Vel Tech

Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Passionate • Doers



PROSPECTUS

1st Member from INDIA to join the

cdio™

a Worldwide Initiative



ARIIA

Ranked 5th in India
by MHRD, Govt. of India







About the Institution

The vision to harbinger growth of India through Academy Driven Excellence was incepted in the year 1997 under the Trust founded by the Educational-Philanthropic Personalities Col. Prof. Vel. Dr. R. Rangarajan, Chancellor & Founder President and Dr. Sagunthala Rangarajan, Foundress President.

The Institution has grown persistently over the years impacting student lives and matured as Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, u/s 3 of UGC Act 1956 in 2008.

Since then it has been sprawling its wings in all dimensions, nurturing young students to help them realize their goals in life by providing a truly higher education that everyone deserves irrespective of their financial means.

Vel Tech believes that there are no boundaries in the pursuit of knowledge. Through the strategic alliances with International Universities, the standard of education at Vel Tech would be on par with the best in the world.

We are Passionate • Doers in Innovative Engineering Education

Passionate·Doers

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

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RECOGNITIONS

UGC has declared Vel Tech as the Deemed University under Section 3 of the UGC Act, 1956

All programmes are approved by All India Council for Technical Education (AICTE)

Programmes offered by the School of Law are approved by the Bar Council of India.

I st Member from India to join CDIO, a worldwide initiative

Vel Tech is a member of ACU (The Association of Commonwealth Universities)

Vel Tech is a member of the University Industry Innovation Network

ACHIEVEMENTS

Vel Tech has been ranked 86th in Engineering Category 2019 by National Institution Ranking Framework

Vel Tech has been Ranked 5th among "Privately Funded Institutions" in India by ARIIA, an initiative of MHRD, Government of India for "Innovation and Entrepreneurship Development"

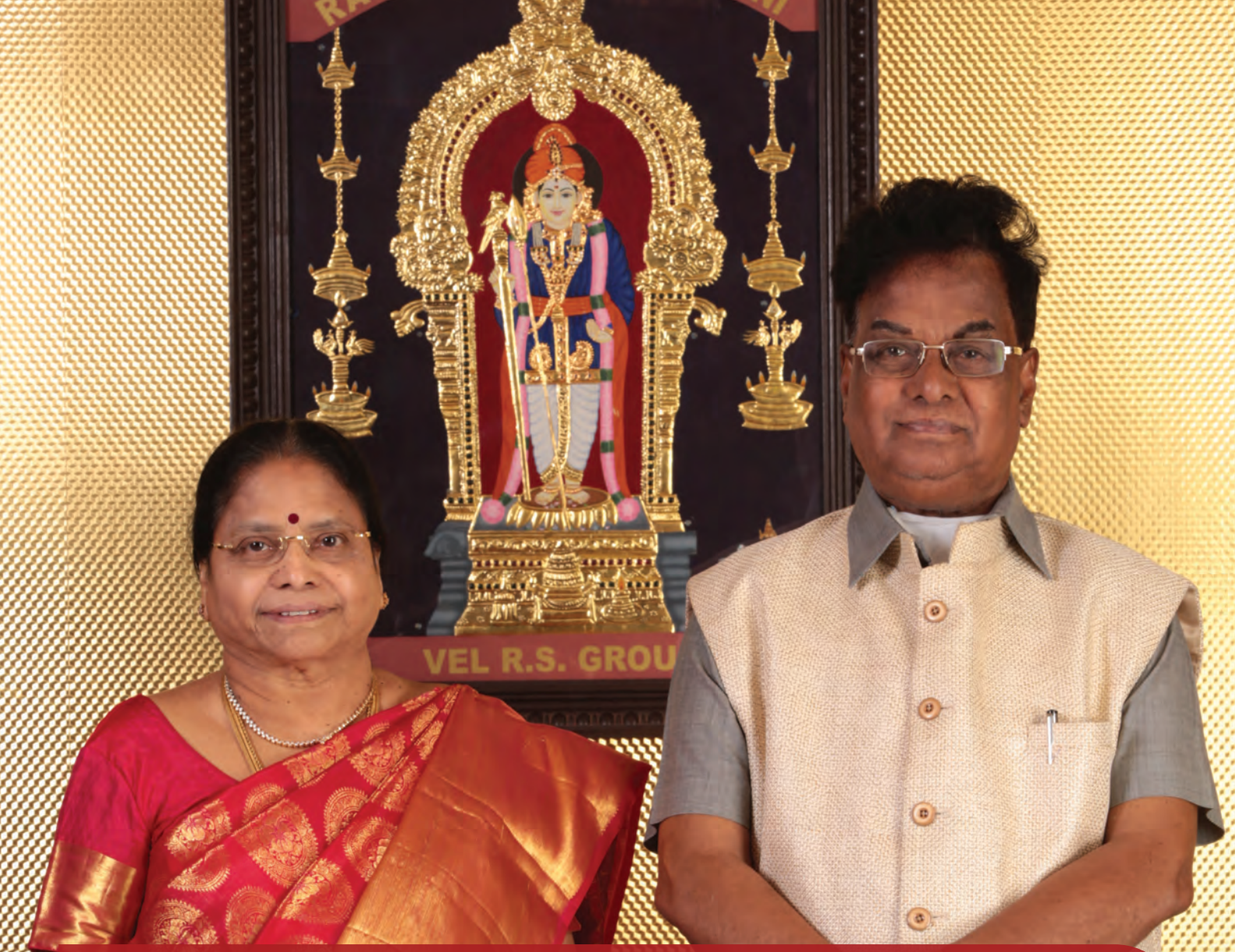
Times Higher Education (THE) Universtiy Impact Ranking 2019 SDG 9 Industry, Innovation and Infrastructure

