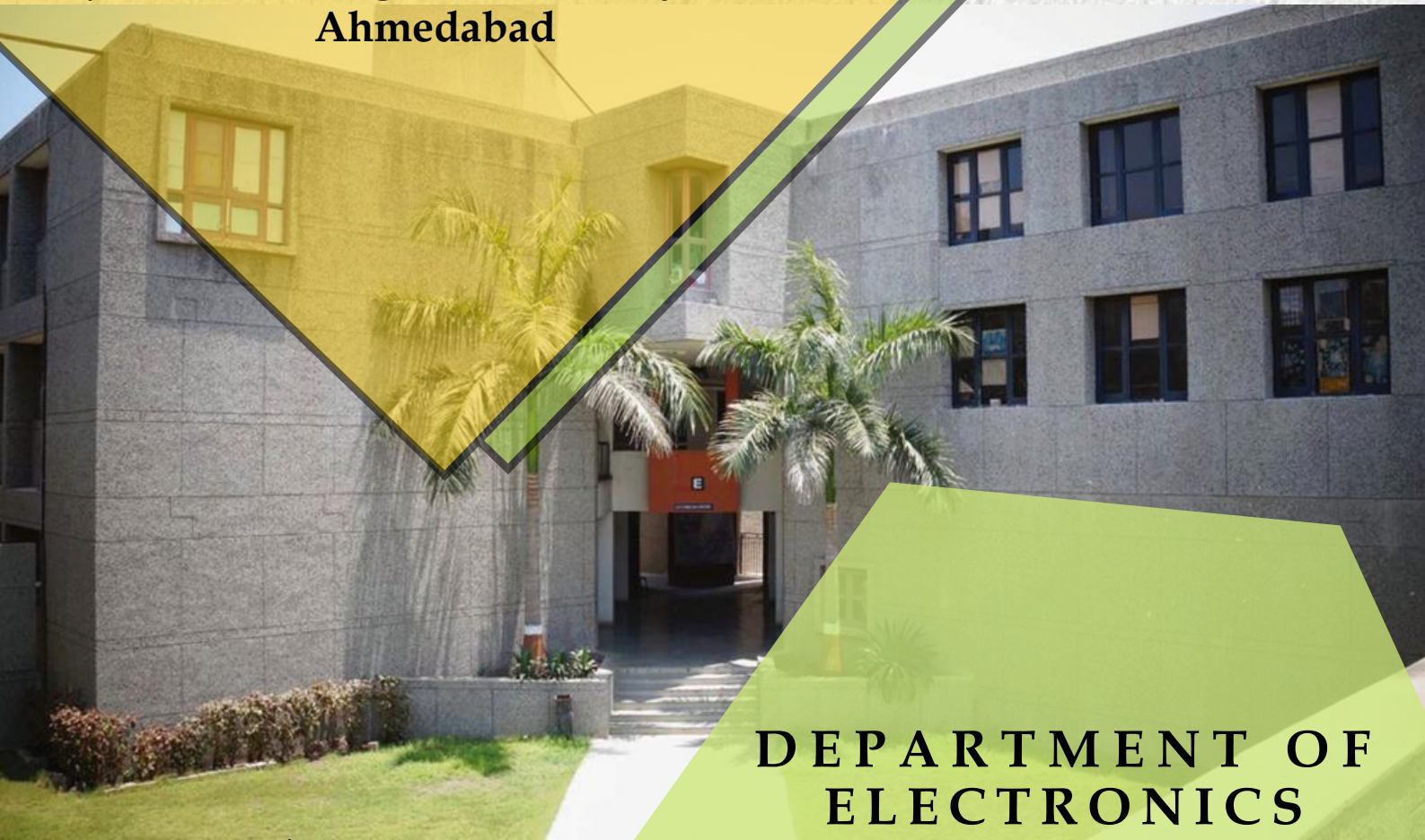




V.V.P. ENGINEERING COLLEGE

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



DEPARTMENT OF
ELECTRONICS
AND
COMMUNICATION
ENGINEERING





Message from Trustee

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.



Prof. (Dr.) Piyush B. Vanzara

Message from Principal

At V V P Engineering college, our vision is to transform our students into competent professionals by nurturing intellectual curiosity, inspiring creativity, and equipping students with the knowledge and skills needed to thrive in an ever-evolving world. We aim to be an exemplary institution that empowers individuals to reach their full potential, promotes interdisciplinary collaboration, and addresses global challenges.

We envision a future where our students not only excel academically but also grow as responsible and ethical leaders who contribute meaningfully to society. Our commitment to excellence in education and holistic development will ensure that our graduates are prepared to make a positive impact on the world in their respective fields and communities.

With a focus on continuous improvement, we strive to be a place where diverse perspectives are celebrated, and where all members of our community – students, faculty, and staff – work together to create a sustainable, prosperous future for all. Let us move forward with a shared sense of purpose and dedication for shaping the engineers of tomorrow.

ABOUT V.V.P. Engineering College

Vyavasayi Vidya Pratishtan 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 into 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.

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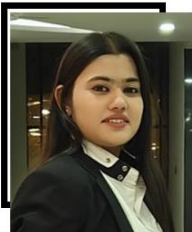






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Glimpses of Training & Placement Cell

Placement of 2025 batch

Placements 2025 Batch

 Chetna Parmar 	 Divya Solanki 	 Pranchi Rekvar 	 Ishita Kathrotia 	 Hemanshi Katariya 
 Khris Vaz 	 Ravi Vaghasiya 	 Harsh Pandya 	 Dhartik Vasani 	

Pre Placement Activity

An expert session on on “Resume Building and PI etiquettes” by Mr. Ajesh Kamaniya, K7 International, Rajkot on 14-2-2025.

