V.V.P. ENGINEERING COLLEGE

Approved by AICTE and affiliated to Gujarat Technological University (GTU) , Ahmedabad

राष्ट्राय स्वाहा इदं न मम ।

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Darpan

2022-23 Even
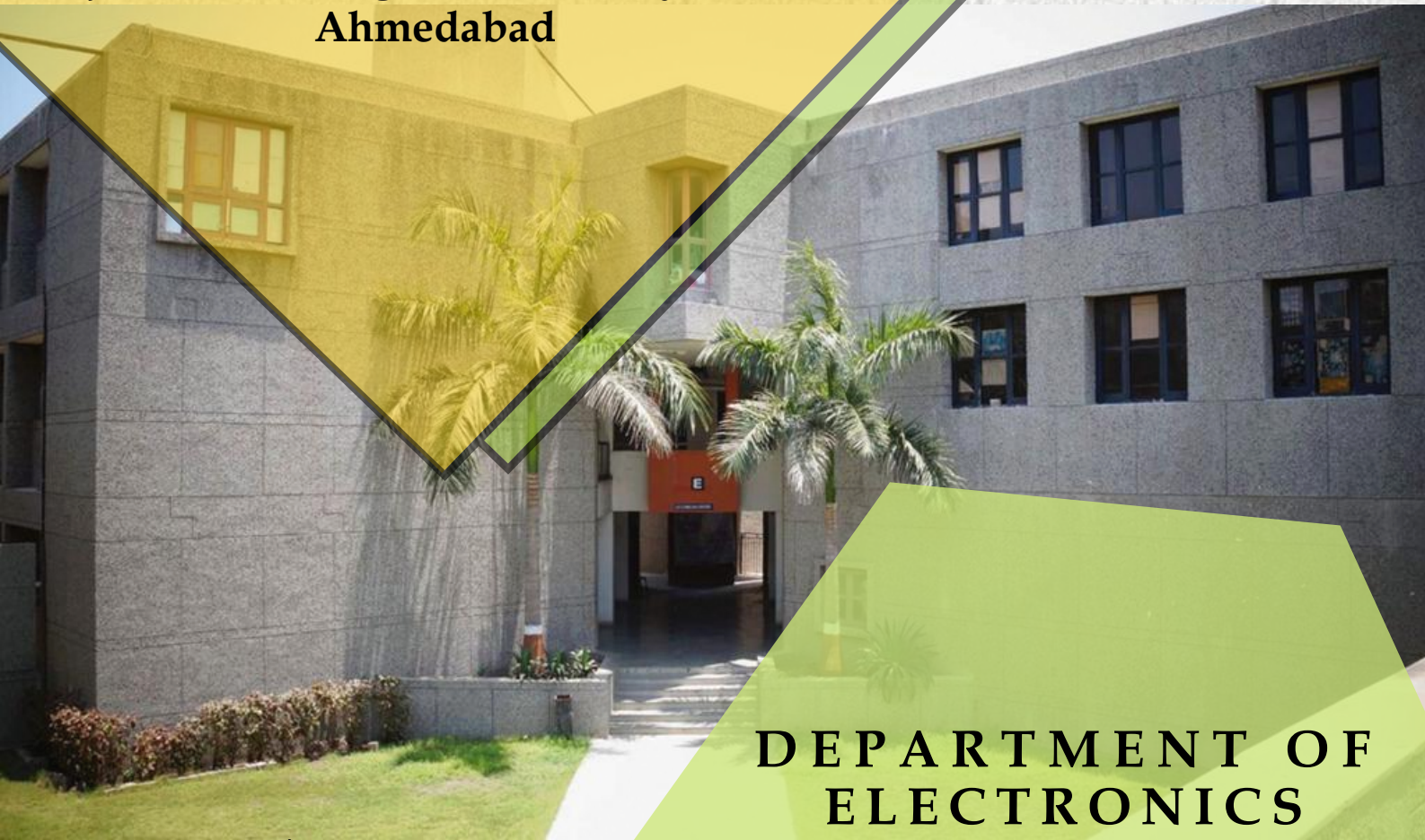
Shri Lalitbhai Mehta

Message from
Chairman – Governing Body

India's energy transition is in its own interest because, otherwise economic growth would not be sustainable and human security would be at stake, since millions of climate changes are created due to the devastating consequences of climate change.

The Prime Minister has committed to increase renewable energy and reach 500 GW target by 2030, which is only 100GW in 2021.

Our wind energy production is only 12.5% of the total potential and solar energy production is only 4.6% of the total potential, a challenging task to tap unused resources.

