the thank you speech by the anchor of the event.

Photographs:



The chief
Indian



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AI TRIPLE CAMERA

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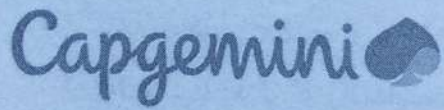




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AI TRIPLE CAMERA

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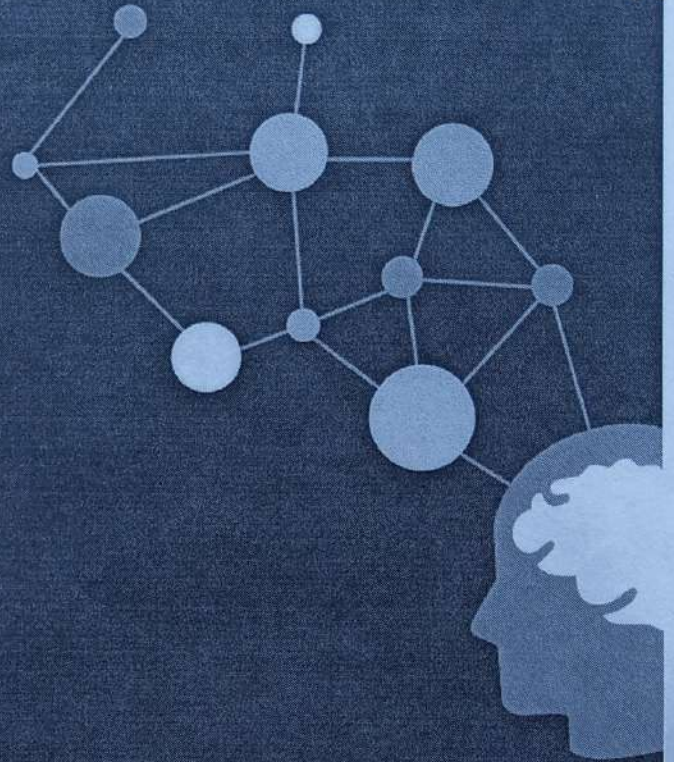




Artificial Intelligence Day

Join our experts to celebrate the power of technology and learn how the art of AI is inspiring our lives more than ever.

August 10, 2019
Vivekanand Education Society's
Institute of Technology, Mumbai



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About AI Day '19

Capgemini presented **AI Day 2019** at Vivekanand Education Society's Institute of Technology, Chembur, Mumbai. The event brought together researchers from Capgemini, who are involved in the fast-developing field of AI and students at VESIT. The event promoted matchmaking, information sharing and cross-border collaboration. The event was scheduled for 3 days starting with the **Photo Quest - #LoveYourCareer Challenge** which commenced on 8th Aug 2019 @ 9:00 am and ended on 9th Aug 2019, 11:59 pm. Followed by the official Inauguration of AI Day on 10th Aug 2019 with an Expert Talk on "**AI and Innovation**" @ 11:00 am and Workshop on "**AI & ML with Google Colab**" from 10:00 am to 5:00pm .

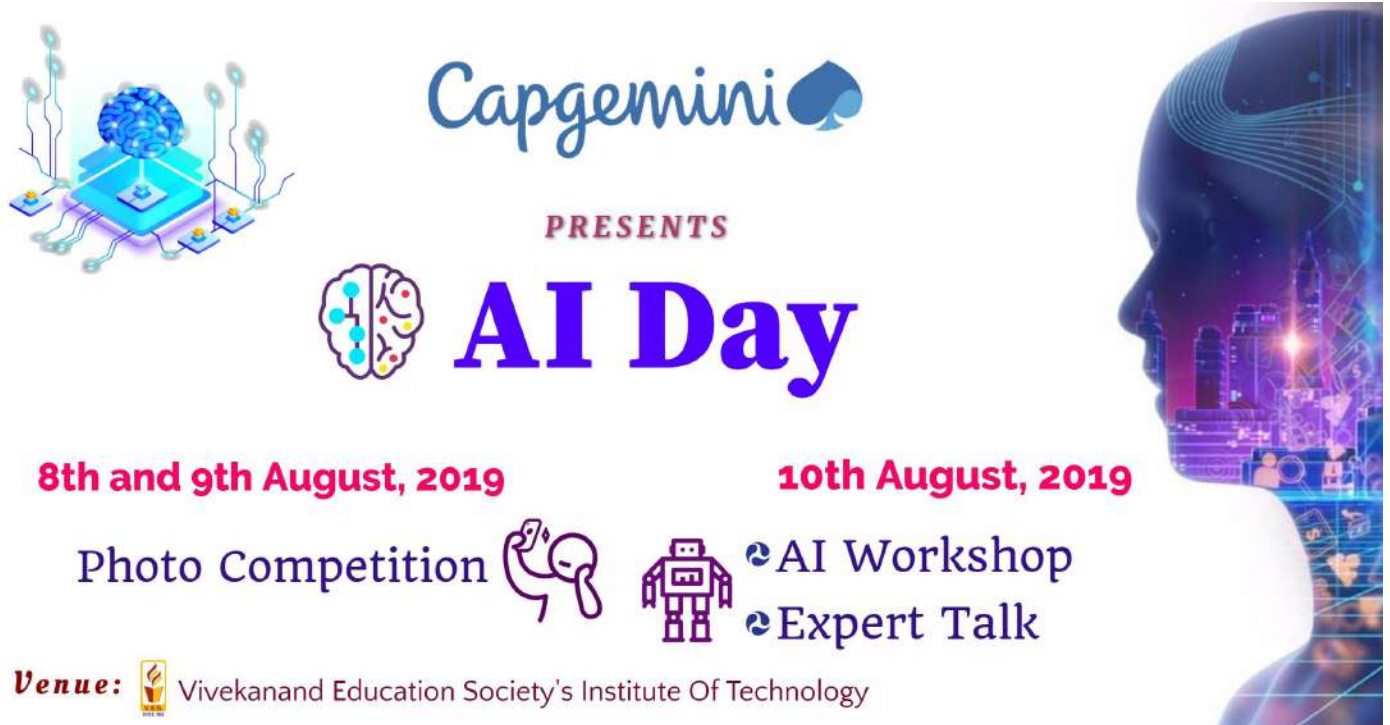
About Capgemini



Capgemini SE is a French multinational corporation that provides consulting, technology, professional, and outsourcing services. It is headquartered in Paris, France. Capgemini has over 200,000 employees in over 40 countries, of whom nearly 100,000 are in India.

Capgemini was founded by Serge Kampf in 1967 as an enterprise management and data processing company. The company was inaugurated as the *Société pour la Gestion de l'Entreprise et le Traitement de l'Information* (Sogeti). In 1974 Sogeti acquired Gemini Computers Systems, a US company based in New York. In 1975, having made two major acquisitions of CAP and Gemini Computer Systems, and following resolution of a dispute with the similarly-named CAP UK over the international use of the name 'CAP', Sogeti renamed itself as CAP Gemini Sogeti.


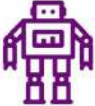
Cap Gemini Sogeti launched US operations in 1981, following the acquisition of Milwaukee-based DASD Corporation, specializing in data conversion and employing 500 people in 20 branches throughout the US. Following this acquisition, The U.S. Operation was known as CapGemini DASD. In 1996, the name was simplified to Cap Gemini with a new group logo. All operating companies worldwide were re-branded to operate as CapGemini. Ernst & Young Consulting was acquired by CapGemini in 2000. It simultaneously integrated Gemini Consulting to form Cap Gemini Ernst & Young.


Glimpses of AI Day'19





PRESENTS


8th and 9th August, 2019
10th August, 2019

Photo Competition 
 AI Workshop

 Expert Talk

Venue:  Vivekanand Education Society's Institute Of Technology

AI Day'19 Schedule

Day 1 & 2 : 8th & 9th Aug 2019 @ VESIT Amphitheatre

Date	Time	:	Activity
8th Aug 2019	9:00 am	:	Commencement of AI Day'19 Photo Booth
9th Aug 2019	11:59 pm	:	End of AI Day'19 Photo Booth

Day 3 : 10th Aug 2019

Time	:	Activity
10:00 am	:	Commencement of AI and ML Workshop @ B42, 4th Floor - Ms. Sangamitra Mitra, Program Manager @ Capgemini.
11:00 am	:	Inauguration of AI Day @ VESIT Auditorium
	:	Saraswati Vandana & Lighting the Lamp
11 : 15 am	:	Expert Talk - “AI and Innovation” - Mr. Subhajit Sarkar, Senior Manager @ Capgemini.
12:45 pm		Prize Distribution - “Photo Competition”
12:55 pm	:	Vote of Thanks
1:00 pm	:	Lunch Break
5:00 pm	:	End of AI and ML Workshop @ B42, 4th Floor - Ms. Sangamitra Mitra, Program Manager @ Capgemini.

#LoveYourCareer Challenge

As a part of AI Day 2019, **Capgemini** has organized a **Photo Quest - #LoveYourCareer Challenge @ VESIT on 8th and 9th August 2019**. This event was conducted @ **VESIT Amphitheatre** on the 2nd floor. The company has shared the terms and conditions for participating in the Contest with students well in advance. The terms and conditions were are follows:



Scan the QR Code to watch what our employees have to say about loving their career!

I my career

Freeze your moment with #LoveYourCareer Challenge

How to Participate

- **Click a Picture** with your favorite placards/cut out frames.
- **Upload the Picture on social media** with hashtag **#LoveYourCareer**
- **Win Exciting Prizes!** Top 3 lucky winners will win exclusive Capgemini branded goodies.

Terms and Conditions

- Contest starts on **August 8, 2019** at **9:00 AM** and ends on **August 9, 2019** at **11:59 PM**.
- There is no limit to the number of posts one can do.
- Only posts with **#LoveYourCareer** will be considered as a part of the contest.
- The message on the placards/cut out frames should be clearly visible.
- Winners will be chosen via lucky draws and announced on **Capgemini Artificial Intelligence Day, August 10, 2019** and prizes will be distributed in the campus.

Love your career. Ace your career.

www.capgemini.com/in-en/careers

The contest commenced at **9:00 am on 8th August 2019** and ended @ **11:59 pm on 9th August 2019**. Based on the entries, winners were offered exciting goodies by Capgemini. Students participated in the contest very enthusiastically and uploaded the pics on their social media platforms with **#LoveYourCareer**. Even **faculties @ VESIT** participated in the event.



Faculties @ VESIT enjoying the AI Day'19 - Photo Quest



About AI Day '19



Capgemini presented AI Day 2019 at Vivekanand Education Society's Institute of Technology, Chembur, Mumbai. The event brought together researchers from Capgemini, who are involved in the fast-developing field of AI and students at VESIT. The event promoted matchmaking, information sharing and cross-border collaboration.

The event was scheduled for 3 days starting with the **Photo Quest - #LoveYourCareer Challenge** which commenced on 8th Aug 2019 @ 9:00 am and ended on 9th Aug 2019, 11:59 pm. Followed by the official Inauguration of AI Day on 10th Aug 2019 with an Expert Talk on “AI and Innovation” @ 11:00 am and Workshop on “AI & ML with Google Colab” from 10:00 am to 5:00pm .

Students @ VESIT enjoying the AI Day'19 - Photo Quest





On the 10th August, **Mr. Subhajit Sarkar, Senior Manager @Capgemini** announced the winners of the **Photo Quest -**



#LoveYourCareer Challenge at VESIT.

Ms. Jaspreet Kaur - MCA Second Year Student



Mr. Naren Khatwani - Third Year Computer Engineering Student



Ms. Pooja Gupta - MCA First Year Student



Goodies given by Capgemini to the Winners of AI Day'19 : #LoveYourCareer Challenge

Expert Talk - “AI and Innovation”

AI Day 2019 was officially inaugurated on 10th August 2019 @ 11:00 am in the VESIT Auditorium by lighting the lamp and seeking the blessing from Goddess Saraswati.



Mr. Subhajit Sarkar (Capgemini) with Mr. Vijay Talreja (Co-founder of Adapty & Managing Trustee of VESIT) and dignitaries inaugurating AI Day 2019

The guests from Capgemini, Mr. Subhajit Sarkar and Mrs. Rashmi Bapat were warmly welcomed by our beloved Principal, Dr. (Mrs) J. M.Nair by presenting tulsi saplings. Students from all engineering branches were present for the Inaugural function followed by Expert Talk @ VESIT Auditorium and Library.



Dr. (Mrs) J. M.Nair by presenting tulsi sapling to **Mr. Subhajt Sarkar (Capgemini)**



Dr. (Mrs) J. M.Nair by presenting tulsi sapling to **Mrs. Rashmi Bapat (Capgemini)**

After the inaugural function, **Mr. Subhajit Sarkar** delivered the Expert Talk on “**AI and Innovation**”. This session was simultaneously projected live @ VESIT Library, 1st Floor.



Mr. Subhajit Sarkar, Senior Manager @Capgemini



Audience @ VESIT Auditorium



Audience @ VESIT Library





Student asking queries to Mr. Sarkar during the Session

After the session, Vice Principal **Dr. (Mrs) M. Vijayalakshmi** felicitated the guests from Capgemini, **Mr. Subhajit Sakar** and **Mrs. Rashmi Bapat** with a memento.



Dr. (Mrs) M. Vijayalakshmi felicitating Mr. Subhajit Sakar (Capgemini) with a memento



Dr. (Mrs) M. Vijayalakshmi felicitating Mrs. Rashmi Bapat (Capgemini) with a memento

AI & ML Workshop on Google Colab

On AI Day 2019 (10th August 2019) Capgemini has also arranged “AI & ML Workshop on Google Colab” for 60 students from VESIT. The hands-on session on AI & ML was conducted by **Mrs. Sanghamitra Mitra, (Program Manager, Capgemini)** in Room - B42 on the 4th Floor. Students were shortlisted based on an Online Quiz. The workshop officially started @ 10:00 am by welcoming **Mrs. Sanghamitra Mitra** with a Tulsi Sampling by **Dr. (Mrs) Shalu Chopra**, Head of IT Department. Students were very enthusiastic to learn and also responded well to her questions.



Mrs. Sanghamitra Mitra, (Program Manager, Capgemini) with the tulsi sapling



Mrs. Sanghamitra Mitra during the “AI & ML Workshop on Google Colab”



Students @“AI & ML Workshop on Google Colab”



Students @ Workshop Q & A Session



The workshop session ended @ 5pm by felicitating **Mrs. Sanghamitra Mitra** by handing over a memento.



Mrs. Sanghamitra Mitra, (Capgemini) felicitated with a memento by Mrs. Lifna C S

Social Media Support

1	LeadingIndia.ai Twitter	:	https://twitter.com/leadingindiaai
2	VESIT Education Website	:	https://ves.ac.in/vesit/
3	VESIT Education - Twitter	:	https://twitter.com/vesitedu
4	VESIT Facebook	:	https://www.facebook.com/vesitedu/
5	VESIT Photocircle	:	https://www.facebook.com/vesitphotocircle/
6	VESIT Education Instagram	:	https://www.instagram.com/vesitedu/
7	Photos Drive Link	:	https://drive.google.com/drive/folders/10Iw0a1qWBumHd-eL-T5PlegwsQ3tSDRVn?usp=sharing

Capgemini Branding Line Items as per MoU

1. Capgemini Welcome Gate



Capgemini Welcome Gate for AI Day'19 @ VESIT College Entrance

2. Scrolls



Capgemini Scrolls (02), @ VESIT on AI Day'19 (Ground Floor)

3. Banners



Capgemini Banner - 1, placed near Reception Counter @ VESIT (Ground Floor)



Capgemini Banner - 2, placed @ VESIT Auditorium (Ground Floor)



Capgemini Banner - 3, placed outside @ VESIT Library (First Floor)



**Capgemini Banner - 4, placed in B42 during AI & ML Workshop
@ VESIT (Fourth Floor)**

4. Standees



Capgemini Standee - 1, placed inside VESIT Auditorium (Ground Floor)



Capgemini Standee - 2, placed inside VESIT Library (First Floor)



Capgemini Standee - 3, placed opposite VESIT Library near Lift (First Floor)



Capgemini Standee - 4, placed @ VESIT Reception (Ground Floor)



Capgemini Standee - 5, placed near Board Room 208 (Second Floor)



Capgemini Standee - 6, placed in B42 during AI & ML Workshop (Fourth Floor)



Capgemini Standee - 7, placed outside VESIT Auditorium (Ground Floor)



Capgemini Standee - 8, placed opposite VESIT Reception (Ground Floor)



ATS Microsoft Exam Report

Contents: Training details, exam dates and results


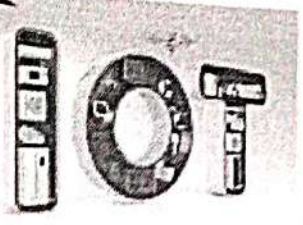
AY:2019-2020



Anjali Yedle




Syllabus
Syllabus IOT :






New Course Content for 3-Day free Workshop on IOT

1. **Understanding and introduction to Raspberry Pi (11hrs)**
 - What is SOC?
 - Versions of Raspberry Pi & Their Difference
 - Raspberry Pi 4
 - Basics of Electronics
 - Hardware Description
 - Pin Configuration
2. **OS Installation on SD Card (30Mins)**
 - Downloading Image
 - Study Various Operating Systems Available
 - Making SD Card: Formatting and Partition
 - Raspberry Pi SD Installer
3. **OS Configuration (30Mins)**
 - Booting into Desktop
 - GUI Version
 - C/C++ Desktop
 - Changing Time zone
4. **Other Options**
 - Rasp-Config
 - Test
4. **Network Setup (30Mins)**
 - Setting Up Using GUI
 - Setting Up Using Command Line
 - Finding Pi's IP Address
 - Connecting with Wi-Fi/ LAN/ Data card
5. **GPIO (1hrs)**
 - Study GPIO Pins
 - Libraries Using GPIO
 - Configuring GPIO Pins
6. **Running SSH (30Mins)**
 - Enabling SSH
 - Logging in using PuTTY
 - Run Basic Commands
 - Use LAMP
7. **Linux (11hrs)**
 - Understanding Linux
 - File Structure
 - Linux Commands
 - Permissions
8. **Using Python (8hrs) with raspberry Pi 4**
 - Understanding Python
 - Interpreted Languages
 - Variables, Keywords, Operators and Expressions
 - Data Types in Python
 - Flow Control
 - Conditional Statement
 - Loops
 - Importing Libraries
 - Functions
 - Classes
9. **New addition with Microsoft certification on Python: Using Python for web app for connecting with IOT devices. (in addition to the above topics)**
 - Document and structure code



ATS Learning Solutions








OpenWith ▾

- Perform troubleshooting and error handling
- Perform operations using modules and tools
- Introduction to web frames works
- Flask
- Connecting with Think speak (data visualization)

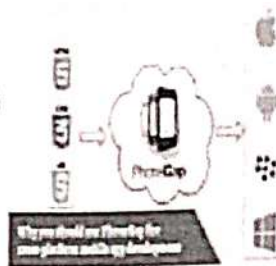
AIS Learning Solutions



10. Working with Different sensors.

11. Project using raspberry Pi 3 and different sensors (mini)

<https://drive.google.com/file/d/0B1zrzByr9RRQTUtQa1pwOVdCTkpIV2E1a1dhUThvVDhScVhn/view?usp=sharing&resourcekey=0-wzmyCn6cnWRXXpk4OhKtBg>



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Syllabus Security :

ATS Network Security and Ethical Hacking

[1.] Hacking Psychology

The next section will explain the purpose of ethical hacking and exactly what ethical hackers do. As mentioned earlier, ethical hackers must always act in a professional manner to differentiate themselves from malicious hackers. Gaining the trust of the client and taking all precautions to do no harm to their systems during a pen test are critical to being a professional.