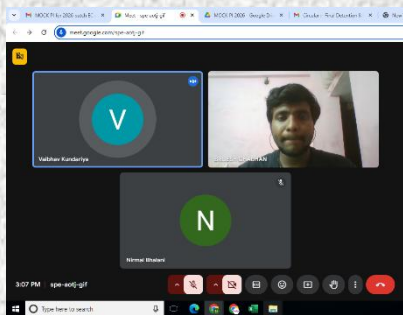
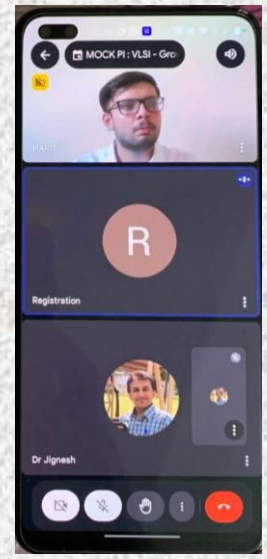
An expert session has organized for the pre-final year students of EC/CE/IT/EL, which was delivered by Mr. Ajesh Kamaniya, K7 International, Rajkot. The session was on how to write effective resume and FAQs. Mr. Kamaniya guided students for most common interview questions and answers as well as 50+ most common job interview questions.



MOCK PI 2026 batch on 2-5-25

Online Mock Interview was organized in association with eInfochips. Interview was conducted with domain interest for VLSI and Embedded System. Domain expert interviews as follows for ASIC and gave suggestions for preparation.

Students experienced Personal Interview for their field of interest. They came to know about the questions, their technical proficiency and their communication skill. They got feedback based on their performance in MOCK interview which is helpful to them for further preparation for campus placements.



Grand Alumni Meet 2025

We extend our heartfelt appreciation to each one of you for gracing our campus with your presence. Your shared memories, achievements and the joy of reconnecting with your alma mater added a special touch to the celebration. You are a living testament to the values and education imparted at V.V.P. Engineering College, to which we take immense pride in your accomplishments.

We constantly strive to provide a platform for meaningful interactions and your feedback and suggestions are invaluable in this endeavor. We take this opportunity to invite all our Alumni who haven't been able to be a part of this wonderful event due to various reasons. However, we would be delighted to host you at your alma mater whenever you feel like visiting your alma mater.

Once again, thank all our esteemed alumni on behalf of the entire Electronics and Communication Department. We cherish your continued support and look forward to many more such occasions where we can come together to celebrate our shared legacy.





Results

7th Sem Result: 56.52%

2 students secured 9 above SPI and 11 students have 7 above SPI.

Hemanshi Katariya (2nd Rank) and Chetna Parmar (4th rank) secured Ranks among GTU top 10 students in entire EC branch.

5th Sem Result: 66.67%

1 student secured 9 above SPI & 7 students got 7 above SPI.

Harit Ashara secured 1st Rank in Top 10.

3rd Sem Result: 40%

1 student secured 9 above SPI and 5 students got 7 above SPI

Kushal Sankhalpara secured 1st Rank in Top 10.

1st Sem Result: 82.35%

2 students secured 9 above SPI and 12 students got 8 above SPI

Kanisha Poptani and Kanishk Lakhani secured 1st Rank in Top 10.

Staff Achievements

FDP organized

AICTE sponsored Online ATAL Faculty Development Program – FDP on “Next Gen in AI/ML and IoT” organized by Department of Electronics and Communication Engineering of V. V. P. Engineering College, Rajkot, Gujarat. Online ATAL FDP was conducted from 6th January 2025 to 11th January 2025 in which 390 participants from different states of the country were participated. The FDP was organized under guidance of HOD EC Dr. Paresh Dholakia Coordinator Dr. Jignesh Joshi and Co-coordinator Dr. Dipesh Kamdar

It was a great Initiative by ATAL Academy. We, department of Electronics and Communication Engineering of V. V. P. Engineering College, Rajkot are thankful to AICTE for giving us this opportunity to conduct online FDP for faculty members of technical institute of India free of cost. We got a huge response for registration as well as good feedback of arranging the online FDP.

To conduct FDP conceptual and application oriented experts from academia and industries relevant to AI/ML and IoT.



Dr. Ketan Kotecha
Dean, Professor &
Director,
SIT, Pune



Dr. C. H. Vithalani
Professor & Head, LD
College of Engineering,
Ahmedabad



Mr. Nilesh Ranpura,
Sr. Director Engineering
(ASIC), eInfochips
(An ARROW Co.),
Ahmedabad



Mr. Pranav Purohit
Associate Director at
eInfochips (An Arrow
Co.) , Ahmedabad



Mr. Shalin Shah
Associate Director at
eInfochips (An Arrow
Co.) , Ahmedabad



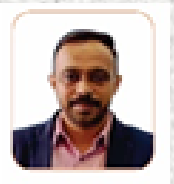
Dr. Dipesh Panchal
ASCI Physical Design
Engineer, eInfochips (An
Arrow Co.), Ahmedabad



Mrs. Aditi Joshi
Technical Lead at
eInfochips (An Arrow
Co.) , Ahmedabad



Miss. Celeste Valambhia
Firmware Development
Er., Softing Automotive
GmbH, Munich,
Germany



Mr. Kalpesh Gajera
R and D Head,
AARTRONIX
Embedded Pvt. Ltd.,
Rajkot



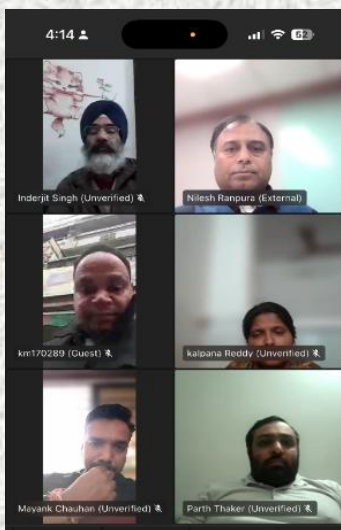
Dr. Ashish Kothari
Technical Lead at
eInfochips (An Arrow
Co.) , Ahmedabad