The Prime Minister has announced the launch of the National Hydrogen Energy mission.
Green Hydrogen is a major component of renewable capacity of energy.

Engineering problems of cost, scale, adopting new technologies, working out distribution chains and storage of Hydrogen should be met by the government, bureaucracy, universities, engineers and technocrats by a coordinated policy and its implementation.

Dr. Tejas Patalia

Message from Principal

Welcome to V.V.P. Engineering College, a world class center for excellence in technical education. We are a leading technological institute of India, a home to a wide range of academic departments, providing best education in the major areas of technology and services in the area of research and consultancy.

We are proud and distinct through our global technical perspective, cosmopolitan character and being deeply rooted in the high Indian traditional culture, heritage and values.

You would enjoy the challenges and opportunities we offer. We look forwards to welcoming the engineering aspirants to a place of genuine intellectual excellence for an unforgettable simulating experience in the world of existing and emerging technologies, Welcome back to Future….

ABOUT V.V.P. Engineering College

Vyavasayi Vidya Pratishthan is established by Rajkot Nagarik Sahakari Bank Ltd. to promote quality education in various technical fields. The trust was founded in 1996 with the objective of meeting technical educational needs of Gujarat.

The trust prides itself of establishing the first engineering college in Rajkot, the central location of Saurashtra and Kutch region. V.V.P. Engineering College is a self-financed institution affiliated to Saurashtra University and Gujarat Technological University, recognized by All India Council for Technical Education (AICTE), New Delhi and the Government of Gujarat.

It has a specially designed on 30 acres of land with spacious building providing an adequate infra-structural facility setup in a beautiful natural surroundings. It is landscaped with enlivened architecture that creates conducive environment of learning. The campus is located 10 Km on Kalawad Road, the west of Rajkot, with transportation and conveyance facilities.

VVP Engineering College is one of the best engineering colleges in India catering holistic growth to the students. It is providing state of the art facilities to the students. The institute has many schemes and offers for well education of the students.

VISION AND MISSION OF THE INSTITUTE

VISION

To be an exemplary institute, transforming students in to competent professionals with human values.

MISSION

1. To provide a conducive academic environment for strengthening technical capabilities of the students.

2. To strengthen linkages with industries, alumni, and professional bodies.

3. To organize various co-curricular and extra-curricular activities for overall development of the students.

4. To practice good governance and conduct value-based activities for making students responsible citizens.

Dr. Paresh Dholakia

MESSAGE FROM HOD

The Department was established in the year 2001 with the aim of providing technical education through technology-based learning, innovation and excellence in teaching learning process in the field of Electronics and Communication Engineering. The well-equipped laboratories with qualified faculty members ensure hi-tech standard of education delivered from our department. Various workshops, faculty development programs, alumni interaction, expert talks, seminars, webinars, skill- development programs, project developments are conducted on recent trends in Electronics & Communication engineering to get the knowledge of the same.

Our students are motivated to write research papers under the guidance of experts. To improve their verbal communication & public speaking we are conducting technical and non-technical seminars. In house training is also provided to students to set up various projects in guidance of faculty and senior students as a part of peer learning. The students are also encouraged to participate in various extra-curricular activities and include them in different clubs. Industrial visits are arranged to get in touch with the latest technologies used in the industries.

The students are placed in leading hardware and software based multinational and reputed companies. They are motivated and guided to pursue their higher studies in India and abroad.

VISION AND MISSION OF THE DEPARTMENT

VISION

To evolve as a recognized Electronics and Communication Engineering Department preparing capable engineers with good human qualities.

MISSION

1. To facilitate adequate infrastructure, well equipped laboratories, experienced staff and technical experts for development of technical knowledge and skills in the students.
2. To collaborate with industries and alumni to stay updated with the latest skills and technology.
3. To organize technical & nontechnical activities for overall grooming of the students and to make them good citizens.

Program Educational Objectives (PEOs)

1. Work as a professional with innovative thinking in the fields of industry, government sector and academia.
2. Advance their career by pursuing higher studies and research or as an entrepreneur.
3. Demonstrate teamwork, professional ethics, human values and lifelong learning to serve the society.

Program Specific Outcomes (PSOs)

1. An ability to grasp, analyze and apply the concepts of Electronics, Communication, VLSI technology, Embedded systems and Signal processing in implementing engineering systems and solution of complex problems in Electronics and Communication Engineering.
2. An ability to have adaptability to changing work environment and good interpersonal skills as an individual/leader in a team with professional ethics, social responsibilities and human values.

I N D E X

Glimpses of Training & Placement Cell

Placement of 2023 batch

17 students have been placed in esteemed MNC companies during their 7th semester. This three students are placed during their 8th semester.