- (1.) Concept of Ethical Hacking: Legal or Illegal??
- (2.) Categories of Hackers(As per Knowledge)
- (3.) Categories of Hackers(As per Working)
- (4.) How to Secure yourself from Attackers
- (5.) How to Stop Attackers
- (6.) Indian Cyber Law

[2.] E-Mails: Exploitation and Security

Forging an e-mail header to make it appear as if it came from somewhere or someone other than the actual source. The main protocol that is used when sending e-mail -- SMTP -- does not include a way to authenticate. There is an SMTP service extension (RFC 2554) that allows an SMTP client to negotiate a security level with a mail server. But if this precaution is not taken anyone with the know-how can connect to the server and use it to send spoofed messages by altering the header information.

ATS Learning Solutions

- (1.) What is an E-mail
- (2.) Working of E-mail
- (3.) Traveling of an E-Mail
- (4.) Email Servers
- (5.) E-mail Forgery and Spamming
- (6.) Security to Anonymous Mailing
- (7.) Attacks on E-Mail Password
- (8.) Securing the E-Mail Passwords
- (9.) Email Forensics

Typical email security products didn't. Phishing emails that link to infected websites cause many of today's information security breaches. Yet typical email security products use outdated methods from phishing's early days, when hackers attached viruses to emails. They can't catch blended email/web threats that can lead to malware infection. And they can't detect employee activities that can lead to data loss.



[3.] Operating System Hacking & Security

Hacking systems and planting and or sending malicious content are the two most performed actions by hackers. As an ethical hacker, it will be your responsibility to test systems against hacking and to be prepared for the different types of malicious content that hackers will try to get into your network environment. This course examines password cracking methodologies and tools, privilege escalation, rootkits, steganography and backdoor types and tools, and different types of viruses and worms and their countermeasures.

1. Introduction to System Software's
2. Windows Security Components and Working
3. Introduction to Virtual Machines
4. Implementation of Virtualization
5. Windows
6. Linux
7. Attacks on Windows Login Password
8. Other Security Measures
9. Windows Inbuilt Flaws and Security Loopholes
10. Invading into Computer System
11. Optimizing Windows Computer System
12. Restrict Hackers into box

A technical background with a solid understanding of networks and networking concepts, such as IP, IP Routing, and LAN Switching, as well as Windows and/or UNIX/LINUX operating systems.

[4.] Malwares: Trojan, Viruses & Worms

Malware, short for malicious software, is software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It can appear in the form of code, scripts, active content, and other software. Malware is a general term used to refer to a variety of forms of hostile or intrusive software.

Named after the Trojan Horse of ancient Greek history, a Trojan is a network software application designed to remain hidden on an installed computer. Trojans generally serve malicious purposes and are therefore a form of Malware, like viruses.

1. What are malwares?
2. Trojan
3. Trojan Attack Methods
4. Some Well Known Trojans
5. Detection of Trojan
6. Viruses
7. Working and Functionality of Viruses
8. Development
9. Development of Folder lockers
10. Registry tweaks and Tricks
11. Developing Professional Security tool
12. Detection and Manual Removal



A **computer virus** is a type of malware that, when executed, replicates by inserting copies of itself (possibly modified) into other computer programs, data files, or the boot sector of the hard drive. When this replication succeeds, the affected areas are then said to be "infected".

A **computer worm** is a standalone malware computer program that replicates itself in order to spread to other computers. Often it uses a computer network to spread itself, relying on security failures on the target computer to access it. Unlike a computer virus, it does not need to attach itself to an existing program. Worms almost always cause at least some harm to the network, even if only by consuming bandwidth, whereas viruses almost always corrupt or modify files on a targeted computer.

[5.] Attacks Related to Network & Security (LAN/WLAN)

Network security consists of the provisions and policies adopted by a network administrator to prevent and monitor unauthorized access, misuse, modification, or denial of a computer network and network-accessible resources. Network security involves the authorization of access to data in a network, which is controlled by the network administrator. Users choose or are assigned an ID and password or other authenticating information that allows them access to information and programs within their authority.

1. Introduction to the LAN (Local Area Networks)
2. Back-Track: Penetration Tool
3. Secure Network Configuration

Security management for networks is different for all kinds of situations. A home or small office may only require basic security, while large businesses may require high-maintenance and advanced software and hardware to prevent malicious attacks from hacking and spamming.

ATS—Learning Solutions

[6.] Web Server Attacks & Security

The HTTP (or HTTPS) protocol is the standard that makes it possible to transfer web pages via a request and response system. Mainly used to transfer static web pages, the web has quickly become an interactive tool making it possible to provide on-line services. The term "web application" refers to any application whose interface can be accessed on the web from a simple browser. Now the basis for a certain number of technologies (SOAP, Javascript, XML-RPC, etc.), the HTTP protocol plays an undeniable strategic role in information system security.

1. Introduction to Web Application Security
2. Understanding Attack Vectors
3. Web Application Attacks
4. SQL Injection
5. Google Dorks – Using Google as an Expert
6. Cross Site Scripting: XSS
7. Directory Traversal Attacks
8. Putting breaks on Web Application attacks
9. Mozilla Firefox as a Hacking tool



10. Bypassing Proxy - Intermediate
11. Using Google as Proxy
12. Remote File Inclusion for Opening Blocked Websites
13. Creating your Own Proxy Server

Attacks on web applications are always harmful since they give the company a bad image. A successful attack can have any of the following consequences.

- Website defacement,
- Stolen information,
- Modification of data, and particularly modification of users' personal data
- Web server intrusion

[7.] *Software Reverse Engineering and Attacks on Demand*

Software Reverse Engineering (SRE) is the practice of analyzing a software system, either in whole or in part, to extract design and implementation information. A typical SRE scenario would involve a software module that has worked for years and carries several rules of a business in its lines of code. Unfortunately the source code of the application has been lost, what remains is "native" or "binary" code. Reverse engineering skills are also used to detect and neutralize viruses and malware, as well as to protect intellectual property. It became frighteningly apparent during the Y2K crisis that reverse engineering skills were not commonly held amongst programmers.

1. What is Reverse Engineering
2. Software - Definition
3. Disassembling the Software's
4. Software Cracking & Serial Key Phishing
5. Software Patching
6. Applying Application Security
7. Attacks on Demand

Since that time, much research has been undertaken to formalize just what types of activities fall into the category of reverse engineering so that these skills could be taught to computer programmers and testers. To help address the lack of software reverse engineering education, several peer-reviewed articles on software reverse engineering, re-engineering, reuse, maintenance, evolution, and security were gathered with the objective of developing relevant, practical exercises for instructional purposes. The research revealed that SRE is fairly well described and most of the related activities fall into one of two categories: software development-related and security-related.



2019-20

July 2019
Training

IoT

July 1st to 7th July 2019

Batch 1 : Timing : 8:30 AM To 12:30 PM - Batch 2 : Timing : 1:30 PM To 5:30 PM -

CPMA

Date : 1st July To 4th July 2019

Timing : 9:30 AM To 5:00 PM

Exam Details

Exam set I

OCT 2019

Subject	No. of Students
CPMA	64
IoT	94

Result details are available on

Sr. No.	Name	Course	DIVISION	Course2	Marks	Result
1	Aditya Rakesh Deopurkar	B.E.	D12A	CPMA	85	Pass
2	Akshat Upadhyay	MCA	MCA 2A	CPMA		AB
3	Akshata Laxmikant Bahulekar	MCA	MCA 2A	CPMA	71	Pass
4	Amay Lekhraj Chugh	B.E.	D12A	CPMA	70	Pass
5	ANISH ADNANI	B.E.	D12B	CPMA	86	Pass
6	Anish Vaidya	B.E.	D12A	CPMA	91	Pass
7	Anjali Amin	B.E.	D12B	CPMA	80	Pass
8	Anmol Vaswani	B.E.	D12B	CPMA	73	Pass



Dr. Anjali Yedde ²⁸



9	Anuraj Bhosale	B.E.	D12A	CPMA	73	Pass
10	Atharva Date	B.E.	D12A	CPMA	80	Pass
11	bhavesl lalwani	B.E.	D7C	CPMA	73	Pass
12	Bhavika Motiramani	B.E.	D12C	CPMA	72	Pass
13	Chaudhari Shital Sandeep	#N/A	#N/A	CPMA		AB
14	Chetas Shinde	B.E.	D12A	CPMA	90	Pass
15	Deepanjali Pandey	MCA	MCA 2A	CPMA	70	Pass
16	Dhanashree Shetty	B.E.	D12B	CPMA	85	Pass
17	Dimple Likhar	MCA	MCA 2A	CPMA		AB
18	DIVYA rajendra borse	B.E.	D12A	CPMA	78	Pass
19	Drishti parchani	B.E.	D12A	CPMA	76	Pass
20	Gaurav Marwal	#N/A	#N/A	CPMA	76	Pass
21	Gayatri Prakash Patil	B.E.	D12B	CPMA	81	Pass
22	Kanchan shownkeen	B.E.	D7C	CPMA	71	Pass
23	Karishma vijay chavan	MCA	MCA 2A	CPMA		AB
24	Krish Venkateshwaran	#N/A	#N/A	CPMA	82	Pass
25	Kunal Chugria	MCA	D12B	CPMA	74	Pass
26	Meetali Dulera	#N/A	#N/A	CPMA	74	Pass
27	Mohit Thorat	B.E.	D12A	CPMA	90	Pass
28	Neelam Nand Somai	B.E.	D12B	CPMA	68	Fail
29	Nikhil gaikwad	MCA	MCA 2A	CPMA		AB
30	Nikhil Joshi	B.E.	D12A	CPMA	82	Pass
31	Nilesh Talreja	B.E.	D12A	CPMA	68	Fail
32	Ojas Damankar	B.E.	D7C	CPMA	86	Pass
33	Pradyot Omprakash Chhatwani	B.E.	D12B	CPMA	82	Pass



34	Prateek Mehta	#N/A	#N/A	CPMA	88	Pass
35	Pratibha p	MCA	MCA 2A	CPMA		AB
36	Pratik Dilip Rane	B.E.	D12A	CPMA	84	Pass
37	Priyanka Awatramani	B.E.	D12A	CPMA	77	Pass
38	Purva Kiran Badgujar	B.E.	D12B	CPMA	76	Pass
39	Rahul Sohandani	#N/A	#N/A	CPMA	85	Pass
40	Rahul Tejawani	B.E.	D12B	CPMA	88	Pass
41	Rupesh Bhupendra Juyal	MCA	MCA 2A	CPMA	79	Pass
42	Sahil Lakho Talreja	B.E.	D12A	CPMA	85	Pass
43	Sahil Rajpal	B.E.	D12A	CPMA	82	Pass
44	salil sharma	MCA	MCA 2A	CPMA	73	Pass
45	Samay Ahuja	#N/A	#N/A	CPMA		AB
46	Sanica Kamble	#N/A	#N/A	CPMA	67	Fail
47	Sanjana Rajesh Narang	B.E.	D12B	CPMA	75	Pass
48	Sartha Tambe	B.E.	D12A	CPMA	72	Pass
49	shailendra singh	MCA	MCA 2A	CPMA	79	Pass
50	Sharique Sayed	MCA	MCA 2A	CPMA	77	Pass
51	Shriya Vijay Sawant	B.E.	D12A	CPMA	85	Pass
52	Simran Pandita	#N/A	#N/A	CPMA		AB
53	Sivanta Beera	#N/A	#N/A	CPMA	70	Pass
54	SONIA A THAKUR	B.E.	D12A	CPMA	77	Pass
55	Sreevidya Iyer	B.E.	D12B	CPMA	87	Pass
56	Srivatsan iyengar	B.E.	D12A	CPMA	90	Pass
57	Sujata Joshi	MCA	MCA 2A	CPMA	73	Pass
58	SUJOY MITRA	#N/A	#N/A	CPMA	65	Fail



59	Tamanna Saini	B.E.	D12B	CPMA	67	Fail
60	vaishak nambiar	#N/A	#N/A	CPMA	71	Pass
61	Vanshika Bhagchand Khanna	B.E.	D12B	CPMA	81	Pass
62	Vinit. P. Motwani	B.E.	D12A	CPMA	79	Pass
63	Vishal Gupta	MCA	MCA 2A	CPMA	71	Pass
64	Vrudhi israni	#N/A	#N/A	CPMA	72	Pass

Sr. No.	Name	Course	DIVISION	Course2	Marks	Result
1	Aadi Fernandes	B.E.	D6A	IoT	77	Pass
2	Abhishek Badh	#N/A	#N/A	IoT	95	Pass
3	Aditya Pravin Suryawanshi	B.E.	D6A	IoT	93	Pass
4	Aishwarya Chourasia	B.E.	D6B	IoT	83	Pass
5	AISHWARYA PATANGE	B.E.	D9B	IoT	97	Pass
6	Akash Pandey	B.E.	D9B	IoT		AB
7	AKSHATA MORE	B.E.	D9B	IoT	90	Pass
8	AKSHAYA AJAY KADAM	B.E.	D9C	IoT	92	Pass
9	Amar pal	B.E.	D9B	IoT	91	Pass
10	Amit Bangani	B.E.	D14B	IoT	89	Pass
11	Amol k wakchaure	B.E.	D6A	IoT		AB
12	Amrutlal Rajbhar	B.E.	D11B	IoT		AB
13	Aniket Patil	B.E.	D9B	IoT	91	Pass
14	Anisha Patnaik	B.E.	D9A	IoT	78	Pass
15	Anuja Mohanraam	B.E.	D9B	IoT	93	Pass
16	Anusha Krishnan	B.E.	D9B	IoT	95	Pass



17	Arya Kasulla	B.E.	D9B	IoT	94	Pass
18	Ashutosh Pandey	B.E.	D9B	IoT	92	Pass
19	Ashwin Selvarangan	B.E.	D9A	IoT	94	Pass
20	atharva ambre	B.E.	D9A	IoT	93	Pass
21	Bhairavi Vijay Sawantdesai	B.E.	D9B	IoT	94	Pass
22	Bhakti Shashikant Parab	B.E.	D9A	IoT	80	Pass
23	Chaitanya Moregaonkar	B.E.	D9B	IoT	93	Pass
24	Chinmay chikhalkar	B.E.	D9A	IoT	90	Pass
25	Deeksha Patkar	B.E.	D9A	IoT	94	Pass
26	Devendra Singh	B.E.	D14B	IoT	93	Pass
27	Devesh sawant	B.E.	D9A	IoT	91	Pass
28	Dhanashri Ashok Deokar	B.E.	D9A	IoT	82	Pass
29	Dhanesh Vakte	B.E.	D11B	IoT		AB
30	Dhruv Nambiar	B.E.	D6B	IoT		AB
31	Dinesh Parmeshwar Nimbane	#N/A	#N/A	IoT	92	Pass
32	Gaurav Shukla	B.E.	D14A	IoT	95	Pass
33	Girish Pawar	#N/A	#N/A	IoT	91	Pass
34	HARSHAL AVINASH SAWANT	B.E.	D14C	IoT	93	Pass
35	Harshal Pawar	B.E.	D9B	IoT	89	Pass
36	Harshali Milind Bhalerao	#N/A	#N/A	IoT		AB
37	hrishikesh dey	B.E.	D6A	IoT	37	Fail
38	Itisha Dalvi	B.E.	D6A	IoT	91	Pass
39	Ivan Phillip	B.E.	D8	IoT		AB
40	jigar pandya	B.E.	D6B	IoT	51	Fail
41	Jyeshtha Prabhu			IoT	89	Pass



42	Juhi Ajwani	B.E.	D9A	IoT	93	Pass
43	Kajal sharma	B.E.	D9C	IoT	83	Pass
44	Kautuki Nirgun	B.E.	D9A	IoT		AB
45	Kshitija Ramakant Kadam	B.E.	D9B	IoT	89	Pass
46	LABANA DEVENDRASINGH SANTOSHSINGH	B.E.	D9B	IoT		AB
47	Madhura Karadkar	B.E.	D14B	IoT	92	Pass
48	Manali Kathale	B.E.	D9C	IoT	95	Pass
49	Mayuresh Gawde	B.E.	D6A	IoT	70	Pass
50	Meghana Athanikar	B.E.	D9A	IoT	92	Pass
51	Mohsin Mubin Naik	B.E.	D9B	IoT	96	Pass
52	Mrinali dole	B.E.	D6B	IoT	86	Pass
53	Muskan Chelwani	B.E.	D9A	IoT		AB
54	Nameira Shaikh	B.E.	D6B	IoT	90	Pass
55	Neha badburao Sutar	B.E.	D8	IoT		AB
56	Nishant Patil	B.E.	D8	IoT		AB
57	Omkar parte	B.E.	D9B	IoT		AB
58	Omkar Patil	B.E.	D11B	IoT	79	Pass
59	Prajakta Dhopat	B.E.	D8	IoT	93	Pass
60	Pranav bindra	B.E.	D9B	IoT	95	Pass
61	Pranjali Thorat	B.E.	D6B	IoT	93	Pass
62	Prasad Naik	B.E.	D9B	IoT	96	Pass
63	Pratik Manurkar	B.E.	D9B	IoT	94	Pass
64	Rahul Powar	B.E.	D6A	IoT		AB
65	Rashmita Bangera	B.E.	D14B	IoT	93	Pass



66	Rathod Umedsingh	#N/A	#N/A	IoT	39	Fail
67	Rushab Banwat	B.E.	D9B	IoT		AB
68	Rushabh Mehrotra	B.E.	D9A	IoT	89	Pass
69	Sahaj Santani	B.E.	D9B	IoT	96	Pass
70	Sai Bhosle	#N/A	#N/A	IoT	90	Pass
71	sakshi sandeep yendhe	B.E.	D9C	IoT	83	Pass
72	Samarth Sewlani	B.E.	D9B	IoT	94	Pass
73	Sana Mir	#N/A	#N/A	IoT	95	Pass
74	senith Sachin	B.E.	D9A	IoT	88	Pass
75	Sharvari Maheshwar Gaitonde	B.E.	D9A	IoT		AB
76	Shubham panchal	B.E.	D9C	IoT	92	Pass
77	SHUKLA GAURAV RAJEEV	#N/A	#N/A	IoT		AB
78	Siddhant Easwar	B.E.	D6A	IoT	92	Pass
79	Silpa Sankaranarayanan	B.E.	D9C	IoT	94	Pass
80	Simran K Mayekar	B.E.	D6A	IoT	94	Pass
81	Sonali Laxman Bhalerao	B.E.	D11B	IoT	87	Pass
82	SUDHANSHUSHEKHAR SHAILESH THAKUR	B.E.	D9B	IoT	94	Pass
83	Sushant chandrakant yamgar	#N/A	#N/A	IoT	73	Pass
84	Tanmay Kothale	B.E.	D6B	IoT	90	Pass
85	Tanya Bisht	B.E.	D6A	IoT		AB
86	Tejas gosavi	B.E.	D9B	IoT	94	Pass
87	Tejas Vidyadhar Kothawade	B.E.	D11B	IoT	44	Fail
88	THORAT RUTIK BALKRISHNA	#N/A	#N/A	IoT	92	Pass
89	Urmila shinde	B.E.	D9C	IoT	87	Pass



90	Vineet Rathish	B.E.	D9B	IoT	94	Pass
91	Vrithik Haresh Nathani	B.E.	D9A	IoT		AB
92	Yajnesh Shetty	B.E.	D9B	IoT	93	Pass
93	Yash Desai	B.E.	D9A	IoT	92	Pass
94	yashraj	B.E.	D6B	IoT	82	Pass

for more details :

https://docs.google.com/spreadsheets/d/1opXhh_XlnZK5Ut1PUWL005JiiUfJtHS7/edit?usp=sharing&oid=113526138583551742549&rt=pdf=true&sd=true



Training for faculty members on "progressive web app development and blockchaining"

VESIT Renaissance Cell organized ISTE approved one week STTP on "Web App Development & Blockchain" from 1st July to 6th July 2019.