QS I-GAUGE awarded the Institution with a Diamond Rating

TIMES ENGINEERING INSTITUTE RANKING SURVEY
Ranked No.2 under Top 100 Private Engineering Institute Rankings 2019
Ranked No.4 under top 140 Engineering Institute Rankings 2019 Overall Rankings

Departments of Aeronatical, Automobile, Civil, Computer Science, ECE and Mechanical are accredited by the National Board of Accreditation

Vel Tech has been accreditated with 'A' Grade by National Assessment and Accreditation Council



Message from the **FOUNDERS**

Dear Students & Parents,

This Institution has a cherishing memory behind its success. It was our passionate vision to make India stronger. We realized that creating knowledge assets would propel both social and economic development for the country. This passion is still the pulse in every effort taken in the Institution and the successful endeavor of every student is our reward.

"Have big aspirations for your future and take every step to get there"

We welcome you to be a part of Vel Tech, a step towards making your aspirations a reality.

Best Wishes.

Col. Prof. Vel. Dr. R. Rangarajan & **Dr. Sagunthala Rangarajan**
Chancellor & Founder President — Foundress President



Mrs. Rangarajan Mahalakshmi Kishore

Chairperson & Managing Trustee

All our efforts at Vel Tech are towards providing every student with a plethora of opportunities. The vision is unabated; in imbibing our student engineers with a spirit of professionalism and responsible citizens in an environment of globally prevalent competition.



Mr. K. V. D. Kishore Kumar

Vice President

"Synergy between Education and Excellence leads to success".

In pursuance of Vision2020, our students are given Global base for Knowledge and ample training, which acts as a catalyst to develop them as skilled professionals for the industry.

Come be a part of Vel Tech, a community of academicians, corporate and students.



From the Desk of the **VICE CHANCELLOR**

We know that our students compete globally, to face the challenges they need to be creative and innovative. We nurture knowledge, right attitude, personality development and hence enable them to succeed in their domain.

"Knowledge is Power"; Vel Tech is the best place for you to gain knowledge and excel.



Prof. V. S. S. Kumar



VISION

To create, translate and disseminate frontiers of knowledge embedded with creativity and innovation for a positive transformation of emerging society.

MISSION

To nurture excellence in teaching, learning, creativity and research; translate knowledge into practice; foster multidisciplinary research across science, medicine, engineering, technology and humanities; incubate entrepreneurship; instill integrity and honor; inculcate scholarly leadership towards global competence and growth beyond self in a serene, inclusive and free academic environment.



PROGRAMMES OFFERED

School of Computing

- B.Tech. Computer Science & Engineering*

*CSE Specialization in :

- Animation & Game Design
- Data Analytics
- Financial Computing
- Networking & Cyber Security
- Artificial Intelligence

- B.Tech. Information Technology*

*IT Specialization in Cloud Computing

School of Electrical and Communication

- B.Tech. Electrical and Electronics Engineering
- B.Tech. Electronics & Communication Engineering
- B.Tech. Biotechnology
- B.Tech. Biomedical Engineering

School of Mechanical and Construction

- B.Tech. Aeronautical Engineering
- B.Tech. Automobile Engineering
- B.Tech. Civil Engineering
- B.Tech. Mechanical Engineering

School of Law

- B.A., LL.B. (Hons)*
- B.Com., LL.B. (Hons)*

** Integrated programme for 5 Years*

School of Management

- B.Com.
- B.B.A.

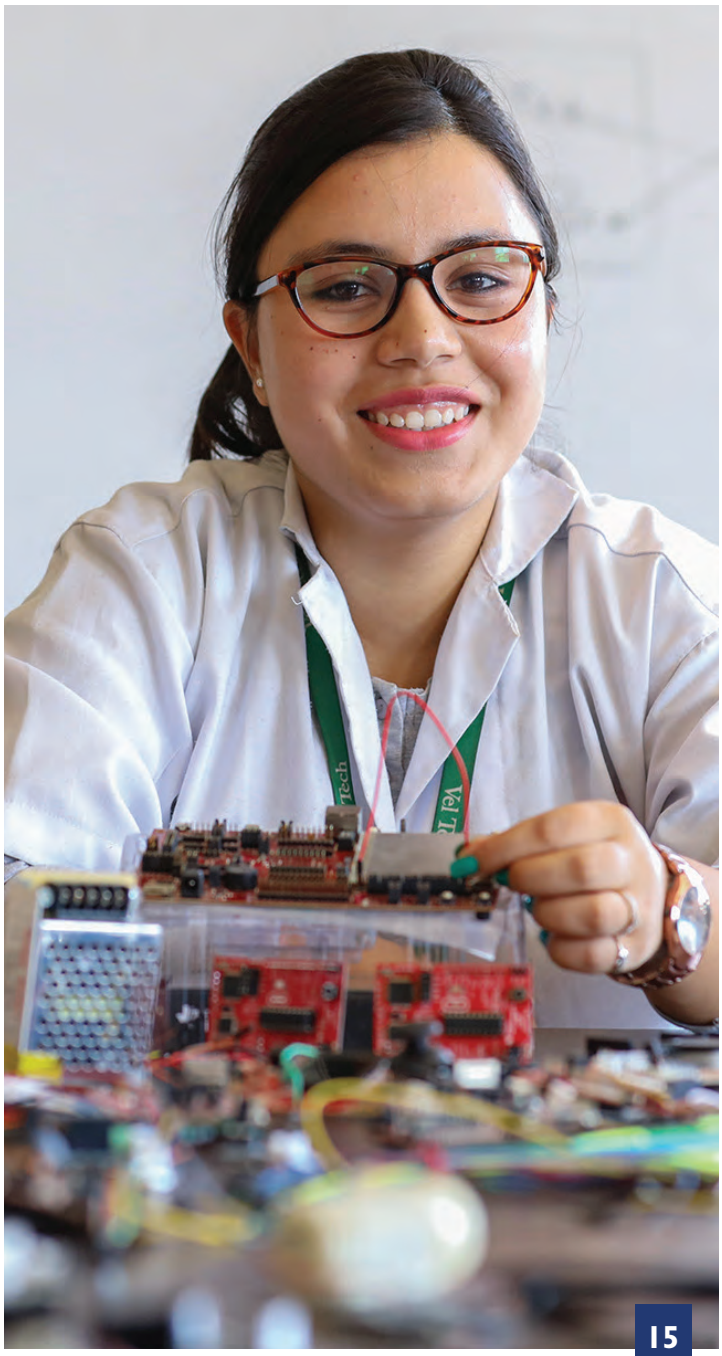
School of Media Technology & Communication