Gautam Joshi   Miral Rathod   Trushal Shekhada

Pre Placement Activity

Mock Interview on 15-4-2023

Department of Electronics and Communication Engineering esteemed placement in MNCs in the Core field of EC is because of our students are proficient in industry requirement in the respective field. To make them proficient as per industry need they are able to perform because of our alumni guidance and feedback.

Our alumni with more than 10+ years of experience will take Mock interview of our students and provide detail feedback to them for their campus placement interview preparation. Mock Interview was organized ONLINE. Alumni who are currently working as a Team Lead and Developer post and used to take interviews in campus drive are invited as an experts to take Interview of 2024 batch students. Interview was conducted based on students' domain interest for Embedded, VLSI, Web Tech, Networking and Communication.

Domain experts were invited to conduct the interview after interview individual feedback is conveyed to each student for his/her further preparation for placement.

We are thankful to the Alumni who are directly and indirectly supporting our students. Domain experts for Mock interview in 2023 are

Nisarg Chhaya (Cerium Systems, VLSI), Parth Shingala (Google, VLSI), Mihir Parekh (Marquardt, Embedded) , Dilip Sing (Amzon, Embedded), Rutul Trivedi (Ericsson, Communication), Vivek Sojitra (KPIT, Embedded) , Falgun Sompura (KPIT , Embedded), Kahan Kotecha (WeyBee,Web technology) , Harin Maniar (Scaledge, VLSI), Viren Toliya (Atlassian, Networking)

Congratulations !!!

Jeet Chachadiya Got admission in Nirma University – M.Tech in VLSI Design. He was the first student got internship in VLSI domain at Cerium System (Tech Mahindra).

With proficient knowledge he has and his 3 months internship he achieved the milestone.

Results

7th Sem Result: 79.41%

8 students have 9 above SPI and 15 students have 8 above SPI

Hitarthi Vekariya (1st rank) & Jeet Chachadiya (3rd rank) secured Ranks in top 10 in entire EC Branch of GTU.

5th Sem Result: 68.42%

6 students got 9 above SPI & 12 students got 8 above SPI

Astha Bhatt (4st rank) & Dhruvi Pokal (9th rank) secured ranks among GTU Top 10 in entire EC Branch.

3rd Sem Result: 52.56%

2 students secured 9 above SPI & 6 students got 8 above SPI

Hemanshi Katariya secured 1st Rank with 9.35 SPI in GTU Top 10 in entire EC Branch.

Staff Achievements

Research papers presented/published

1. Dr Paresh Dholakia published a paper on "Enhancement of power quality in Domestic Loads using Active Power Filters"" in international Journal of UGC Care Approved Group II Journal, METSZET Journal , Volume 8 , issue 2 in Feb '23.

2. Dr. Charmy Patel and Dr. Sneha Pandya Published a paper on " comparative analysys of real time implemented DVB systems using Hierarchical Modulation" in international Journal of Communication Engineering and its Innovation in April '23.

3. Dr Jignesh Joshi and Dr. Sneha Pandya published a paper on " Comparative Analysis of Association Rule Mining on Basis of Frequent Pattern Tree" in international Journal of Analog and Digital Communications in April '23.

Workshop

1. Dr Jignesh Joshi attended a online workshop titled " Embedded Systems Bare Metal Programming with ARM7" , conducted by EC Department of SYMBIOSIS INSTITUTE OF TECHNOLOGY on 28-4-23 & 29-4-23.

FDP

1. Prof. Sheron Christy attended 12 week Online Course on "Basic Electronics" organized by SWAYAM IIT Bombay during January '23 to April '23.
2. Ms. Leena Rathod attended Karyashala on Space Technology and its Applications on 10-1-2022.
3. Ms. Leena Rathod attended 7014th IIRS Outreach Programme on RS and GIS Applications in Atmospheric and Oceanic Hazards from 27-2-23 to 3-3-23.

Seminar

1. Prof. Sheron Christy attended online training seminar on "Energy Literacy" organized by Energy Swaraj Foundation on 28-2-23.

Recognition of staff

1. Dr. Paresh Dholakia has been appointed as DPC reviewer on 14-3-2023.

2. Dr. Paresh Dholakia has been appointed as paper reviewer in Intenrnational conference (IEEE) on Computer, Electronics and Electrical Engineering and their applications (IC2E3-2023) in NIT,Uttarakhand on 8-6-23 & 9-6-23.

3. Dr. Paresh Dholakia has been appointed as paper reviewer in International Conferece (IEEE) on Device Intelligence , Comuting and Communication Technologies (DICCT2023) in Graphic Era Deemed to be University , Uttarakhand on 18-3-2023 & 19-3-2023.