Topics covered in STTP :

- Introduction to Mobile App Development
- Mobile App Development using PhoneGap and Cordova.
- Importance Of Plug-in.
- Working with Component Templates App using GPS Plug-in
- Working with Component Styles App using Vibrate Plug-In
- Full functional App using SQLite doing CRUD operation.
- Angular JS2
- CLI Deep Dive & Troubleshooting
- Blockchain Introduction
- What is Bitcoin?
- Role of Bitcoin Miners
- Key Concepts in Bitcoin
- Creating Components with the CLI & Nesting Components
- Blockchain Cryptocurrency

Convener

Dr. M Vijayalakshmi, Vice Principal

Co-coordinator's

Dr. Anjali Shrikant Yeole, CMPN

Mrs. Rohini Temkar, MCA

List of faculty members attended STTP

1 Sunny Suresh Nahar MCA	15 Sangeeta oswal MCA
2 Dr.Nupur Giri CMPN	16 Mona Deshmukh MCA
3 GOPALAKRISHNAN INST	17 Jayshree Hajgude INFT
4 Vidya Pujari INFT	18 Dhanamma Jagil MCA
5 Pooja Shetty INFT	19 Jayashree R. INST
6 Priya R. L. CMPN	20 Sukanya Roychowdhury INFT
7 Dr. Anjali Yeole CMPN	21 Richa Sharma
8 Abhijit Shete ETRX	22 Mannat Daultani CMPN
9 Namrata Bonde INST	23 Indira Bhattacharya MCA
10 Devyani Bhale EXTC	24 Ruchi Rautela MCA
11 Amit Singh INFT	25 Richard Joseph CMPN
12 Vinita Mishra INFT	26 Solanki Ramesh MCA
13 Smita Jangale IT	27 Rohini Temkar MCA
14 Shalu chopra INFT	28 Abha Tewari CMPN



**VIVEKANAND EDUCATION SOCIETY'S INSTITUTE
OF TECHNOLOGY**
Chembur, Mumbai- 400074

**Schedule for ISTE Approved STTP on
"Progressing Web App Development & BlockChain"**

Day	Time	Topic
Day 1 (17/2019)	9:00 AM to 09:30 AM	Registration and Breakfast
	9:30 AM to 10:00 AM	Opening Ceremony
	10:00 AM to 11:30 AM	Session 1 - Introduction to Mobile Apps, Introduction PhoneGap and Cordova, Introduction to HTML and Tags of HTML, Making simple website with HTML Tags
	11:30 AM to 11:40 AM	Tea Break
	11:40 AM to 1:00 PM	Session 2 - Programs With JavaScript, Programs With JavaScript for Looping, Decision Making etc, Installing of Node Js and Cordova, Introduction of Local Storage, Making of Single App by using PhoneGap
	1:00 PM to 1:45 PM	Lunch Break
	1:45 PM to 3:00 PM	Session 3 - Introduction of CSS, Introduction of JQuery and How to implement same in Cordova, Making login Form App, Making a Calculator App, Making a Conversion App
	3:00 PM to 3:10 PM	Tea Break
	3:10 PM to 4:00 PM	Session 4 - How to change Name and Icon of the App, How to adjust app perfectly to any device, Components are Important!, Creating a New Component
	Day 2 (20/2019)	9:00 AM to 9:30 AM
9:30 AM to 11:30 AM	Session 5 - Architecture of Cordova App, Importance Of Plug-in, App using GPS Plug-in, App using Vibrate Plug-in	



	11:30 AM to 11:40 AM	App using Media Plug-in to play song Tea Break
	11:40 AM to 1:00 PM	Session 6 - Introduction of SQL Lite Simple App by using SQL Lite Full functional App using SQL Lite doing CRUD Operation App using Camera PlugIn App using Contacts Contact Plug In App using Video plug-in App using History Plug-in
	1:00 PM to 1:45 PM	Lunch Break
	1:45 PM to 3:00 PM	Session 7 - Introduction to PWA Introduction to Web Manifest Introduction to Service Worker Cache and Offline support Background Sync
	3:00 PM to 3:10 PM	Tea Break
	3:10 PM to 4:00 PM	Session 8 - Introduction to firebase Working with Component templates
Day 3 (3/7/2019)	9:00 AM to 9:30 AM	Breakfast
	11:30 AM to 11:40 AM	Tea Break
	11:40 AM to 1:00 PM	Session 10 - What is Typscript A Basic Project set up using Bootstrap for Styling Working with Component Styles Components are Important! Creating a New Component
	1:00 PM to 1:45 PM	Lunch Break
	1:45 PM to 3:00 PM	Session 11 - Understanding the Role of AppModule and Component Declaration Using Custom Components Creating Components with the CLI 5 Testing Components
	3:00 PM to 3:10 PM	Tea Break
	3:10 PM to 4:00 PM	Session 12 - Working with Component Templates Working with Component Styles



Day 4 (4/7/2019)	9:00 AM to 9:30 AM	Breakfast
	9:30 AM to 11:30 AM	Session 13- Blockchain Introduction Open link History of Blockchain What is Bitcoin? Blockchain Version Role of Bitcoin Miners
	11:30 AM to 11:40 AM	Tea Break
	11:40 AM to 1:00 PM	Session 14- Blockchain Hash Functions Blockchain Block Hashing Blockchain Distributed Ledger
	1:00 PM to 1:45 PM	Lunch Break
	1:45 PM to 3:00 PM	Session 15- How Block Hashes Work in Blockchain Basic Components of Bitcoin
	3:00 PM to 3:10 PM	Tea Break
	3:10 PM to 4:00 PM	Session 16- Blockchain Proof of Work Coinbase Transaction
Day 5 (5/7/2019)	9:00 AM to 9:30 AM	Breakfast
	9:30 AM to 11:30 AM	Session 17 - Key Concepts in Bitcoin Blockchain Key Areas
	11:30 AM to 11:40 AM	Tea Break
	1:00 PM to 1:45 PM	Lunch Break
	1:45 PM to 3:00 PM	Session 19- Bitcoin Mitigating attacks Who sets the Bitcoin Price Vietnam Started With Bitcoin How to Choose Bitcoin Wallet Sending and Receiving Bitcoin Converting Bitcoins to Fiat Currency
	3:00 PM to 3:10 PM	Tea Break
	3:10 PM to 4:00 PM	Session 20- How to Choose Bitcoin Wallet Sending and Receiving Bitcoin Converting Bitcoins to Fiat Currency
Day 6 (6/7/2019)	9:00 AM to 9:30 AM	Breakfast
	9:30 AM to 11:30 AM	Session 21- Applications of Blockchain Voting Function
	11:30 AM onwards	Valedictory Function

Thank you!!!

for more details : <https://drive.google.com/file/d/15hvceIEFSjKutm9T7pc-F4LkUnX83a/view?usp=sharing>

Report
On
L&T GETs, PGETs and DETs Hands-on Training on Instrumentation and Control

Program Co-ordinator: Mrs. Nilima Warke


Training Instructors:

- 1) Mrs. Nilima Warke
- 2) Mrs. Kadambari Sharma
- 3) Mrs. Kanchan Chavan
- 4) Mrs. Amudha S
- 5) Mr. P. K. Godse

Participants: L&T Graduate Engineer Trainees (GETs), Post Graduate Engineer Trainees (PGETs) and Diploma Engineer Trainees (DETs) of Electronics, Instrumentation, Electronics & Telecommunication, Information Technology/ Mechanical/Production, Civil, Metallurgy, Chemical and Electrical Engineering

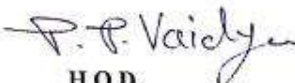
L&T Graduate Engineer Trainees (GETs) training was conducted by Instrumentation Department, V.E.S.I.T, Chembur during 27th July to 27th Oct, 2018 for 306 GETs and 36 DETs.

Main aim of this training was to provide hands-on on the module Instrumentation and Control Engineering to GETs of Electronics/ Instrumentation /Electronics & Communication/ Computer/Information Technology/ Mechanical/Production Engineering. During this training, the importance of safety, quality, productivity, cost, planning and organizing and creativity was delivered. Lab sessions on temperature, pressure measurement, pressure control loop, level control loop, control valves, current to pneumatic converters were explained and performed. At the end of the session, quiz was conducted based on the theory and lab sessions.


Program Coordinator
Mrs. Nilima Warke



1


H.O.D.
Dr. P.P.Vaidya









VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF
TECHNOLOGY

Department of Computer Engineering



Certificate

This is to certify that *Juhi M. Bansinghani, Sarthak J. Dadhakar, Trena V. Dhingra, Umesh R. Ramchandani* of Fourth Year Computer Engineering studying under the University of Mumbai have satisfactorily completed the project on “**DYSCALCULIA DETECTION USING ARTIFICIAL INTELLIGENCE**” as a part of their coursework of PROJECT-II for Semester-VIII under the guidance of their mentor *Mrs. Sharmila Sengupta* in the year 2018-2019.

Programme Outcomes	Grade
PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11, PO12, PSO1, PSO2.	

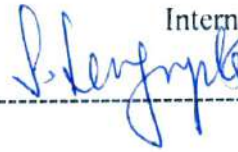
Date: 03/05/19

Project Guide:

Project Report Approval For B. E (Computer Engineering)

This project report entitled *Dyscalculia Detection using Artificial Intelligence* by *Juhi M. Bansinghani, Sarthak J. Dadhakar, Trena V. Dhingra* and *Umesh R. Ramchandani* is approved for the degree of *Bachelor of Engineering in Computer Engineering*.

Internal Examiner



External Examiner



Head of the Department



Principal



PRINCIPAL,

VIVEKANAND EDUCATION SOCIETY'S
INSTITUTE OF TECHNOLOGY
HASHU ADVANI MEMORIAL COMPLEX,
COLLECTOR'S OFFICE, CHEMBUR,
MUMBAI-400 074, INDIA.

Date: 03/05/19
Place: Chembur

Letter from Nair Hospital



DEPARTMENT OF PSYCHIATRY B.Y.L. NAIR CH. HOSPITAL & T. N. MEDICAL COLLEGE

Dr. A. L. Nair Road, Mumbai - 400 008.
Tel. : 23081490-99 Ext. : 630 / 631

Date:- 19/04/2019


To Mrs. Shamita Sengupta

Subject: Appreciation letter for the work done on the project titled, "Dyscalculia Detection using Artificial Intelligence."

It was a pleasure for us to have you and your team from Department of Computer Engineering, Vivekanand Education Society's Institute of Technology during the course of this collaborative project between the two institutions. The project team comprised of I, Dr. Alka Subramanyam and Dr. Sonakshi Jyrwa from Department of Psychiatry, B.Y.L. Nair Ch. Hospital, Mumbai and Dr. Nupur Giri, Sharmila Sengupta, Juhi M. Bansinghani, Sarthak J. Dadhakar, Trena V. Dhingra, Umesh R. Ramchandani from the Dept. Of Computer Engineering, Vivekanand Education Society's Institute of Technology, Mumbai.

We are pleased about the successful completion and deployment of the project. Looking forward to future collaborations

Regards,


Dr. Alka Subramanyam,
Associate Professor,
Dept. of Psychiatry,
TNMC & B.Y.L. Nair Ch. Hospital,
Mumbai

DR. ALKA A. SUBRAMANYAM
Reg. No. 2000/02/1358
Associate Professor
Department of Psychiatry
T.N.M.C. & B.Y.L. Nair Ch. Hospital,
Dr. A. L. Nair Rd., Mumbai Central,
Mumbai-400 008.



DEPARTMENT OF PSYCHIATRY
B.Y.L. NAIR CH. HOSPITAL & T. N. MEDICAL COLLEGE

Dr. A. L. Nair Road, Mumbai - 400 008.
Tel. : 23081490-99 Ext. : 630 / 631

Date:- 19/04/2019


To Dr. Nupur Giri

Subject: Appreciation letter for the work done on the project titled, "Dyscalculia Detection using Artificial Intelligence."

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Associate Professor
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Dr. A. L. Nair Road, Mumbai - 400 008.

Tel. : 23081490-99 Ext. : 630 / 631

Date:- 19/04/2019


To Umesh R. Ramchandani

Subject: Appreciation letter for the work done on the project titled, "Dyscalculia Detection using Artificial Intelligence."

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TNMC & B.Y.L. Nair Ch. Hospital,
Mumbai

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Reg. No. 2000/02/1358
Associate Professor
Department of Psychiatry
T.N.M.C. & B.Y.L. Nair Ch. Hospital,
Dr. A. L. Nair Rd., Mumbai Central,
Mumbai-400 008.



DEPARTMENT OF PSYCHIATRY
B.Y.L. NAIR CH. HOSPITAL & T. N. MEDICAL COLLEGE

Dr. A. L. Nair Road, Mumbai - 400 008
Tel. : 23081490-99 Ext. : 630 / 631

Date:- 19/04/2019


To Sarthak J. Dadhakar

Subject: Appreciation letter for the work done on the project titled, "Dyscalculia Detection using Artificial Intelligence."

It was a pleasure for us to have you and your team from Department of Computer Engineering, Vivekanand Education Society's Institute of Technology during the course of this collaborative project between the two institutions. The project team comprised of I, Dr. Alka Subramanyam and Dr. Sonakshi Jyrwa from Department of Psychiatry, B.Y.L. Nair Ch. Hospital, Mumbai and Dr. Nupur Giri, Sharmila Sengupta, Juhi M. Bansinghani, Sarthak J. Dadhakar, Trena V. Dhingra, Umesh R. Ramchandani from the Dept. of Computer Engineering, Vivekanand Education Society's Institute of Technology, Mumbai.

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TNMC & B.Y.L. Nair Ch. Hospital,
Mumbai

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Reg. No. 2000/02/1358
Associate Professor
Department of Psychiatry
T.N.M.C. & B.Y.L. Nair Ch. Hospital,
Dr. A. L. Nair Rd., Mumbai Central,
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B.Y.L. NAIR CH. HOSPITAL & T. N. MEDICAL COLLEGE.

Dr. A. L. Nair Road, Mumbai - 400 008
Tel. : 23081490-99 Ext. : 630 / 631

Date:- 19/04/2019


To Juhi M. Barsinghani

Subject: Appreciation letter for the work done on the project titled, "Dyscalculia Detection using Artificial Intelligence."

It was a pleasure for us to have you and your team from Department of Computer Engineering, Vivekanand Education Society's Institute of Technology during the course of this collaborative project between the two institutions. The project team comprised of I, Dr. Alka Subramanyam and Dr. Sonakshi Jyrwa from Department of Psychiatry, B.Y.L. Nair Ch. Hospital, Mumbai and Dr. Nupur Giri, Sharmila Sengupta, Juhi M. Barsinghani, Sarthak J. Dadhakar, Trena V. Dhingra, Umesh R. Ramchandani from the Dept. Of Computer Engineering, Vivekanand Education Society's Institute of Technology, Mumbai.

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Reg. No. 2000/02/1358
Associate Professor
Department of Psychiatry
T.N.M.C. & B.Y.L. Nair Ch. Hospital,
Dr. A. L. Nair Rd., Mumbai Central,
Mumbai-400 008.

Abstract

A great amount of research is going on in the detection of learning disabilities, but the detection of Dyscalculia remains a tedious and time consuming task even today. Various tests are conducted to detect if the patient has Dyscalculia and each test has to be evaluated manually as the scores alone are not sufficient to determine it. In some cases, Curriculum Based Tests [CBTs] or Wide Range Achievement Tests [WRAT] or both need to be conducted after analysis of the results of the Woodcock Johnson Tests. As a collaborative project between Department of the Psychiatry B.Y.L. Nair Ch. Hospital and Department of Computer Engineering, Vivekanand Education Society's Institute of Technology a system is developed to help improve the detection of Dyscalculia. The Woodcock Johnson Tests of Achievements are conducted by the doctors and the results of these tests determine the learning disability

**JADHAVPUR UNIVERSITY ALUMINI SCHOLARSHIP EVENT REPORT
(2018-19)**

Date of event:	Friday 11 th Jan, 12.00 p.m. – 13.00 p.m., Auditorium	Guests :	<p>Rtn. CDR S. K. Jana Past President Post graduate in Physics Jadavpur University Electrical Engineering Degree Ranchi University The Indian Navy, Submarine Arm</p> <p>Mr,R.K.Dasgupta Director & Project Management Consultant RDMA Consultants Pvt.Ltd</p> <p>Mr Shyama Prasad Ray B. Sc (Hons) in Physics from Calcutta University B.Tech (Hons) in Instrumentation and Electronics Engg. from Jadavpur University in 1971. Fellow Member of Institution of Engineers (India)</p> <p>Mr. Ashok Adhikary Electrical Engineer Jadavpur University</p>
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Co-ordinator of the Event	Mrs. Smita Jangale and Scholarship In-charges of all the Departments
Audience	All F. E. Students

Scholarship Winner:

Sr. no.	Name	Class
1	VIGNESH PILLAI	INFT / Second Year / III / D10

The Scholarship Event started with saraswati vandana, lighting the lamp bouquet for all the guests.

