



BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

Batlapalem, Amalapuram, Indupalli Post, Dr. B. R. A. Konaseema Dist. AP, INDIA - 522201

Phone No: 08856 - 235416, e - Mail: bvts@bvcgroup.in, Website: www.bvcits.com

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6.1 Adequate and Well-equipped Laboratories and Technical Manpower

Sl. No	Name of the Laboratory	No. of students per setup (Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	Electronic Devices and Circuits Lab	4 students per experiment and 35 in each batch	CROs, FUNCTION GENERATORS, REGULATED POWER SUPPLY, STABILIZER, TRAINER KITS	18 hours for per Week	K.V. RAMESH	Lab Technician	DIPLOMA
2	EC / PDC Lab	4 students per experiment and 35 in each batch	CROs, FUNCTION GENERATORR EGULATED POWER SUPPLY, TRAINER KITS, B2 SPICE simulation SW	24 hours for per Week	M. VENKATESWARA RAO	Lab Technician	DIPLOMA
3	IC Applications Lab	4 students per experiment and 35 in each batch	CROs, FUNCTION GENERATOR REGULATED POWER SUPPLY, TRAINER KITS	12 Hours/ Week	M.VENKATESW ARA RAO	Lab Technician	DIPLOMA
4	Analog communications & Digital communications Lab	4 students per experiment and 35 in each batch	CROs, FUNCTION GENERATORS, R EGULATED POWER SUPPLY, STABILIZER, TRAINER KITS	24 Hours/ Week	G. NAGA PRASAD	Lab Technician	B.TECH

5	Microwave Engineering Lab	4 students per experiment and 35 in each batch	KLYSTRON POWER SUPPLY, GUNN POWERSUPPLY, VSWR, METERS, KLYSTRON TUBE, MICROWAVE ACCESSORIES AND OPTICAL TRAINER KITS	12 Hours/ Week	G. NAGA PRASAD	Lab Technician	B.TECH
6	Micro Processor and Micro Controller Lab	35 students in each batch	35 Computers with Processor 4 GB RAM8086 MASM emulator, Keil Software, 8086 microprocessor interfacing modules,8051 micro controller MATLAB, CC STUDIO SOFTWARES TI DSP Starter kit	30 hours for per Week	M.RAJA BABU	Lab Technician	DIPLOMA
7	ECAD/DSP LAB	35 students in each batch	35 Computers with 4 GB RAM Xilinx ISE Software Mentor graphics ARDUINO IDE,Arduino uno boards Node MCU SENSORS	48 hours for per Week	M.RAJA BABU	Lab Technician	DIPLOMA

Babu

(Signature)
 Head of the Department
 Electronics & Communication Engineering
 B.V.C. Institute of Technology and Science
 Ballapalem, Amalapuram - 533 201