- B.Sc. Visual Communication
- B.Sc. Multimedia




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SCHOLARSHIP

VEL TECH MAHATMA GANDHI NATIONAL MERIT SCHOLARSHIP SCHEME

Objective of the scholarship scheme:
• Affordable higher education for students across all States and Union Territorries
The University has bestowed **9500 scholarships** worth approximately **Rs. 99 Crores until 2019**.

Scholarships are offered in the Tuition Fee based on
• Ranks scored in the All India entrance examination popularly known as VTUEEE (Vel Tech Undergraduate Engineering Scholarship Eligibility Examination)
• MPC aggregate scored by the Student in their board exams.

Candidate can avail scholarship based on MPC Aggregate* / VTUEEE Ranking, whichever is higher.

Scholarship based on MPC Aggregate	
MPC Aggregate*	Percentage of scholarship in tuition fee
Above 95%	75%
90 - 94.9%	50%
80 - 89.9%	25%
70 - 79.9%	10%

Scholarship for VTUEEE Rank Holders	
Rank holders in VTUEEE 2020 from each State / UT	Percentage of scholarship in tuition fee
Top 20 Ranks*	75%
Rank 21 - 500	50%

*Minimum eligibility is 60% in MPC

How to Apply for B.Tech Programmes ?

Candidate can apply online or offline to Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

Application Fee Rs. 950/-

Online Application

Candidate can visit www.veltech.edu.in to apply online. Application fee can be paid through Net Banking / Credit card / Debit Card / UPI / Paytm Postpaid or Wallet.

Offline Application

Candidate can send in a Demand draft for Rs. 950/- drawn in favour of "Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology", payable at Chennai, to The Director – UG Admission, No.42, Avadi - Vel Tech Road, Vel Nagar, Avadi, Chennai - 600 062, along with a requisition letter containing the full address of the applicant.

Purchase the Application forms from the Regional Offices of Vel Tech on cash payment of Rs. 950/-. The addresses of Regional Offices are present on the website.

LEADERSHIP



Prof. Dr. techn. Koteswara Rao Anne
Director Academics

Vision: To be widely recognised as an Asian Leader in transformation of student learning experiences and academic practices.

Mission: To provide a vibrant academic environment to students and faculty for pursuing their dreams passionately.



Prof. Dr. A. Abudhahir
Director Quality Assurance

Vision: To be a Centre for evolving benchmarked quality metrics/ procedures for the educational practices, processes and methods.

Mission: To benchmark the practices and processes against CDIO standards, National/International accreditation criteria and ranking parameters for facilitating administrative systems achieving continuous improvement.



Prof. Dr. P. Sarasu
Director Industry Relations & Director Research and Development

Vision on Industry: Center to develop and sustain symbiotic relationship with Industry for the benefit of students and faculty.

Mission on Industry: Involve Industry professionals in the academic process and provide opportunity for faculty and students to interact with the Industry through trainings, internships and project consultancy.

Vision on Research: Forerunner in providing solutions to societal challenges through interdisciplinary Research.
Mission on Research: To develop infrastructure and policy to promote Research and enhance the collaborations between Faculty, Research investors, Industries and Research enterprises in India and abroad.



Mr. S. Sivaperumal
Director International Relations

Vision: To build symbiotic relationship with International peers to infuse global perspective, International competency and cultural sensitivity.

Mission: Develop policy and create avenues for mutual exchange of students and faculty for various professional engagements such as internship, course, project work and Research.

LEADERSHIP



Prof. Dr. V. Parthasarathy
Director Campus to Corporate

Vision: To ensure placement opportunity for every student in their chosen path.

Mission: Inculcate the culture of competency among students to suit dynamic corporate requirements and be the launchpad for their successful career.



Prof. Dr. E. B. Perumal Pillai
Director Human Resources Development Centre

Vision: Centre of excellence in enhancing faculty competencies.

Mission: Provide wide opportunities and environment for enhancing faculty competence in teaching, learning, personal, interpersonal, product and system building skills.



Prof. Dr. E. Kannan
Director Campus Affairs

To ensure overall development of the student to improve their personality.



N. S. Prema
Registrar

To practice best pedagogy for the University, complying with regulatory responsibilities.



Dr. R. Sivaraman
Controller of Examinations

To execute the evaluation of student learning as per the regulations confidentially and redress the grievances transparently.

DEANS



Prof. Dr. A. T. Ravichandran
Dean - School of Mechanical & Construction
HoD - Department of Mechanical Engineering

Vision: The School surges on its mission to develop graduates who are nurtured to be successful in their chosen career paths, demonstrate their abilities in their core domain and effectively adapt to changing society while maintaining their highest Engineering professional and ethical standards. The activities of the School focuses on the fundamental understanding of their domain specific Engineering and Science.



