Criteria 1.3 : Curriculum Enrichment

1.3.3 Percentage of students undertaking project work/ field work/ internships (Data for the latest completed academic year) -2020-21

Department of Electronics Engineering

INDEX

A 1-Sample List of Student Internships 2020-21

Electronics Internships 2020-21

Name of the student	Name of the Company	Start Date of the internship	End Date of the internship	Description of project or Internship
Paras Dhanaji Dhekale	Absolute Motion Pvt Ltd	10/29/2020	11/29/2020	The internship was an online industrial internship on PLC, HMI & Servo Drive programming along with Servo commissioning and selection.
Harshal Jouras	Gustovalley Technovations	2/21/2021	3/21/2021	Industry 4.0
Kishori Lad	Maker's Asylum	12/7/2020	4/18/2021	The program is called as SDG School 2020 where I worked on a Sustainable goal with team of 8 people.
Amey Mukesh Sonje	Intech Olympiad Organized by College of Engineering, Pune	5/28/2020	7/28/2020	Designed solution for Sanitization in a residential apartment and ensure minimal risk of Covid-19
Sumedh Bane	Gustovalley Technovations	2/21/2021	3/21/2021	Iot, Web Development
Jim Cheriyan	Suven Consultants & Technology Pvt. Ltd.	4/6/2020	5/5/2020	Developed 6 websites using HTML, CSS, Javascript & Bootstrap
Grusha Shetty	Gustovalley technovations	2/21/2021	3/21/2021	Industry 4.0
Vraj Nilesh Mehta	Analyte Controls	8/18/2020	2/27/2021	Power Controllers,Temperature Controllers,PCB Soldering
Vaibhav Ghaisas	Entuple Technologies	6/23/2020	8/3/2020	Design and verification in Verilog
Vaibhav Ghaisas	Entuple Technologies	7/8/2020	9/4/2020	Custom IC Design
Vaibhav Ghaisas	Entuple Technologies	8/1/2020	9/30/2020	Physical Design and Verification
Sudhanshu Amrish Mishra	Goldman Sachs	4/13/2021	4/15/2021	It's related to crack leaked password database
Sudhanshu Amrish Mishra	#WEARECRAZY	6/9/2020	6/17/2020	Digital Marketing

Jayamala Adsul

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

A 2-Sample List of Student Field Projects 2020-21

Vivekanand Education Society's
Institute of Technology

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

Since 1962

Electronics Field Projects 2020-21

Group No.	Roll No.	Student Name	Mentor	Project Title
1	13	Aadi Fernandes	Mr. Yogesh Pandit	Location Identification & Message Transmission Alerting System
	23	Rashi Parmar		
	22	Aaryaa Padheyagurja		
	49	Nishit Barot		
	28	Ramkrishna Sahu		
2	10	Isha Chawan	Dr. Asawari D.	Blood Bank Management System
	67	Ankit Talele		
	14	Yashwant Gaddam		
	30	Sumedh Shinde		
3	59	Neeraj Patil	Dr. Abhay Kshirsagar Mr. V. M. Joshi	IOT based lock with predictive maintenance
	58	Sopinath Patokar		
	60	vaidehi Phaltankar		
	24	Nikita Patel		
	17	Reeti Kothari		
4	48	Paarth Arkadi	Mr. Abhijeet Shete	Dispatch Bay Automation System
	51	Ankit Deopurkar		
	56	Vaibhav Ghaisas		
	50	Parth Baveja		
5	62	Rithika Ranadive	Mr. Abhishek Chaudhari	Trajectory and Velocity Planning for Autonomous Vehicles
	52	Hrishikesh Dey		
	21	Atharva Nadkarni		
	12	Itisha Dalvi		
6	55	Mayuresh Gawde	Dr. P. Birajdar	Fake News Detection using machine learning
	7	Nimish Bitla		
	53	Siddhant Easwar		
	26	Umedsingh Rathod		
7	15	Hitesh Jethani	Mrs. Sarika Kuhikar	smart switch board using self-designed programmable device
	1	Raashid Ansari		
	8	Kamal Singh Chauhar		
	3	Manzil Baruah		

	70	Shubham Chavan		
	71	Nikhil More		Raspberry Pi based Reader for Visually Impaired
	41	Shubham Lokhande	Mrs. Amrita Jhaveri	
8	42	Sainath Madhavi		
	4	Bhavita Bhoir		
	5	Shivani Birwadkar		Collector & Segregator Robot - used for beach cleaning
	69	Nemisha Vikamsey	Mrs. Anushree Prabhu	
9	9	Siddhesh Chavan		
	54	Amogh Gajare		
	68	Yogesh Tembe		Modelling of Electronic Circuits and Behavioral Analysis
	65	Amey Sonje	Dr. Rajani Mangala	
10	63	Sayli Sawant		
	11	Jim Cheriyan		
	20	Rishabh Maniyar		Reading of A Meter based on Image Processing Technology
	29	Viraj Sapte		
11	33	Rahul Vemuri	Dr. Abhay K.	
	18	Atique Kudchi		
	25	Girish Pawar		Investigation of material deformation
	2	Vaibhav Bagul	Mrs.Kavita Tiwari	
12	32	Rutik Thorat		
	66	Aditya suryawanshi		
		Rahul Powar		
		Nishant Sulgudle	Mrs. Naveeta Kant	e-Inventory Management
13		Kailash Shirke		
	27	Shrey Sagar		
	6	Tanya Bisht		Patient Health Monitoring System
	19	Avadhoot Likhite	Mrs. Dipti Kirani	
14	34	Asmita Avhad		
	39	Shubham kokate		
	43	Sumit Mayekar		Notice Board Operated Remotely Through Android Phone
	44	Kalyani Shelar	Ms.Rakhi Jadhav	
15	46	Amol Wakchaure		