Mr. Divan Raimagia
CISO- Head of Cyber
Security, Adani Green
Energy Ltd, Ahmedabad



Mr. Dhruvan Bhadesia
Cofounder and CTO,
Kevit Technologies,
Rajkot



Book Published

Dr. Paresh Dholakia, Dr. Jignesh Joshi and Dr. Dipesh Kamdar published a book on "Deep Learning and AI - The Essential Guide" with Scientific International Publishing House, ISBN : 978-93-6674-294-6.

Congratulations !!

Prof. Sharon H. Christy Received NPTEL **Discipline Star** for completing 52 weeks of NPTEL Courses in the same Discipline: EE (Electrical, Electronics and Communication). She has completed 5 courses as below:

1. Basic Electronics (EE62) (12 weeks)
2. Semiconductor devices and Circuits (EE91) (12 weeks)

3. Integrated Circuits, MOSFETS, Op-Amps and their Applications (EE08) (12 weeks)
4. Microelectronics Devices and Circuits (EE139) (12 weeks)
5. Recent Advances in Transmission Insulators (EE71) (12 weeks)

Prof. Sheron H. Christy participated in the National Workshop on "Space Science Exploration and Career Opportunities" and IIRS Academia Meet organized by IIRS-ISRO Dehradun as a Nodal Coordinator on 20-3-2025 and 21-3-2025.



FDP attended

1. All the faculties of department attended a national level FDP on "Next Gen in AI/ML and IoT" organized by Department of Electronics and Communication, V.V.P. Engineering College, Rajkot on 11-01-25.
2. Dr. Vishal Nimavat attended a national level FDP on "Sustainable future of semiconductor industries" organized by Marwadi University during 6-1-25 to 11-1-25.
3. Prof. Ravin Sardhara and Prof. Nirmal Bhalani attended a national level FDP on "AI for manufacturing" organized by INTEL corporation collaboration with Gujarat Technological University during 17-1-25.
4. Prof. S.H. Christy attended a national level FDP on "Recent Advances in Transmission Insulators" organized by NPTEL during Jan-25 to Feb-25.
5. Prof. Sheron Christy completed NITTT module 5 on "Technology enabled learning and lifelong self learning" conducted by NITTT, Chennai during 1-10-24 to 30-11-24.
6. Prof. S.H. Christy completed online short course on "Introduction to Space Science and Technology" organized by Centre for Space Science and Technology Education in Asia and Pacific (affiliated to United Nations), Dehradun during 7-4-25 to 11-4-25.

7. Prof. Sheron H. Christy completed NPTEL Course on "Recent Advances in Transmission Insulators" in March 2025 with 90% score , Gold Badge, Top 1% Topper.
8. Mrs. Asha Upadhyaya attended NPTEL course on " Yoga and Positive psychology during Feb-25 to April-25.

Research papers presented/published

1. Dr. Jignesh Joshi and Dr. Sneha Pandya published a paper on "LEACH for Energy Efficient and Secured Data Transmission in Cluster- based Wireless Sensor Networks" in UGC approved International Journal for Innovative Research in Multidisciplinary Field (47793), DOIs:10.2015/IJIRMF/202503005.
2. Dr. Dipesh Kamdar published a paper on " An enhanced Swin transformer framework for Cardiac MRI segmentation" in International Journal of Advanced Technology and Engineering Exploration, Vol 12(127),ISBN no. 2394-5443 (Print), 2394-7454(Online).

Recognition of Staff

1. Dr. Jignesh Joshi delivered an expert lecture on "Introduction to AI Tools" in the workshop organized by GEC, Rajkot in Association with IETE Chapter on 28-2-25.
2. Dr. Jignesh Joshi has been appointed as DPC member for "Classification of Cricket Shots using ML" on 2-5-25.
3. Dr. Sneha Pandya delivered an expert lecture on "Ethical Practice ensuring personality development" in the faculty induction program 'GURU DAKSHATA" conducted by UGC on 25-1-25.
4. Dr. Sneha Pandya delivered an expert lecture on " Role of AI and Its Effects on the Current Education Environment" in the faculty induction program 'GURU DAKSHATA" conducted by UGC on 14-2-25.
5. Dr. Sneha Pandya delivered an expert lecture on "Ethical Practice ensuring personality development" in the faculty induction program 'GURU DAKSHATA" conducted by UGC on 15-5-25.
6. Prof. Sheron Christy recognized as NPTEL Discipline Star in Electrical Engineering in Jan- April 2025 semester.

Student Achievements

Congratulations !!

Gold Medal (2024)

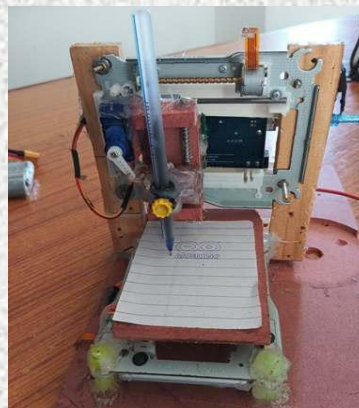
We are thrilled to announce that our exceptional student Pokar Dhruvi has been honoured with Gold Medals during Prestigious Convocation Ceremony held at Gujarat Technological University On 28th January 2025.

This has not only brought pride to our institution but also inspiration to their peers. Congratulations to these bright minds and gratitude to faculties.