Prof. Dr. V. Jayasankar
Dean - School of Electrical and Communication

Vision: The goal of the School is to position our Engineering graduates as problem solvers, leaders, life-long learners and honorable citizens of the global community. We offer the best Engineering atmosphere with world class facilities, intellectual and technological resources from educational and Research Institutions for the holistic development of our students. The curriculum is balanced between the practical aspects of Engineering with the strong theoretical foundation, this prepares our students to meet the challenges of the global technological society.



Prof. Dr. V. Srinivasa Rao
Dean - School of Computing
HoD - Department of Computer Science and Engineering

Vision: To provide cross over learning experience via industrial exposure, this has enabled to witness students gaining depth on their subjects



Prof. A. Subramanyam
Dean - School of Law



Dr. S. Irudayaraj
Dean - Hostels

Heads of Department



Dr. P. Chandrasekar
HoD - Department of Electrical and Electronics Engineering

Vision: To make the department as a Centre of Excellence in Electrical & Electronics Engineering and make the students to gain in-depth knowledge and thereby making them to develop confidence in Research & Development activities for Nation building.



Prof. Dr. E. B. Perumal Pillai
HoD - Department of Civil Engineering

Vision: To impart knowledge and excellence in Civil Engineering with global perspectives to the student community and to make them ethically strong engineers to build the nation.



Dr. R. Jaganraj
HoD - Aeronautical Engineering

Vision: To be a Centre of Excellence for Education and Research in the field of Aeronautical Engineering to meet the global challenges.



Prof. Dr. Amala Justus Selvam
HoD - Automobile Engineering

Vision: To be a centre of Excellence in the field of Automobile Engineering by imparting knowledge and skill, enhancing Research and Development activities with social, ethical and environmental responsibilities to meet domestic and global challenges.



Dr. G. Vairavel
HoD - Electronics and Communication Engineering

Vision: To be a Centre of academic excellence through quality education and cutting edge research in the diversified fields of electronics and communication engineering to meet the global challenges and produce high quality professionals

Heads of Department



Dr. C. Mahesh
HoD - Information Technology

Vision: To evolve as a Career of Academic Excellence in providing globally standard education and research in the field of information Technology and to mould young graduates into competitive, innovative, self-disciplined and visionary computer professionals while maintaining a commitment to diversity and humanity.



Dr. V. R. Manoj
HoD - Biotechnology

Vision: To be a centre for excellence for nurturing future technologists to meet Existing andEmergent global socio-economic challenges inthe fields of Biotechnology through sustainable manner.



Dr. N. M. Masoodhu Banu
HoD - Biomedical Engineering

Vision: To be recognized by the society at large as an excellent department, offering qualityhigher education in Biomedical Engineering field by focusing on research, innovationsand collaboration with the support of well experienced and respected faculty.



Ms. L. Ramalakshmi
HoD - Media Technology & Communication

Vision: To attain global recognition in the field of Media & Communication pedagogy and Research staying abreast with technological changes in order to meet the growing needs of the industry and society by producing ethical and globally competitive media professionals.



Dr. B. Jayaprabha
HoD - School of Management

Vision: Equip students with knowledge and skill so as to be with full potential and the cherishedvalues to be philosophically sound in consonance with national and global development ofcutting edge business education and make students employable.

Heads of Department



Mr. Vijay Albert
Head - Freshman Engineering

Vision: To be a Centre of Excellence for Education and Research in the field of Aeronautical Engineering to meet the global challenges.



Dr. M. L. Suresh
HoD - Department of Mathematics



Dr. C. Hazarathaiah Yadav
HoD - Department of Chemistry



Dr. M. R. Bindu
HoD - Department of English



Dr. R. Jothilakshmi
HoD - Department of Physics

I Learn

- In reconfigurable classrooms.
- Through Problem solving / project based methodology.
- Through Active learning strategies in class.



LEARNING EXPERIENCE

I Study
• Globally recognized CDIO (Conceive - Design - Implement - Operate) based curriculum.
• Integrated courses with Theory, Lab and Project.
• In Multidisciplinary learning environment.

I Experience
• Lectures from International Professors and Industry Experts.
• Semester Abroad Programme / In-plant training, Internship in Industry.
• Sports, Clubs & Culturals.

I demonstrate
• Aptitude, Self learning skills.
• Complementary life skills through value educational courses.
• Interpersonal & Professional skills.

I am a Student Engineer
• Doing Social value projects from the 1st Semester.
• Interning upto 9 months in Industry.
• I participate in various National / International Competitions.

I can Decide
• Courses to study.
• The number of courses in a semester.
• To learn in my own pace.
• My faculty and my timing.


VAIO

School of Computing

The School comprises of

1. Department of Computer Science & Engineering
2. Department of Information Technology



Times Engineering Institute Ranking Survey 2019 Award

One of the largest schools in the Institution with state-of-the-art high performance computing facilities and latest software & hardware equipped systems. The School pioneers as world-class Centre of Excellence in Education and Research through the collaborative, and participatory approaches. This enables to nurture effective development of high quality professionals to meet the challenges of the knowledge era with the potential to design and develop systems involving the integration of software and hardware devices. They learn innovative approaches for programming and problem solving, as well as creative ways to use computers, large scale software systems and computing infrastructure of an organization.