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16	16	Surksha Kawana	Mrs. Jayamala Honmane	Third eye for blind
	35	Komal Kamble		
	38	Shreeniket Khanolkar		
	57	Simran Mayekar		
17	40	Tirtha Kulpe	Mrs. Gauri Sahoo	Automatic PCB drilling machine
	37	Asif Khan		
	36	Shubhankar kawale		
	47	Vivek yadav		
18	18	Suraksha Lund	Mrs. Dipti Karani	Smart Blind Stick
	13	Nidhi Jain		
	12	Arpit Kumar		
	27	Anushka Rajwade		
19	60	Ananthu moolayil,	Mrs. Amrita Jhaveri	Evaluation of Vocal Fold Voice Disorder
	32	Nameira shaikh		
	33	Bhavesh Sharma		
	65	Abhishek Singh		
20	15	Tanmay Kothale,	Mr. Yogesh Pandit	IoT based inventory management system for supermarkets
	5	Kunal Bhor		
	54	Anshul Chimnani		
	69	Vaibhav Talwadker		
21	25	Amog Prabhu,	Mrs. Dipti Karani	UVC Janitor Bot
	26	Amrutlal Rajbhar		
	30	Devesh Sety		
	11	Karthik Gowda		
22	2	Mohini Batra,	Dr. Asawari Dudwadkar	Post car crash analysis and emergency rescue alert system
	41	Sai Bhosle		
	48	Sana Mir		
	53	Sonali Bhalerao		
	3	Sanket Bhegde	Mrs. Sarika	Smart Farming
	21	Shweta More		
	44	Mrinali Dole		

23	36	Pranjali Thorat	Kuhlkar	System
24	17	Paras Lokare	Mrs. Jaymala Honmane	Reconfigurable S.A.R. And Pipeline ADC
	19	Siddesh Mahadik		
	51	Sehla Pathan		
	29	Harsh Sawardekar		
25	56	Chetan Dharmik	Mr. Abhishek Chaudhary	Virtual Telepresence Robot
	61	Sakthivel Nadar		
	63	omkar patil		
	45	amey gaikar		
26	55	Tarit das	Dr. Rajani Mangla	Inventory Management
	66	Sakshi Suryawanshi		
	47	Tejas kothawade		
	43	Rajeshwari dolas		
27	35	yashraj thakur,	Mrs. Gauri Sahoo	Dual Axis Solar Tracker
	40	sushant yamgar		
	24	kedar potdar		
	7	Aishwarya chourasia		
	8	Geetika chumber		
28	10	Tanmai Govindan	Mrs. Kavita Tiwari	Telemedical Application For remote patients
	14	Sarvesh Khapre		
	37	Dhanesh Vakte		
	4	Aditya Bhoir		
29	42	Abhishek Bohra	Ms. Rakhi Jadhav	Intelligent Traffic Routing And Congestion Relief
	38	Varun Anand		
	9	Faaiz Dastagir		
	28	Atharvaa Sawant		
30	62	Shrikrishna Pai	Dr. Abhay kshirsagar	Fully Automated Society Using IOT
	57	Atharva Ghodegaokar		
	23	Varun Pillai		
	49	Siddhant Pai		
	1	Sumesh Alur		Social Distance Detection Using Image
	16	Harsh Kotwal		

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31	22	Dhruv Nambiar	Mrs. Naveeta Kant	Image Processing Tools
	20	Aditya Maniar		
32	68	Vishwajit Bajirao Was	Mr. Abhijeet Shete	Automatic Accident Detection And Rescue
	39	Divyanshu Yadav		
	64	Omkar Pawar		
	67	Harsh Tandale		
33	58	Kalyani Ingole	Dr. Parmeshwar Birajdar	Sign Language Vocalisation Technique For Dumb And Deaf
	59	Pradnya Kirve		
	46	Nidhi Hegde		
	50	Jigar Pandya		
34	52	Shrusti Sawant	Mrs. Anushree Prabhu	Checking Network Vulnerabilities adn sending SQL Injections
	31	Manthan Shah		
	34	Sneha Shekar		
	6	Aniket Chavan		

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VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

A 3. Sample List of Student Mini Projects 2020-21

Third Year Electronics Engineering Mini Projects 2020-21

Roll No	Name of students	Project Title
31	Vedhas Kudtarkar	CMOS Ring Oscillator
38	Manas Maskar	
39	Tanishq Mengi	
4	Pratibha Bhat	CMOS Schmitt trigger
5	Pratiksha Bhat	
10	Bhairavi Chavan	
12	Kedar Deshpande(grp Leader)	
63	Anant Singh	Barrel shifter
61	Abhishek Singh	
44	Sandesh Pal	Binary multiplier
8	Ritevik Bisht	simple stopwatch using multisim
7	Shubham Bhosale	
13	Rohit Deshpande	jk using cmos
2	Divya Awate	Traffic light Controller using 4017BP_10V
9	Ayush Chaurasiya	
14	Pranay Gaikwad	4 Bit Up Counter using J-k Flip-flop in Static CMOS configuration
21	Pranita Jadhav	
6	Bherwani Jasraj Anil	Quadrature Generator
16	Ghugare Gaurav	
17	Varun Prasad Gokhale	Edge Triggered D Flip Flop
22	Jagushte Shlok Mangesh	
26	Nikhil Joshi	CMOS Full Adder
33	Jayesh Mahajan	
40	Shubham Metkar	CMOS 3bit Binary To Square of the given
42	Harshad Nehate	
30	Parth Kharkar	ripple counter
34	Archita Malgaonkar	