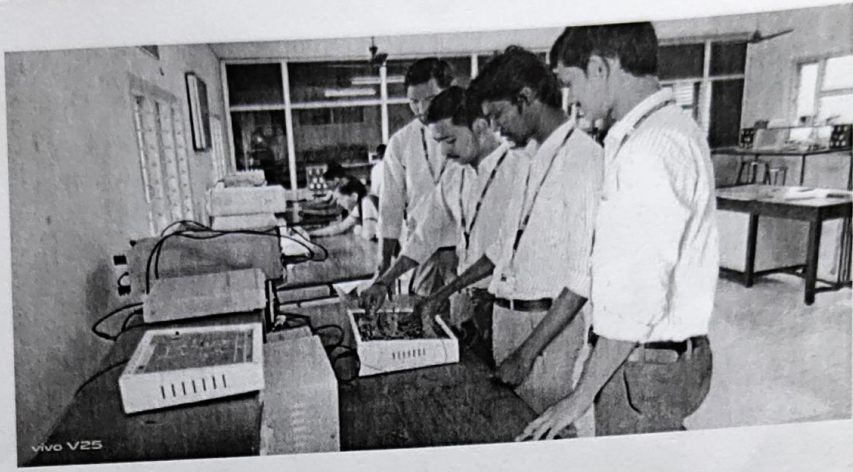
1. Electronic Devices and Circuits lab



CURRICULUM LABS

1. Electronic Devices and Circuits lab(ECE)
2. Electronic Devices and Circuits lab(EEE)

2. IC APPLICATIONS LAB



CURRICULUM LABS

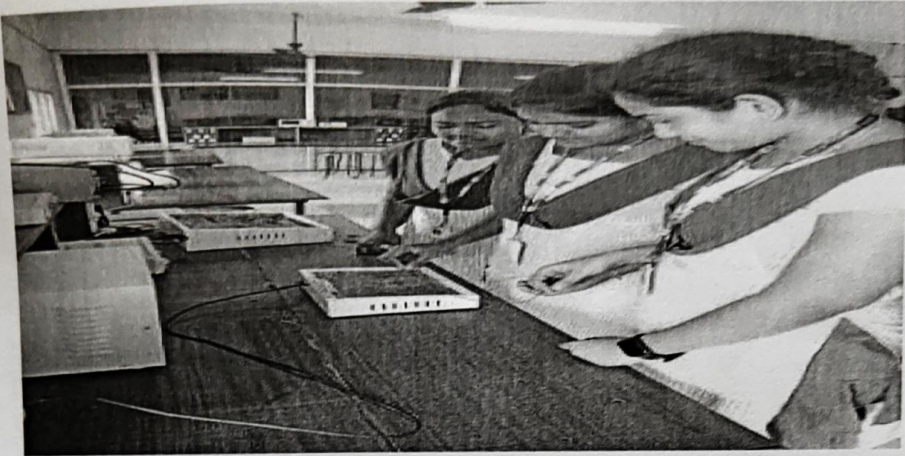
LINEAR IC APPLICATIONS LAB

CURRICULUM LABS

IC LABS

ELECTRONIC CIRCUIT ANALYSIS LAB

3.EC/PDC LAB

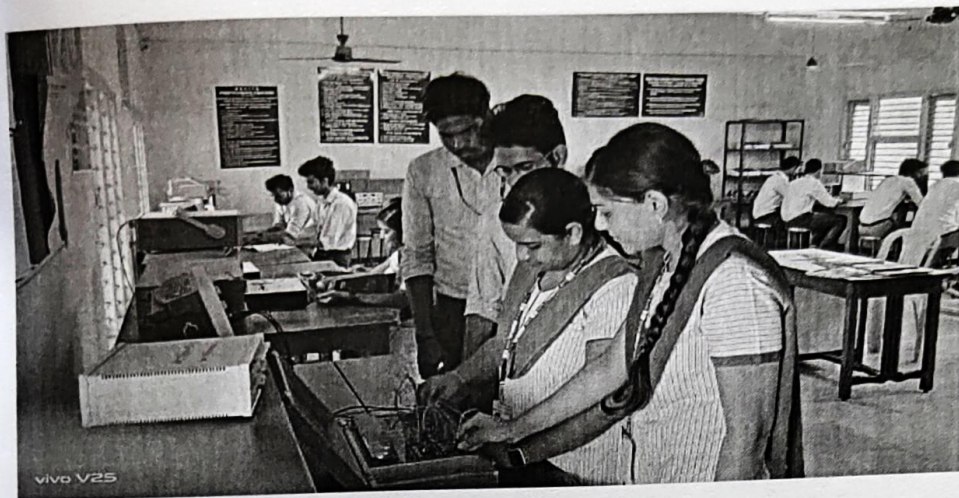


CURRICULUM LABS

STLD LAB

ELECTRONIC CIRCUIT ANALYSIS LAB

4. Analog communications & Digital communications Lab

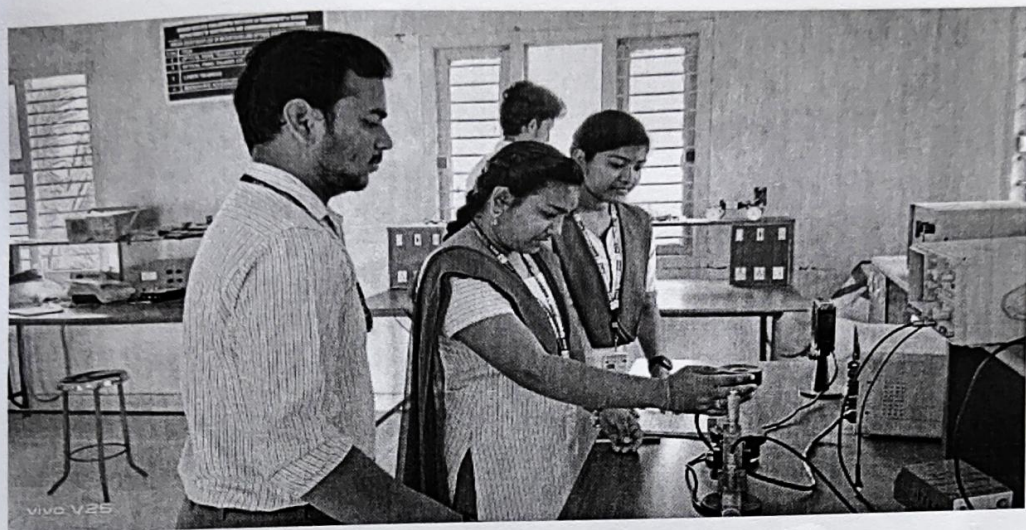


CURRICULUM LABS

1. Analog communications Lab

2. Digital communications Lab

5. Microwave Engineering Lab



CURRICULUM LABS

Microwave Engineering & Optical communications Lab

6. Micro Processor and Micro Controller Lab

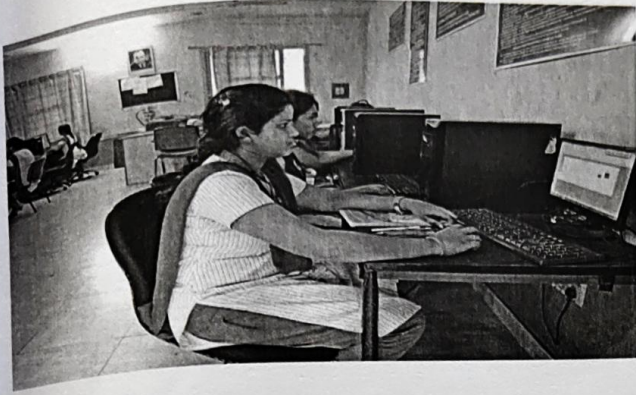


CURRICULUM LABS

Micro Processor and Micro Controller Lab

Digital signal processing lab

7.ECAD/DSP LAB



CURRICULUM LABS

Digital Ic Design Lab

VLSI Design lab

IOT lab

ARM Based programming Lab

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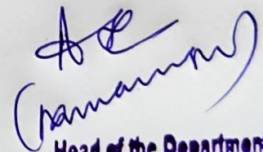
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NON-TEACHING STAFF DETAILS

S.NO	EMPLOYEE NAME	QUALIFICATION	JOINING DATE	DESIGNATION
1	Mr. M.RAJA BABU	DIPLOMA	01/09/2003	Lab Technician
2	Mr. G.NAGA PRASAD	B.TECH	05/05/2005	Lab Technician
3	Mr. K.V.RAMESH	DIPLOMA	04/09/2006	Lab Technician
4	Mr. M. VENKATESWARA RAO	DIPLOMA	20/08/2007	Lab Technician
5.	Mr. D. SIVA PRASAD	B.TECH	01/06/2023	Lab Technician
6	Mr. D. D. BULLEBHAI	B.TECH	01/06/2023	Lab Technician
7	Ms. B. MADHURI LAKSHMI	B.TECH	01/06/2023	Lab Technician


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6.2 Additional Facilities Created for Improving the Quality of Learning Experience in Laboratories

No.	Name of Facility	Details	Reason(s) for Creating Facility	Utilization	Areas in which Students are Expected to have Enhanced Learning	Relevance to POs/PSOs
1	Skill Development Activity	HP Desktops- 6, MATLAB 7.9 Licensed version, Xilinx ISE Software, Mentor graphics, ARDUINO IDE, Keil software, Arduino uno boards, Node MCU, Sensors	To enhance the knowledge in new technologies	Complete semester is opened to utilize	Embedded, VLSI, IoT, Antenna Design.	PO1, PO2, PO3, PO4, PO5, PO9, PO11 & PSO1
2	Common computer center	Laboratory provided with 30 computers and is provided with internet speed of 150 Mbps	A common lab that can be utilized for various academic works	Utilized by all the student and faculty	To learn cutting edge technologies and to keep abreast happenings in technological areas	PO4, PO5, PSO1
	BVC e-Learning Portal (Reference Globe)	e-learning through LAN/WAN	An on line communication platform between students and faculty were the students can interact with faculty from beyond college hours	Utilized by both students and faculty	Updated learning on all technical subjects	PO5
4	Video (NITTTR, Chandigarh Remote center)	An ICT enabled process to reach out and engage a large number of teachers, and through them, a much large number of students	To interact with the professors from NITTTR, Chandigarh and for conducting workshops	Utilized by all the students and faculty	Enhanced learning through various technical sessions from NITTTR, Chandigarh professors	PO12

NPTEL facility	Video courses pertaining to Engineering, Science & Humanities Streams	To have a seamless learning experience for the students	Utilized by all the students and faculty	Enhanced learning on various subjects	PO1 & PO12
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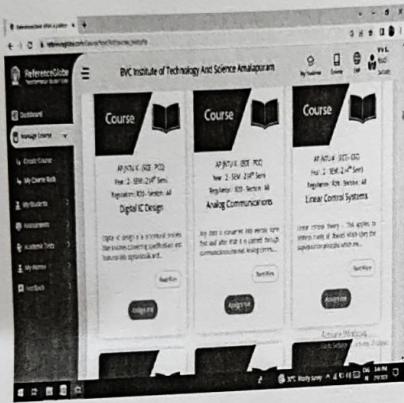
Table 6.2 Availability and relevance of additional facilities and POs mapping