Innovative Project by 1st year EC student

All first year students make remarkable projects like like CNC Plotter and Arduino based Drone,working model of lift.



Aditya Raval and Hina Dhammar participation in Synapse '25 at DAIICT Gandhingar

Our talented students showcased their music skills and creativity in Group Song at Synapse 2025 held at DA-IICT. They had presented Gujarati Folk mash up which included "મોર બની થનગાટ કરે", "કસુંબી નો રંગ", "ચારણ કન્યા".

The performance compelled everyone to get up from their seats and applaud. They made a mark there as VVP students and we are proud of their efforts and achievement. Following were the students who represented VVP at Synapse Music competition "Raaga & Rhapsody". Aditya Raval also participated in spot event Synapse Got Latent and were appreciated by awards for winning it.



Saurashtra University Poster Presentation (3rd rank)

Congratulations!! to 2nd EC students Hetvik Shah, Rudri Pandya and Khushi Raykundaliya for securing 3rd Rank in Poster Presentation organized by Department of Nanoscience and Advanced Material, Saurashtra University on 28-2-2025. Poster title: "**Green Energy - The future of Smart Cities**"

Footprint participation , MS University, Vadodara

Veer Shah (3rd sem) participated in gesture and motion robotics workshop. Presented a poster on growth of semiconductor industry in renaissance event.

He Made a design in vogue bag in vogue event pertaining to textile department.

Won 1st prize in Insight quiz and won ₹1000/.



Student Participation

Samuh Vanchan Karyakram

On 14-Feb 2025 V.V.P. Engineering College, in association with Gujarat Technological University, organized a Samuh Vanchan Karyakram (collective reading program) under the banner of “Pustak Prem Parv” (Book Love Festival). The event aimed to foster a culture of reading among students and to emphasize the importance of books as a source of knowledge, creativity, and inspiration.



A notable feature of the event was the strong participation from the Electronics and Communication (EC) Department. A total of 51 individuals from the department attended, comprising 8 gents staff, 2 ladies staff, 26 boys, and 15 girls. Their active involvement showcased a strong collective commitment to academic enrichment and personal growth through literature.

6th EC students participated in Semiconductor Design and Development Workshop at AVPTI, Rajkot 27-1-25 to 29-1-25.

A three-day workshop on Semiconductor Design and Development was successfully held at A. V. Parekh Technical Institute (AVPTI) in Rajkot, as part of the NIDI scheme and DIC-SPOKE program. The workshop, which ran from January 27th to 29th, 2025, provided students and professionals with valuable knowledge and hands-on experience in the field.

A Transformative Learning Experience!

This workshop truly bridged the gap between theory and real-world applications. The hands-on sessions and expert guidance have been invaluable in enhancing understanding of ASIC design, DFT, physical verification, and the future of semiconductors.



6th EC students participated in The Start up Fair

GTU innovation and startup centre Rajkot has organized STARTUP FAIR 2025 on 17th march 2025. Total 25 startups have participated and booked their table in these fair. Visitors came from different colleges, schools & industries. Based on voting ICT enabled Eco friendly E-cart from V.V.P. Engineering College got winner. The Startup fair 6th EC students participated in The start up Fair organized by GTU innovation & Startup center , Rajkot.



Poster presented in Ved Vignan Conference at Saurashtra University on 27-1-25.

On 27th January 2025, Kausee Pathak, Rudri Pandya, Aesha Undhad and Purva Kothari from EC 2nd semester attended a National Conference on “Ved and Vigyan”, organized under "Gujarat Vigyan Sammelan 2025" jointly organized by Saurashtra University and Vigyan Gurjari, held at Saurashtra University Campus.



The team represented a Poster on the same. There were some notable speakers in the conference who enlightened the students regarding the Indian Scriptures and Cosmology and how are they interconnected. The panel of these speakers includes, Dr. J.J. Raval, President of the Indian Planetary Society, Bombay; Professor Mahesh Oza, associate professor at Tullani College of Arts and Sciences, Adipur; Dr. R.A Chutaliya sir, former professor and head of Sanskrit Department, Saurashtra University and many more. The conference was esteemed by these speakers and their knowledge on Modern-day Sciences and Ancient Indian Scriptures. The session was followed by Poster Presentation Competition in the evening where the team presented the poster and gained the more knowledge about fields.



WDC Activities

Keshvi Fefar, Khushi Raikundaliya, Rudri Pandya, Nensi Majewadiya, Janvi Pedhaniya and Krisha Meghani participated in "Make and Eat" competition organized by WDC Cell.



Nensi Majewadiya, Janvi Pedhaniya and Kausee Pathak visited Government School (Virda Vajadi) for WDC program SAKSHAM. They distributed educational stationery and motivated students to study.



Sports Participation:

EC Department Boys Cricket Team.

Sr. No.	Name	Semester
1	Shashwat Mehta	6 th
2	Het Umaretiya	6 th
3	Om Doshi	6 th
4	Viraj Der	4 th
5	Krishna Makadia	4 th
6	Taksh Dobariya	4 th
7	Jay Vaghela	4 th
8	Harshit Makawana	2 nd
9	Kanishk Lakhani	2 nd
10	Rohit Chauhan	2 nd
11	Mrudul Kakkad	2 nd
12	Harshil Joshi	2 nd
13	Sujal Bhalala	2 nd
14	Veer Shah	2 nd
15	Kabir Tarwani	2 nd



EC Department Boys Volleyball Team.



EC Department Girls Cricket Team.

Co curricular & Cultural:

NCC student A.Y. 24-25

Sr. No.	Name	Semester
1	Vishva Katrodiya	4 th

Participation in Cultural Events

V.V.P. Engineering College had organized a wonderful memorable farewell "Zeal '25" for 2025 batch students on 12-4-25. Students of EC Department participated through various club in this event.