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Dr. P. B. Borgal

46	Anushka Pandit	Jk flip flop
47	Prathamesh Parab	
25	Vikram Kumar jha	Impedance of MOSFET Amplifier
32	Aditya limkar	
43	srujan pailwar	CMOS OR Gate
36	Pallavi Mane	CS amplifier with Current Mirror
41	Shubham Nanche	
35	Chaitanya Mali	1 bit magnitude comparator using CMOS
29	Kartikeya Kaushik	
57	Vaibhav Sharma	Motor driver circuit using MOSFET
58	Mithun Shenoy	
66	vivek tarachandani	4 bit barrel shifter
68	Himanshu Upadhyay	
20	namrata jadhav	2:4 Decoder circuit using NMOS pass transistor logic
28	gauri karale	
37	rohini mane	mosfet as multivibrator
45	pradumna palav	
49	Neeraj Patil	CMOS integrator
52	Priti Prajapati	
63	Aditya Tamse	Buck Convertor
64	Divya Singh	
53	Sahil Ram	CMOS And Gate
55	Shubham Sangale	
56	Prajot Sapkal	Password Security System using Logic Gates
59	Aditya Shetty	
1	Aaryan Agrawal	music sensitive LED device using MOSFET
3	Balaji Krishnan	
15	Ayush Gaur	T flip flop using CMOS
23	Shiwani Jeswani	
48	Hritik Patil	CMOS Differential Amplifier
50	Gopal Patkar	

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Dr. P.B. Bhagde

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51	Chinmay Prabhughate	Carry look ahead adder
54	Varad Rane	
11	Aishwarya Dandge	Simulation of 6 transistor SRAM cell using CMOS
18	Sakshi Gujarathi	
19	Vaishnavi H	4 * 4 NOR Based ROM Array
60	Mrunali Shingre	
62	Adarsh Singh	nMOS Subtractor (Final Topic preferred)
67	Prabal Tripathi	
69	Satyam Vishwakarma	T flip flop using CMOS
70	Pravin Yadav	
24	Suman Jha	S-R flip flop
27	Dhanesh Kajrolkar	
4	Ansari Mohd Rameez	Ring counter
9	Varun Bhatia	
12	Vedant Chaudhari	
1	Amey Advirkar	MODL Adder
7	Ramchandra Balankar	
18	Shalaka Gamare	
54	Abhishek Samudre	CMOS clocked SR flip-flop
61	Aman Shukla	
68	Raj Talashilkar	
26	Gayatri Jadhav	Full adder implementation using pass tra
41	Saurav Pandit	
45	Akshay Patil	
37	Shyam Munankar	Full Adder using 3:8 decoder 1bit
3	Siddhi Anbhule	
33	Shubham Kaspale	
50	Rayan Shaikh	Sense Amplifier
59	Rutuja Shejwal	
70	Jaie Vengurlekar	

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Dr. P. B. Borkar

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

25	Sanika Indulkar	CMOS Schmitt Trigger
29	Harshal Jouras	
44	Manasi Patankar	
8	Sumedh Bane	CMOS Ring Oscillator
11	Shubham Chaudhari	
13	Dhruvi Chauhan	
20	Atharva Godse	
22	Rohit Gwalani	
27	Preet Jain	1:2 Demux
21	Shashwat Gupta	
66	Harsh Singh	
71	Tushar Wanave	SISO 2-bit shift register
39	Shatrunjay Palkar	Nor Based rom array
43	Shruti Parab	
47	Siddhesh Patkar	
14	Ritik Choudhary	4x4 nand based rom array
16	Manav Dulani	
41	Hrithik Parab	
55	Suyog Sawant	NOR based Column Decoder
63	Aman Singh	
51	Aditya Rode	
6	Kanchan Bajaj	
10	Jayant Chaudhari	Positive triggered
34	Kishori Lad	D flip flop
2	Sahil Amundkar	
5	Prashanth Arundudhiyar	2. Full Subtractor using CMOS
15	Paras Dhekale	
56	Rahul Seth	4:1 MUX using Pseudo nmos
23	Suresh Hotwani	
17	Harshad Gadage	

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Dr. P.B. Bijdar

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

40	Kaustubh Pandey	1. 6-T SRAM Cell
48	Ketaki Purohit	
57	Dhairya Shah	
52	Rishabh Sajin	1 bit magnitude comparator using CMOS
58	Srishti Sharma	
60	Grusha Shetty	
35	sudhanshu mishra	2-bit asynchronous counter
46	Gautami Patil	
62	Vimal Shukla	
64	Astha Singh	cmos logic implementation of 4*2 priority
65	Deepti Singh	
49	Harsh Raut	
24	Roshan Indulkar	JK Flip Flop Using CMOS
38	Vivek palande	
19	Pranil ghadi	
36	Ratul Kumar Modak	1 bit shift Register
31	Samruddha Kalke	
28	Chaitanya Joshi	Barrel Shifter
30	Abhijeet Kale	
32	Sudhanshu Karwa	
67	Nishant Suryawanshi	2:4 decoder dynamic design style
69	Abhishek Tupe	
53	Ashish Salunkhe	

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

Dr. P. B.

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

Electronics Second Year Mini Projects 2020-21				
Group No.	Name of the Student	Mentor Name	Title of the Proje	No. of Students
1	Aakash Dubey Siddhesh Dahiphale Sahil Matlal Aditya Ghadge	Dr. P. Birajdar	DTFM based home automation	4
2	Chaitanya brid Vipul vishe shraddha mane Rugved pawar	Mrs. Anushree Prabhu	Traffic light control system using 8051	4
3	Sanket Harmalkar Hrushikesh Lad Vishal Jangam Samay Gadade	Dr. Rajani Mangla	Smart Health Monitoring System	4
4	CHANDAN ADSUL ROHIT MORE AMAAN SHAIKH UTKARSHA KHARAT ZIYAUL MUSTAFA	Mrs. Sarika Kuhikar	Bidirectional Visitor Counter	5
5	BHAIRAVI JOSHI MANASI NERURKAR OM SHETTY SARITHA THARAKAN -	Dr. Rajani Mangala	IoT based Smart Intravenous Drip Bottle Level for Healthcare	4
	ADITYA SINGH DEVANSH SINGH SHUBHAM SHANBHAG			