Additional/ Design Experiments

Sl. No	Name of Facility	Details	Reason(s) for Creating Facility	Utilization	Areas in which Students are Expected to have Enhanced Learning	Relevance to POs/PSOs
1	Additional facility in Digital IC Design Lab	Design of Universal Shift Register 74194 using Xilinx software	To enhance the knowledge in creating new ideas and to implement	Utilized by all the students and faculty	Enhanced learning on various Additional experiments in labs	PO1,PO5
2	Additional facility in VLSI Lab	Design and implementation of Encoder using mentor graphics	To enhance the knowledge in creating new ideas and to implement	Utilized by all the students and faculty	Enhanced learning on various Additional experiments in labs	PO1,PO3, PO4,PO5, PSO1
3	Additional facility in Digital Signal Processing Lab	Auto correlation function of given sequence using MATLAB	To enhance the knowledge in creating new ideas and to implement	Utilized by all the students and faculty	Enhanced learning on various Additional experiments in labs	PO3
4	Additional facility in Linear IC Applications Lab	Design of Digital To Analog (D/A) Converters (4 bit R-2R Ladder type DAC) using bread board and components.	To enhance the knowledge in creating new ideas and to implement	Utilized by all the students and faculty	Enhanced learning on various Additional experiments in labs	PO1, PO2,PO3, PO4,PO9, PSO1
5	Additional facility in Micro Processors & Micro Controllers Lab	Sum of n natural numbers & String operations in Emulator using MASM	To enhance the knowledge in creating new ideas and to implement	Utilized by all the students and faculty	Enhanced learning on various Additional experiments in labs	PO1,PO5, PSO2

6	Additional facility in Electronic Circuit Analysis Lab	Design of Current series feedback amplifier	To enhance the knowledge in creating new ideas and to implement	Utilized by all the students and faculty	Enhanced learning on various Additional experiments in labs	PO3,PO5, PSO1
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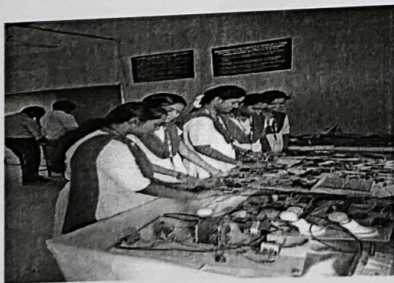
Table 6.2 b Availability and relevance of additional facilities in labs and pos mapping



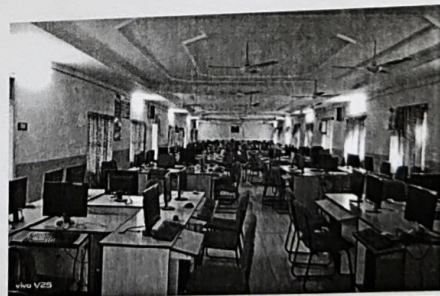
BVC e-learning Portal (Reference Globe)



NITTR, Chandigarh (Remote center)



PROJECT LAB



COMMON COMPUTING CENTER

B. P.

[Signature]
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6.3 Laboratories Maintenance and Overall Ambiance

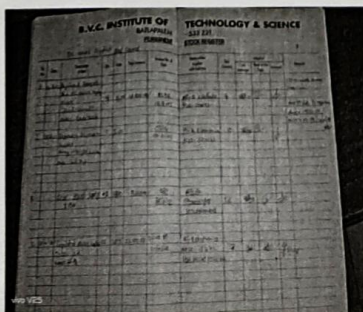
All the Laboratories has an advisory committee under the supervision of department HOD involving representatives from all laboratory activities in the area of problems, maintenance, discipline and security of the students. The Committee members meet twice in the year. The major responsibility of the committee is to monitor all the laboratory activities related to its operation and maintenance.

LAB MAINTENANCE COMMITTEE

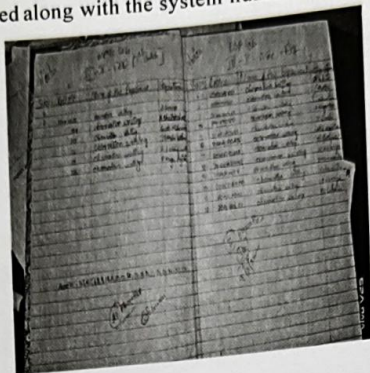
S. No	Name of the Laboratory	Faculty in charge
1	Electronic Devices and Circuits lab	D.V. SATISH
2	EC / PDC Lab	R. SATISH KUMAR
3	IC Applications Lab	V.PRASANNA LAKSHMI
4	Analog communications & Digital communications Lab	P. GIRISH
5	Microwave Engineering Lab	A. SARMA
6	Micro Processor and Micro Controller Lab	T. ADITYA KUMAR
7	ECAD/DSP LAB	D.SURIBABU

Maintenance:

- Service of the equipment is carried out regularly at the end of every semester.
- The following are the registers maintained in the lab.
- Stock register – All the equipment details are available along with the purchase order.



- Log register - The particulars of the login and logout time of the students are maintained along with the system numbers.



- Maintenance register- Periodical maintenance details are recorded in the register.
- All necessary PC system regular software like Microsoft office, browser, lab software etc., is installed and maintained.
- All the labs are well equipped.
- Laboratory manual is available in both hard and soft copies to students.
- Laboratory manual are distributed to students.
- All the labs are conducted and evaluated every week.
- Each Lab is equipped with white/black board, computer and such other amenities.


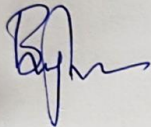
Ambiance:

- Department has Full furnished and well-equipped which shall cater to all UG courses as per curriculum requirements.
- Windows are covered with Curtains to keep lab warm during the cold season and cool during the summer.
- Conditions of chairs/benches are in good condition.
- Sufficient number of windows is available for ventilation and natural light and every lab has one exit.
- Lighting system is very effective along with the effective natural light every corner of the rooms.
- Student achievements flex and motivational Quotes are displayed in laboratories to motivate the students

Skilled development program for technical staff

The following programs are conducted for the technical staff to enhance their skills

S. No	List of skilled development programs for technical staff	No of staff benefited
1	Awareness Programme on Electronic components testing	3
2	Workshop on MS Office Tools	4
3	Awareness program on Electrical safety and first aid	4
4	Skill Development Program on MATLAB and Xilinx	4
5	Seminar on "Introduction to IOT"	4
6	Workshop on Maintenance of Electronics Equipment	4



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6.4 Project Laboratory

- The Department has established exclusive project Laboratory to meet the needs of students.
- The project Laboratory facilities are open to students within and beyond working hours based on the demand.
- Various equipment and Laboratory are used by students of the departments for completion of their projects.