It was then followed with introduction for all the dignitaries.

Each guests gave their introduction, views and their vision for the Jadhavpur University Alumini Scholarship and the Trust .

After this, Mr.Vignesh Pillai of S.E. Information technology Department was awarded with the Scholarship. All F.E. students were invited for the event so that they can be inspired and work harder for their brighter future.

(Smita Jangale)



The event was concluded with the thank you speech.
Photographs:





Since 1962

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Training and Placement Cell

Capgemini-VESIT Engagement Initiatives

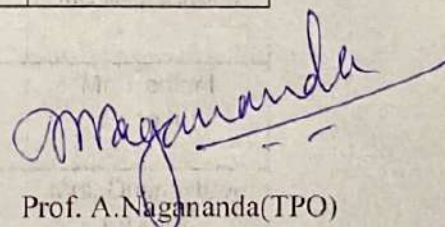
Activities Conducted: AY 2017-18 / 2018-2019

Industry-institute collaboration is essential for ensuring that theory and practise are aligned across all functional domains. It enhances a student's technical and interpersonal abilities while also preparing him or her for the workplace. These kinds of interactions aren't usually limited to case studies or internships. Institute has partnered with Capgemini to host a series of talks, expert sessions, and Workshops etc.

As a part of Capgemini –VESIT Engagement initiative following activities has been conducted for the students, all these activities were open for all stream students and approx. 150+ students participated in each of the activity.

Sr. no	Date	Event details	Speaker Name
1	22th Feb 2018	Workshop on " Design Thinking"	Mr. Dilip purohit
2	20th March 2018	A talk on " Big data analytics"	Mr. Hemant Pangam
3	18th Jan 2019	Session on " Changing attitude and its impact on career growth"	Mrs. Dhanashree Kulkarni
4	06th Feb 2019	Session on"Effective communication skills"	Mrs. Dhanashree Kulkarni
5	11 th Feb 2019	Session on""Building effective Team"	Mr. Vijay Natrajan
6	19th March 2019	Talk on " Data Analytics/AI"	Mr. Mukesh Jain




Prof. A. Nagananda(TPO)



ATS Microsoft Exam Report

Contents: Training details, exam dates and results


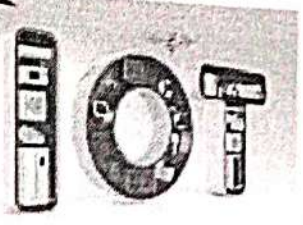
AY:2018-2019



Bas
Anjali Yek




Syllabus
Syllabus IOT :






New Course Content for 3-Day free Workshop on IOT

1. **Understanding and introduction to Raspberry Pi (11hrs)**
 - What is SOC?
 - Versions of Raspberry Pi & Their Difference
 - Raspberry Pi 4
 - Basics of Electronics
 - Hardware Description
 - Pin Configuration
2. **OS Installation on SD Card (30Mins)**
 - Downloading Image
 - Study Various Operating Systems Available
 - Making SD Card: Formatting and Partition
 - Raspberry Pi SD Installer
3. **OS Configuration (30Mins)**
 - Booting into Desktop
 - GUI Version
 - C/C++ Desktop
 - Changing Time zone
4. **Other Options**
 - Rasp-Config
 - Test
4. **Network Setup (30Mins)**
 - Setting Up Using GUI
 - Setting Up Using Command Line
 - Finding Pi's IP Address
 - Connecting with Wi-Fi/ LAN/ Data card
5. **GPIO (1hrs)**
 - Study GPIO Pins
 - Libraries Using GPIO
 - Configuring GPIO Pins
6. **Running SSH (30Mins)**
 - Enabling SSH
 - Logging in using PuTTY
 - Run Basic Commands
 - Use LAMP
7. **Linux (11hrs)**
 - Understanding Linux
 - File Structure
 - Linux Commands
 - Permissions
8. **Using Python (8hrs) with raspberry Pi 4**
 - Understanding Python
 - Interpreted Languages
 - Variables, Keywords, Operators and Expressions
 - Data Types in Python
 - Flow Control
 - Conditional Statement
 - Loops
 - Importing Libraries
 - Functions
 - Classes
9. **New addition with Microsoft certification on Python: Using Python for web app for connecting with IOT devices. (in addition to the above topics)**
 - Document and structure code



ATS Learning Solutions








OpenWith ▾

- Perform troubleshooting and error handling
- Perform operations using modules and tools
- Introduction to web frames works
- Flask
- Connecting with Think speak (data visualization)

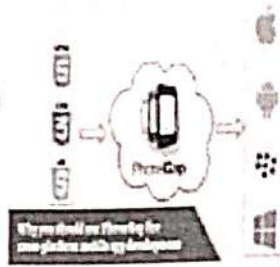
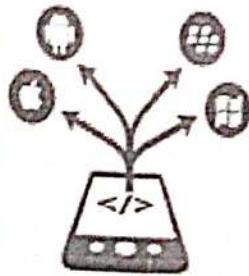
AIS Learning Solutions



10. Working with Different sensors.

11. Project using raspberry Pi 3 and different sensors (mini)

<https://drive.google.com/file/d/0B1zrzByr9RRQTUtQa1pwOVdCTkpIV2E1a1dhUThvVDhScVhn/view?usp=sharing&resourcekey=0-wzmyCn6cnWRXXpk4OhKtBg>



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Syllabus Security :

ATS Network Security and Ethical Hacking

[1.] Hacking Psychology

The next section will explain the purpose of ethical hacking and exactly what ethical hackers do. As mentioned earlier, ethical hackers must always act in a professional manner to differentiate themselves from malicious hackers. Gaining the trust of the client and taking all precautions to do no harm to their systems during a pen test are critical to being a professional.

- (1.) Concept of Ethical Hacking: Legal or illegal??
- (2.) Categories of Hackers(As per Knowledge)
- (3.) Categories of Hackers(As per Working)
- (4.) How to Secure yourself from Attackers
- (5.) How to Stop Attackers
- (6.) Indian Cyber Law

[2.] E-Mails: Exploitation and Security

Forging an e-mail header to make it appear as if it came from somewhere or someone other than the actual source. The main protocol that is used when sending e-mail -- SMTP -- does not include a way to authenticate. There is an SMTP service extension (RFC 2554) that allows an SMTP client to negotiate a security level with a mail server. But if this precaution is not taken anyone with the know-how can connect to the server and use it to send spoofed messages by altering the header information.

ATS Learning Solutions

- (1.) What is an E-mail
- (2.) Working of E-mail
- (3.) Traveling of an E-Mail
- (4.) Email Servers
- (5.) E-mail Forgery and Spamming
- (6.) Security to Anonymous Mailing
- (7.) Attacks on E-Mail Password
- (8.) Securing the E-Mail Passwords
- (9.) Email Forensics

Typical email security products didn't. Phishing emails that link to infected websites cause many of today's information security breaches. Yet typical email security products use outdated methods from phishing's early days, when hackers attached viruses to emails. They can't catch blended email/web threats that can lead to malware infection. And they can't detect employee activities that can lead to data loss.



[3.] Operating System Hacking & Security

Hacking systems and planting and/or sending malicious content are the two most performed actions by hackers. As an ethical hacker, it will be your responsibility to test systems against hacking and to be prepared for the different types of malicious content that hackers will try to get into your network environment. This course examines password cracking methodologies and tools, privilege escalation, rootkits, steganography and backdoor types and tools, and different types of viruses and worms and their countermeasures.

1. Introduction to System Software's
2. Windows Security Components and Working
3. Introduction to Virtual Machines
4. Implementation of Virtualization
5. Windows
6. Linux
7. Attacks on Windows Login Password
8. Other Security Measures
9. Windows Inbuilt Flaws and Security Loopholes
10. Invading into Computer System
11. Optimizing Windows Computer System
12. Restrict Hackers into box

A technical background with a solid understanding of networks and networking concepts, such as IP, IP Routing, and LAN Switching, as well as Windows and/or UNIX/LINUX operating systems.

[4.] Malwares: Trojan, Viruses & Worms

Malware, short for malicious software, is software used to disrupt computer operation, gather sensitive information, or gain access to private computer systems. It can appear in the form of code, scripts, active content, and other software. Malware is a general term used to refer to a variety of forms of hostile or intrusive software.

Named after the Trojan Horse of ancient Greek history, a Trojan is a network software application designed to remain hidden on an installed computer. Trojans generally serve malicious purposes and are therefore a form of Malware, like viruses.

1. What are malwares?
2. Trojan
3. Trojan Attack Methods
4. Some Well Known Trojans
5. Detection of Trojan
6. Viruses
7. Working and Functionality of Viruses
8. Development
9. Development of Folder lockers
10. Registry tweaks and Tricks
11. Developing Professional Security tool
12. Detection and Manual Removal



A **computer virus** is a type of malware that, when executed, replicates by inserting copies of itself (possibly modified) into other computer programs, data files, or the boot sector of the hard drive. When this replication succeeds, the affected areas are then said to be "infected".

A **computer worm** is a standalone malware computer program that replicates itself in order to spread to other computers. Often, it uses a computer network to spread itself, relying on security failures on the target computer to access it. Unlike a computer virus, it does not need to attach itself to an existing program. Worms almost always cause at least some harm to the network, even if only by consuming bandwidth, whereas viruses almost always corrupt or modify files on a targeted computer.

[5.] Attacks Related to Network & Security (LAN/WLAN)

Network security consists of the provisions and policies adopted by a network administrator to prevent and monitor unauthorized access, misuse, modification, or denial of a computer network and network-accessible resources. Network security involves the authorization of access to data in a network, which is controlled by the network administrator. Users choose or are assigned an ID and password or other authenticating information that allows them access to information and programs within their authority.

1. Introduction to the LAN (Local Area Networks)
2. Back-Track: Penetration Tool
3. Secure Network Configuration

Security management for networks is different for all kinds of situations. A home or small office may only require basic security, while large businesses may require high-maintenance and advanced software and hardware to prevent malicious attacks from hacking and spamming.

ATS—Learning Solutions

[6.] Web Server Attacks & Security

The HTTP (or HTTPS) protocol is the standard that makes it possible to transfer web pages via a request and response system. Mainly used to transfer static web pages, the web has quickly become an interactive tool making it possible to provide on-line services. The term "web application" refers to any application whose interface can be accessed on the web from a simple browser. Now the basis for a certain number of technologies (SOAP, Javascript, XML-RPC, etc.), the HTTP protocol plays an undeniable strategic role in information system security.

1. Introduction to Web Application Security
2. Understanding Attack Vectors
3. Web Application Attacks
4. SQL Injection
5. Google Dorks – Using Google as an Expert
6. Cross Site Scripting: XSS
7. Directory Traversal Attacks
8. Putting breaks on Web Application attacks
9. Mozilla Firefox as a Hacking tool



10. Bypassing Proxy - Intermediate
11. Using Google as Proxy
12. Remote File Inclusion for Opening Blocked Websites
13. Creating your Own Proxy Server

Attacks on web applications are always harmful since they give the company a bad image. A successful attack can have any of the following consequences.

- Website defacement,
- Stolen information,
- Modification of data, and particularly modification of users' personal data
- Web server intrusion

[7.] *Software Reverse Engineering and Attacks on Demand*

Software Reverse Engineering (SRE) is the practice of analyzing a software system, either in whole or in part, to extract design and implementation information. A typical SRE scenario would involve a software module that has worked for years and carries several rules of a business in its lines of code. Unfortunately the source code of the application has been lost, what remains is "native" or "binary" code. Reverse engineering skills are also used to detect and neutralize viruses and malware, as well as to protect intellectual property. It became frighteningly apparent during the Y2K crisis that reverse engineering skills were not commonly held amongst programmers.

1. What is Reverse Engineering
2. Software - Definition
3. Disassembling the Software's
4. Software Cracking & Serial Key Phishing
5. Software Patching
6. Applying Application Security
7. Attacks on Demand

Since that time, much research has been undertaken to formalize just what types of activities fall into the category of reverse engineering so that these skills could be taught to computer programmers and testers. To help address the lack of software reverse engineering education, several peer-reviewed articles on software reverse engineering, re-engineering, reuse, maintenance, evolution, and security were gathered with the objective of developing relevant, practical exercises for instructional purposes. The research revealed that SRE is fairly well described and most of the related activities fall into one of two categories: software development-related and security-related.

for more details : <https://drive.google.com/filed/0B1zzBy9RRQT0MISkUwckhSVIIVDZCYkx3WGNFT3BuelpN/view?usp=sharing&resourcekey=0-QBmF6v2zQwLmsqC4MFAQK9>



2018-19

VRC has co-ordinated Microsoft certification at VESIT facilitated by ATS. Three different courses were offered: CROSS PLATFORM MOBILE APP DEVELOPMENT (CPMA), CYBER & MOBILE SECURITY, and Internet of Things (IoT). In all, 309 students from college have registered for the course. Three days training was conducted for all three courses. CROSS PLATFORM MOBILE APP DEVELOPMENT had 1 batch of 52 students. IoT had 4 batches of 40+ students in each. CYBER & MOBILE SECURITY had 2 batches of 50+ students. They were conducted in the month of March 18, Apr 18 and July 18.

Subject	No. of Students
CPMA	59
Cyber Security	89
IoT	161

Training

MARCH 2018

CPMA : 29TH, 30TH & 31ST MARCH - 1 batches
IoT : 29TH, 30TH & 31ST MARCH - 1 batches
Security 29TH, 30TH & 31ST MARCH - 1 batches

April 2018

IoT : 1st Apr to 6th Apr - 1 batches

July 2018

4th July 2018 onward
CPMA : - 1 batches
IoT : - 2 batches
Security : 1 batches

Exam Conduction

Exam set 1

Microsoft Certification exam on Javascript(Those who attended training on CPMA workshop) and PYTHON (Those who attended training on IOT workshop) is scheduled on 30th August 2018

Microsoft Certification exam Cyber Security is scheduled on 1st September 2018.



Bees
Dr. Anjali Yedle



Exam set 2

Microsoft Certification exam PYTHON is scheduled on 15th October 2018.

Exam set 3

IoT exam Jan 24,25 2019

security exam Jan 25 2019

CPMA exam Jan 25 2019

Result details :

SR. NO.	NAME OF THE STUDENT	BRANCH (CHOOSE ONLY 1 OPTION)	DIVISION	CERTIFICATION ENROLLED FOR (CHOOSE ONLY 1 OPTION)	WORKSHOP EXECUTION SLOTS (CHOOSE ONLY 1 OPTION)	Remark
1	Anuj Chanchlani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
2	Anuja Reejhsinghani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
3	Dilip Moralwar	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
4	Ganesh Kotalwar	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
5	Hitesh Valecha	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
6	Kajal Sonawane	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
7	Mahima Motwani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
8	Prerna Lokwani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
9	Rahul Shamdasani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
10	Reshma Sawlani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
11	Rohan Keswani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
12	Rohit Kriplani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass



13	Ruchika Daryani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
14	SAGAR MADNANI	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
15	Sagar Raisinghani	COMPUTER	D12A	CPMA	JUNE 3RD WEEK	Pass
16	Sahil Bhatia	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
17	Saili Kadam	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
18	Sujay Varma	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
19	SukhwinderSingh .	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
20	Tarun Ramrakhyani	COMPUTER	D12A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
21	Aakash Birari	COMPUTER	D12B	CPMA	JUNE 3RD WEEK	Pass
22	Akash Kalwani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
23	Akshaya Patil	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
24	Atharva Pandit	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
25	DHANASHRI ASAI	COMPUTER	D12B	CPMA	JUNE 3RD WEEK	Fail
26	Harsh Mulchandani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
27	Harshini Sewani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
28	Hitesh Vaswani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
29	Jitesh Watwani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
30	Jyoti Tejawani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
31	Kajol Rohra	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
32	Lakhan Rangwani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent



33	Mitali Ochani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
34	Nikhil Dalvi	COMPUTER	D12B	CPMA	JUNE 3RD WEEK	Fail
35	Nikita Bakhtar	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
36	Pankaj Ahuja	COMPUTER	D12B	CPMA	JUNE 3RD WEEK	Pass
37	Pawan Wadhvani	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
38	Pritee Wadhwa	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
39	Roshan Talreja	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
40	SANJIB Naha Biswas	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
41	Sarthak Khanna	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
42	Tarun Chawla	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
43	Varkha Ahuja	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
44	Varsha Chhabria	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
45	vinay bhatia	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
46	Vivek Sohal	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
47	Yohan Mahajan	COMPUTER	D12B	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
48	Nitin Hazarani	COMPUTER	D12C	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
49	Rahul Bhatia	COMPUTER	D7A	CPMA	JUNE 3RD WEEK	Absent
50	Simran Bhagwandasani	COMPUTER	D7A	CPMA	JUNE 3RD WEEK	Absent
51	Rishil Kirtikar	COMPUTER	D7B	CPMA	JUNE 3RD WEEK	Absent
52	Hiral Khavanekar	MCA	MCA 2A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail



53	Nikita Patil	MCA	MCA 2A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
54	Nirbhay Patel	MCA	MCA 2A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
55	Pooja Patil	MCA	MCA 2A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
56	ROHIN RANGNEKAR	MCA	MCA 2A	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
57	Jayprakash Patel	MCA	MCA 2M	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
58	Pooja Jadhav	MCA	MCA 2M	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
59	UJWAL SUVARNA	MCA	MCA 2M	CPMA	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass

SR. NO.	NAME OF THE STUDENT	BRANCH (CHOOSE ONLY 1 OPTION)	DIVISION	CERTIFICATION ENROLLED FOR (CHOOSE ONLY 1 OPTION)	WORKSHOP EXECUTION SLOTS (CHOOSE ONLY 1 OPTION)	Remark
1	Kajol Rohra	COMPUTER	D12B	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
2	Aishwarya Vaidya	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
3	Ashish Joshi	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
4	Gurpreet Singh Nagpal	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
5	Haresh Chawla	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
6	Namrata Showneen	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
7	Neha Prabhavalkar	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent



8	Nilesh Bhatia	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
9	Piyush Mangtani	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
10	POOJA TALREJA	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
11	Prateek Khatwani	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
12	Prem Amal	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
13	Prerna Baliga	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
14	Ranjeet Monde	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
15	SAI SIRISHA NADIMINTI	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
16	SAMUJJWAAL DEY	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
17	SHRADDHA TALREJA	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
18	Tarasha Agarwal	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
19	VEDIKA PATANGE	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
20	Yash Kaned	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
21	YASH KASTURI	COMPUTER	D12C	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
22	Abhiruchi Bhattacharya	COMPUTER	D7A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
23	Austin Coutinho	COMPUTER	D7A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Fail



24	Chinmay Sankhe	COMPUTER	D7A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
25	Chinmay Joshi	COMPUTER	D7A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Fail
26	Gautam Menghani	COMPUTER	D7A	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
27	Ketaki Buwa	COMPUTER	D7A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Fail
28	Saloni Punjabi	COMPUTER	D7A	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
29	Smruti Kshirsagar	COMPUTER	D7A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
30	Aakanksha Talreja	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
31	Akanksha Mittal	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
32	Aneesh Kulkarni	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
33	Anjali Prithiani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
34	Disha Rajani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
35	GRISHMA GURBANI	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
36	Jay Rajput	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
37	Karan Hemdev	COMPUTER	D7B	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
38	Kunal Kundnani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Fail
39	Madhu Raghani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass



40	Naman Varyomalani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
41	Nirav Motwani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
42	Pradyumn Gupta	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
43	Pranit Naik	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
44	Pranjali Tembhumkar	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
45	RICHA BHATIA	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
46	Sachin Kanjan	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
47	Sanket Gokhale	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
48	SHEFALI ATHAVALE	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
49	Tejas Thakur	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
50	Yogita Bhatia	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
51	Aniket Bote	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
52	Anirudh Ramachandran	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
54	Bhavesh Khubnani	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
55	Devashish Gopalani	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
56	Divya Manoj	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass



**Vivekanand Education Society's
Institute of Technology**

Approved by AICTE & Affiliated to University of Mumbai

40	Naman Varyomalani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
41	Nirav Motwani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
42	Pradyumn Gupta	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
43	Pranit Naik	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
44	Pranjali Tembhurnikar	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
45	RICHA BHATIA	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
46	Sachin Kanjan	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
47	Sanket Gokhale	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
48	SHEFALI ATHAVALE	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
49	Tejas Thakur	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
50	Yogita Bhatia	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
51	Aniket Bote	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
52	Anirudh Ramachandran	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
54	Bhavesh Khubnani	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
55	Devashish Gopalani	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
56	Divya Manoj	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass



40	Naman Varyomalani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
41	Nirav Motwani	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
42	Pradyumn Gupta	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
43	Pranit Naik	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
44	Pranjali Tembhornikar	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
45	RICHA BHATIA	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
46	Sachin Kanjan	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
47	Sanket Gokhale	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
48	SHEFALI ATHAVALE	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
49	Tejas Thakur	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
50	Yogita Bhatia	COMPUTER	D7B	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
51	Aniket Bote	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
52	Anirudh Ramachandran	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
54	Bhavesh Khubnani	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
55	Devashish Gopalani	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
56	Divya Manoj	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass



57	Ishma Amin	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
58	Mehak Katra	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
59	Sanika Chavan	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
60	Saurabh Satavalekar	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
61	Shreya Patil	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
62	Stevart Lobo	COMPUTER	D7C	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
63	Soham Sapkal	ELECTRONICS	D6A	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
64	Aniket Shinde	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
65	Anirudh Iyer	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
66	Ashish Gangaramani	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
67	Himanshu Chandnani	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
68	KHUSHBOO CHANDNANI	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
69	Moksh Manchandani	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
70	Nikita Talreja	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
71	Pranali Patil	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
72	RAJ MADHESHIA	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass



73	Rekha Gupta	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
74	SALONI KADAM	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Absent
75	Shivani Jadhav	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Fail
76	Tejashree Patil	INFORMATION TECHNOLOGY	D10	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
77	Abid Inamdar	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	JUNE 3RD WEEK	Pass
78	Aishwarya Bhavsar	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
79	Bhavika Adnani	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
80	Dipshi Shetty	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
81	Hema Lulla	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
82	Inderjeet Saluja	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
83	Isha Shetty	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
84	Manisha Udasi	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
85	Neha Baranwal	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
86	Priya Vidhrani	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
87	Sagar Ahuja	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
88	Sahil Mirchandani	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass



89	Sneha Roundhal	INFORMATION TECHNOLOGY	D15	CYBER & MOBILE SECURITY	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
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SR. NO.	NAME OF THE STUDENT	BRANCH (CHOOSE ONLY 1 OPTION)	DIVISION	CERTIFICATION ENROLLED FOR (CHOOSE ONLY 1 OPTION)	WORKSHOP EXECUTION SLOTS (CHOOSE ONLY 1 OPTION)	Remark
1	ADITYA GUDAL	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
2	Aditya Shrivastava	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
3	Anuja Kumthekar	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
4	Anvita Rai	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
5	Apeksha Kulkarni	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
6	Bhavesh Bhambhani	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
7	Dhaval Potdar	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
8	HEMANT WAKCHAURE	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
9	Kartik Agashe	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
10	Kshitija Phatangare	ELECTRONICS	D11A	IOT	JUNE 3RD WEEK	Pass
11	Mansi Mahalunge	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
12	mitesh khedekar	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
13	Narendra Walawalkar	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
14	Nikita Joshi	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent



15	Nishant Hirlekar	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
16	Prachi Kothawade	ELECTRONICS	D11A	IOT	JUNE 3RD WEEK	Pass
17	prajakta paranjape	ELECTRONICS	D11A	IOT	JUNE 3RD WEEK	Pass
18	Rhuta Patki	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
19	Rutuja Patil	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
20	Sai Prahladh	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
21	Samarpita Choudhuri	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
22	SIDDHANT YEOLE	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
23	Soham Sawant	ELECTRONICS	D11A	IOT	JUNE 3RD WEEK	Pass
24	Sudipta Dinda	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
25	varad tole	ELECTRONICS	D11A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
26	Jayanti Jha	ELECTRONICS	D11B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
27	Lairai Karnik	ELECTRONICS	D11B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
28	madhura shetti	ELECTRONICS	D11B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
29	Riya Maheshwari	ELECTRONICS	D11B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
30	Siddhi Pawar	ELECTRONICS	D11B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
31	Swathi Nair	ELECTRONICS	D11B	IOT	JUNE 3RD WEEK	Pass
32	ZOHEB SHAIKH	ELECTRONICS	D11B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
33	Himanshu Jahagirdar	ELECTRONICS	D6A	IOT	JUNE 3RD WEEK	Absent
34	Hrishikesh Warriar	ELECTRONICS	D6A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
35	Sachin Nair	ELECTRONICS	D6A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail



36	Aditya Patil	ELECTRONICS	D6B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
37	Anurag Malwee	ELECTRONICS	D6B	IOT	JUNE 3RD WEEK	Absent
38	Prathamesh Khandekar	ELECTRONICS	D6B	IOT	JUNE 3RD WEEK	Pass
39	Abdul Rahman Syed	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
40	Abhishek Belgaonkar	EXTC	D14A	IOT	JUNE 3RD WEEK	Pass
41	ajay gulabani	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
42	AKSHAY YADAV	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
43	AMAN PANDEY	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
44	Amey Parab	EXTC	D14A	IOT	JUNE 3RD WEEK	Absent
45	aniket kannalu	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
46	Deep Bhattacharjee	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
47	Deepti Nimbalkar	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
48	Gunjan Dipakwar	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
49	Harsh Janyani	EXTC	D14A	IOT	JUNE 3RD WEEK	Pass
50	JANHAVI PARTE	EXTC	D14A	IOT	JUNE 3RD WEEK	Pass
51	Kajal Yadav	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
52	Kajal Shamdasani	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
53	Kalpesh Kolhe	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
54	KARAN KHUBANI	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
55	MANISHA JANANI	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent



56	MAYURI MOORTHY	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
57	Mohammed Zaid Salyed	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
58	MONICA ASWANI	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
59	Namrata Dialani	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
60	NIKITA GHARGE	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
61	NIKITA DHEMBRE	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
62	Nishant More	EXTC	D14A	IOT	JUNE 3RD WEEK	Pass
63	Ojaas Hampiholi	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
64	Prathamesh Sawant	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
65	Priyanka Shirsat	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
66	RICHA GUPTA	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
67	ROHIT KUMAR	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
68	ROHIT MUNGEKAR	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
69	SAMIKSHA THIKEKAR	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
70	Sanket Ekhande	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
71	SAYALI BODAS	EXTC	D14A	IOT	JUNE 3RD WEEK	Absent
72	Shivam Sehgal	EXTC	D14A	IOT	JUNE 3RD WEEK	Pass
73	SHIVANI CHAUDHARI	EXTC	D14A	IOT	JUNE 3RD WEEK	Absent
74	SHRADDHA GHANDAT	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
75	Shweta Bulchandani	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent



76	SIMRAN DASWANI	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
77	SUYASH NACHANKAR	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
78	Varsha Gole	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
79	Yash Jadhav	EXTC	D14A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
80	Abhijit Kothawade	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
81	Abhishek Pinjani	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
82	Aditya Jaiswal	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
83	Apoorva Sahu	EXTC	D14B	IOT	JUNE 3RD WEEK	Pass
84	Bhargavi shelte	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
85	Garima Bhardwaj	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
86	Jeenesha Mansharamani	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
87	Karan Chotlani	EXTC	D14B	IOT	JUNE 3RD WEEK	Absent
88	Kiran Chhatwani	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
89	Kshitija Chavan	EXTC	D14B	IOT	JUNE 3RD WEEK	Pass
90	Mahesh Khetpal	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
91	Manasi Berde	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
92	Neha Pote	EXTC	D14B	IOT	JUNE 3RD WEEK	Pass
93	Nikita Gurnani	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
94	Pradeep Gurbani	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
95	Pratik Talekar	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent



96	Ranjeetkumar Yadav	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
97	Rohit Kumaravelan	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
98	SAARVIKA BAJPAI	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
99	Sakshi Patil	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
100	SARVESH DESHPANDE	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
101	Shazmeen shaikh	EXTC	D14B	IOT	JUNE 3RD WEEK	Pass
102	Shruti Pawar	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
103	Siddharth Nandargi	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
104	Yash Korgaonkar	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
105	Yash Patil	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
106	Yogita Thakur	EXTC	D14B	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
107	AAKASH MORE	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
108	Akanksha Kamble	EXTC	D14C	IOT	JUNE 3RD WEEK	Absent
109	Kunal Suryawanshi	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
110	Mayur Pawar	EXTC	D14C	IOT	JUNE 3RD WEEK	Pass
111	Minal Marathe	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
112	Nambinachiar Devendran	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
113	Prajakta Meher	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
114	PRIYANKA NARALKAR	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
115	Rishabh Addu	EXTC	D14C	IOT	JUNE 3RD WEEK	Pass



116	Ritika Koli	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
117	Rohan Sukhadare	EXTC	D14C	IOT	JUNE 3RD WEEK	Pass
118	RUCHITA BHATADE	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
119	SAAD ANSARI	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
120	Sagar Gawade	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
121	Samruddhi Manjrekar	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
122	SANSKRUTI KANADE	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
123	Siddhant Wadekar	EXTC	D14C	IOT	JUNE 3RD WEEK	Pass
124	Tanuj Patil	EXTC	D14C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
125	Amol Shinde	EXTC	D6A	IOT	JUNE 3RD WEEK	Absent
126	Aditi Kalmady	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
127	ADITYA KAMATH	EXTC	D9A	IOT	JUNE 3RD WEEK	Fail
128	AKSHARA SARFARE	EXTC	D9A	IOT	JUNE 3RD WEEK	Absent
129	ANAHTA GOSWAMI	EXTC	D9A	IOT	JUNE 3RD WEEK	Absent
130	Debojyoti Deb	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
131	Dhananjay Tambade	EXTC	D9A	IOT	JUNE 3RD WEEK	Fail
132	MAYURESH NAVARE	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
133	NAYAN PATIL	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
134	NIDHI NAYAK	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
135	Pooja Gupta	EXTC	D9A	IOT	JUNE 3RD WEEK	Fail
136	PRERNA PANDEY	EXTC	D9A	IOT	JUNE 3RD WEEK	Absent
137	Rajeshwari Kurhade	EXTC	D9A	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
138	SANCHIT AGARWALA	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass



139	Shifa Shaikh	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
140	VENKATESH MUDALIAR	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
141	VINEET SREERAM	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
142	Vivek Aswal	EXTC	D9A	IOT	JUNE 3RD WEEK	Pass
143	Aditya Sharma	EXTC	D9B	IOT	JUNE 3RD WEEK	Pass
144	Prachi Jain	EXTC	D9B	IOT	JUNE 3RD WEEK	Pass
145	Ankita Patil	EXTC	D9C	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
146	DHANRAJ KATKAR	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Pass
147	dhaval shinde	INSTRUMENTATION	D13	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Absent
148	HARI SHAH	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Pass
149	Monica Sridharan	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Pass
150	rajiv kori	INSTRUMENTATION	D13	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
151	Samarth Asnani	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Absent
152	Sangeeta Maurya	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Pass
153	Shashank Chandrasekaran	INSTRUMENTATION	D13	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Pass
154	Shubham Mandhare	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Pass
155	SWARNA SHENOY	INSTRUMENTATION	D13	IOT	JUNE 3RD WEEK	Pass
156	Isha Gajjar	INSTRUMENTATION	D8	IOT	JUNE 3RD WEEK	Absent



157	Prabhakar Chaubey	INSTRUMENTATION	D8	IOT	MARCH END I.E. 29TH, 30TH & 31ST MARCH	Fail
158	Prithviraj Billava	INSTRUMENTATION	D8	IOT	JUNE 3RD WEEK	Fail
159	Rahul Ghorpade	INSTRUMENTATION	D8	IOT	JUNE 3RD WEEK	Fail
160	Saurav Vijendran	INSTRUMENTATION	D8	IOT	JUNE 3RD WEEK	Fail
161	Sujit Kumar Sharma	INSTRUMENTATION	D8	IOT	JUNE 3RD WEEK	Pass

https://docs.google.com/spreadsheets/d/1nt9vngBWmoC5plvkUUE0NfcOuk_MVGzyvCNuz16Pk48/edit?usp=sharing

**Vivekanand Education Society's Institute of Technology
Chembur, Mumbai – 400 074**

A report

On

Industrial Visit to Silvassa, Dadra and Nagar Haveli .

(From 6th January 2018 to 8th January 2018)

Organized by Vihang Leisures Inc.

Compiled by

Hitesh Jetwani(D6B)

On behalf of Class D6B Electronics.

Industrial Visit Incharge

Dr. Asawari Dudwadkar

(Asst. Prof. ETRX Dept.)

Mr. Abhay Kshirsagar

(Associate Prof.)

Mrs. Rakhi Jadhav

Mr. Mayur Narkhede



*Approved
In charge*

The entire was tour organised and managed by Vihang Leisures Inc. The accommodation arrangements were made at Hotel Pluz and Treat resort .

The students travelled by train from Mumbai to Ahmadabad and to and fro. Travelled by bus inside the city for three days for the local visits to industries and other places.

Following are the industries that the students visited.



The students from Electronics and Instrumentation visited the above mentioned industry i.e Sudhir Power Ltd., Gujarat, an ISO Certified company.

Popularly known as **Sudhir Power** ,Founded in 1973, Sudhir Group is committed to new and innovative technology and strives to develop breakthrough products to meet the ever changing need of power industry.

The mentors there explained the students about the services they provide, such as testing of instruments, [Testing](#), [Calibration](#), [Consultancy and Certification](#), [Training](#), [Energy Auditing](#), [Third party inspection](#), [Development Assistance](#) and R&D.

The Company has a wide blue-chip customer base and operates through multiple manufacturing facilities across India. The product line focuses on 7.5KVA – 3000 KVA Diesel & Gas Generators, 100 KW Solar Panels, Oil & Dry Type Transformers, HT 11KV & 33KV Panels & LT Panels, Packaged Substations and Turnkey EPC contracts covering electrical and mechanical services.

Significant collaborations, technical know-how support and license agreements with selected industry giants, including Cummins for Generators, Schneider for Packaged Sub Stations, Schneider for HT Panels have helped Sudhir to achieve unprecedented growth and become a name to reckon with.

Departments served at the facility

- Manufacturing
- Service (post and pre sale)
- Project/Design
- Sales and marketing
- Finance and HR
- Project Execution

Electronics and Electrical Testing

- Component Testing
- Equipment Testing
- Industrial Equipment
- Medical Equipment
- Environmental Testing
- Safety Testing
- EMI/EMC testing
- PV panel Testing

Software and System Testing

- Software Process Assessment
- Information Security Testing and Assessment

Application oriented R&D activities are undertaken by Sudhir Power, varied industry groups, for quality enhancement of products/processes.

It is recognized by DSIR (Dept of Scientific & Industrial Research), Govt. of India. It has been involved in various R & D projects.

Electricity generation by non conventional energy resources, e.g. domestic wind mill, Solar Pv – on grid & off grid testing











VOLTAS LIMITED

Voltas is India's largest air conditioning company, and one of the world's premier engineering solutions providers and project specialists.

Founded in India in 1954, Voltas Limited offers engineering solutions for a wide spectrum of industries in areas such as heating, ventilation and air conditioning, refrigeration, electro-mechanical projects, textile machinery, mining and construction equipment, water management & treatment, cold chain solutions, building management systems, and indoor air quality.

The Company's strengths lie principally in

- Management and execution of electro-mechanical projects, including air conditioning and refrigeration
- Sourcing, installation and servicing of diverse technology-based systems serving Indian industry through representation of global technology leaders

Their products include :

HVAC

Heating, ventilation, and air conditioning (HVAC) is the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. HVAC system design is a subdiscipline of mechanical engineering, based on the principles of thermodynamics, fluid mechanics, and heat transfer. Refrigeration is sometimes added to the field's abbreviation as HVAC&R or HVACR, or ventilating is dropped, as in HACR (as in the designation of HACR-rated circuit breakers).