PROGRAMMES OFFERED

UG Programme

B.Tech. Computer Science & Engineering*
with Specialization in
- Animation & Game Design
- Data Analytics
- Financial Computing (Fin Tech)
- Networking & Cyber Security
- Artificial Intelligence

PG Programmes

M.Tech. Computer Science and Engineering`
M.Tech. Network Engineering
M.Tech. Big Data Analytics
M.Sc. Data Analytics

Ph.D. Programme

Computer Science & Engineering
Full Time / Part Time

Department of Computer Science & Engineering

Computer Science & Engineering involves the Design and understanding of Computational process and Principles of Programming Languages.

* Accredited by NBA under Tier - I (Washington Accord) category.

Core Courses: Algorithms, Principles of Programming Languages, Operating Systems, Database Management Systems, Computer Network, Computer Graphics, Artificial Intelligence, Cloud Computing, Bio-informatics, Networking, Data Mining, Cyber Security, Big Data Analytics, Machine Learning & Internet of things etc.

Department Highlights

- 122 Doctoral students are currently pursuing research in the above listed areas.
- Activities in Research areas are Cloud Computing, Internet of Things, and Block Chain Technologies.



Cyber Security
Machine Learning
Bioinformatics
Digital Image Processing
Video Analytics
Cognitive Science



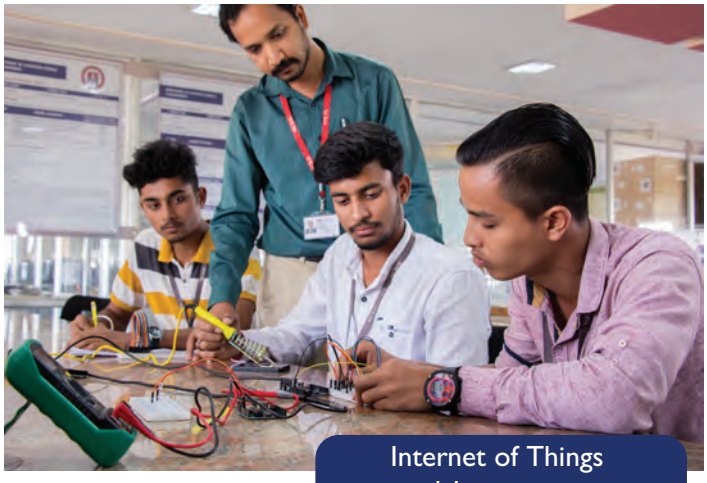
Internet of Things
Block Chain Technology
Cyber Security
Artificial Intelligence
Machine Learning

Laboratory Facilities

- Apple MAC systems laboratory
- Internet of Things laboratory
- Center for Development of Advanced Computing (CDAC)
- IBM Center of Excellence
- EMC2 / Data analytics
- CISCO networking laboratory
- Oracle academic laboratory
- Robotics laboratory
- Artificial Intelligence laboratory
- AR/VR laboratory
- NVIDIA server for deep learning
- ERDAS for remote sensing


Learning Experience


Apple MAC systems laboratory


Internet of Things laboratory

Active Learning Classrooms



International / Industry / Institute Interaction

Oklahoma State University, Still Water, USA

Nagoya Institute of Technology, Japan

New Jersey Institute of Technology, USA

My journey of learning at Vel Tech with all the Faculty members and Professors has equipped me to be a professional to excel in my career.



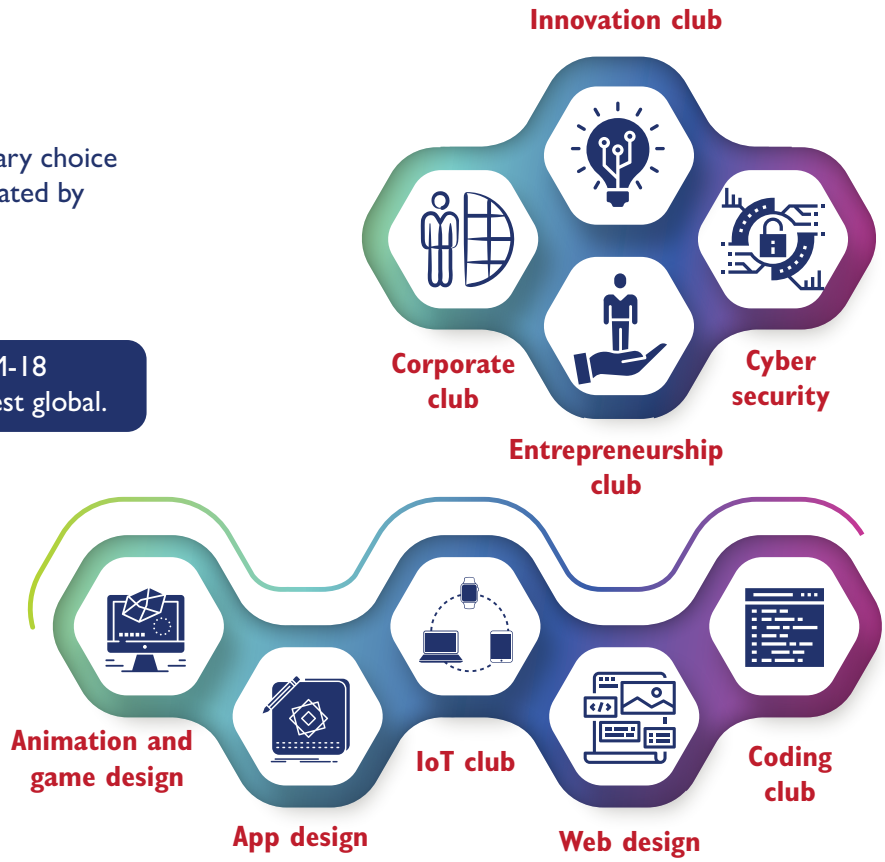
K K Venkatesh Acharya
T. Decision Scientist
Mu Sigma Inc. Bangalore, KA

Clubs

Several clubs in technical and literary choice are active in the Department, initiated by enthusiastic students.