Student Name	Sem	Activity
Aditya Raval	4 th	Music Club
Mrudul Kakkad	2 nd	Drama Club
Hina Dhammar	2 nd	Music Club
Kausee Pathak	2 nd	Dance Club
Adani Harshil	2 nd	Event Management

Blood Donation Camp on 21-2-25

Tanish Aghera, Harshil Joshi and Janvi Pedhaniya donated Blood



NPTEL Courses

NPTEL is a project of MHRD initiated by 7 IITs along with the IISc, Bangalore in 2003, to provide quality education to anyone interested in learning from the IITs. Four EC students had successfully completed courses of NPTEL.

Sr. No.	Name	Course Name	Sem
1	Kushal Shankhalpara	Introduction to Internet of Things	4 th
2	Mourya Vadera	Problem solving through programming in C	4 th
3	Dixit Khokhar	Machine Learning	4 th
4	Mrudul Kakkad	Introduction to Internet of things	2 nd

IIRS Outreach Programmes

Remote Sensing and Geoinformation Science have become backbone to many location-based services and decision-making systems emerging in the New Information Economy. Under a noble objective to promote of Remote Sensing & GIS Technologies & Applications, IIRS (Indian Institute of Remote Sensing) - ISRO had conducted many Online Outreach Programmes in which EC students and faculty members had successfully participated for their knowledge enhancement under our Institute as a Nodal Center of IIRS Outreach Programmes. (Ms. Sheron Christy is the coordinator for all these programs.)

Department of EC Students IIRS participation for EVEN 2024-2025

1044 IIRS Outreach Programme on Space Technology Applications on 10-1-2025

Sr. No.	Registration No.	Name	Sem
1	202410442658316	Keshvi Fefar	1 st
2	202410442663303	Hina Dhammar	1 st

156 IIRS Outreach Programme on Geodata Processing using Python and Machine Learning 17-2-2025 to 28-2-2025

Sr. No.	Registration No.	Name	Sem
1	20251562688305	Kausee Pathak	2 nd

1045 IIRS Outreach Programme on Martian Surface, analogues and atmosphere on 12-3-2025

Sr. No.	Registration No.	Name	Sem
1	202510452711157	Kanisha Poptani	2 nd
2	202510452710658	Paresh N. Patel	Lab Assistant

159 IIRS Outreach Programme on Space Technology: an Overview from 21-4-2025 to 25-4-2025

Sr. No.	Registration No.	Name	Sem
1	20251592738898	Kausee Pathak	2 nd
2	20251592739692	Vishva Katrodiya	4 th

160 IIRS Outreach Programme on The Method of Space Science Research from 5-5-2025 to 9-5-2025

Sr. No.	Registration No.	Name	Sem
1	20251602743671	Kausee Pathak	2 nd
2	20251602743514	Rudri Pandya	2 nd

Industrial Visits

Industrial Visit at E-Infochips Ahmedabad by 6th EC students with Dr. Jignesh Joshi on 29-1-2025.

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.



In Industrial visit students are briefed about company overview in which students are addressed for introductory presentation on eInfochips services, their global reach, and current trends in the industry in PES and ASIC domain. They explained product engineering demonstrations in which expert showcased IoT solutions, AI-driven applications and semiconductor design processes.

Students visited to Experience Zone in which expert demonstrated project so far designed by e-Infochips for their customers. Students had also an interactive session with professionals discussing industry challenges, skill requirements, and career growth opportunities.

Students came to about the chip design process, design of embedded systems and current trends in AI-driven solutions. They came to know about product lifecycle management in real-world projects and the role of cloud computing and cyber security in modern product engineering.

Industrial Visit at Krishna Instruments by 4th EC students on 4-4-2025.

Department arranged the industrial Visit at Krishna Instruments. Mr. Shah, the owner of the company, welcomed the students and explained about the company.



Krishna Instruments is providing calibration service (verification of accuracy of measuring instruments) of electrical measuring instruments, The Company have established first laboratory in Saurashtra region in 2003 for calibration of laboratory. In year 2010, they have been accredited by NABL (government approval) ISO/IEC 17025 (world standard)

The student visited each section of the company. Mr. Shah, assigned 2 staff members to explain in detail how the various types of measuring meters, transformers, resistors, inductors are calibrated, what precautions are to be taken, which types of instruments are required for calibration etc. Sometimes they had to visit the site for measurement and calibration work.

Workshops

Workshop on Aptitude and Reasoning Preparation on 10-3-2025.

The Department of EC conducted a workshop on Aptitude and Reasoning preparation for better placement for 6th Sem EC students. During the workshop the students were trained on how to tackle questions on quantitative ability and logical reasoning. The students got to learn how to solve the mind bending question in given time. This workshop is designed by our faculty members Mr. Nirmal Bhalani and Mr. Ravin Sardhara for pre-final year students who want to develop and master their skills to clear the Companies aptitude, logical reasoning and verbal reasoning tests.

Workshop on Introduction and Hands-on : HFSS by Dr. Namrata Langhoja from GEC.

For the 6th semester students of our department, for their subject Antenna and Propagation, a highly informative session was organized on HFSS - High-Frequency Structure Simulator. which was taken by the expert of the field and our esteemed alumni - Dr. Namrata Langhoja. Students learnt antenna designing and also were given guidance on the usage of HFSS for microstrip antenna designing.



Seminars

A seminar on “GATE Awareness” on 27-1-2025

Mr. Mrunal Shah from ACUMEN GATE ACADEMY has taken session on GATE awareness. He highlighted its relevance for recruitment in Public Sector Undertakings (PSUs). Students were given detail Structure and syllabus overview, Paper pattern, marking scheme, and qualifying criteria. He also gave recent updates , trends in GATE and Tips for planning an effective study schedule. Mr. Mrunal explained importance of mock tests and previous years' question papers.