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

Abhishek Chaudhari

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

6	PRATIKSHA MHADGUT	Mrs Naveeta Kant	Intensive cleaning Robot	4
7	SIDDHARTH BAGDE GANESH PATEL GAURAV SALGAONKAR ROHAN SAWANT	Mrs. Amrita Jhaveri	Solar Panel Rechargeable Light	4
8	GAURAV AUTADE DEEPTANSHU DE SHRIJEET DESAI AVIN SHEJWAL	Ms. Rakhi Jadhav	Smart Blind Stick using Arduino	4
9	KARTIK SHANBHAG ADITYA BEDEKAR AROHA ADAVADKAR NIXIT KOTHARI -	Mrs. Dipti Karani	Contactless Attendance and temperature checking device	4
10	DAKSH PUNAMIYA SAKSHAM RAI SANNIDHI SHETTY ADITYA RANA	Mrs. Jayamala Adsul	LED Thermometer	4
11	ALTON CREADO TANVI SATAM SHRAVAN KAMBLE SHREYUSHI VEER	Mr.Yogesh Pandit	Smoke Detector Fire Alarm Circuit	4
	ATHARVA AHIRE			

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

12	PRACHI BHALERAO ASHIWINI GAWHALE RAJESH MUNI HRITHIK SAPKALE	Dr. Abhay Kshirsagar	Underground Drainage Monitoring System & Alert Indication Using Sensors.	5
13	VINEET BHOLE OMKAR PADHYE SURABHI BYJU AARYAN WANI	Mrs. Sarika Kuhikar	Smart irrigation system	4
14	GAURAV DHANDE ADITI JAMWAL AJITH NAIR ANUSHKA KAMBLE	Mrs. Anushree Prabhu	Automatic Light Controller	4
15	ABHIRAM PHADNIS ABHISHEK RANE SMRITI KARN FREYA MOTA	Mrs. Kavita Tewari	Coin Detection and Counting Algorithm Using MATLAB	4
16	Soham Kolte	Mr. Abhijit Shete	Smart Energy Saver Using PIR Sensor	4
	Anas Khan			
	Dhiraj Ingale			
	Poorvesh Powale			
17	Aakash Dubey	Dr. P. Birajdar	DTFM based home automation	4
	Siddhesh Dahiphale			
	Sahil Matlai			
	Aditya Ghadge			
18	Chaitanya brid	Mrs. Anushree Prabhu	Traffic light control system using 8051	4
	Vipul vishe			
	shraddha mane			
	Rugved pawar			

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VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

19	Prajyot Kamble	Ms. Rakhi Jadhav	Infra Red based Motion Detector	4
	Harsh Jadhav			
	Abhishek sharma			
	Komal Bhongle			
20	Andrew Jose	Mrs. Gauri Sahoo	Quiz Buzzer	4
	Sneha Jadhav			
	Isha Girathe			
	Aaditya Gaikar			
21	Sanket Harmalkar	Dr. Rajani Mangla	Smart health mo	4
	Hrushikesh Lad			
	Vishal Jangam			
	Samay Gadade			
22	Vraj Mehta	Mrs. Amrita Jhaveri	password based door lock system	4
	Saniya Shaikh			
	Vipul Bhoir			
	Dipesh Varve			
23	Bhakti Kambli	Mr. Abhishek Choudhari	Wireless Electronic Notice Board using GSM	4
	Neha Kashid			
	VIKAS PANIGRAHY			
	ANKITA MHATRE			
24	Atharva Mauskar	Dr. Abhay Kshirsagar		4
	Sagar Joshi			
	Nithin Murali			
	Kiran Ramgiri			
25	CHANDAN ADSUL	Mrs. Sarika Kuhikar	Bidirectional Visitor Counter	
	ROHIT MORE			

V.E.S. INSTITUTE OF TECHNOLOGY ★ DEPT. OF ETRX

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	AMAAN SHAIKH			
	UTKARSHA KHARAT			4

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

Abhishek Chaudhari

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-400 074 INDIA

Electronics Department First Year Mini Projects 2020-21

Group No.	Name of the Students	Mentor Name	Title of the Project	No. of Students
	Atharva Bhaindarkar	Manisha Tiwary		
	Mayank Bhate			5
	Siddharth Dighe			
	Gauraang Prabhudesai		Water Level Indicator	
Group 1 D1E	Madhurima Tamhankar			
	Meghan Wagle			
	Sanket Zope	Manisha Tiwary	Tesla Coil (Wireless Power Transfer)	5
	Saumya Padmane			
	Aryan Andhare			
Group 2	Om Suwarnakar			
	Aditi Mishra		Continuity Tester	4
	Ashiqa Shervegar	Manisha Tiwary		
	Jheel Panchal			
Group 3	Ashwin Katkar			
	Prathamesh Gudame			4
Group 4	Riyansh Jain	Manisha Tiwary	To Construct an Amplifier using a	

			Transistor	
	Nachiket Suryavanshi			
	Aaryan Solkar			
	Jaykumar Kabra	Manisha Tiwary	Laser Security System	4
	Vedant Jadhav			
	Swaraj Patil			
Group 5	Ruchita Dolas			
	Ameya Roplekar		REGENERATIVE BRAKING SYSTEM	
	Mehul Nikumbh	Manisha Tiwary		
	Sejal Bishoyi			4
Group 6	PRIYANSHU TRIPATHI			
	Avanti Bhondwe	Manisha Tiwary		
	Soham Mhatre		audio amplifier	5
	Sarvesh Hadgaonkar			
	Pooja Gangurde			
group 7	**Ashwin Diwadkar**			
	Abhiroop Bhattacharjee	Manisha Tiwary		
	Hrutuja Ravindra Mestry		Digital Altimeter	4
Group-8				