Details of the Facility and Utilization of project lab with equipment:

S. No	Name of the Laboratory	Name of the important equipment	Name of the software's available	Utilization
1	Projects lab	Desktop systems 6 with Intel core I3 processor, 4 GB RAM, 500GB HDD. Cathode ray oscilloscope, Arduino uno boards, Node MCU, SENSORS	MATLAB 7.9 (licensed version) Software Tools Simulink tool box Arduino IDE, KEIL Software, Xilinx 8.1i (licensed version) Software, Multisim P-Spice software	Students utilizing for completing their Major and mini Projects models are guided with our faculty in various fields of engineering



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y 2022-23 PROJECT LIST

Sl. No.	Regd. No.	Project Title	Guide Name	Domain	Field	Type
1.	19H41A0452	ARDUINO BASED DRIVER DROWSINESS DETECTION, ALERTING & SPEED CONTROLLIN	R .SATISH KUMAR	EMBEDDED	SAFETY&SECURITY	PROTOTYPE
	19H41A0427					
	19H41A0409					
	206M5A0414					
	206M5A0413					
2.	19H41A0422	SMART HELMET USING ARDUINO	GHANCHI SAMPATHLAL	EMBEDDED	SAFETY&SECURITY	PROTOTYPE
	19H41A0404					
	19H41A0416					
	19H41A0447					
	19H41A0460					
3.	20H45A0401	IOT BASED INDUSTRIAL PROTECTION SYSTEM	DULAM DURGA SURI BABU	IOT	SAFETY	PROTOTYPE
	19H41A0449					
	19H41A0436					
	19H41A0448					
4.	20H45A0406	SMART TRAFFIC MAINTAINENCE SYSTEM USING ARDUINO	MOSES VARAPRASAD GUMMADI	EMBEDDED	SAFETY	PROTOTYPE
	19H41A0440					
	19H41A0425					
	19H41A0463					
5.	19H41A0401	SRAM RELIABILITY IMPROVEMENT USING ECC FOR MULTIPLE ADJACENT BIT ERRORS	VENKATA SATISH DHULIPUDI	VLSID	CHIP DESIGN	SIMULATION
	19H41A0415					
	19H41A0455					
	19H41A0433					
6.	20H45A0405	Webcam Robot Using Raspberry Pi for Surveillance	N SUVARNA PARVATHI LAKSHMI	EMBEDDED	SECURITY	PROTOTYPE
	19H41A0421					
	19H41A0412					
	19H41A0464					
7.	19H41A0443	AUTOMATIC INDOOR HYDROPONIC PLANT GROW POT USING ARDUINO	KORIMILLI SIRISHA	EMBEDDED	SAFETY&HYGENIC	PROTOTYPE
	19H41A0446					
	19H41A0454					
	19H41A0432					
	19H41A0429	SMART DOOR USING	V PRASANNA	EMBEDDED	SECURITY	PROTOTYPE



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A.Y 2022-23 PROJECT LIST

8.	206M5A0411	BIOMETRIC NFC BAND AND OTP BASED METHODS	LAXMI			
	20H45A0402					
	19H41A0457					
9.	19H41A0406	DESIGN OF LOG PERIODIC DIPOLE ARRAY ANTENNA AND LOG PERIODIC KOCH DIPOLE ARRAY ANTENNA	BODDAPALLI VENKATARAMANA	ANTENNA		PROTOTYPE
	19H41A0451					
	19H41A0414					
	19H41A0459					
10.	20H45A0404	RFID BASED PRODUCTION DATA ANALYSIS IN AN IOTENABLED SMART JOB SHOP	JYOTHIRMAI KANCHANAPALLY	IOT	INDUSTRIAL AUTOMATION	PROTOTYPE
	19H41A0411					
	19H41A0462					
	19H41A0413					
11.	19H41A0408	SMART CAR PARKING USING IOT	GUNJA VIJAYARAJU	IOT	AUTOMATIC VEHICLE STORAGE	PROTOTYPE
	19H41A0461					
	193B1A0404					
	19H41A0402					
12.	19H41A0424	CONGESTION AWARE LOW POWER ON CHIP PROTOCOLS WITH NOC WITH CLOUD SECURITY	TIKKIREDDI ADITYA KUMAR	VLSI	CHIP DESIGNS	SOFTWARE
	19H41A0445					
	19H41A0417					
	19H41A0458					
13.	19H41A0439	VEHICLE THEFT DETECTION/NOTIFICATION AND REMOTE ENGINE LOCKING	MANGIPUDI V V S N MURTHY	EMBEDDED	AUTOMATION	PROTOTYPE
	19H41A0430					
	19H41A0419					
	19H41A0437					
14.	19H41A0450	VEHICLE MOVEMENT STREET LIGHT WITH AUTOMATIC LIGHT SENSING	MATTAPARTHI SWETHA MALLIKA	EMBEDDED	AUTOMATION	PROTOTYPE
	19H41A0418					
	19H41A0405					
	20H45A0407					
15.	206M5A0408	IOT BASED WEATHER MONITORING SYSTEM IN RURAL AREAS	GIRISH PECHETTI	IOT	WEATHER MONITORING	PROTOTYPE
	19H41A0441					
	19H41A0453					
	19H41A0456					
16.	19H41A0407	ARDUINO BASED COLOR SORTING MACHINE	V V SATYANARAYANA KONA	IOT	COLOR SORTING	PROTOTYPE
	19H41A0434					
	19H41A0435					



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A.Y 2022-23 PROJECT LIST

	19H41A0442					
17.	19H41A0444	OBSTACLE DETECTION USING LIDAR MODULE	SARMA ADITHE			
	19H41A0420					
	19H41A0438					
	19H41A0423					
18.	20H45A0403	UNDERWATER IMAGE ENHANCEMENT USING ADAPTIVE RETINAL MECHANISMS	V V S R K K PAVAN BH	IMAGE PROCESSING	IMAGE ENHANCEMENT	SOFTWARE
	19H41A0428					
	19H41A0410					
	19H41A0403					

19.	206M5A0421	IOT BASED SMART ASSISTANCE GLOVES FOR DISABLED PEOPLE	SARMA ADITHE	IOT	SAFETY & SECURITY	PROTOTYPE
	19H41A04A3					
	19H41A0490					
	19H41A04A8					
20.	20H45A0408	MOTION BASED MESSAGE CONVEYER FOR DISABLED PEOPLE	BODDAPALLI VENKATARAMAN A	EMBEDDED	PROTOTYPE	PROTOTYPE
	19H41A0491					
	19H41A0470					
	19H41A04B7					
21.	206M5A0418	BABY MONITORING SYSTEM USING IOT	MATTAPARTHI SWETHA MALLIKA	IOT	SECURITY	PROTOTYPE
	19H41A0498					
	19H41A0482					
	19H41A0496					
22.	19H41A04A7	FINGER PRINT VEHICLE STARTER WITH AGE LIMIT	KANCHERLA AJITA LAKSHMI	IOT	SECURITY	PROTOTYPE
	19H41A04C6					
	19H41A04B8					
	19H41A04A1					
23.	206M5A0417	MONITOR AND CONTROL OF GREEN HOUSE USING MULTIPLE SENSORS USING IOT	JYOTHIRMAI KANCHANAPALLY	EMBEDDED	HOME AUTOMATION	PROTOTYPE
	19H41A04C2					
	19H41A0495					
	19H41A0485					
24.	19H41A04B0	RFID BASED SMART TROLLEY WITH	KORIMILLI SIRISHA	EMBEDDED	MARKETING	PROTOTYPE
	19H41A04A0					
	19H41A04B2					