HVAC is an important part of residential structures such as single family homes, apartment buildings, hotels and senior living facilities, medium to large industrial and office buildings such

as skyscrapers and hospitals, on ships and submarines, and in marine environments, where safe and healthy building conditions are regulated with respect to temperature and humidity, using fresh air from outdoors.

Air Conditioning

Voltas is India's largest air conditioning company, established by tata company as an specialist sub-company and as a result they are a project specialist.

and they have taken projects for Air conditioning from not only the interior of an occupied space like offices , buildings , homes and institutions amongst others , to improve the comfort of occupants in both domestic and commercial environments. In domestic environments This process is most commonly used to achieve a more comfortable interior environment, typically for humans or animals; however, air conditioning is also used to cool/dehumidify rooms filled with heat-producing electronic devices, such as computer servers, power amplifiers, and even to display and store artwork.



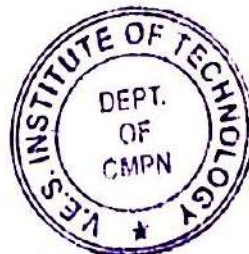


Asha



Industrial Visit Report 2018

A complete report based on an industrial visit organised by Vivekanand Education Society's Institute of Technology (VESIT), for the students of computer engineering in order to enhance their knowledge and practical experience and let them have an overview of the activities related to manufacturing and product development carried out by Sudhir Power Generators company and RR Kabel company.



Mannat

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4	Details of journey	5-6
5	Group Observations	7
6	Conclusions and References	8
7	About Group	9

Overview of the Trip

Vivekanand Education Society's Institute of Technology (VESIT) had organised an industrial visit on 4th Jan 2018 to Sudhir Power 171 kms from VESIT college and RR Kabel on 5th jan 2018 which is 165 km from VESIT college. Both located in industrial sector in Silvassa, Dadra and Nagar Haveli, Maharashtra for engineering students.

Objectives of visit

The industrial visit SILVASSA was organised by VESIT for engineering students. The guiding staff on site was very supportive to all students. This visit will surely help us in our future practical life and bring a positive change in real life problem scenarios.

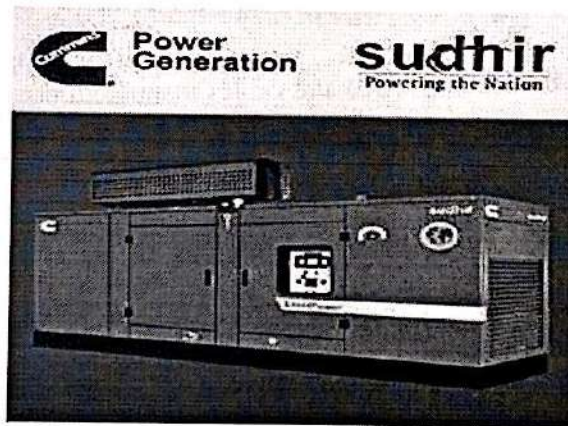
To enhance the knowledge of students.

To bring awareness about power generators, types of cables, their use at different areas.

To understand the process of product development in the industry.

Company Profile:

1. Sudhir Generators:

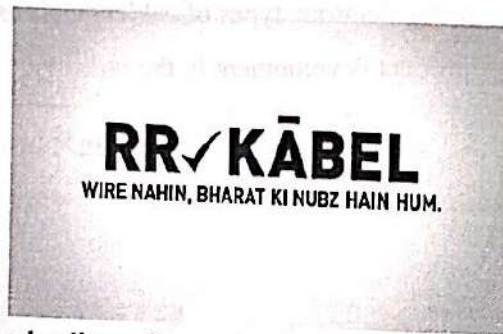


- Sudhir Power Ltd. stands in the vanguard of progress, in each one of its chosen spheres. It dominates its segment with best-of-the-breed, silent diesel and gas Gensets ranging from 7.5 kVA – 3000 Kva, powered by Cummins engine. Sudhir has forged a formidable 30 years partnership with Cummins to become India's largest Genset manufacturer. Sudhir has the distinction of being the first genset company in the country to comply with the latest CPCB II norms for air and noise pollution.



- These are complimented by an alliance with Schneider Electric , France for HT 11kV & 33kV Panels & LT Panels and BIOSCO designed– Packaged Substations up to 24 kV. Wherein Transformers range extends upto 20 MVA, 33kV for Oil type transformers & 6.5 MVA, 22 kV for Dry type VPI Transformers, upto 10 MVA, 33 kV for Cast Resin Transformers & MLRE – Mould-less Resin Encapsulated transformers.
- Considering the need and large demand for renewable energy solutions in India, and abundant availability of its resources, Sudhir is also developing large commercial & utility scale photovoltaic (PV) solar power plants.

2. R R Kabel:



- As one of the leading wires and cables manufacturers in the world, RR Kabel are also the pioneers of wire design, technology and applicability. The cutting edge technology and research has continually enhanced the efficiency, reliability and safe conduction of electricity. This in turn supported the core of our engineering endeavour, which is to guarantee safe environments everywhere – offices, retail spaces, industrial plants and residences. Ever since inception, R R Kabel have been inspired by the promise of a better life, which innovative engineering promises. This inspiration has transformed into a relentless pursuit, which has seen us engineer and manufacture a colossal range of products apposite for prodigious industries. Products have been engineered to survive harshest of environments like the crushing, high pressure of the ocean or sweltering heat or cold of arid lands.
- Wires and cables permeate through every aspect of our modern lifestyle, which commands uninterrupted and efficient electricity supply. From planes to trains, telecommunication to entertainment, satellites to Wifi – wires are the



omnipresent, unsung heroes pulsating with electricity, bringing surroundings to life and bridging distances. Diverse product offerings of R R Kabel are nimble and energy efficient, minimizing losses, tending security and earning you savings through every millimetre it pervades. In this 20-year journey so far, it have been lauded with several product and system certifications and awards that speak for quality and dependable wires, making it one of the best quality wire and cable company in India and abroad. Yet, we at RR Kabel, will not cease to excel in the wire and cable industry, through our diligent efforts and commitment to the creation of the best.

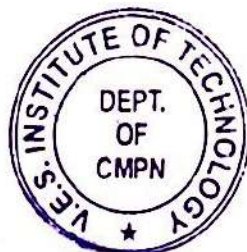
Details of our Journey:

Day 1 (4th January 2018)

- We departed from VESIT Campus at 7:30 a.m. in the morning and reached Pluz Resort by 12:30 p.m. in afternoon. As we reached we were offered lunch and later moved ahead for the first industry (Sudhir Generators) to visit.
- We reached Sudhir Generator by 3:30 p.m., where we were given a tour of the entire assembly process of the manufacturing unit and were explained the process in detail.
- We were told about the history of the company and how and when they progressed by manufacturing different types of power generators using different energy sources.
- The working of the generators along with its components were explained in detail. We left from Sudhir Generators by 4:30 p.m.
- Later we were taken to sight seeing, where we visited places like museum, art gallery, Shri Swami Narayan temple, church and then were taken back to hotel for night stay.

Day 2 (5th January 2018)

- We departed from Pluz Resort at 8.30 a.m. for the second industry (R R Kabel) to visit. We were taken to a Hanuman temple that was on the way and then reached the premises of R R Kabel by 11:00 a.m.



- At R R Kabel, we were split into two groups. Second year students were first made to attend the presentation, while the third year students were taken for the field visit. Later the third year went for presentation, while the second year attended the presentation.
- At the presentation, we were shown various products made by the company and also was given a brief information about the history and success of the company. All the aspects from Marketing to Management, from Safety to Security, were explained to the students.
- At the field visit, the entire technology of making the products were explained along with the machinery used for the same.
- We left from R R Kabel by 2:00 p.m. , went for Lion Safari then to the Hotel for Stay.
- The day was accompanied with a DJ Night in the Hotel Premises.

Day 3 (6th January 2018)

- Students were allowed a swimming pool visit from morning 8:00 am to 10:00 am, after which we checked out of the Pluz Resort and were taken to enjoy the beauty of Nakshatra Garden.
- We were escorted back to Pluz Resort for Lunch, after which we left for visit to dudhni lake that was on the way back to Mumbai.
- We reached VESIT campus by 10:30 p.m. and completed the process of Industrial Visit Successfully.



Group observations and learnings:

The following is a list along with photographs and specifications of generators and cables which we had observed during our industrial visit.

- There are number of activities conducted by Sudhir Power Generators like loading and unloading activities of materials like metals and machine parts.
- All the loading and unloading, packaging activities are done by machines and labors.
- There is proper management, utilization of manpower and machines.
- All the labors are active, alert and attentive to their work on machines.
- In time of our visit we have observed different types of machines mentioned below in details.

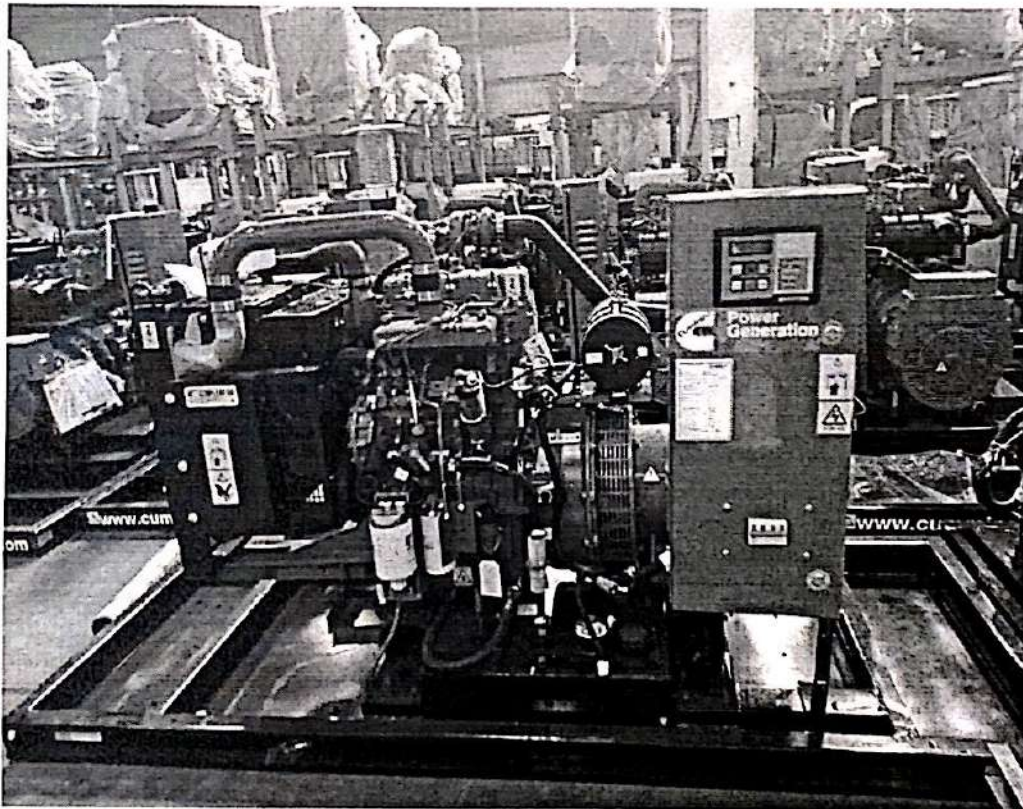
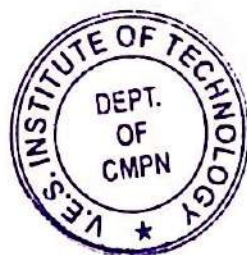


Fig 1: A Power Generator at Sudhir Power Generator

- Eco-friendly power generation plant at Sudhir Power as it uses diesel and produces sound of 70db that's why eco-friendly. There are multiple units like : Digitizer, Generator, Transformer, Regulator, Vacuum oven, Punching machine, Bending machine, Welding unit.



- At RR Kabel manufactures cables. Varied types of cable wires are manufactured here including Control, Data, Instrumentation, Heat Resistant and Flame Retardant, Auto, Power, Drag Chain & Servo, Silicon Cables. we observed that huge coiled copper wire of 32 bunch of 8mm diameter is loaded. Where 32 copper wire threads are combined together to make a single copper thread by going through twisting machine, Heating machine, binding machine, cooling, insulation. Based on required length and diameter wire is produced and sent for packaging.

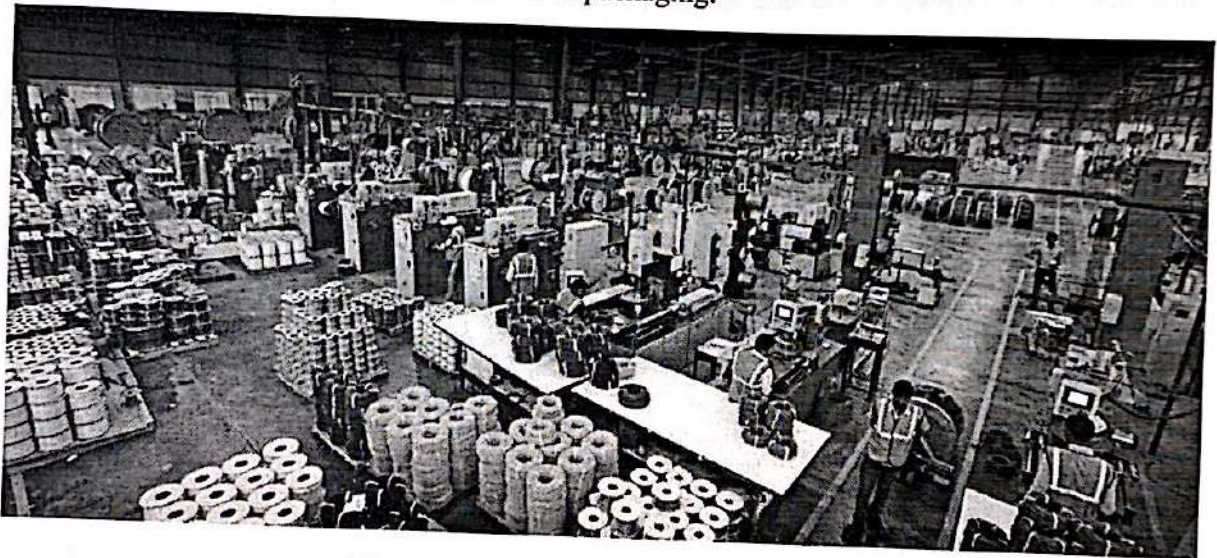


Fig 2: Cable manufacturing at RR Kabel

Conclusion:

- We are thankful for faculties for organizing such an informative event for students to develop practical skills with an opportunity to research on the company.
- It was a Wonderful experience for all students as well for staff. Every student was very cooperative to each-other as well to the faculties.
- Students were enriched with information related to different products, practical stimulation and were made aware about its usefulness for the society.
- We (all students and staff member/s) are very much thankful to Dr. (Mrs.). J. M. Nair, Principal and Mrs. Vijaylaxmi M., Vice Principal of Vivekanand Education Society's Institute of Technology and Dr. (Mrs.). Nupur Giri, Head of Computer Engineering Department for giving their valuable support. We are also very much thankful to our office staff for helping us with the process w.r.t accounts and other staff for their cooperation during the visit.

References



Following channels helped in data gathering for this report.

- <http://www.sudhirpower.com>
- <http://www.rrkabel.com>
- Wikipedia
- Points noted by us at the time of visit

Faculties Accompanied for the visit

1. Mrs. Arthi C. I.
2. Mr. Richard Joseph
3. Ms. Kajal Jewani
4. Mrs. Yugchhaya Dhote
5. Mrs. Snehal Mane
6. Ms. Swati Sharma
7. Ms. Mukesh Yadav
8. Mrs. Sheetal Balsaraf

APPENDIX

Pictures clicked by faculties during visit

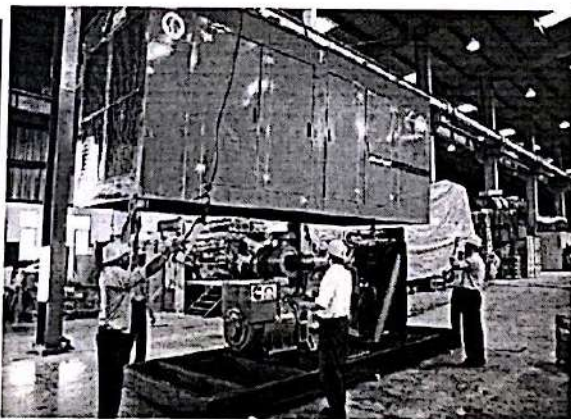
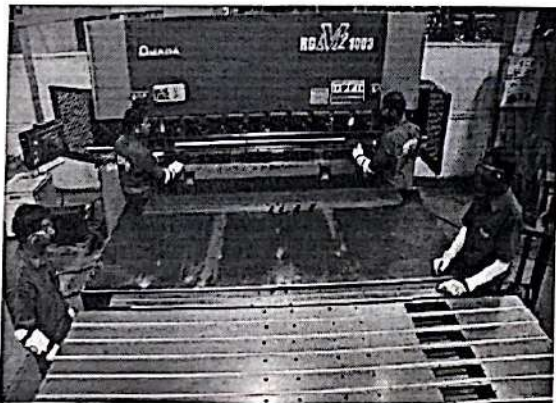


Fig 1. Punching Machine to cut metal sheets into different shapes Fig 2. Covering generator using heavy duty crane