	Sagar Akhilesh Pandey			
	Avanti Vinayak Rangdal			
	Rishabh Goray	Manisha Tiwary		
	Sumedh Savalapurkar			
	Vansh Setpal		Galileo free fall object	5
	Sunny Kushwaha			
Group 9	Jayesh Bodekar			
	SHANTANU AMBHORE			
	PRAJWAL POOJARI	Manisha Tiwary	LI-FI (LIGHT-FIDELITY) TECHNOLOGY	
	MOTEEPUR SHAIKH			
	MEKRAIL SHAIKH			
Group 10	NILESH SHARMA			5
	Sudesh Bhagat	Manisha Tiwary	Solar Street Light	
	Aditya Darge			
	Naimatullah Mullah			5
Group 11				

	Manmegh Pawar			
	Sanket kapoor			
	Shivam Behera	Manisha Tiwary		
	Darshan Borole		Crystal Structure	5
	Shruti Nikhare			
	Sakshi Rane			
Group 12	Sonal Shinde			
				55

B 1. Sample Internship Completion Certificates

ABSOLUTE Motion Pvt. Ltd.
ISO 9001:2015 Certified

Certificate of Internship

This is to certify that

Paras Dhekale

Has successfully completed 1 month online industrial internship with Absolute Motion Pvt Ltd under "Prayas Internship" program

Internship Date: **29th October 2020 to 29th November 2020**
Scope: **PLC programming, HMI programming, Servo Drive programming, Servo commissioning and selection**

SUSHIL MISHRA
Managing Director

ALISTER DSILVA
Director- Prayas program

AMPL-IB4-20201029-01

Gustovalley Technovations

CERTIFICATE OF COMPLETION

This Certifies that

GRUSHA SHETTY

has successfully completed Gustovalley Technovation's Online Internship on Industry 4.0 which was conducted from 21/02/2021 to 21/03/2021.

The Performance delivered during the program was Good

Date : 02-04-2021

Authorized Signatory

Certificate No. : GL102006

Vivekanand Education Society's
Institute of Technology

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

This is to certify

With the support of
New Delhi Office
Cluster Office for Bangladesh, Bhutan, India, Maldives, Nepal and Sri Lanka

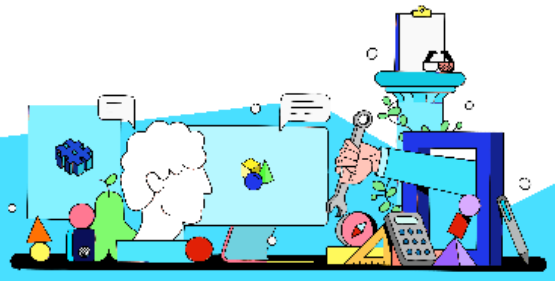
has been a participant at the SDG School 2020 and has successfully completed the program from **December 7th-18th 2020.**

Eric Falt	Gaël Mainguy	Vallabav Chhabra
Regional Director, UNESCO	Director, CRI Paris	Founder, Maker's Asylum

MAKER'S ASYLUM

SDG SCHOOL 2020

7-18th DECEMBER



Gustovalley Technovations

CERTIFICATE OF COMPLETION

This Certifies that

HARSHAL JOURAS

has successfully completed Gustovalley Technovation's Online Internship on Industry 4.0 which was conducted from 21/02/2021 to 21/03/2021.

The Performance delivered during the program was Good

Date : 02-04-2021 Authorized Signatory Certificate No. : GL102004

Gustovalley Technovations

CERTIFICATE OF COMPLETION

This Certifies that

SUMEDH BANE

has successfully completed Gustovalley Technovation's Online Internship on Industry 4.0 which was conducted from 21/02/2021 to 21/03/2021.

The Performance delivered during the program was Good

Date : 02-04-2021 Authorized Signatory Certificate No. : GL102005

IEEE BANGALORE SECTION

ENTUPLE TECHNOLOGIES

INTERNSHIP CERTIFICATE

This is to certify that **VAIBHAV GHAISAS**

from

VESIT

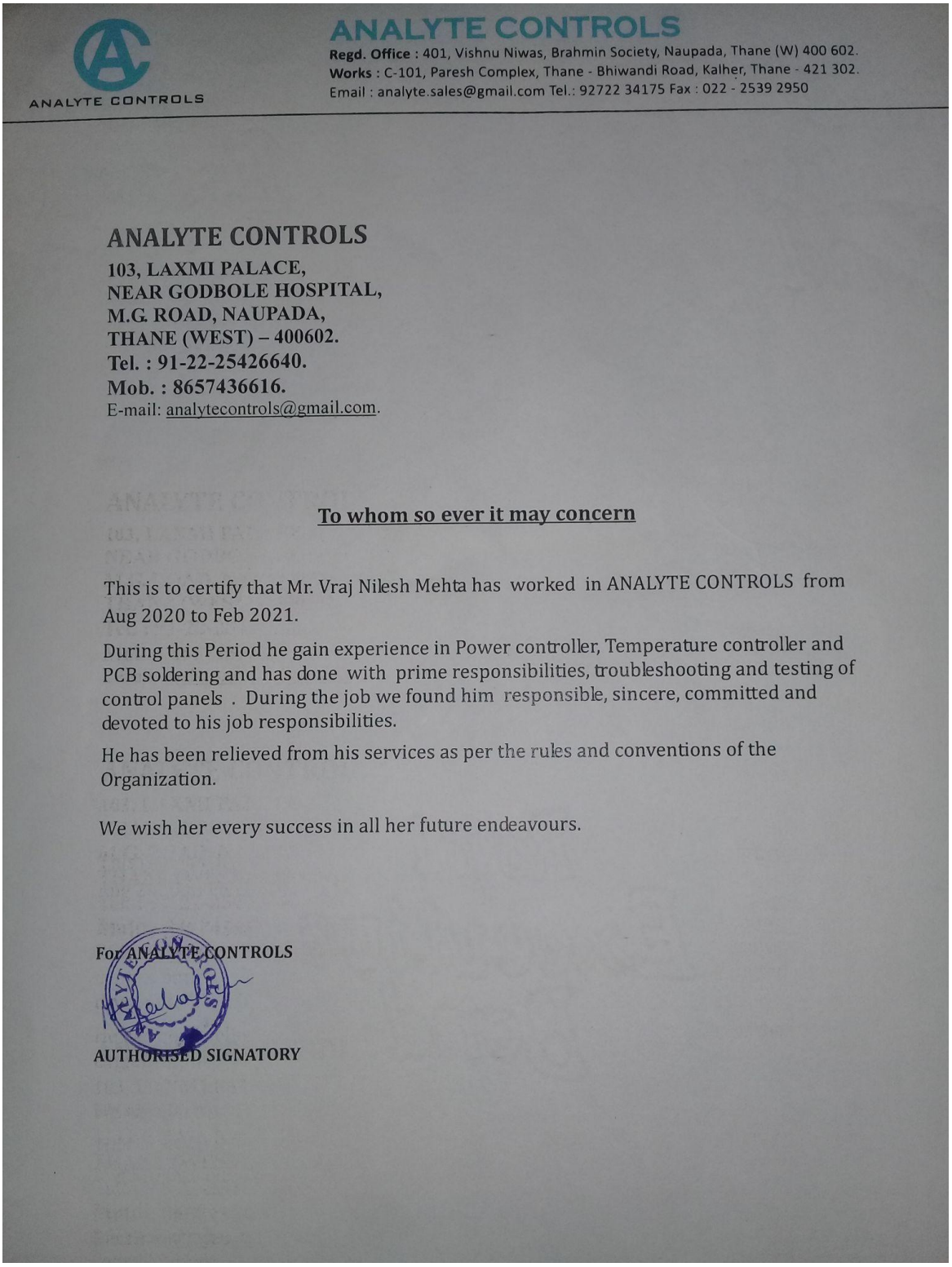
has completed the Online Internship Program on