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	19H41A0474	AUTOMATED BILLING USING ARDUINO				
25.	20H45A0409	DESIGN AND DEVELOPMENT OF IRRIGATION SYSTEM FOR PLANTING	Dr.D.S.SAMBASIV A RAO	EMBEDDED	IRRIGATION	PROTOTYPE
	19H41A04A9					
	19H41A0489					
	19H41A04C1					
26.	206M5A0422	IOT BASED WEATHER MONITORING SYSTEM IN RURAL AREAS	GIRISH PECHETTI	IOT	WEATHER MONITORING	PROTOTYPE
	19H41A0466					
	19H41A04B5					
	19H41A0483					
27.	20H45A0411	DESIGN OF LOG PERIODIC MICROSTRIP ANTENNA ARRAY FOR WLAN AND WIMAX APPLICATIONS	R SATISH KUMAR	ANTENNA	COMMUNICATION	PROTOTYPE
	19H41A04C3					
	19H41A0469					
	19H41A0493					
28.	19H41A0472	IOT BASED DRUNKEN DRIVING DETECTION AND ACCIDENT PREVENTION SYSTEM BY USING RASPBERRY PI 3	MANGIPUDI V V S N MURTHY	IOT	SECURITY	PROTOTYPE
	19H41A04B4					
	19H41A0477					
	19H41A04B6					
29.	20H45A0412	DATA LOGGING USING MICROSD & RASPBERRY PI PICO	BONAM VIJAYA LAKSHMI	EMBEDDED	INDUSTRIAL	PROTOTYPE
	19H41A0471					
	19H41A0468					
	19H41A04C5					
30.	19H41A04A4	IOT BASED MANHOLE DETECTION AND MONITORING SYSTEM	N SUVARNA PARVATHI LAKSHMI	IOT	SAFETY	PROTOTYPE
	19H41A0481					
	20H45A0413					
	20H45A0410					
31.	19H41A0478	IOT BASED SMART ASSISTANCE GLOVES FOR DISABLED PEOPLE	V PRASANNA LAXMI	IOT	BIO MEDICAL ASSISTANCE	PROTOTYPE
	19H41A0475					
	19H41A04B1					
	19H41A0465					
32.	19H41A0487	LOW POWER SMART VEHICLE TRACKING, MONITORING COLLISION AVOIDANCE AND ANTITHEFT SYSTEMS	VENKATA SATISH DHULIPUDI	IOT	SECURITY	PROTOTYPE
	19H41A04C0					
	19H41A04C7					
	19H41A0494					



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y 2022-23 PROJECT LIST

33.	19H41A04A5	IOT BASED SMART AGRICULTURE	MOSES VARAPRASAD GUMMADI	IOT	AGRICULTURE	PROTOTYPE
	19H41A0473					
	19H41A0488					
	19H41A0497					
34.	19H41A0467	JCS: AN EXPLAINABLE COVID-19 DIAGNOSIS SYSTEM BY JOINT CLASSIFICATION AND SEGMENTATION	V V S R K K PAVAN BH	IMAGE PROCESSING	MEDICAL IMAGE APPLICATION	SOFTWARE
	206M5A0416					
	19H41A04A6					
	19H41A04B9					
35.	19H41A0479	PREPAID ELECTRICITY BILLING SYSTEM USING GSM AND ARDUINO	GUNJA VIJAYARAJU	IOT	MONITORING & CONTROLLING	PROTOTYPE
	19H41A0476					
	19H41A04C4					
	19H41A0486					
36.	19H41A04B3	VOICE CONTROLLED ROBOT WITH METAL DETECTION AND HUMAN DETECTION	TIKKIREDDI ADITYA KUMAR	IOT	SECURITY	PROTOTYPE
	19H41A0492					
	19H41A0480					
	19H41A04A2					

PROJECT CO-ORDINATOR

DEPT OF ECE

(Signature)
Head of the Department
Electronics & Communication Engineering
B.V.C. Institute of Technology and Science
Batlapalem, Amalapuram - 533 201



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

2016 - 20 Project List

S.NO	Regd. No.	Project Title	Guide Name	Domain	Field	Type	PO / PSO
1.	16H41A0419	Hand-Talk Glove	A. Sarma	Embedded	Automation	Prototype	PO1 -
	16H41A0410						PO5,
	17H45A0407						PO8 -
	17H45A0408						PO12, PSO1, PSO2
2.	16H41A0416	IoT Based Early Flood Detection and Control System Using Arduino MegaMicrocontroller	V Ramoji	Embedded	Safety	Prototype	PO1 -
	16H41A0448						PO5,
	16H41A0459						PO8 -
	16H41A0447						PO12, PSO1, PSO2
3.	16H41A0449	Advanced Footstep Power Generation System Using RFID For Charging	V.Prasanna Laxmi	Embedded	Automation	Prototype	PO1 -
	16H41A0444						PO5,
	17H45A0406						PO8 - PO12, PSO1, PSO2
4.	17H45A0404	Insightful Road Traffic Control System	Y.N.S. Vamsi Mohan	Embedded	Safety	Prototype	PO1 -
	16H41A0435						PO5,
	16H41A0455						PO8 -

	16H41A0411						PO12, PSO1, PSO2
5.	16H41A0407	Design and Development	B.V. Ramana	Antenna	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0415	of Four Elements					
	17H45A0402	Rectangular Dielectric					
	16H41A0451	Resonator Antenna for Bluetooth Applications					
6.	16H41A0454	Guitar Shaped Planar	R. Satish Kumar	Antenna	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16221A0496	Monopole C Shaped DGS					
	17H45A0409	For Wideband Application					
	16H41A0427						
7.	16H41A0413	Design of Combinational	Ch. Ravi Shankar	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0457	Circuits Using Reversible					
	16H41A0406	Decoder					
	16H41A0438						
8.	17H45A0401	Smart home Via Mobile	G. Ramprabu	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H45A0405	App					
	16H41A0460						
	17H45A0410						
9.	16H41A0432	Agriculture & Field	A Srinivas Rao	IoT	Agriculture	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0431	Monitoring Using IoT					
	16H41A0437						
	16221A04D6						

10.	16H41A0409	SMART GARBAGE	D Tulasi	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0403	MONITORING					
	16H41A0408	USING IoT					
	16H41A0443						
11.	16H41A0405	Water Quality and Level	B. Vijaya Lakshmi	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0402	Monitoring System Using					
	16H41A0412	IoT					
	16H41A0441						
	16H41A0429	Smart Gardening Using	Ch Nagaraju	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0440	Email Notification					
	16H41A0425						
	16H41A0433						
12.	16H41A0434	Smart Solar Power	Dr.G.M.V.PRASA D	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0430	Management System					
	16H41A0450						
	16H41A0453						
13.	16H41A0456	An Adaptive Routing	Karri Srinivas	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0422	Algorithm on NOC With					
	16H41A0446	Encryption					
	16H41A0424						
14.	16H41A0428	Bio Telemonitoring of	P. Girish	IoT	Health	Prototype	PO1 – PO5, PO8 –
	16H41A0421	Pregnant Women Health					
	16H41A0442	Using IoT					