4. Dr. Dipesh Kamdar has been appointed as DPC reviewer for 8 DPC review of GTU.

5. Dr. Dipesh Kamdar has been appointed in PhD Thesis Evaluation and Viva for Performance analysis of Cooperative Spectrum Sensing over TWDP fading in CRN with Hard Data Fusion by Dobaria Ankit Devjibhai in Atmiya University, Rajkot.

6. Dr. Sneha Pandya delivered an expert talk on "IONOSPHERIC WAVE PROPAGATION : SCRATCH TO HATCH" to the students of 6th sem, Department of Electronics and Communication - GEC, Rajkot on 31-3-2023.

V.V.P. Engineering College has received Best IIRS-ISRO Nodal Centre Award 2022 all over India. Prof. Sheron H. Christy has also received National Award from ISRO-IIRS for her significant contribution as a Nodal Coordinator for year 2022. She had also attended Annual IIRS Outreach Meet & IIRS Academia Meet on 27th-28th March 2023.

Dr. Paresh M. Dholakia received Best User Library award among all faculty members.

Dr. Dipesh G. Kamdar became winner in Chess (Male Faculties) & Ms. Sheron H. Christy became runner up in Carrom (Female Faculties) in Sports Festival.

Student Achievements

Jaydevsinh Jadeja (8th Sem), Hitarthi Vekariya (6th Sem), Aastha Bhatt (4th sem) & Hemanshi Kataria (2nd Sem) received SPI-based scholarship worth Rs. 25,000/- individually.

Priyanka Bhatt 6th semester EC student secured 3rd Rank in Quiz competition on Matrubhasha organized by Library 21-2-2023.

Aastha Bhatt secured 3rd Rank in Elocution Competition by NSS Club, 27-2-2023.

Chetna Parmar 4th semester EC student received Best library user award among all EC students

Aastha bhatt got 3rd rank in stand up comedy competition held by 94.3 my fm.

Aastha Bhatt & Mansi Bhadouria of 6th EC secured 2nd Rank at College Level Research Paper Writing Competition 21-4-2023.

SSIP Project Grant : A high performance drone

In a bid to revolutionize the agricultural landscape, a team of four talented students from the Electronics and Communication department at Chetna Parmar, Siddharth Malaviya, Nikhil Parmar, and Ravi Vaghasiya - embarked on a pioneering drone project aimed at enhancing agricultural efficiency. The project, financed by a SSIP (student start up innovation Policy) grant of Rs. 88,000, showcases the students' creativity and technological prowess.

The primary goal of the project was to develop a high-performance drone tailored for agricultural applications. The team focused on creating a drone that could assist farmers in various aspects of crop management, ultimately increasing yields and reducing labor-intensive tasks. This Project is developed at EC Department (V.V.P. Engineering College) and guided by Dr. D G Kamdar and Dr. Paresh M Dholakia (HODEC).

6th Semester EC team Aastha Bhatt , Saumya Vyas, Aditya Kanani & Yash Patel participated in robotics lane car in Technex event at IIT Varanasi during 17-3-2023 to 19-03-2023.

Student Participation

Student Name	Sem	Level of Event	Date	Event Name
Goswami Jhanvi	4th	National Technical	13-2-23 to 17-2-23	7013rd IIRS Outreach Programme on Geospatial Modeling driven urban hazard and risk analysis
		National Technical	27-2-23 to 3-3-23	7014th IIRS Outreach Programme on RS and GIS Applications in Atmospheric and Oceanic Hazards
Ramoliya Yash	4th	National Cultural	April 23	folk dance training camp -2023 (G-20)
Vaghasiya Ravi	4th	National Technical	January 23	backend web development (Microsoft learn student ambassador) .
Dhameliya Dev	4th	State Cultural	May 23	Personality Development Camp (G 20)
Pandya Harsh	4th	State Technical	March 23 & May 23	Quiz competition by OM SPACE ROCKET & EXPLORATION (1. Rocket Technology 2. Space Technology).
		National co-curricular	18-4-23	Quiz competition by G20 summit held in INDIA (JIGYASA, Great indian History, culture of India).
Bhatt Aastha	6th	National Technical	27-2-23 to 3-3-23	7014th IIRS Outreach Programme on RS and GIS Applications in Atmospheric and Oceanic Hazards.
Bhatt Priyanka	6th	National Technical	27-2-23 to 3-3-23	7014th IIRS Outreach Programme on RS and GIS Applications in Atmospheric and Oceanic Hazards.
Zenil Mehta	6th	College	17-3-23 to 19-3-23	ArduBotics Robotics Workshop which was an initiative by Technex'23 IIT (BHU) Varanasi in association with Innovation Technologies. Students presented College in IIT Varanasi.
Ayush Khokhara	6th	College		
Dev Sachdev	6th	College		
Dev Buddhdev	6th	College		
Aasha Bhatt	6th	College		
Saumya Vyas	6th	College		
Aditya Kanani	6th	College		
Yash Patel	6th	College		

Dev Dhameliya 4th semester EC student selected to represent V.V.P. Engineering College at state level camp for Personality Development under G-20 at Shri Somnath Sanskrit University, Veraval. It was 4 days of camp during month of May.