DESIGN AND VERIFICATION USING VERILOG

from 23rd June to 3rd August 2020.

Mr. Puneet Kumar Mishra
Chair, IEEE Bangalore Section
Secretary, IEEE India Council

Mr. Damodara M S
Business Manager,
Entuple Technologies Pvt. Ltd.



ANALYTE CONTROLS

ANALYTE CONTROLS
Regd. Office : 401, Vishnu Niwas, Brahmin Society, Naupada, Thane (W) 400 602.
Works : C-101, Paresh Complex, Thane - Bhiwandi Road, Kalher, Thane - 421 302.
Email : analyte.sales@gmail.com Tel.: 92722 34175 Fax : 022 - 2539 2950

ANALYTE CONTROLS
103, LAXMI PALACE,
NEAR GODBOLE HOSPITAL,
M.G. ROAD, NAUPADA,
THANE (WEST) – 400602.
Tel. : 91-22-25426640.
Mob. : 8657436616.
E-mail: analytecontrols@gmail.com.

To whom so ever it may concern

This is to certify that Mr. Vraj Nilesh Mehta has worked in ANALYTE CONTROLS from Aug 2020 to Feb 2021.

During this Period he gain experience in Power controller, Temperature controller and PCB soldering and has done with prime responsibilities, troubleshooting and testing of control panels . During the job we found him responsible, sincere, committed and devoted to his job responsibilities.

He has been relieved from his services as per the rules and conventions of the Organization.

We wish her every success in all her future endeavours.

For ANALYTE CONTROLS

AUTHORISED SIGNATORY

Goldman Sachs

Forage

Inspiring and empowering future professionals

Sudhanshu Mishra
Engineering Virtual Program

Certificate of Completion

April 15th, 2021

Over the period of April 2021, Sudhanshu Mishra has completed practical task modules in:

Crack leaked password database

Phil J. Venables
Global Chief Information Security Officer

Tom Brunskill
CEO, Co-Founder of Forage

Enrolment Verification Code tiB5RR9JPpe4GGMt9 | User Verification Code dWwKDnEo6NjAPPvrn | Issued by Forage

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Virtual Labs
An MHRD Govt of India Initiative

INTECH OLYMPIAD
ONLINE SUMMER INTERNSHIP
CERTIFICATE

This is to certify that

Mr /Mrs / Ms **Amey Sonje**
from **Vivekanand Education Society's Institute Of Technology, Chembur,Mumbai**
participated and successfully completed the project " **Design solution for Sanitization in a residential apartment and ensure minimal risk of COVID-19 by using technology and tools** " assigned in InTech Olympiad during Online Summer internship from 28th May 2020 to 28th july 2020

Mr. Mahesh A. Kulkarni
AFour Technologies

Prof. Sudhir D. Agashe
COEP

AFOUR TECHNOLOGIES

B 2-Sample Field Project Completion Certificates

Vivekanand Education Society's
Institute of Technology

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

"Digital Notice Board Using Raspberry Pi"

Submitted in partial fulfillment of the requirements

of the degree of

Bachelors of Engineering

by

Student Name	Roll No.
Shubham Kokate	31
Sumit Mayekar	40
Kalyani Shelar	57
Amol Wakchaure	69

Supervisor:
Rakhi Jadhav
Assistant Professor

Department of Electronics Engineering
V.E.S. Institute of Technology
2020-21

CERTIFICATE

This is to certify that the project entitled "Digital Notice Board Using Raspberry Pi" is a bonafide work of "Shubham Kokate (31), Sumit Mayekar (40), Kalyani Shelar (57) and Amol Wakchaure (69)" submitted to the V.E.S. Institute of Technology in partial fulfillment of the requirement for the award of the Bachelor of Engineering in Electronics.

Rakhi Jadhav

(Name and sign)

Supervisor/Guide

(Name and sign)

Co-Supervisor/Guide

V.E.S. INSTITUTE OF TECHNOLOGY DEPT. OF ETRX

(Name and sign)

Head of department

V.E.S. INSTITUTE OF TECHNOLOGY CHEMBUR, MUMBAI-71

(Name and sign)

Principal

Project Report Approval for B.E.