Second prize in INGENIUM-18 contest Conducted by Quest global.



Internships / Projects

Industry / Organization

Accenture
Wipro
Mindtree
Capegemini
Zoho
DRDO
ISRO

Abroad

National University of Singapore (NUS), Singapore
Nanyang Technological University (NTU), Singapore
Bremerhaven University of Applied Sciences, Germany
National Chiao Tung University (NCTU), Taiwan
FPT University, Vietnam
National Chung Hsing University (NCHU), Taiwan
National Ilan University (NIU), Taiwan
Asia University, Taiwan
Tamkang University, Taiwan

CISCO Certifications

CCNA | CYBER OPS | PYTHON | IoT

Student Achievements

- The worldwide coding contest TECHGIG Code Gladiators by JIO-2019, sponsored by UI Path in Mumbai, our students won the 2nd Runner up with cash award of Rs. 75,000/-
- Our students won 2nd prize in RBS Hackathon contest
- Best Innovator Award in TECHgium, L&T Technology Services



Department of
Information Technology

PROGRAMMES OFFERED

UG Programme

B.Tech. Information Technology
with Specialization in Cloud Computing

PG Programme

M.Tech. Information and Cyber Security

Ph.D. Programme

Information Technology
Full Time / Part Time

Information Technology is the study on computers and technology, which develops technocrats and software professionals. Students learn Computer Programming, Software and methods to Program Electronic equipment.

Core Courses: Programming, Networking, Human Computer Interaction, Cloud Computing, Virtualization Technologies, Machine Learning, Web Systems, Cyber Security, Mobile Application Development, Ethical Hacking, etc.

Highlights

- Provides state-of-the-art technical education
- Dedicated quality teaching
- Associated with IEEE - Robotics and Automation Society
- Associated with "IT INNOVATORS ASSOCIATION", through which various events are conducted for the enrichment of student knowledge and intellectual skills
- Alumni are employed in top reputed companies such as TCS, Infosys, Accenture etc

Lab Facilities



International Internships / Projects

Students undertake International Internships and Projects through the Semester abroad programme initiated by the Directorate of International Relations at various internationally reputed Universities:

Nanyang Technological University, Singapore

National Chiao Tung University (NCTU), Taiwan

National Chung Cheng University (CCU), Taiwan

Asia University, Taiwan

Tamkang University, Taiwan



"I have learnt a lot from taking this programme. The curriculum design, topics and assignments are highly significant to my professional development."

Devi Varaprasad

"I study in a professional learning environment, with well equipped laboratories and supportive faculty. I could execute my projects even more easy. "



Shalini Tomaf

School of Computing

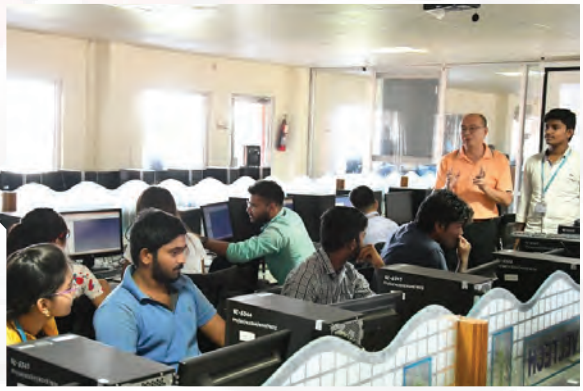
Prof. Dr. Daniel Einarson
Kristianstad University, Sweden

Course:
The Episteme, Techne, and Phronesis of Software Engineering & Computer Science for Sustainable Development



Prof. Dr. Po-Ming Lee
Southern Taiwan University of science and Technology, Taiwan

Course:
3D modelling and Fast prototyping & Introduction to video editing



Prof. Dr. Jordi Petit Silvestre
Universitat Politecnica De Catalunya, Spain

Course:
Practical functional Programming with Haskell & Introduction to Competitive Programming with C++



GLIMPSES OF SHORT COURSES BY INTERNATIONAL FACULTY



Prof. Dr. William Grosky
University of Michigan, Dearborn, USA

Course:
Information Retrieval and Text Mining



Prof. Dr. Suzanne Kieffer
Université Catholique de Louvain, Belgium

Course:
Rapid contextual design: a first hands-on experience



Prof. Dr. Goran Dambic
Algebra University, College

Course:
New game design using Unity

School of Computing

Mr. Srinivasan
Team Head, DCC LIMITED

Course:
SAP Evolution



Mr. Vinoth Rajagopal
Project Manager, Mphasis

Course:
HTML 5



Mrs. Yavanarani
Scientist D,Combat Vehicles Research and Development Establishment (CVRDE)- DRDO

Course:
Digital Image Processing using LAB VIEW



Mr. Vivek Saxena
Scientist E, Defence Terrain Research Laboratory (DTRL) - DRDO

Course:
Free and Open Source Software(FOSS) for Geospatial Data Analysis



Mr. Vinay Pandey
VP-Engineering,
Tesseract Global Technologies Pvt. Ltd.

Course:
Cybersecurity and Blockchain



GLIMPSES OF SHORT COURSES BY INDUSTRY PROFESSIONALS



Mr. Premanand
Director, Techiespeaks Technology and Management Services

Course:
Trends in Cyber Security



Dr. Shalabh Bhatnagar
Professor and Chair,
Indian Institute of Science

Course:
Reinforcement Learning



Dr. S. R. Pandian
Dean (Planning) & Coordinator, Teaching Learning Centre,
Indian Institute of Information Technology Design & Manufacturing - IIITD&M

Course:
Open Source Hardware



Mr. Rajesh Kumar Nalla
CEO,Techimax IT Services Pvt. Ltd.