	16H41A0420						PO12, PSO1, PSO2
15.	16H41A0418	IoT Based Health Monitoring System	K Sirisha	IoT	Health Care	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0439						
	16H41A0436						
16.	16H41A0423	Voice Controlled Robot Using Arduino	K. Ajitha Lakshmi	Embedded	Robotics	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0417						
	16H41A0452						
	16H41A0426						
17	16H41A04A8	Industrial Monitoring Using IoT and Raspberry Pi	B.V. Ramana	IoT	Monitoring	Prototype	PO1 – PO5, PO8 – PO12, PSO1 , PSO2
	16H41A0484						
	16H41A0465						
	16H41A0478						
18	16H41A0485	Smart Coal Mining	R. Satish Kumar	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A04A4						
	16H41A0498						
	16H41A0494						
19	16H41A0479	Smart Apartment Vehicle Parking Using RFID	S. Raghava Rao	Embedded	Automatio	Prototype	PO1 – PO5,
	16H41A0472						
	16H41A0476						

	16H41A04B0						PO8 - PO12 , PSO1 , PSO2
20	16H41A0488	Home Automation Using	S.V.S.M. Madhulika	Embedded	Automation	Prototype	PO1
	16H41A04A5	Google Assistant					-
	16H41A04A3						PO5, PO8
	16H41A0481						- PO12 , PSO1 , PSO2
21	16H41A0497	Intruder Monitoring and	Dr.G.M.V.PRASA D	Embedded	Security	Prototype	PO1
	16H41A0461	Alerting System					-
	16H41A0466						PO5, PO8
	16H41A0475						- PO12 , PSO1 , PSO2
22	16H41A0463	Home Automation Using	Ch. Naresh	IoT	Automation	Prototype	PO1 -
	16H41A0493	MQTT					PO5,
	16H41A04A2						PO8 -
	16H41A04A1						PO12, PSO1, PSO2

23	16H41A0464	Women Safety & Security Using IoT	K Sirisha	IoT	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0486						
	16H41A04A9						
	16H41A04B7						
24	16H41A0499	Smart Vehicle Anti-Theft and Accident Detection	D Tulasi	Embedded	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A04B5						
	16H41A0477						
	16H41A0480						
25	16H41A0473	Low Dense and Low Power Bus Architecture Using Modified ETI For Serial Links	V Prasanna Laxmi	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0483						
	16H41A0470						
	16H41A0467						
26	16H41A0487	Automatic Goods Transporter Using Arduino	Vamsi Mohan	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0474						
	16H41A0482						
	16H41A04B6						
27	16H41A04A7	A Low Power and Small Area Multiplier for Accuracy Scalable Approximate Computing	Ch. Ravi Shankar	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0490						
	16H41A0495						
	16H41A04B1						
28	16H41A04A0	A Peculiar Access to Furnish Shield for Women Using Alert	D. Krathi Kumar	IoT	Security	Prototype	PO1 – PO5, PO8 –
	17H45A0416						
	16H41A0492						

	16H41A04B4	Immune Gadget					PO12, PSO1, PSO2
29	16H41A0462	Design of Efficient DSP	A Srinivas Rao	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0496	Operation Using 16x16 R-MAC					
	16H41A04B9						
	16H41A0471						
30	16H41A04B2	Low Power FPGA Based	NSP Lakshmi	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	16H41A0468	on Power Gating					
	16H41A04B3						
	16H41A04C0						
31	17H45A0412	IoT And RFID Based	A. Sarma	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H45A0419	Rationing System					
	17H45A0414						
	17H45A0417						
	16H41A0469						
32	17H45A0420	Smart Grocery	G Ramprabu	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H45A0413	Management Using IoT					
	17H45A0418						
	17H45A0415						
	17H45A0411						



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

2017 - 21 Project List

S.N O	REGD.NO.	PROJECT TITLE	GUIDE NAME	Domain	Field	Type	PO / PSO
1.	17H41A0437	The Can Protocol Based Embedded System to Avoid Rear-End Collision Of Vehicles	Mr. G Vijay Raju	Embedded	Automotive	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0402						
	17H41A0428						
	18H45A0406						
	17H41A0431						
2.	17H41A0458	IoT - Driven Automated Object Detection Algorithm for Urban Surveillance Systems In Smart Cities.	Mr. M V V S N Murty	IoT	Surveillance	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0438						
	17H41A0435						
	17H41A0413						
	17H41A0407						
3.	17H41A0439	Arduino Based Weather Reporting Over IoT	Mrs. K Ajitha Lakshmi	IoT	Monitoring	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H45A0402						
	17H41A0442						
	17H41A0425						
	18H45A0405						
4.	17H41A0416	Configurable Medication Reminding System	Mr. Sarma Adithe	Embedded	Monitoring	Prototype	PO1 - PO5, PO8 -
	18H45A0407						
	18H45A0408						

	17H41A0405						PO12, PSO1, PSO2
5.	17H41A0418	IoT Based Smart Agriculture System	Dr. G Ramprabu	IoT	Agriculture	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0401						
	17H41A0453						
	17H41A0412						
6.	17H41A0411	Social Distancing Alert System	Mr. D V Satish	Embedded	Safety	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H45A0410						
	18H45A0409						
	17H41A0426						
7.	17H41A0446	Design of An IoT Based Autonomous Vehicle With The Aid Of Computer Vision	Mr. P Girish	IoT	Automotive	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0433						
	17H41A0450						
	17H41A0404						
8.	17H41A0444	Solar Panel Dual Management System	Dr. K Sirisha	Embedded	Automation	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0434						
	17H41A0457						
	17H41A0429						
9.	17H41A0448	Sierpinski Carpet Fractal Antenna by Using HFSS Software	Mr. R Satish Kumar	Antenna	Communication	Simulation	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0454						
	18H45A0411						
	18H45A0403						

10.	17H41A0406	Design of UWB CPW – Fed Monopole Antenna With Variable Triple-Band-Notched Property	Mr. B V Ramana	Antenna	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0409						
	18H45A0412						
	17H41A0414						
11.	17H41A0424	Rf Controlled Robotic Vehicle with Metal Detector	Mr. T Aditya Kumar	Embedded	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0415						
	17H41A0408						
	17H41A0419						
12.	17H41A0430	IoTBased Waste Management System for Smart Cities	Mr. V VSatyanarayana Kona	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0436						
	17H41A0427						
	17H41A0421						
13.	17H41A0417	Low Cost Assistive Out Door Navigation System for Blind People	Mrs. G Vijaya Lakshmi	Embedded	Navigation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0441						
	17H41A0410						
	17H41A0456						
14.	17H41A0432	Vehicle Theft Intimation	Mr. D Krathi Kumar	Embedded	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0459						
	17H41A0440						
	18H45A0404						
15.	17H41A0449	Identifying Parking Spaces and Detecting Occupancy Using Vision Based IoT	Mrs. V Prasanna Laxmi	IoT	Automation	Prototype	PO1 – PO5, PO8 –
	17H41A0452						
	18H45A0401						