Yash Ramoliya 4th semster EC student selected to represent Gujrati Folk at National Platform of Saurastra Tamil Sangam. He was selected for folk dance training camp organized by GTU under G 20 at Shree Somnath Sanskrit University ,Veraval during 11-4-2023 to 17-4-2023.

Student Participation in Annual Day

Sr.No.	Name	Semester	Club
1	Aastha Bhatt	6th	Theatre & Music
2	Prashant Makwana	8th	Theatre
3	Dev Fultaria	6th	Dance
4	Miral Rathod	8th	Dance
5	Yash Ramoliya	4th	Dance
6	Aditya Raval	2nd	Music

NSS & NCC Participation

Sr.No.	Name	Semester	Activity
1	Hiral Chavda	4th	NSS
2	Aastha Bhatt	6th	NSS
3	Yash Patel	6th	NSS
4	Dipali Mehta	6th	NSS
5	Taksha Rathod	6th	NSS
6	Harpal Dave	2nd	NCC

Industrial Visits

Industrial visit at Aartronix Innovations Pvt. Ltd. by 6th EC students with Dr. Jignesh Joshi & Dr. Sneha Pandya on 30-1-2023.

For our 6th semester students, industrial visit was organized at Aartronix Innovations Pvt. Ltd. Such visits build the bridge / gap between the syllabus and industry.

Aartronix Innovations Pvt. Ltd. is a leading embedded product design, development and services company working in IOT, Solar Renewable energy, Healthcare ,Power Electronics, Measuring Instruments and Motor Control.Our students are much motivated and benefited through this interaction. We are grateful to Aartronix Innovations Pvt. Ltd. for giving our students this wonderful opportunity.

AARTRONIX Company presentation on their wide range of Embedded Technology Hardware and Software Solutions they offered. Concept to Product: Benefit From their End-to-End Product Development Capabilities like H/W and S/W design, QA testing, Mechanical design, prototyping and manufacturing. They are providing innovative and affordable, high-tech solutions on Power Electronics Design, Measuring Instruments, Solar Renewable Energy, Consumer Products, IoT, Healthcare and Motor Control.

AARTRONIX have 200+ standard Products along with them in-house Manufacturing capabilities that uniquely positioned to deliver versatile, innovative, world-class quality products to customers across the globe.

Industrial visit at e-Infochips by 6ᵗʰ semester EC students with Dr. Charmy Patel & Ms. Asha Upadhyay on 8-5-2023.

e-Infochips, an Arrow Electronics company, collaborated with Department of Electronics and Communication Engineering Department for Students Industrial Visit, Workshop and Expert Lectures as well as for placement in core domain ASIC and PES.

6th semester EC students visited eInfochips to visualize their course VLSI and Embedded System they studied in their last semester/year. During this visit eInfochips presented their services in front of students to aware them about current digital transformation, product engineering services and their expertise in IoT, AI/ML, security, sensors, silicon, wireless, cloud, and power. After the presentation they demonstrate their experience zone so student can visualize products and services.

Industrial Visit at Aarohi Embedded Systems by 4th semester EC students with Dr. Paresh M. Dholakia on 10-6-2023.

The professionals with industrial experience in embedded technology, real time software, process control and industrial electronics held the company which was formed in 2003.With the advent of technology, Aarohi Embedded System PVT.LTD, have come up with a technically advanced range of industrial products. Their product range encompasses Digital Panel Meter, Pump Testing Equipment, Electromagnetic flow meter and many more. Head of the R & D dept. Mr. Vishal Gajera is also an Alumni of EC Department. After introduction they show their whole industry in different groups and explain their every product which they had manufactured.

They show different department like Research & development Dept., testing dept., production dept., sales and accountant dept. also the dispatch process of their products. Also every department employee told them how they work. Also show live PCB designing by one of the employee and machine for bulk production of PCB.

Head of the dept. also explained them what are the prerequisites to join embedded. This is the first company in The Saurashtra region for embedded products and Rajkot is main branch and 3 more branch all among Gujarat. They also sales their products outside the country and around 2037 branches will open all across India. This industry allow students for internship and its very helpful to grow up in this field.