Course:
BIG DATA Fundamentals and Hadoop



Mr. Anand Sathiyamurthy
Team Leader, Accenture

Course:
Web Services & Service Oriented Architecture (SOA)



School of Electrical and Communication

The School comprises of

1. Department of Electronics & Communication Engineering
2. Department of Electrical and Electronics Engineering
3. Department of Biotechnology
4. Department of Biomedical Engineering

The School imparts knowledge in Electrical, Electronics and Communication Engineering and allied areas. The programmes offered by the school are designed and developed in close interaction with Industry partners like C-DAC, FCRI, RAI, NAASCOM etc., with the aim to produce illustrious engineers of fine caliber and enabling them to occupy the prestigious position in Industry. Many of the faculty members of the school are doctorates from reputed Universities from India and Abroad. Students of the school actively participate in reputed National clubs such as Robotics club and Small Device programming club to enthuse and bring out their skills.



PROGRAMMES OFFERED

UG Programme

B.Tech. Electronics & Communication Engineering*

PG Programme

M.Tech. Embedded Systems and Technologies

Ph.D. Programme

Electronics & Communication Engineering
Full Time / Part Time

Department of
Electronics & Communication Engineering

Electronics & Communication Engineering Programme equips the students to develop high-tech solutions for practical and real world problems. The programme prepares the students to work on shaping tomorrow's world by learning:

- To build a Smart Robot that can collaborate with human beings, learn its environment and modify its actions accordingly
- To design and model System on Chip for smart phones, tablets, smart watches and other IOT devices
- To implement Machine Learning for signal processing in wireless communication systems and networks

* Accredited by NBA under Tier - I (Washington Accord) category.

Specialized Courses offered

• Software Defined Radio • Software Defined Networking • System on Chip • Machine and Deep Learning for Signal Processing • Smart Robotics

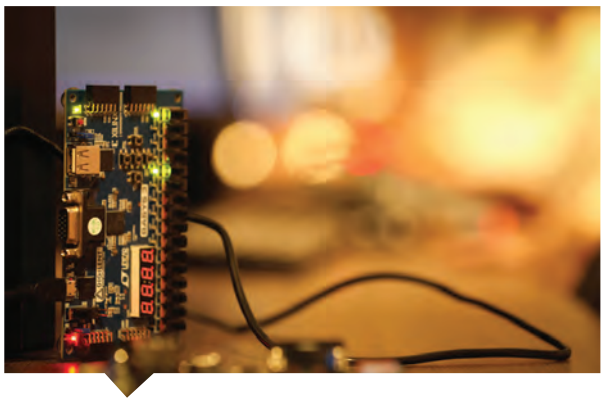
Core courses: Analog Electronics, Digital Electronics, Electromagnetic Fields, Discrete Time Signal Processing, Data Communication Networks, Wireless Digital Communication, Waveguides and Antennas, Optical and Microwave Engineering, VLSI Design, Embedded OS and Device Drivers.

Department Highlights

- Faculty members adopt Active Learning Methods and CDIO approach for teaching and to bring in a futuristic design experience.
- Department is actively associated with organizations such as Centre for Development of Advanced Computing (CDAC, Pune), Automotive Research Association of India (ARAI, Pune), NASSCOM and Kwality Photonics.
- Faculty and students have won awards like CANEUS Lockheed Martin Award in IISC for Small Satellites, Aegis Graham Bell Award for Unmanned Air Vehicles and various innovative achievements. Faculty and Industry experts from top QS ranking institutes and reputed organizations visit and deliver one credit courses for the students of ECE department.
- The department periodically conducts hands on workshops, symposia and conferences as a part of IET, IEEE professional society and department clubs (Robotics Club, Programming Club, Association of
- Communication Engineers Club) activities.

Laboratory Facilities

Centre for Excellence in Virtual Instrumentation in association with National Instruments.



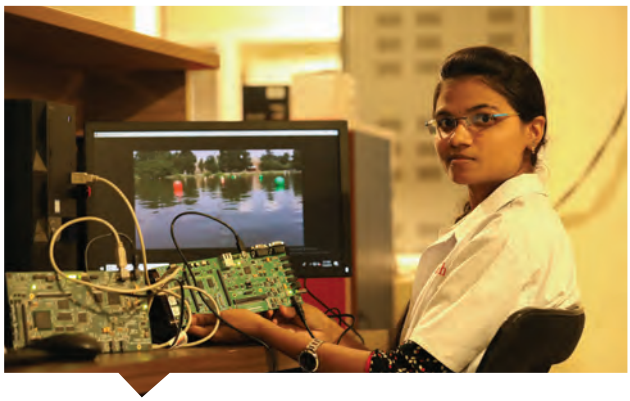
System on Chip Laboratory supported by Xilinx



e-Yantra Robotics Laboratory initiated by IIT Bombay sponsored by MHRD



Internet of Things Laboratory
supported by Texas Instruments



Advanced Communication, an unique laboratory equipped with industry standard equipment and software.