This project report entitled "Digital Notice Board Using Raspberry Pi" by Shubham Kokate, Sumit Mayekar, Kalyani Shelar, Amol Wakchaure is approved for the degree of the Bachelor of Engineering in Electronics.

Examiners

1. (Rakhi Jadhav

2. online exam

V.E.S. INSTITUTE OF TECHNOLOGY * DEPT. OF ETRX *

V.E.S. INSTITUTE OF TECHNOLOGY * V.E.S. MUMBAI-74 CHEMBUR

B 3-Sample Mini Project Completion Certificates

Vivekanand Education Society's
Institute of Technology

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

"Automatic Light Controller"

Submitted in partial fulfillment of the requirements

Second Year Mini Project

by

Student Name Roll No.

Gaurav Dhande 19

Aditi Jamwal 23

Anushka Kamble 25

Ajith Nair 35

Supervisor:

Mrs. Anushree Prabhu

Vivekanand Education Society's
Institute of Technology

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

Department of Electronics Engineering

V.E.S. Institute of Technology

2020-21

i

CERTIFICATE

This is to certify that the project entitled **"Automatic Light Controller"** is a bonafide work of **"Gaurav Dhande(19), Aditi Jamwal(23), Anushka Kamble(25) and Ajith Nair(35)"** submitted to the V.E.S. Institute of Technology in partial fulfillment of the requirement for the completion of second year Mini Project in **Electronics Engineering.**

Guide

ANUSHREE PRABHU

Head of Department

Vivekanand Education Society's
Institute of Technology

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

Approval for Second Year Mini Project

This project report entitled **"Automatic Light Controller"** by **Gaurav Dhande(19), Aditi Jamwal(23), Anushka Kamble(25) and Ajith Nair(35)** is approved for completion of second year Mini Project in **Electronics Engineering**

ANUSHREE PRABHU

V.E.S. INSTITUTE OF TECHNOLOGY * DEPT. OF ETRX

V.E.S. INSTITUTE OF TECHNOLOGY * CHEMBUR, MUMBAI-74

C 1-Sample Communications & Reports –Internships

C 2-Sample Communications & Reports-Field Project

Vivekanand Education Society's
Institute of Technology

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

"Obstacle Detection Using IR Proximity Sensor"

Submitted in partial fulfillment for the requirements

of completion of the Second

Year Electronics Engineering

by

Student Name	Roll No.
Abhishek Sharma	68
Harsh Jadhav	80
Komal Bhongle	84
Prajyot Kamble	88

Supervisor:

Rakhi Jadhav

Assistant Professor

Department of Electronics Engineering

V.E.S. Institute of Technology

2020-21

1. INTRODUCTION

A proximity sensor basically detects the presence of any nearby object in its vicinity without making any kind of physical contact. A proximity sensor works by emitting electromagnetic beam in its angle of projection and tries to detect any kind of changes in field or any signal returning after colliding to target. There are different kinds of proximity sensor such as capacitive, inductive etc. Out of this in our project we have included the IR based proximity sensor.

An IR proximity sensor works by giving supply to a pair of IR light emitting diodes (LED's) which in turn, emit infrared light. This light propagates through the air and once it hits an object it is reflected back towards the sensor. If the object is close, the reflected light will be stronger than if the object is further away.

Usually in the infrared spectrum all the objects radiations some form of thermal radiations are invisible to our eyes, that can be detected by an infrared sensors. The emitter is simply an IR LED (light emitting diode) and the detectors is simply an IR photodiode which is sensitive to IR light of the same wavelength as that emitted by the IR LED. When IR light falls on the photodiode, the resistance and these output voltage change in proportion to the magnitude of the IR light received.

This circuitry requires very low cost components for construction. We can use this system where ever motion detection is required. Applications are in Automation systems, Theft control, Sanitizer Dispenser, etc.

2. LITERATURE REVIEW

For the literature survey of our project Motion Detection Using IR Proximity Sensor, research papers from the recent year were taken into consideration.

The following contains the summary about those papers:-

[1] Motion and Movement Detection for DIY Home Security System
IEEE SENSORS JOURNAL
[Published in year 2019]
In this, a home security system that is integrated with remote monitoring system is developed. It uses the technology cloud based real-time monitoring.
Depending upon wireless motion detection using a microcontroller as a sensor, the data transferred by sensor is handled by cloud server. Based upon the irregularity detected this system acts accordingly. It also deals with notifying the consumer regarding any irregularity.
Even though is affordable but involves circuit complexity, and also cannot be completely dependable considering many component involved.

[2] Daily activity recognition using pyroelectric infrared sensors and reference structures
IEEE SENSORS JOURNAL
[Published in year 2019]
This system uses pyroelectric infrared sensors. The main concept is based on human activity generating an infrared radiation field that carries the IRC(infrared radiation changes) information. By measuring the IRC signal, it is possible to recognize the activity pattern.
Here, PIR sensors are used in conjunction with Fresnel lenses, which have transmission characteristics appropriate for a particular wavelength range, e.g., the human body (5 ~ 14 μm).

[3] Smart Lightning and Security System
IEEE SENSORS JOURNAL
[Published in year 2020]
This system mainly focuses on the concepts of energy conservation, it shows how electrical energy could be saved to a great extent if paired with some constantly monitoring systems. It highlights the concept of automation.
It comprises of PIR , IR sensors, Arduino mega2560, ultrasonic sensors, which when integrated via programming works as perfect system aiming at saving electrical energy.
Using Arduino microcontroller gives a upper hand in terms of energy management as it is readily programmable, thus can be utilized for switching purposes as the surrounding environment demands.