Seminars

Expert talk on demystifying Data Analystics by Mr. Shail Shukla (Alumni 2020) for 6th EC students 10-2-23.

An expert lecture was organized by EC department for the pre-final year students of EC/CE/IT, which was delivered by Mr. Shail Shukla, Alumni of EC 2021 batch and presently working with UsefulBI. The lecture was mainly highligted Introduction to Data Analytics and Its Types, Careers as a Data Engineer, Data Analyst and in data Science ,Proficiency and Opportunities in Data Analysis and Tools used for it.

Expert Talk on "Resume Building and PI Etiquettes" by Mr. Ajesh Kamania, K7 International for 6th EC students on 11-2-23.

An expert session was organized on "Resume Building and PI etiquettes" for the pre-final year students of EC/CE/IT/EL/ME/CL/BT, which was delivered by Mr. Ajesh Kamaniya, K7 International, Rajkot. The session was on how to write effective resumeA 2023 Guide to the Most Common Interview Questions and Answers as well as 50+ most common job interview questions.Students are able get about resume importance, a standard format with common mistakes and what is actually important include in resume to get a good job. They also came about PI commonly asked questions and etiquettes keep into mind while going to appear in interview.

Expert talk on Opportunities in VLSI & Embedded system by Mr. Ankur Devani & Mr. Jaydeep on 2-3-2023.

Two great learning sessions were organized by EC department for the pre-final year students of Electronics and Communication, Computer Engineering and Information Technology.

These sessions were taken by experts from the core multi national companies of EC branch and were our alumnis too.

Mr. Jaydeep Bhatt, Alumni of EC 2011 batch who is presently working with Mobivile whose topic was "Opportunities in VLSI" and Mr. Ankur Devani, Alumni of EC 2013 batch who is presently working with e - Iinfochip whose session was on "Role of Embedded Engineer in Industry"

GRE Master Class (Online) by Rashmi Gera : Head of Academics was conducted on 4-3-2023.

Alumni Interaction

Mr. Tarun Dholariya (2011 Batch) interacted with 6th EC students. He guided students to develop their Technical Skills in the domain of their interest. He also gave insights of VLSI Technology and its career aspects.

An Expert Session on "Role of Engineers in TCS" Mr. Gaurav Ghelani on 6-4-2023.
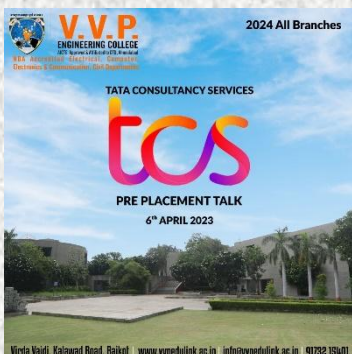
An expert session was organized on "TCS iON – Role of Engineers in TCS" for the pre-final yearstudents of EC/CE/IT/EL/ME/CH/CL/BT, whichwas delivered by Mr. Gaurav Ghelani, TCS, Mumbai. The session was covered the Differentiate IT products And IT services offered by IT companies,What skills/proficiency required by IT companies and what is the role of Hard Branch Engineer and Soft Branch Engineer in TCS. Moreover what is TCS NQT ? Details about Ninja and Digital Profile. Students are able get about information about TCS services and products. Students are able to know about their role in TCS if they got selected. IT service based companies required all branch engineers. They came to now about TCS iON learning platform of TCS for Ninja and Digital profile.

An Expert Session on "Overseas Education or Opportunities Abroad" by Mr. Kunal Kamania 13-4-2023.

An expert session was organized on "Overseas Education or Opportunities Abroad" for the pre-final year students (2024 batch) of EC/CE/IT/EL/ME/CH/CL/BT, which was delivered by Mr. Kunal Kamania, K7 International, Rajkot.

The session was on Statistics show about students studying abroad and growth from India with state accounting. Why study in USA / UK / CANEDA / AUSTRALIA? What are the next steps to go for a study abroad program? What type of funding is available?

Workshops

Workshop on Robotics (ArduBotics - by Technex'23 IIT (BHU) Varanasi in association with Innovation Technologies) on 9-3-2023 & 10-3-2023.

V.V.P. Engineering College, Rajkot - Department of Electronics and Communication and Department of electrical Engineering jointly organized a two days' workshop on Robotics namely ArduBotics Robotics Workshop which was an initiative by Technex'23 IIT (BHU) Varanasi in association with Innovation Technologies.

ArduBotics Robotics, a national level workshop series based on Robotics. The duration of this workshop was two consecutive days, with 7 -8 hours session each day in a total of 14 -16 Hours. Students of all branches were eligible for the workshop.