	17H41A0447	Devices					PO12, PSO1, PSO2
16.	17H41A0455	IoT Health Monitoring for Comatose Patients	Dr. G M V Prasad	IoT	Medical	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0443						
	17H41A0420						
	17H41A0451						
17.	17H41A0479	Overloaded CDMA Crossbar for Network on Chip	Mr. T Aditya Kumar	VLSI	Communication	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0467						
	17H41A0470						
	17H41A0474						
	17H41A0472						
18.	17H41A0466	Smart Water Management Using IoT	Mr. V VSatyanarayana Kona	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0473						
	17H41A04A8						
	17H41A0497						
	17H41A0477						
19.	17H41A0478	RFID Based Production Data Analysis in an IoT Enabled Smart Job Shop	Mrs. K Jyothirmai	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0492						
	17H41A04B2						
	17H41A0490						
	17H41A0482						
20.	17H41A04B7	Automatic Unauthorized Parking Detector with SMS Notification to Owner	Mr. Sarma Adithe	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A04B1						
	18H45A0422						
	17H41A0499						

21.	17H41A0461	Tunable Band-Notched UWB Antenna with Open Loop Resonator Using Lumped Capacitors	Mr. R Satish Kumar	Antenna	Communication	simulation	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H45A0417						
	17H41A0480						
	18H45A0419						
22.	17H41A0463	Design of Bus Tracking and Fuel Monitoring System	Mr. P Girish	Embedded	Automotive	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H45A0423						
	18H45A0414						
	17H41A04A1						
23.	17H41A0486	Automated Billing System Based on RFID	Mrs. D Tulasi	Embedded	automation	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H45A0420						
	18H45A0418						
	18H45A0415						
24.	17H41A0469	Design of Rectangular Microstrip Patch Antenna for X Band Applications	Mr. B V Ramana	Antenna	Communication	simulation	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A0464						
	17H41A0465						
	17H41A0491						
25.	17H41A0471	Real Time Fish Pond Monitoring and Automation Using Arduino	Dr. G M V Prasad	Embedded	Monitoring	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	17H41A04A6						
	17H41A04A0						
	17H41A0496						
26.	17H41A0475	Air Pollution Monitoring System Using IoT	Mr. D Suribabu	IoT	Monitorin g	Prototype	PO1 - PO5, PO8 -
	17H41A0462						
	17H41A04A2						

	17H41A04A5						PO12, PSO1, PSO2
27.	17H41A0488	Voice Controlled Home	Mr. G Sampath Lal	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A0495	Automation					
	18H45A0424						
	17H41A0494						
28.	17H41A04B3	Voice Based Notice Board	Mrs. N S P Lakshmi	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A04A3	Using Android					
	17H41A0460						
	17H41A0476						
29.	17H41A0485	Fingerprint Biometric	Ms. M S Mallika	Embedded	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A04A7	Controlled Smart Banking					
	17H41A0498	Machine Embedded with GSM					
	18H45A0421	Technology for OTP					
30.	17H41A04B0	Design and Implementation of	Mrs. V Prasanna Laxmi	Embedded	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A04A9	a Fingerprint Based Lock					
	17H41A04B5	System for Shared Access					
	17H41A0487						
31.	17H41A0489	Design of Energy Efficient IoT	Mr. Ch Ravi Shankar	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	17H41A04B6	Enabled Smart System Based					
	17H41A04B8	on Dial Network Over MQTT					
	17H41A04A4	Protocol					

32.	17H41A0493	Fire Fighting Robot	Dr. K Sirisha	Embedded	Safety	Prototype	PO1 -
	18H45A0413						PO5,
	17H41A0481						PO8 -
	18H45A0416						PO12, PSO1, PSO2



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

B.2018 – 22 Project List

Sl. No.	Regd. No.	Project Title	Guide Name	Domain	Field	Type	PO / PSO
1.	19H45A0401	Detection and Classification of Alzheimer's Disease Using Noisy Deep Dictionary Learning	RAMPRABU GOWTHAMAN	Machine Learning	Medical	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0434						
	18H41A0418						
	18H41A0437						
2.	18H41A0427	Automatic Water Theft Detection and Quality Identification	SARMA ADITHE	Embedded	Home Safety & Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0423						
	18H41A0443						
	18H41A0419						
3.	19H45A0412	Advanced Embedded System Remote Control Robot Navigation System Using Arduino	MOSES VARAPRASAD GUMMADI	Embedded	Navigation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0422						
	18H41A0401						
	18H41A0451						
4.	18H41A0452	Raspberry Pi Based Robotic Arm Using Bluetooth	VENKATA SATISH DHULIPUDI	Embedded	Robotics	Prototype	PO1 – PO5, PO8 –
	18H41A0435						
	18H41A0416						

	18H41A0448						PO12, PSO1, PSO2
5.	18H41A0432	Baby Monitoring System Using Arduino	V V SATYANRAYANA KONA	Embedded	Home Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0403						
	18H41A0414						
	18H41A0406						
6.	18H41A0426	Webcam Robot Using Raspberry Pi for Surveillance	RAMPRABU GOWTHAMAN	Embedded	Robotics	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0409						
	19H45A0403						
	18H41A0404						
7.	18H41A0433	Raspberry Pi	MATTAPARTHI SWETHA MALLIKA	Embedded	Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0442	Processor Based					
	19H45A0407	ATM Terminal Design for Fingerprint					
	18H41A0430	Combination for Privacy Protection					
8.	19H45A0406	Raspberry Pi and Image Processing Based Electronic Voting Machine (EVM)	KORIMILLI SIRISHA	Embedded	automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0410						
	18H41A0440						
	18H41A0424						
9.	19H45A0408	IoT Mining Tracking and Worker Safety Helmet	GUNJA VIJAYARAJU	IoT	Safety	Prototype	PO1 – PO5, PO8 –
	18H41A0413						
	18H41A0417						

	17H41A0423						PO12, PSO1, PSO2
10.	19H45A0405	Dielectric Resonator Antenna (Dra)	BODDAPALLI VENKATA RAMANA	Antenna	Communication	Simulation	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	19H45A0411						
	18H41A0429						
	18H41A0415						
11.	19H45A0404	Students Attendance Monitoring & Access Control Using Embedded Linux OS Based Raspberry Pi	RAMPRABU GOWTHAMAN (PAVAN)	Embedded	Monitoring	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H41A0444						
	19H45A0410						
	18H41A0449						
12.	18H41A0412	Circularly Polarized Cylindrical Dra Patch Antenna for Wireless Applications	R SATISH KUMAR	Antenna	Communication	Simulation	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H41A0428						
	18H41A0420						
	18H41A0431						
13.	18H41A0425	Raspberry Pi Based Home Security Notification System Using Bot Commands of Telegram	GIRISH PECHETTI	IoT	Security & Surveillance	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	18H41A0436						
	18H41A0438						
	18H41A0439						
14.	18H41A0441	Location Based Vehicle Speed Controlling Using Radio Frequency	V PRASANNA LAXMI	Embedded	Automation	Prototype	PO1 - PO5, PO8 - PO12, PSO1, PSO2
	19H45A0402						
	18H41A0450						
	19H45A0409						