4. CIRCUIT DIAGRAM

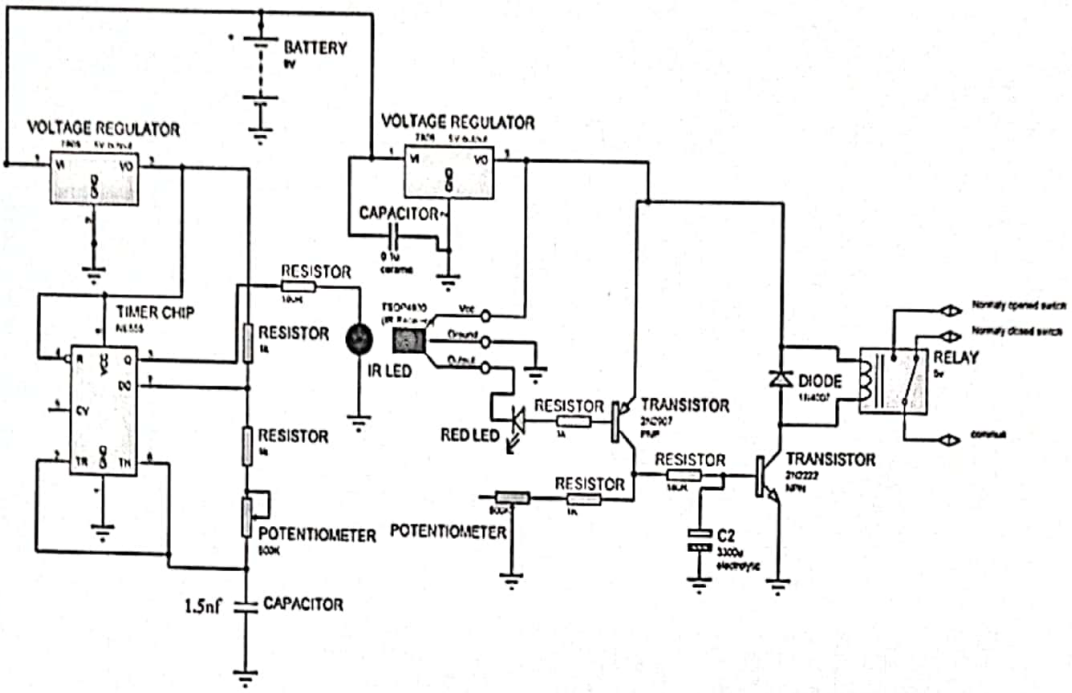

Figure 2 Circuit Diagram of IR Proximity Sensor[Source:Ref.4]

6 . RESULT

In current situation where contagious pandemic is spreading all over the world we needed a touch less system, where we need less contact with any surface to protect ourselves from viruses. The system called motion sensing equipment is built to overcome the possibility of touching doors, touching sanitizing machines, temperature sensing thermometers, etc.

We built a proximity sensor to detect any movement and work accordingly such as glowing a lamp, honking a buzzer and turn on the motors, etc.

The project we built is capable of detecting the obstacle within the range of 0-10m in 180 degree span of projection by the transmitting IR radiation. This proximity sensor can be implement where ever the automation is needed.

Complete prototype is ready :-.

C 3-Sample Reports-Mini Project

Vivekanand Education Society's
Institute of Technology

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"Automatic Light Controller"

Submitted in partial fulfillment of the requirements

Second Year Mini Project

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Student Name Roll No.

Gaurav Dhande 19

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Chapter 1: Introduction

In today's world, we cannot imagine our daily life without electricity. Electricity has become a necessity for all, without which day-to-day life chores & daily activities come to a standstill. Due to the depletion of non-renewable resources, energy conservation has become necessary by means of wind energy, solar energy and hydro energy which are renewable in nature. The utilization of these resources for power supply is the best possible way of producing, conserving and renewing energy. It is pollution free, affordable, and free from environmental impacts.

The environmental effects and depleting energy resources are a constant reminder to save non renewable resources. Energy wastage has become a common problem, seen frequently at homes, educational institutions, and industries. Fans and lights continue working even in the absence of people due to utter negligence of the inmates.

However, there is a solution to some of these problems. The digital world we are living in allows us to use different technologies to automatically perform certain tasks. Such automation is very useful in certain areas like energy consumption, reducing human efforts, improving standard of living etc. To control this negligent wastage of energy, a lighting system with an automatic room light controller can be installed to conserve energy by optimizing appliances such as lights, fans, etc.

When we enter a dark room, we often have to search for the light switch and with our busy lives we often leave the lights and fans running in the room. This results in unnecessary power wastage. An automatic room-light controller which automatically turns on the lights when a person enters into a room, and turns off the lights when the person leaves the room is a very efficient solution to our problem. By using this system, we can intentionally forget about the lights as the system will automatically take care of them.

Not just that, with this method people with a phobia of darkness will also be benefited. Parents, with small children, who dread entering a dark room for the fear of stepping on any scattered toys, will find this solution to be a blessing. Same goes for people with pets. When carrying a load of things, one doesn't need to worry about reaching the switch; your presence will be enough.

This automatic room controller is implemented using a simple 8051 microcontroller and wireless IR technology and relay for switching.

Since the job of the circuit is to turn on the light when someone enters the room and turn off the light when the last person leaves the room, the controller has to internally count the number of visitors entering and leaving the room. Hence, the project acts as an Automatic Room Lighting System as well as a Bidirectional Visitor Counter.

Chapter 4: Hardware/Software Overview:

Sr.No	Hardware Component	Description
1	AT89C51 (8051 Microcontroller)	To control the project system
2	2 x Infrared obstacle sensors	To measure and detect obstacle via infrared radiation
3	16 x 2 LCD display	To display the counter
4	5V relay module	As a switch, connects lamp to the circuit
5	Lamp	To show output
6	Connecting wires	To connect individual components and create the circuit.
7	Power supply	To enable the electric circuit.

Table1. Tabular overview of the hardware specifications

Sr.No	Software Required	Description
1	Proteus 8 Professional	To simulate the circuit
2	Keil µVision 4.3	To write the program code in embedded C language

Table2. Tabular overview of the software specifications