The Expert who conducted the session for both the days was Mr. SYED MD ASDAUR RAHMAN. He is a Technical expert and a passionate trainer having a keen interest in Research & Development, Technical Training and Project Management, delivered more than 150 workshops and Technical Training in various technologies and domains including IITs, NITs and other premier educational organizations as well as corporate companies .

Workshop on "Introduction to Labview" by Dr. Charmy Patel for 6th EC students on 11-2-2023.

LabVIEW (Laboratory Virtual Instrument Engineering Workbench) is a systems engineering environment and programming language that was created by the software development company National Instruments. It is best known for using graphic diagrams that look like electrical circuits instead of text, providing an alternative to classic text and numerical coding. So this was the introductory workshop for the students.

PCB Design Workshop for 4th EC students by Mr. Niral Rakhasia, JMR Technologies , 5th and 6th april 2023.

In this workshop, the students were made aware of the Printed circuit board (PCB) design that brings electronic circuits to life in the physical form. The students were explained that with the help of Diptrace Layout Software, the PCB design process can combine component placement and routing to define electrical connectivity on a manufactured circuit board. This workshop was delivered by Mr. Niral Rakhasia, JMR Technologies on 19-7-21

One day workshop on Ïntroduction to Antenna Designing & Hands on : HFSS , on 11-4-2023.

Various topics were covered such as first of all the introduction was given about the various concepts which are required for the designing of any antenna. For e.g., beam area, the Faraday's law, Maxwell's equations, etc. The succeeding topic taught was about the HFSS software. Introduction about HFSS was given and the designing of horn antenna was also a part of it. Even, various functions of HFSS were explained briefly to the students.

Another topic was Microstrip Patch Antenna was conducted by Dr.Balvant Makwana. He guided about the geometry, radiation pattern and structure of this antenna and also from the very beginning she took the hands on session for HFSS Software which allowed the students to design a microstrip antenna from the very beginning and they did complete it successfully.

Technical Events

Research Paper Writing

Department Level Research Paper Writing Competition 20-4-23.

As per the tradition of our Institute, Research Paper writing competition was held among 4th and 6th Semester EC students at Department Level on 20-4-23. Total 7 papers were included in this competition and successfully presented by participants. Dr. Jignesh Joshi & Dr. Dipesh Kamdar were the judges and coordinators of this competition.

Research paper writing competition was organized by Department of EC, V.V.P engineering college. This program provided a platform to students to develop interest in Research Paper reading & writing. Total 3 papers from 4th EC & 4 papers from 6th EC students were presented. Students had effectively written Research Paper along with Plagiarism check.

Following Research Papers were presented:

Sr. No.	Paper Title	Students Name
1	Power factor correction using Boost converter circuit consisting Reactive power generation using Simulation	Aastha Bhatt & Mansi Bhadouria (6th EC)
2	Human Area Network	Bijal Pilojpara (6th EC)
3	Design and Development of Maze Solving Robot: A Study on Different Robot Integration and Control Strategies	Yash Patel, Aditya Kanani, Saumya Vyas & Aastha Bhatt (6th EC)
4	Implementation of a line follower using Microcontroller	Zenil Mehta, Dev Buddhdev, Dev Sachdev & Ayush Khokhara (6th EC)
5	Machine learning & its significant influences to this world	Shivani Patel (4th EC)
6	3D Printing – the future of Technology	Dev Dhameliya (4th EC)
7	Gamma Radiation and its production	Chetna Parmar (4th EC)

ISTE State Level Techfest : "Shaurya" 29th april 2023.

A state level technical event "SHAURYA" was held in V.V.P. Engineering college on the 29th of April 2023.This Techfest consisted of numerous technical as well as non-technical events that were organized and held individually by each department of the college.

Shaurya was in sponsored by "Davat", "K7 International", "Rolex". Along with the technical & non-technical events held by each department there was a collaboration with Rajkot city's well known "Invincible"for three fun activities: Zip Lining, Rappelling and Crawling. The main theme promoted by the fine arts club through the means of their decoration was — "Save water & amp; Hydroelectricity".

The event name for EC Department was "**ANVESHNA**". It refers to as 'deep search'. It consisted of 6 events 3 of them were technical while the other 3 were non-technical. The department was decorated with amazing art related to electronics as well as communication. Following Events were a part of "ANVESHA"

I) **CodeApt** :

Participants were provided with aptitude questions which they solved using C programming. The participants implemented the logic of the aptitude using C programming which gave them the correct answer when compiled.