Students gained a comprehensive understanding of the GATE exam's structure, syllabus, and its significance for higher education and PSU job opportunities. Participants were motivated to pursue GATE preparation with clear goals for advancing their careers in core technical fields or academia.



A seminar on “HAM RADIO Awareness” on 21-2-2025.

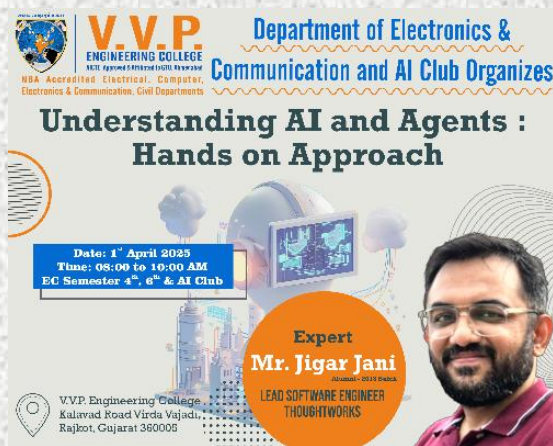
A seminar on HAM Radio was organized at V.V.P. Engineering College for 6th semester Electronics and Communication students. The seminar, which took place on February 21, 2025 was conducted by Mr. Dipesh Kinjra and Mr. Rohit Godiwal from the Ministry of Communication. The seminar aimed to raise awareness about HAM radio and related topics. The college also held an ASOC (Amateur Station Operator's Certificate) awareness program with the Department of Telecommunications, Government of India.



Expert Talk

An Expert talk on “Understanding AI and Agents : A Hands-on Approach” by Mr. Jigar Jani. Software Engineer, Thought Works on 1-4-2025.

Mr. Jigar Jani is one of the alumni of the EC department, having 10 years of experience with banking in technical side like backend tools for all transactions. He is having experience with Goldman Hachs(ranked among top 10 of world banks). For the last three years he has been working with ThoughtWorks (among top 3 consultancy accompanies). He worked on FinAccel - a leading digital credit platform used in UPI transactions with ICICI, AXIS banks. Currently he is working in the AI Tool design Research and Development department.



As a part of the AI club initiative EC department organized expert session which was introduced and demonstrated What is AI and Agents? Expert explained about Ollama as a free AI offline tool and Local AI Setup using Ollama. He Demonstrated different AI Models useful in daily life with more detailed discussion on agents. Expert also gave Free AI Tools demo, How to create AI Tools and No Code workflow. Students got information about AI and Agents, get motivated towards use of AI tools.

An expert session on “IELTS master Class” by Mrs. Nirja Bhargava, IELTS Trainer, IDP Education, Rajkot on 20-2-2025



**Want to Score Higher?
Join our Free IELTS Masterclass!**

- Master expert strategies to improve your IELTS score.
- Live Q&A to clear all your doubts.

February 20, 2025
4:00 PM - 5:30 PM



An expert session arranged to help them enhance their IELTS test preparation. She provided valuable insights to improve their test performance. An expert gave tips and strategies to score higher for all 4 modules – Listening, Reading, Writing, Speaking. She guided how to avoid common mistakes in the IELTS test. Students were given IELTS preparation material and Interactive session at the end of the Masterclass.

An Expert talk on “Challenges in eMobility & career prospects” by Prof. Amit Nehete (Assistant Professor) DoEEE, MIT WPU, Pune on 2-4-2025.

Prof. Nehete introduced the concept of eMobility, its overall approach, and the current market forecast. He elaborated on the architecture of BEVs and shared detailed information on their components and working. He highlighted the challenges faced by the eMobility industry, including technological, infrastructural, and economic hurdles. He also discussed the career prospects in the eMobility sector, emphasizing the growing demand for skilled professionals.



V.V.P. ENGINEERING COLLEGE
NBA Accredited Electrical, Computer, Electronics & Communication, Civil Departments

Date: 4th February' 2025

Expert Talk on:
Challenges in eMobility & career prospects

Organized by:
ELECTRICAL ENGINEERING DEPARTMENT (N.B.A ACCREDITED)
MECHANICAL ENGINEERING DEPARTMENT
ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT (N.B.A ACCREDITED)

Expert:
Prof. Amit Nehete
DoEEE, MIT WPU, Pune

Guest Field, Kalyand Road, Rajkot. www.vvp.edu.in info@vvp.edu.in 90728 1540





Prof. Nehete outlined the four major focus areas of electrical vehicles: battery technology, electric powertrains, charging infrastructure, and vehicle-to-grid (V2G) technology. He explained the various automation levels in eMobility, ranging from Level 0 (no automation) to Level 5 (full automation). Prof. Nehete highlighted the diverse roles available in the eMobility industry, including design and development, testing and validation, and manufacturing and maintenance.

The expert session on eMobility enhanced students' knowledge on industry trends and challenges. Students gained insights into career prospects and emerging roles in the eMobility sector. The session fostered curiosity and interest in eMobility among students.

Alumni Interactions



Alumni Interaction with Pranav Bhatt (2018 batch) on 22-03-25.

Our alumni Pranav Bhatt got admission in FU, Germany. He shared his journey and experience with EC students. He guided them for further studies and career.

Technical Events

State Level Techfest Shaurya on 25-2-25.

The much-anticipated annual technical event Saurya 2025 was successfully hosted by VVP Engineering College, Rajkot, showcasing innovation, creativity, and talent across various engineering domains. The Electronics and Communication Engineering Department played a significant role in this grand event by organizing two technical and two non-technical events, drawing enthusiastic participation from students across departments.