Fig 3. Faculties and students at Sudhir



Fig 4. Faculty and students at RR Kabel



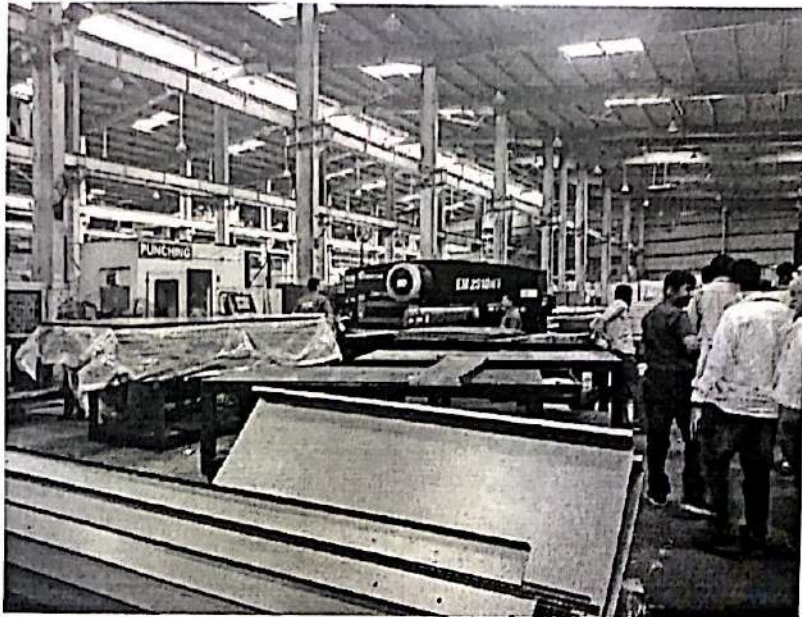


Fig 5. Inside Sudhir



Fig 6. Ready Product of RR Kabel

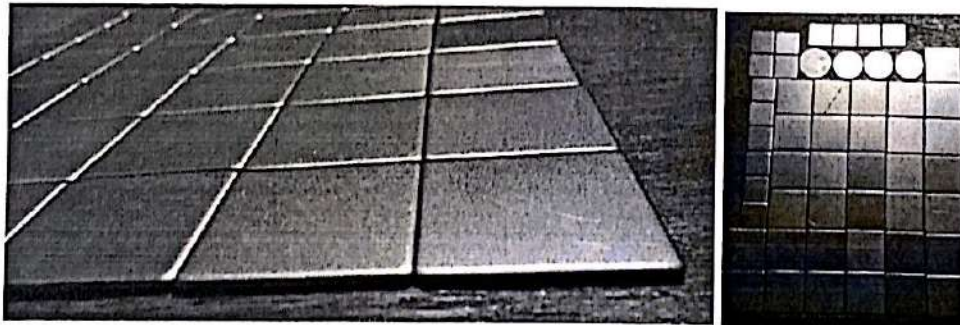
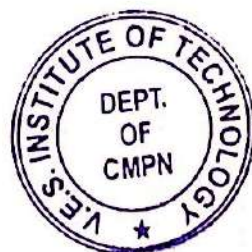


Fig 7. Sample 0.1mm thickness metal pieces of different shapes



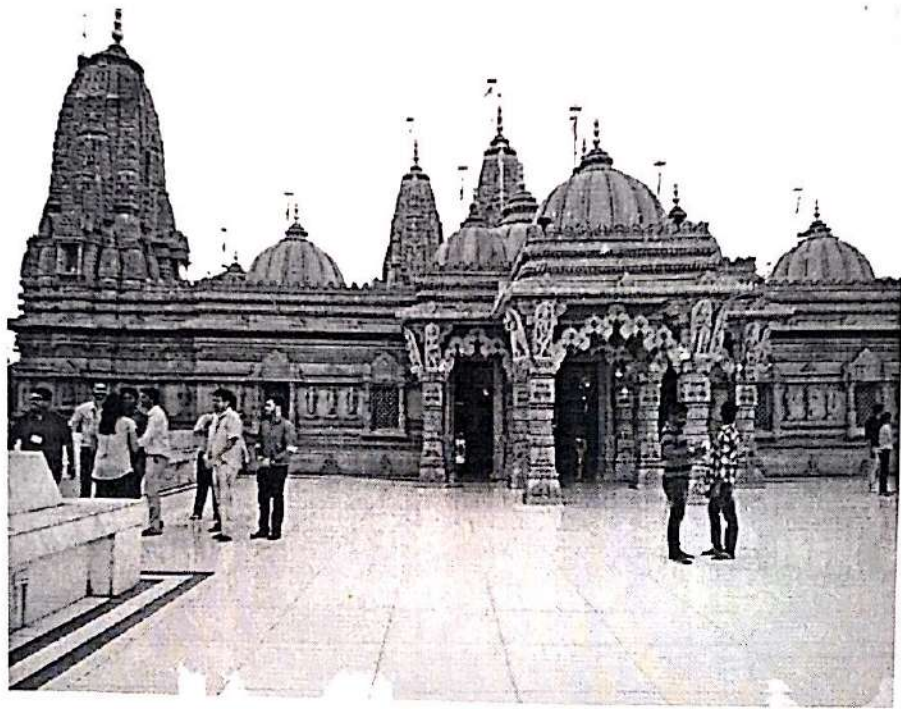


Fig 8. Inside view of Shri Swami Narayan Mandir at Silvassa



Fig 9. Sunset at Shri Swami Narayan Mandir at Silvassa



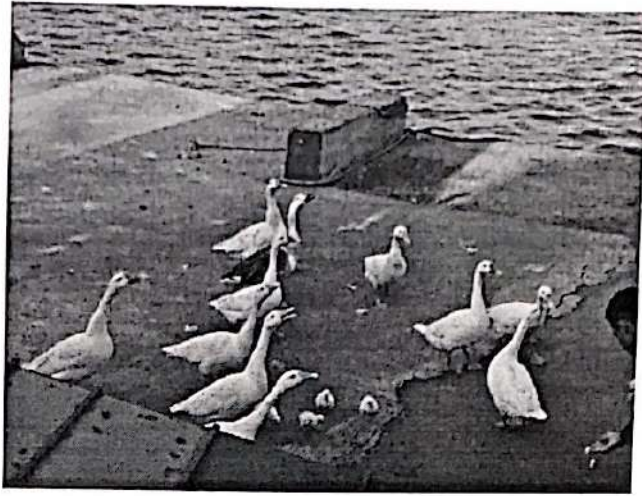


Fig 10. At Dudhni Lake



Fig 11. Silvassa Church, Sayli Rd, Dadra and Nagar Haveli





Fig 12. Nakshatra Garden, Silvassa

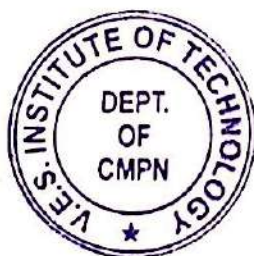


Fig 13. Lion at Lion Safari





Fig 14. Industrial Visit



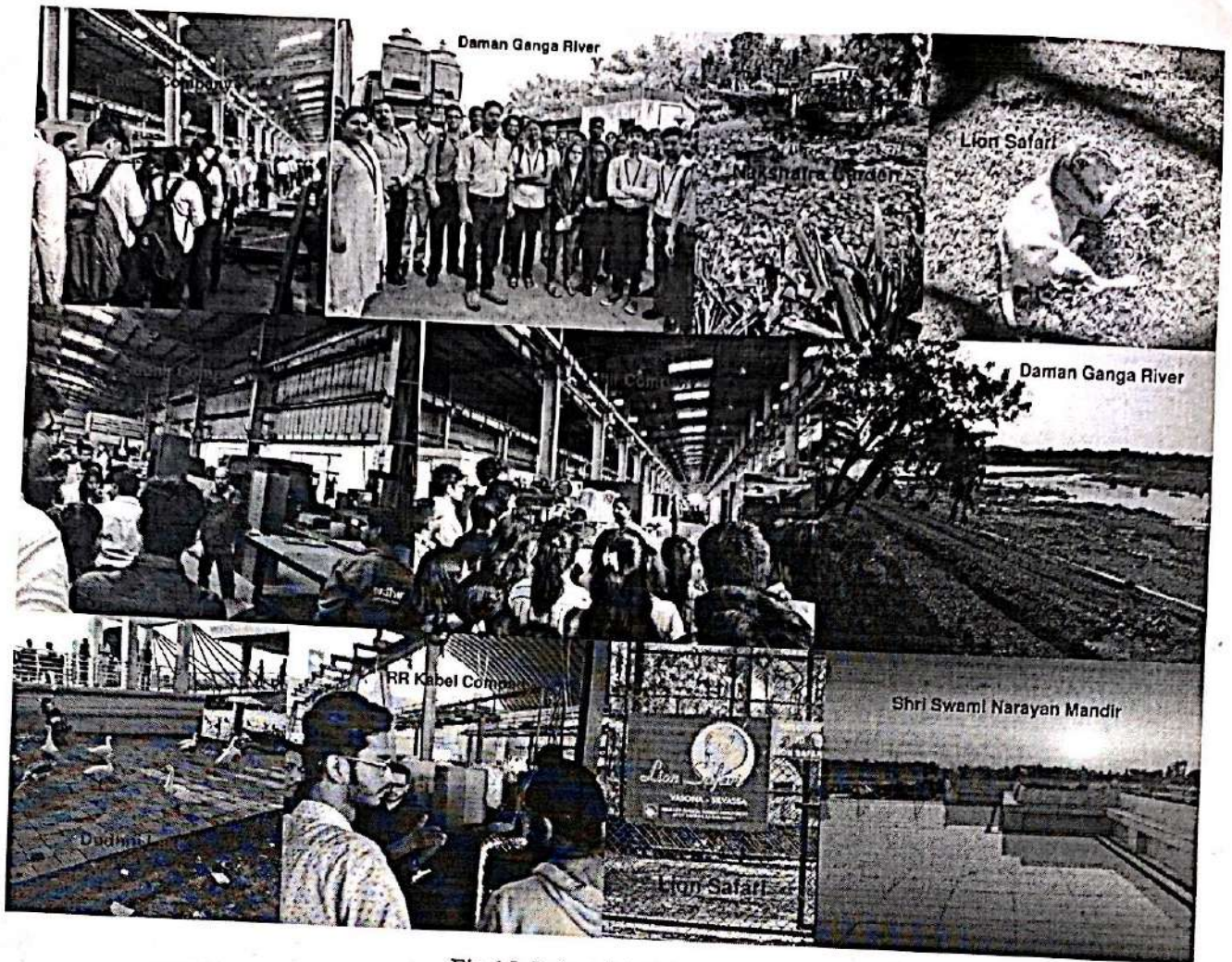


Fig 15. Industrial visit



Vivekanand Education Society's Institute of Technology
Chembur, Mumbai – 400 074

A report

On

Industrial Visit to Silvassa, Dadra and Nagar Haveli .

(From 6th January 2018 to 8th January 2018)

Organized by Vihang Leisures Inc.

Compiled by

Murlidhar Sharma (D15)

On behalf of Class D15- INFT

Industrial Visit Incharge

Mrs. Roopkala R

(Assistant Prof., INFT Dept.)

Mrs. Asha Bharambe

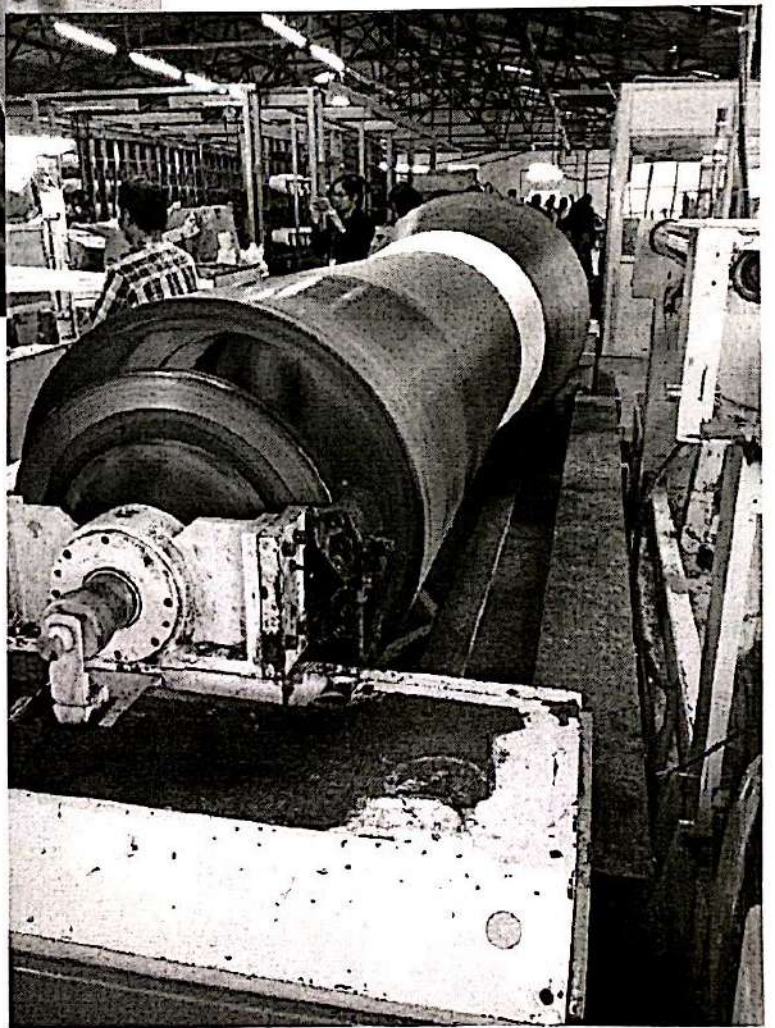
(Associate Prof., INFT Dept)



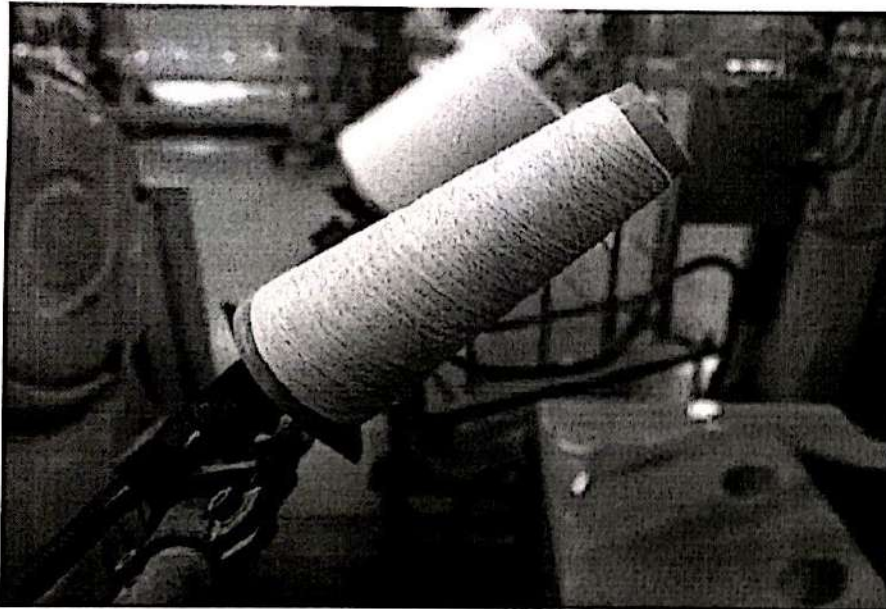
Students of Third Year INFT batch went to Alok Industries Limited and Bombay Rayon Fashions Limited on their Industrial Visit. They visited Bombay Rayon on the first day of the trip i.e. 6th January 2018 and Alok Industries on the third day. The students learned about the process of weaving of cloth and how it is converted from yarn to fabric or cloth.

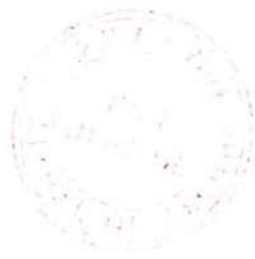
On the first morning, the students went to Bombay Rayon Fashions Limited. The students learned about the various processes used to strengthen a yarn or thread before it can be used for making fabrics. The instructor explained the importance of spooling and twisting of the yarn as the characteristics of the yarn depend on the amount of twist given to the fibres. Bombay Rayon majorly dealt with cotton fibres as most of the products made in the factory were cotton based. The students were allowed to explore the weaving process on their own, as they got an opportunity to see various machines weaving cloth of various colours and fibres. The students later cleared the various doubts they had regarding the intricacies involved in the weaving process from the instructor.

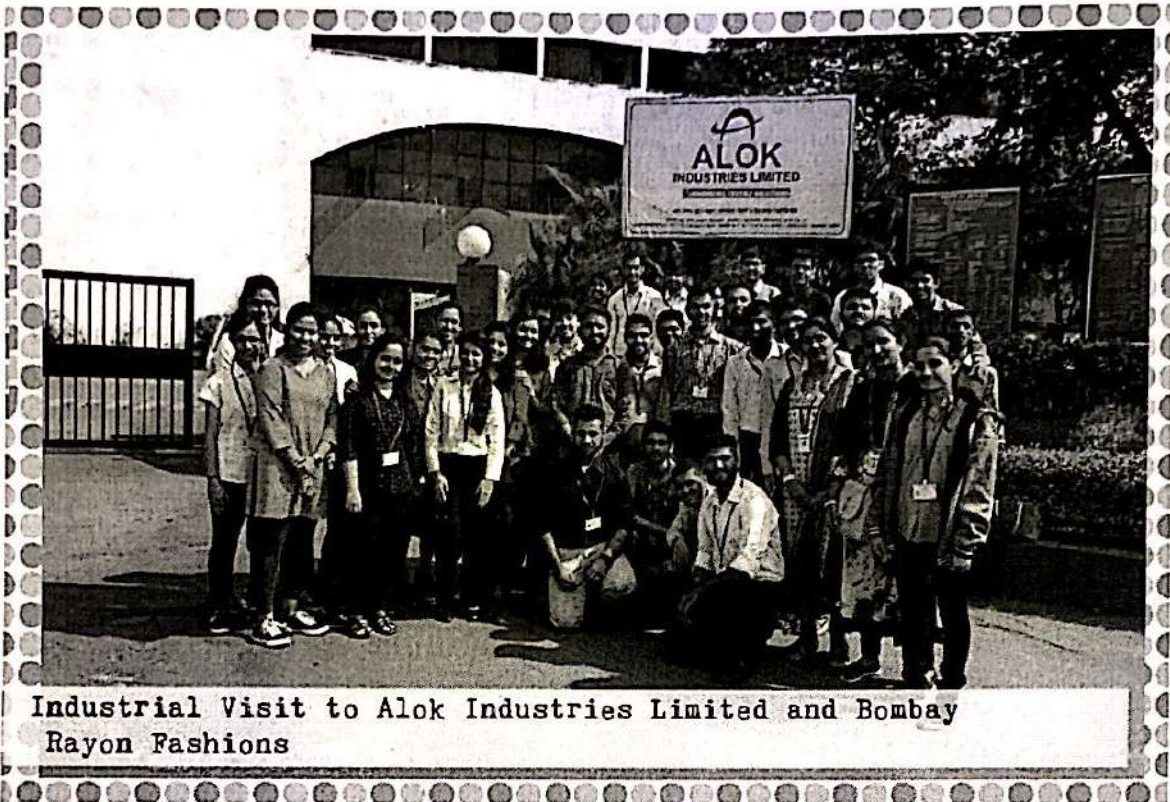




The third day of the trip was focused on the second industry to be visited, after a day of sightseeing and safari. Ashish Patel, the instructor during the visit at Alok Industries, engaged the students from the beginning. This visit was largely focused on the weaving process, but the fact that Alok Industries was an ISO certified company was highlighted in the high standards maintained by them. The students were taken in small batches to explain to them thoroughly, the minute details of the weaving process such as warp and weft. The huge machines, made by Toyota, were operated at a slower pace to allow the students to see the weaving process which was also explained by Ashish as it was happening. This resulted in a deeper understanding of the weaving process as the students related it to the processes, they observed on the first day. The visit was concluded with Ashish answering the students' questions in detail and giving them helpful advice. Some students also visited the retail outlet in Alok Industries to purchase a few of their products as they were impressed with the quality of cloth offered at low prices.