II) **Circuitrix**:

Participants needed to implement the given circuit in the given time limit. All the components were provided. For the first round, Schematic diagram was shown to participants for about a minute in order to memorize it and implement on the bread- board in given time. The selected teams need to competed with each other in the Final round. The team that completed first the next circuit connections without any error in the least time possible won.

III) **Robolane:**

Participants were to race their Line Follower Robots to the finish point in the minimum time possible. The robot was to be self-made and should be autonomous/automatic. The dimensions for the robot were 25cmx25cmx25cm with a max voltage of 12 DC.

IV) **Laser Trail:**

In this game there were a set of 6 mirror pieces that had to be arranged in such a manner that the laser beam should reflect by them in order to reach the sensor that activated the buzzer indicating that the participants had finished the game. This setup should stay stable for minimum of 4 secs.
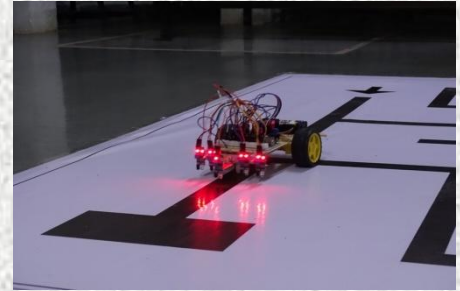
V) **Thrill-X:**

In this game, there was a barbed coil that has a attached stick with a small loop in it. When the loop is circulated along coil. When this touches the coil a buzzer sound activates and the partner holding the stick gets a minor shock.

VI) **The Fun Game:**

This was like a combination of three games that took one back to their childhood. The first round was of game 'Stapu'. Then once the participants succeed in that you have to go through a hurdle of tyres. Once you succeed that the participants step on a revolving disc from which they had to aim for a stack of glasses and hit them to knock all the glasses. This was the most exciting and adventurous game.

Activities

3rd Sem EC Parents Meeting on 7-1-2023.

Parents meeting for 3rd Sem students had been successfully organized at EC Department.

Parents got to know about their children's academic progress in this meeting and also about various aspects and dimensions like training and placement and contributions from college in the growth of their kids.

This meeting proved fruitful to Parents as well as their children to achieve their ultimate Goal for being a successful EC Engineer.

6th sem orientation on 30-1-2023.

The Pre-Final year of Electronics and Communication engineering began with the utmost enthusiasm and determination to become successful.

The Orientation was held instructing them about the importance of discipline, work to be done for their bright career and placements and about their subjects of the pre final year.

The students were given best wishes for their new learning in upcoming Semester.

2nd semester orientation on 20-3-2023

     Prof. Sheron Christy welcomed all students for new semester. She explained Department Vision Mission and importance of NBA. The students were appreciated for their achievements during past semester by certificates and motivated for other activities. Dr, Jignesh Joshi guided them for improvement of technical skills as well as communication skills.

Motivational Quote
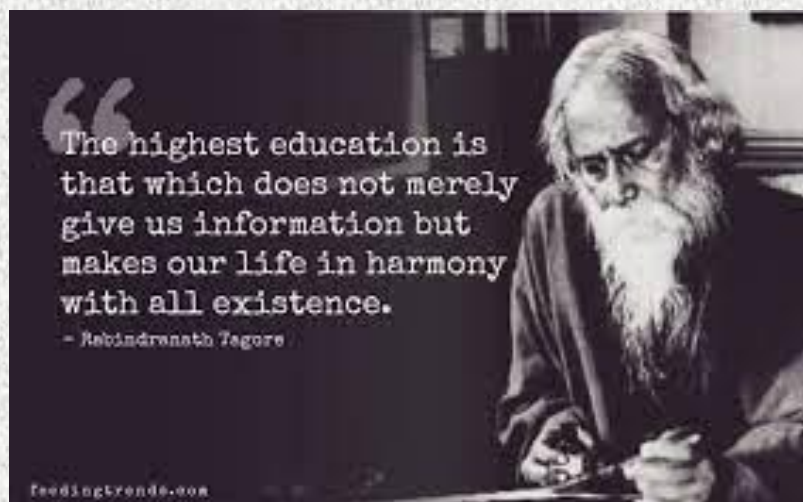
V.V.P. Engineering College

Virda Vajadi,
Kalawad Road,
Rajkot, Gujarat-360005
Contact us :E-mail: info@vvpedulink.ac.in
Website: www.vvpedulink.ac.in

Prepared by: Prof. Sheron Christy (Assistant Professor)
Asha Upadhyay (Lab Assistant)

Student Coordinator : Bijal M. Pilojpara (200470111017)
Aastha N. Bhatt (200470111011)

Published by: Department of Electronics & Communication