Faculty coordinator : Prof Ravin Sardhara

Student Coordinator : Shashwat Mehta And Het Umaretiya

Events Organized by EC Department:

Technical Events:

1. TecCirc-a-thon

This event tested participants' circuit analysis and design skills under time constraints. It was well-received by engineering enthusiasts and attracted a total of 24 participants.

2. Arduino Showdown

A competitive event based on Arduino-based problem-solving and project building. Participants were challenged to demonstrate innovative use of microcontrollers. The event saw a huge response with 81 participants competing.

Non-Technical Events:

1. 7 Hunters

A thrilling and interactive treasure-hunt style event aimed at testing team collaboration and problem-solving in an entertaining format. It emerged as one of the most popular events with a massive participation of 123 students.

2. Flip-a-Win

A fun and engaging game that tested memory, focus, and quick thinking. This non-technical event had a total of 33 participants.

The EC Department's efforts in organizing both technical and non-technical events were highly appreciated for their planning, innovation, and execution. The department succeeded in creating a platform for students to exhibit their technical skills and enjoy co-curricular activities. The overwhelming response and active participation were a testament to the event's success.



The Techfest provided a platform for innovation, collaboration, and exploration. As the curtains closed on another memorable edition of the Techfest, the spirit of innovation continues to thrive, leaving a lasting impact on all who participated.



Research Paper reading practice on 5-2-25.

The 2nd Semester students were made aware of the importance of Research in Engineering. Dr. Vishal Nimavat and Ms. Sheron Christy explained types of Research Papers and their contents in detail: Title, Abstract, Key words, Introduction, Methodology, Results and Discussion, Conclusion and References. They were given basic Review Papers of EC to read in group. They had to write a summary of the Research Paper and explain among classmates.

Students learnt to read various Research Papers of their discipline & got motivated to write their own Research Paper



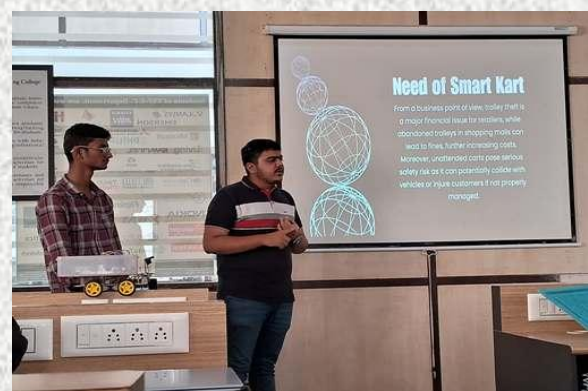
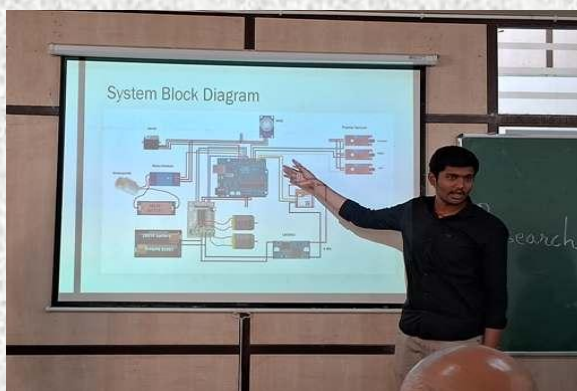
Department Level Research Paper Writing Competition on 19-2-25.

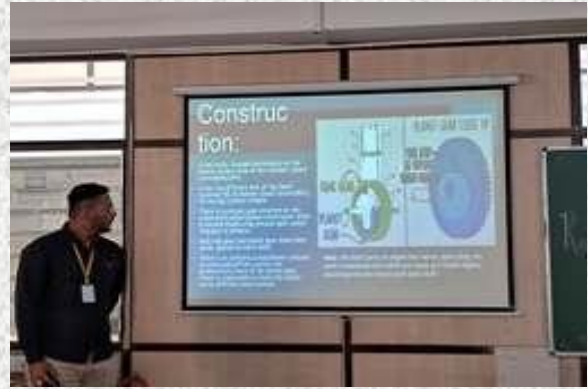
Research paper writing competition was organized by Department of EC, V.V.P engineering college. This program provided a platform to students to develop interest in Research Paper reading & writing. Total 9 papers from 2nd Sem, 3 papers from 4th EC & 2 papers from 6th EC students were presented. Dr. Jignesh Joshi and Dr. Vishal Nimavat motivated and guided all the students.



Following Research Papers were presented:

Sr. No.	Paper Title	Students Name
1	Home Automation using ESP32	Tanish Aghera (6 th EC)
2	Arduino Fire Fighting Robot	Yuvika Narvane, Om Doshi, Niraj Umretiya (6 th EC)
3	ML based plant diseases detection model with Drone	Dixit Khokhar (4 th EC)
4	Smart Kart	Mourya Vadera, Vaibhav Ubhadiya (4 th EC)
5	Piezo Electric Energy to Electric Energy	Vishva Katrodiya, Shruti Trivedi, Devangi Sankharva (4 th EC)
6	The Future of Space Exploration and Human Development	Kausee Pathak (2 nd EC)
7	Porche's 6-stroke engine: An Innovative approach towards efficiency and sustainability	Mrudual Kakkad (2 nd EC)
8	Revolutionizing Industries: The role of Automation & Robotics	Hetvik Shah (2 nd EC)
9	Type of sensors and their applications in modern electronics	Khushi Raikundaliya (2 nd EC)
10	Artificial Intelligence and its applications	Kausee Pathak, Aesha Undhad, Krisha Meghani (2 nd EC)
11	Air Conditioning Systems	Denil Depani (2 nd EC)
12	Li-Fi Technology	Janvi Pedhaniya (2 nd EC)
13	Advancements in Power Electronics and its New Era	Mihir Lathigra, Rudri Pandya, Purva Kothari (2 nd EC)
14	Advancements in Electrical Vehicle and its Technology: "Power Flow Optimization and wireless charging Innovation"	Keshvi Fefar (2 nd EC)





Project Fair for 6th, 4th and 2nd semester students on 3-5-25.