15.	18H41A0421	Design and Fabrication of Semi- AI Based Electric Vehicle	TIKKIREDDI ADITYA KUMAR	AI	Automotive	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0445						
	18H41A0402						
	18H41A0407						
16.	19H45A0420	Area and Power Efficient ECC For Multiple Adjacent Bit Errors in SRAMs	JYOTHIRMAI KANCHANAPALLY	VLSI	Memory	Simulation	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	19H45A0417						
	196M5A0406						
	18H41A0485						
	18H41A0466						
17.	18H41A0489	IoT Based Smart Mirror Using Raspberry-Pi	MATTAPARTHI SWETHA MALLIKA	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0486						
	19H45A0422						
	196M5A0405						
18.	18H41A0467	Raspberry Pi Based Robotic Arm Using RF Transceiver	SARMA ADITHE	IoT	Robotics	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	19H45A0418						
	18H41A0488						
	18H41A0477						
19.	18H41A0473	IoT Based Water Management System Using Raspberry Pi	V V SATYANRAYANA KONA	IoT	Safety	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	196M5A0411						
	18H41A0469						
	18H41A04A5						
20.	18H41A0487	Microstrip Patch	BODDAPALLI	Antenna	Communi- cation	Simulatio n	PO1 – PO5, PO8 –
	18H41A0496	Antenna for Rf	VENKATA				
	19H45A0416	Energy Harvesting	RAMANA				

	18H41A0482						PO12, PSO1, PSO2
21.	18H41A0492	E-Notice Board Using Raspberry Pi	TIKKIREDDI ADITYA KUMAR	IoT	Communication	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0476						
	18H41A0491						
	18H41A0471						
22.	18H41A0462	Student College Alert System to Parents by Using RFID and GSM Technology	BONAM VIJAYA LAKSHMI	Embedded	Communication	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0461						
	18H41A0459						
	18H41A0468						
23.	18H41A04A1	Automatic Fire Extinguishing Robot	MOSES VARAPRASAD GUMMADI	Embedded	Safety	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0484						
	18H41A0454						
	18H41A0494						
24.	18H41A0470	Real Time College Alarm Using PC	DONDAPATI KRATHI KUMAR	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	19H45A0413						
	18H41A0481						
	18H41A0479						
25.	19H45A0415	LPG Gas Auto Booking and Leakage Control System	GUNJA VIJAYARAJU	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0455						
	18H41A0456						
	18H41A04A8						

26.	18H41A0464	Accident Prevention and Detection Reporting System	DULAM DURGA SURIBABU	Embedded	Safety	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	196M5A0410						
	18H41A0457						
	18H41A0460						
27.	18H41A04A0	IoT Based Intelligent Communication for Collision Avoidance	KORIMILLI SIRISHA	Embedded	Safety	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0499						
	18H41A0493						
	17221A0499						
28.	18H41A04A2	An Efficient Design of Green House Monitoring and Controlling using Android Mobile Application with Linux Single Board Computer Raspberry Pi	VENKATA SATISH DHULIPUDI	IoT	Safety & Security	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	19H45A0423						
	196M5A0409						
	18H41A0472						
29.	18H41A0497	IoT Based Antenna Positioning System	R SATISH KUMAR	IoT	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	19H45A0414						
	196M5A0408						
	18H41A0495						
30.	18H41A04A4	An Embedded System of Missile Detection and Auto Destroy Using Raspberry Pi	GIRISH PECHETTI	Embedded	Automation	Prototype	PO1 – PO5, PO8 – PO12, PSO1, PSO2
	18H41A0478						
	18H41A0465						
	18H41A0483						

31	18H41A04A7	Smart Irrigation System Using IoT And Cloud	MANGIPUDI V V S N MURTHY	IoT	Agriculture	Prototype	PO1 -
	18H41A0474						PO5,
	196M5A0407						PO8 -
	19H45A0421						PO12,
							PSO1,
							PSO2
32.	18H41A0498	Raspberry Pi Based Smart Car Security for Theft Control and Accident Notification	V PRASANNA LAXMI	IoT	Security	Prototype	PO1 -
	19H45A0419						PO5,
	18H41A0463						PO8 -
	18H41A04A6						PO12,
							PSO1,
							PSO2

B. J.

(Signature)
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BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE

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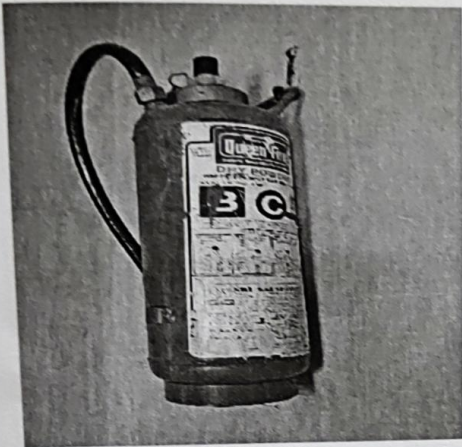
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

6.5 Safety Measures in Laboratories

Sl. No.	Name of the Laboratory	Safety measures
1	Electronic Devices and Circuits Lab	<ul style="list-style-type: none">• Specific Safety Rules like Dos and Don'ts are Displayed and instructed for all students.• First aid box and fire extinguishers are kept in each laboratory.• Students are instructed to wear Lab Apron and shoes.• Well trained technical supporting staff monitor the labs at all times.• Lab technician will pre-check the connection of the circuits before switch on the supply and also necessary soft wares• Antivirus software is installed for protection against viruses and malwares.• External storage devices are not allowed to use in lab.• At all the times the right procedures while starting and shutting down the computer therefore abrupt switching on and off the computer should be avoided since this can lead to Damaging the computer.
2	EC / PDC Lab	
3	IC Applications Lab	
4	Analog communications& Digital communications Lab	
5	Microwave Engineering Lab	
6	Micro Processor and Micro Controller Lab	
7	ECAD/DSP LAB	

	<ul style="list-style-type: none"> • Never use equipment with damaged insulation or broken plugs. • Earth pits are provided in all laboratories. • Safety rubber mats are provided in all laboratories.
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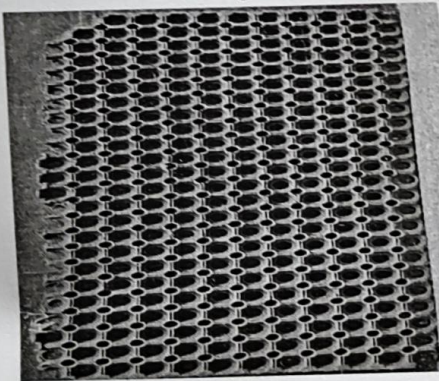
Safety Equipment in Labs



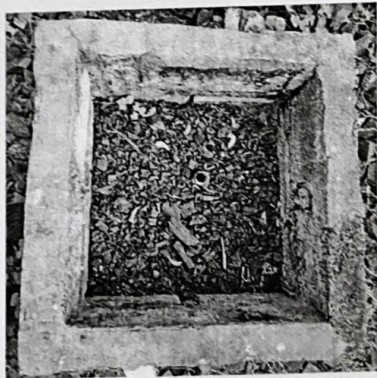
Fire Extinguishers



Fire Sand Buckets



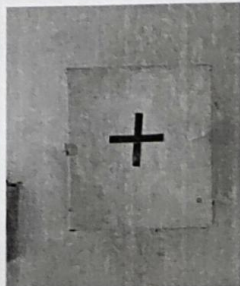
Safety Rubber Mats



Earth Pits



First Aid Box



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 Electronics & Communication Engineering
 B.V.C. Institute of Technology and Science
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By

Car...