Industrial Visit to Alok Industries Limited and Bombay Rayon Fashions



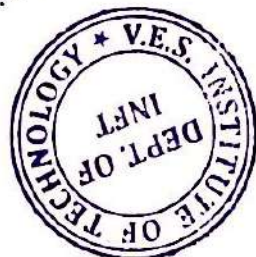
BRFL
Bombay Rayon Fashions Limited



ALOK
INDUSTRIES LIMITED

INNOVATIVE TEXTILE SOLUTIONS

BRFL
(Asha. Bharambe.)





Field Trip and IV arranged for Students

(2017-18)

Name of Department	Instrumentation
Date of IV	6 th to 8 th January, 2018
Name and address of Industry	Sudhir power and Voltas, Silvassa
Class Visited	2 nd and 3 rd Year
Number of students visited	55
Number of staff visited	Mrs. Amudha Senthilkumae and Mr. Kader sheikh
Profile of Industry (in short)	<p>Sudhir Power is an Industry leader in the field of setting up Diesel base Captive Power Plants upto 20MW. It stands tall in the Indian Power Generation Sector, providing complete turnkey Electrical solutions from GENERATION, DISTRIBUTION to ELECTRIFICATION.</p> <p>Voltas Limited is an Indian multinational engineering, HVAC, air conditioning, and refrigeration company based in Dadra and Nagar Haveli, Silvassa, India. The company makes equipment for industries in areas such as heating, ventilation and air conditioning, refrigeration, construction equipment,</p>



S. Adh
Amudha Senthilkumae



Vivekanand Education Society's Institute of Technology

Approved by AICTE & Affiliated to University of Mumbai

	materials handling, water management, building management systems, indoor air quality and chemicals. It also provides machinery & servicing in Textile and Mining field.
Objective of Visit	<p>To understand the power generation system, solar power system.</p> <p>To understand testing of instruments, different manufacturing techniques of Air conditioners.</p>
Outcome of Visit	<p>At Sudhir, students understood designing and manufacturing of PV Solar modules, EPC Turnkey Solutions, Grid connected Utility and off grid Industrial & Residential Projects</p> <p>At Voltas, students gain the knowledge of engineering skills and knowledge base are seen in advanced design and development, as well as adaptation and improvement of products and equipment.</p>
Link of Report and photos	<u>Silivasa Report</u>



S. Adh
Amudha - S

Vivekanand Education Society's Institute of Technology

Chembur, Mumbai – 400 074

Department of Instrumentation

Silvassa Industrial Visit Report

(From 6th January 2018 to 8th January 2018)

Organized by Vihang Leisure

Faculty Members- INST Department

Amudha senthilkumar (Assistant Prof., Industrial Visit Incharge)

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The entire tour was organised and managed by Vihang Leisure. All the students were accommodated in two different hotels, Hotel pluz and Treat Resort. Bus was mode of transportation for the entire IV.

Following are the industries that the students visited.

The students from Electronics dept, Information Technology dept and Instrumentation dept visited the industry i.e Voltas Limited, Silvassa.

Voltas is one of the world's premier engineering solutions providers and project specialists. Founded in India in 1954, the company offers engineering solutions for a wide spectrum of industries in areas such as heating, ventilation and air conditioning, refrigeration, electro-mechanical projects, textile machinery, mining and construction equipment, materials handling equipment, water management & treatment, cold chain solutions, building management systems, and indoor air quality.



S. Add
S. Amudha

With manufacturing units at Dadra and Nagar Haveli, Silvassa, Voltas possesses total capability in the manufacture of room/split air conditioners.



VOLTAS LIMITED

The mentors there explained the students about the services they provide, such as testing of instruments, different manufacturing techniques of Air conditioners. Voltas Limited is an Indian multinational engineering, HVAC, air conditioning, and refrigeration company based in Dadra and Nagar Haveli, Silvassa, India. The company makes equipment for industries in areas such as heating, ventilation and air conditioning, refrigeration, construction equipment, materials handling, water management, building management systems, indoor air quality and chemicals. It also provides machinery & servicing in Textile and Mining field. The Textile division is active from the very onset of the company.

Voltas has modern manufacturing plants spread over an area of over 35,000 square metres, located in Dadra (Union Territory), Silvassa and in other parts of the country respectively. With a total workforce in excess of 800, Voltas' plants manufacture :

- Room ACs
- Commercial refrigerators
- Water coolers
- Air conditioning equipment for central plant projects

Voltas' engineering skills and knowledge base are seen in advanced design and development, as well as adaptation and improvement, of products and equipment. The Voltas approach of intelligent innovation and customized problem-solving is given full play through use of advanced design software. These include the RR programme for coil designing, and AutoCAD Mechanical Series 6 with Solid Modeling package ('Inventor') for alternative design & quick innovation.

State-of-the-art shop floor equipment and manufacturing processes yield products, components and assemblies of high precision and complexity, validated through a rigorous QA

cycle. developmental assistance testing services are carried out as per the requirement of user / customer / manufacturer at EQDC laboratories.

Voltas' operations have been organized into three business clusters. Each of these commands its own well-defined systems and resources for market coverage and service to customers. This policy is followed at all branches, manufacturing units and other locations, overseen-by Locational Ethics Counselors. Location-level initiatives include:

- Periodically conducting both formal and informal sessions on the TCOC
- Linculcating Voltas' ethical values among suppliers, vendors and contractors
- Broadening the perception of the TCOC beyond a set of dos and don'ts
- Encouraging employees to think beyond their normal orientation towards solutions, using case-studies as a teaching tool for greater understanding and participation.



S. Adh
Amudhans

Voltas conducts its relationships and dealings - in business and otherwise - in accordance with the Tata Code of Conduct. This provides a framework for employees to make ethical decisions and take ethical initiatives on their own.

This framework is implemented and monitored by the Company Ethics Counselor, in tandem with an Ethics Committee at Voltas Head Office in Mumbai. They take the necessary steps to create and sustain a work environment in which employees have a clear, common understanding of right and wrong, and feel free to discuss ethical issues and report violations. Systems and processes have been put in place to facilitate the voicing of genuine concerns. The Ethics Counselor, Officers and Ethics Committee promote and facilitate ethical behaviour within the Company, and with all agencies or business partners (including but not limited to customers and vendors) in their dealings with the Company. An environment is created for people to feel free to come forward with any concerns about non-ethical behavior; any such concerns are investigated properly in complete confidence, so that the person/s making the report are protected from any retaliatory actions.

VOLTAS manufacturing plants have all been certified for ISO 9001:2000 by TUV of India. Emphasis is placed not just on product quality and consistency, but on economies and efficiencies which deliver greater customer value for less outlay. The highest priority is given to protection of the environment, with effluent treatment plants which operate continuously around the clock. The statutory norms of Directorate of Industrial Safety & Health (DISH) are strictly complied with.

It's in the very nature of Voltas' core businesses to be actively engaged in today's Green movement. Every day, the need to conserve energy, preserve the ecology and minimise man's carbon footprint become more and more imperative. That's a call which Voltas answers through its products, its services, and its operating principles.



(Some pictures of our visit to Voltas Private Limited ,Silvassa)



S. Adh
Amudh S

sudhir

Powering the Nation

The second industry that we all visited was Sudhir Generators Limited. Sudhir is a name synonymous with Power. An Industry leader in the field of setting up Diesel base Captive Power Plants upto 20MW having its corporate office in Gurugram & revenue of over INR 1400 crores, it stands tall in the Indian Power Generation Sector, providing complete turnkey Electrical solutions from GENERATION, DISTRIBUTION to ELECTRIFICATION.

Founded in 1973, Sudhir Group is committed to new and innovative technology and strives to develop breakthrough products to meet the ever changing need of power industry. The Company has a wide blue-chip customer base and operates through multiple manufacturing facilities across India. The product line focuses on 7.5KVA – 3000 KVA Diesel & Gas Generators, 100 KW Solar Panels, Oil & Dry Type Transformers, HT 11KV & 33KV Panels & LT Panels, Packaged Substations. Sudhir is dedicated to provide quality product and services that enhance our customer's success. Backed by a talent pool of experts of over 2500 employees, 5 state of art manufacturing facilities, 14 Branch offices, international presence and dedicated training & service centres. Sudhir is continuously serving the width and depth of the Indian industry with its power solutions. Sudhir Power is committed to excellence in design and manufacture products under the most stringent quality system complying with international IEC standards that add credibility and superiority to its products and services.

At Sudhir the motto is *Giving The Best to The Customer...* and to do that its products are manufactured on the best of machines and latest technology from across the globe that equip its manufacturing plants. Each plant adheres to the highest international standards in terms of product designing, manufacturing and testing giving the customer a world class quality product.

Sudhir strives to exceed international standards for quality, durability and efficiency through constant improvement in our systems and processes and is highly determined to ensure the safety of our people & equipment so that an accident free environment is maintained. Sudhir Power has the distinction of being the first diesel generator company in the country to comply with the latest CPCB II norms for air and noise pollution. Sudhir has the expertise to successfully meet the power requirements of a wide range of individual and institutional customers. Important sectors for power generation solutions are Telecom, Construction, IT/ITES, Realty, Hospitality, Textiles, Auto & Auto Ancillaries, Food Processing, Data Center, Infrastructure, Pharma and Manufacturing sector. Eco friendly & silent diesel generators to meet your need of generator for home. With state of the art manufacturing unit, Sudhir Power Gneset is manufacturing the best in class diesel generators for the residential use. These generators are designed for our home, residential flat, buildings, cottage, villa or bungalow to meet our power needs at the right time. When it comes to fuel consumption, Sudhir Gensets can save up to 50% of the fuel cost as compared to other brand.

Each unit is tuned for optimum efficiency while operating between 45% and 65% of full load



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(which is the average loading) by delicate proportioning of core and winding losses.

By using CRGO silicon steel mitred cores and paper enamel covered conductors the units are made compact, resulting in lower losses, better regulation and longer life.

Careful design of the core and tank reduces noise level to the minimum. The clamping method adopted helps to keep the optimum properties of the grain-oriented silicon steel, without reducing their mechanical stability. Winding on HT side are provided with sufficient end-turn reinforcement for extra strength. Windings are pre shrunk and impregnated under vacuum with hot dry Transformer oil before assembly to ensure their proper functioning.

Radial as well as axial clearances and cooling ducts provided for the coils add to the safety and uniform cooling of the windings and limbs.

Windings are designed to withstand sufficient thermal, dynamic and electrical stresses induced during operation as well as under short circuit conditions.

Each tank is pressure tested and the exterior surface coated with primer and 2 coats of weather proof paint, the shade being dark grey 1110. 6 of IS-5/1980. The interior is given anti-corrosive protection with oil Hesistant varnish.

Transformers are supplied with first filling of insulating oil conforming to IS-335/1980. HV & LV wound coils are separated by means of fiber glass cylinders & supported on the frame by special porcelain supports. HV coils are made in disc form, using enameled & fiberglass covered copper strips.

All conductors are treated with Polyesteramide resin during covering stage to achieve inter turn di-electric strength of 6-8KV & eliminating trapped mechanical forces during the thermal operating cycle. Indian is densely populated and high solar installation, an ideal combination for using solar power. Solar Plants use photovoltaic (PV) technology to convert solar energy into solar electricity from sunlight.

At Sudhir, designing and manufacturing of PV Solar modules, EPC Turnkey Solutions, Grid connected Utility and off grid Industrial & Residential Projects using solar photovoltaic technology takes place.



S. K. S. S. Anand



The students also visited the following places after the industrial visits

1. Lion Safari. , Deer park ,The Vanganga -Dudhani Lake.

THANK YOU!!!



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Vivekanand Education Society's Institute of Technology

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

Annexure

Title of project:

Investigations and Characterization of Partial Discharge(PD) phenomena in High Voltage Equipment

As a part of research work, it is planned to develop instrumentation systems for characterization of PD pulses as well as for detection and analysis of PD.

I. System for characterization of Partial Discharges:

It is proposed to develop a system which generates PD pulses similar to the actual partial discharge pulses generated during degradation of insulation material subjected to high voltage. The system will incorporate hardware and software required to generate the pulses without the use of high voltage and insulation material. The system will be useful for research workers in the academic institutions and industries for hardware simulation and analysis of PD pulses.

Understanding the physics of PD pulses and software simulation will be carried out in IITB while the design, construction and testing of the actual hardware to simulate the pulses will be implemented in VESIT.

II. System for detection and analysis of Partial Discharge pulses:

It is required to develop a comprehensive system to detect and analyze PD pulses generated during degradation of insulation material subjected to high voltage. A system will be designed and constructed to measure and analyse the various parameters related to PD. The high computational ability of a computer will be utilized for analysis of the parameters measured. Efficient algorithms will be employed for analysis of parameters like amplitude distribution, time distribution, pulse shapes including rise time, fall time, width, etc. The analysis of partial discharge pulses made using this system will be helpful in finding out a parameter or a set of parameters or distributions that will be helpful in predicting the failure because of degradation of insulation material. Such parameters will be identified for reliable prediction of insulation failure using this system.

The instrumentation system required for this purpose will be designed, constructed and tested in VESIT. It will be utilized for testing of actual insulation material and the analysis in IITB laboratory. Inferences will be drawn regarding the failure of the insulator based on these experiments. Further, the enhancement and modification will be made in the system based on the experimentation results done in IITB. Such a PD analyser system will be useful for application in the industry for detection of insulation degradation.

It is planned to publish papers in international journals and conferences based on the above systems designed, constructed and tested at VESIT and on the applications and experimental investigations done in IITB.

VESIT-AIA Competency Development Center

Academic year 2016-17

Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

1. Sensors (P&F)
2. Pneumatics (Festo)
3. Controls and Visualization (Siemens)
4. Motion Control (B & R Automation)
5. Integrated Stand-I and II

Date: 14th July to 21st July 2016

Duration: 50 Hours course

Number of students: 20

Teaching Faculty: 10

Mr. Kader Shaikh, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mrs. Rakhi Jadhav,
Mr. Abhijit Shete, Mr. Prasad Gosde, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo,
Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma

Event description:

Two final year students who have completed “Integrated Automation: Basic Course” at VESIT-AIA were offered internship in Siemens, Thane.

Date: 22nd Dec 2016 to 10th Jan 2017

Number of students: 02

Name of students:

1. Umesh M Giri
2. Udaish Dalip Dadroo

Event description:

“V.E.S. Institute of Technology (V.E.S.I.T) - Competency Development Center” by “Automation Industry Association (AIA)” regularly conducts “Integrated Automation: Basic Course” as a part of CAMPUS CONNECT INITIATIVE. This add on course gives more weightage to hands on training on the various kits specially made for this purpose as,

1. Sensors (P&F)
2. Pneumatics (Festo)
3. Controls and Visualization (Siemens)
4. Motion Control (B & R Automation)
5. Integrated Stand-I and II

Date: 13th Jan to 20th Jan 2017

Duration: 48 Hours course

Number of students: 05

Teaching Faculty: 10

Mr. Kader Shaikh, Mr. Vijay Shejwalkar, Mrs. Ramya T, Mrs. Rakhi Jadhav,
Mr. Abhijit Shete, Mr. Prasad Gosde, Mrs. Kanchan Chavan, Mrs. Gauri Sahoo,
Mr. Ajinkya Valanjoo, Mrs. Kadambari Sharma



VESIT-AIA Competency Development Center

Event description:

Meeting and discussion with Mr. Anup Wadhwa, Director AIA. Meeting was attended by Principal ma'am, HOD sir, faculty and students of VESIT-AIA.

Date: 8th Feb 2017

Duration: 02 Hours

Event description:

Expert lecture on Automation systems. Hands-on in AIA systems.

Date: 6th March 2017

Duration: 06 Hours

Number of participant (students & faculty): 17

Expert Faculty:

1. Mr. Niraj Godbole, Siemens Ltd, Thane
2. Mr. Dhananjay Jadhav, Siemens Ltd, Thane

Event description:

Pre-final event for "Project Idea competition" in VESIT-AIA.

Date: 15th March 2017

Duration: 01 Hours

Number of participant (students): 17

Judge Faculty:

1. Mr. A Nagananda, TPO, VESIT
2. Mr. Vijay Shejwalkar, General Engg, VESIT

Event description:

Expert lecture on IIoT and Industry 4.0. Lecture was organized in VESIT auditorium and was attended by third year students of ETRX, EXTC and INST. Lecture was followed by presentation of "Project Idea's" by VESIT-AIA students.

Date: 20th March 2017

Duration: 04 Hours

Number of participant (students): 17

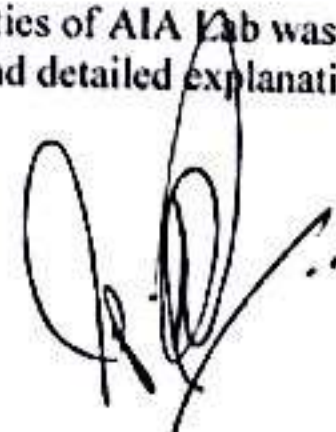
Expert Faculty:

1. Mr. Prasad Raverkar, Siemens Ltd, Thane
2. Mr. Praveen Vaidya, B&R Industrial Automation, Pune

Event description:

Lab visit by SE students. Presentation about the infrastructure and facilities of AIA Lab was made to second year students of ETRX, INST and EXTC. A lab visit was organized and detailed explanation of all facilities was given to visiting students.

Date: 8th April 2017



VESIT-AIA Competency Development Center

Event description:

Refresher course for faculties'. Faculties covered topics that they teach in regular AIA course.

Date: 18th & 20th April 2017

Duration: 06 Hours

Number of participants: 09

Expert Faculty:

Topic	Faculty	Date and Time
Pneumatics	Vijay S and Ramya T	18 th April 2017, 2 to 4 pm
Sensor	Abhijit Shete and Rakhi Jadhav	18 th April 2017, 4 to 5 pm
PLC and HMI	Kader Shaikh, Prasad Gosde and Kanchan Chavan	20 th April 2017, 2 to 4 pm
Motion Control	Kadambari, Ajinkya V and Gauri Sahoo	20 th April 2017, 4 to 5 pm