Electronics and Communication engineering Department of VVP Engineering College hosted its Project Fair, showcasing the innovative projects and research endeavors of its students. The event aimed to provide a platform for students to display their technical skills, creativity, and problem-solving abilities across various engineering disciplines. The fair witnessed enthusiastic participation from students across all years of Electronics and communication Department.

1. Project Exhibits:

Over 28 projects were displayed, covering a wide range of topics such as renewable energy, Drone technology, robotics, smart city solutions, environmental sustainability.

Fire Fighting Robot	8 Bit Alu
Led Propeller	Fingerprint Door Lock System
Fire Extinguisher Robot	Smart Parking System
Library Management System	Automatic Curtain System
Working Of Lift	Ir Counter
Smart Cart	Motion Detector

Obstacle Detector	Agriculture Automation
Fastest Finger First	Touchless Doorbell
Fingerprint Attendance System	Touch Sensitive Alarm
Home Security	Voltage Doubler
Traffic Light Sensor	Hand Gesture Controlled Car
Dynamic Traffic Management By Monitoring Weather Conditions	Bluetooth Control + Obstacle Avoidance + Voice Control Car
Arduino Base Cnc Plotter	Driver Drowsiness Detector System
Arduino Base Drone	



2. Interactive Sessions:

- Interactive sessions and live demonstrations were conducted, allowing visitors to engage with the projects and understand the underlying technologies.
- Students provided detailed explanations and answered queries from attendees, demonstrating their in-depth knowledge and expertise.

The Project Fair received positive feedback from both participants and visitors. Students appreciated the opportunity to showcase their projects and gain valuable insights from senior faculties. Visitors, including prospective students and parents, faculties, other departmental students were impressed by the quality and diversity of the projects displayed.



Rank 1 : Arduino based CNC Plotter (Abhishek Chauhan, Rohit Chauhan, Shrey Chaniyara)
Rank 2 : Library Management system (Tanish Agera, Akshra Chauhan, Paranjay Kansal)
Rank 3 : Arduino based Drone (Chauhan Abhisek)

Activities

Orientation (commencement of new semester)

All the faculty members welcome students for new semester. They were explained the importance of Vision, Mission, Program Objectives, PEOs and PSOs of our Department from NBA Perspective initially. The Students had been given insights regarding their academic term, various subjects, semester projects, Chalk and talk seminars, Research Paper Writing and technical events.



Orientation of 2nd Semester students





Orientation of 6th EC students on 21-1-25



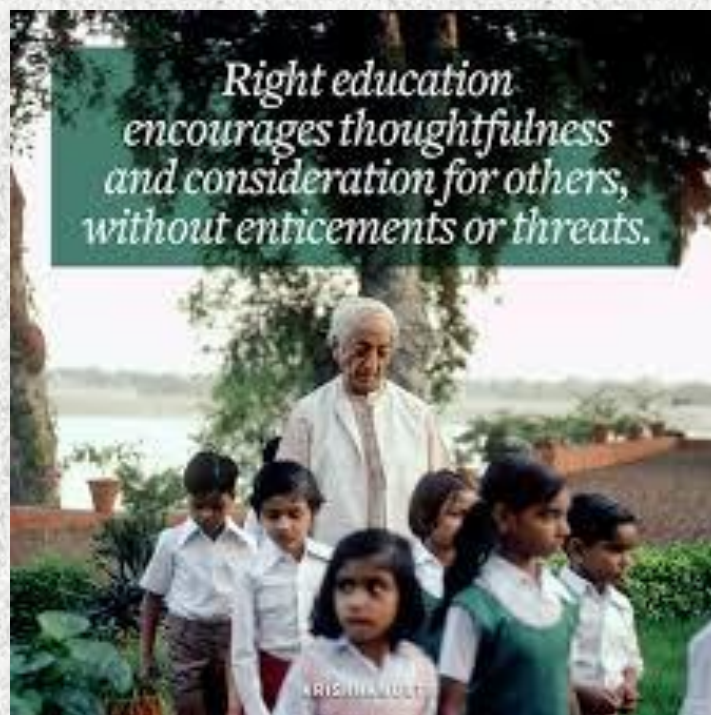
Orientation of 4th EC students

The students were appreciated for their achievements during past semester by certificates. The appreciation was done in the categories of Academic Excellence, Aptitude Exam, Chalk & Talk seminar presentation as well as Projects. The students were advised to improve their communication skills and attend online courses in addition to their academics to enhance their technical skills. This orientation was held on 21-1-25 for all students.

Parents' Meeting for 8th, 6th and 4th semester students on 3-5-25.

Department of Electronics and Communication had organized Parents Meeting for 4th, 6th and 8th semester students. In this meeting, our respected HOD Sir Dr. Paresh M. Dholakia had addressed all parents with current activities of our EC Department, efforts put behind students by our Faculties for their overall development and subjective performance and career perspective guidance for all students. The Parents were conveyed the attendance of their son/daughter as well as their subjective Mid Sem Result. They were glad to know about their children's academic progress in this meeting and about various aspects and dimensions carried out for the 360-degree development of their kid. Matters like training and placement and contributions from college in the growth of their kids helped them become stress free. Hence, the meeting was very informative and fruitful to all Parents as they became aware of their son/daughter's performance.

Motivational Quote



V.V.P. Engineering College



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