Ongoing Research

- Innovative wheel drive to enable widespread Electric Bicycle Transportation (IWDEB) in collaboration with Francecol Technology, France.
- Design and Development of Small Satellite Systems
- Design and Fabrication of RF/Microwave and Millimeter Wave Antennas
- Wireless Sensor Networking for IoT Applications

International Internships / Projects

Nanyang Technological University, Singapore

National University of Singapore (NUS), Singapore

National Chiao Tung University (NCTU), Taiwan

National Tsing Hua University (NTHU), Taiwan

Institut National des Sciences Appliquées (INSA), France

Tamkang University, Taiwan

Institut Supérieur D'Electronique De Paris (ISEP), France

National Sun Yatsen University (NSYSU), Taiwan

Kristianstad University, Sweden

National Chin-Yi University of Technology (NCUT), Taiwan

National Chung Cheng University (CCU), Taiwan

Taipei University of Technology, Taiwan

National Chung Hsing University (NCHU), Taiwan

National Formosa University (NFU), Taiwan

National Ilan University (NIU), Taiwan

Polytech Orleans, France

Southern Taiwan University of Science and Technology, Taiwan

FranceCol Technology, France



Our graduates are employed in reputed companies like

IBM, Cisco, EMC², SCHWING Stetter, BOSCH, WABAG (sustainable solutions. for a better life.), ZEBRONICS, Mu Sigma (DO THE MATH), wipro



"All the courses in B.Tech ECE programme are best handled by the faculty members through Active Learning Methods. I understood the core concepts through **experiential and project based learning**. Now, I am confident enough to crack all the core competitive exams"

Tejaswi. A (VTU10403)
B.Tech. ECE

I am extremely overwhelmed by Internship to Placement (I2P) offer in NOKIA with a good package. As a part of B.Tech ECE curriculum, I have chosen '5G Mobile Communication' course and visited NOKIA Company to learn about the research and development in 5G. The knowledge gained in this course helped me to crack the interview.



Sharuk Khan
B.Tech. ECE

PROGRAMMES OFFERED

UG Programme

B.Tech. Electrical and Electronics Engineering

PG Programme

M.Tech. Power Electronics

Ph.D. Programme

Electrical and Electronics Engineering
Full Time / Part Time



Solar Photovoltaic Energy Module Trainer helps to investigate the parameters involved in solar radiation into electricity.

Department of Electrical and Electronics Engineering

Electrical and Electronics Engineering is being an integral part of our digital world. Electrical Engineers can build intelligent systems ranging from low power devices to high power systems. Electrical Engineers are in fact, the driving force behind the development of smart phones, electric vehicles, industrial robots, the latest medical equipment and much more.

Core Courses: Power System Analysis, Microprocessors and Microcontrollers, Power Electronics, Digital Signal Processing, Protection and Switchgear, Embedded Systems, High Voltage Engineering, Robotics, Renewable Energy Systems, Smart Grid, Nano Science.

State-of-the-art facilities: Francecol Centre for Innovative Devices Lab, Centre for Battery Technology, Fluke Power Quality Analysers, Solar Module, Process Control Trainer, Product Design Lab.

Softwares: ETAP, HOMER PRO, ANSYS, MATLAB

Skill Oriented Innovative Elective Courses: Voltage Stabilizer Fabrication, Switch Mode Power Supply Design and Development, Electric and Hybrid Vehicles, Wearable Electronics and **courses are offered by Industry Experts** from TAFE, LUCAS TVS, NIWE, Kwality Photonics, IIITDM and Mahindra Electric.

Students Achievements

- All India Ranked No.1 in Indian Army, Service Selection Board (SSB).
- Best Innovator Award by L&T Technology Services.
- Best Creative Technology Award from KASA, South Korea.

Key research areas are Smart Power Grid, Industrial Drives, Industrial Automation and Renewable Energy, Electric Vehicle and Battery Management System.

Laboratory Facilities



Process Control Trainer
demonstrates PC based control of pressure, flow, level, temperature, and pH processes.



Fluke 434-II Power Quality Analyser
helps to identify voltage anomalies and harmonic distortion issues.

Placements in Core Companies & ITES



International Internships / Projects

Fachhochschule Dusseldorf, Germany

National Chin-Yi University of Technology (NCUT), Taiwan

Tamkang University, Taiwan

National United University (NUU), Taiwan

Changsha University of Science & Technology, China

Francecol Technology, France

National Formosa University (NFU), Taiwan





Designed Wireless Charging of Electric Vehicles at 24 hours Hack-a-thon event, Bangalore, this gave me job offer with Titan Company Limited, Hosur.

M. Jeevarathinam
(B.Tech. EEE 2015-19)



I developed Digital Low Drop-out regulator, model based project during my Semester Abroad programme at Tamkang University, Taiwan.

Kelper Okram
(B.Tech. EEE 2015-19)



PROGRAMME OFFERED

UG Programme

B.Tech. Biotechnology

Department of Biotechnology

Biotechnology is a comprehensive discipline which combines study of engineering and biology for Research and development. Biotechnology Engineers involve in the development of Medical, Agriculture, Bio-Security and Research.

B. Tech - Biotechnology at the Institution will provide you the opportunity and the skills to enhance your research using biological principles and systems to create new products. The Institution also provides opportunities to investigate the economic basis, entrepreneurial potential for current biotechnology structures and areas of future demand.

Core courses:

Genetic Engineering, Bioprocess Engineering, Biochemical Engineering, Chemical Engineering, Cell Biology, Upstream and Downstream engineering.

Department Highlights

- The Curriculum also offers a broad variety of core electives that enable the student to choose their career path and specialize in the domain of their choice.
- Dynamic Interdisciplinary Research environment to support Industrial placement.
- Prof. Shubiao Wu from Aarhus University, Denmark conducted course on Bioremediation and Biowaste Management at Vel Tech for 2nd year Biotechnology students.
- Department regularly hosts International Professors to handle courses in cutting edge technologies from premier International Universities such as Orleans University, France and Aarhus University, Denmark.
- The projects follow world renowned CDIO mode of instruction where students can take up mini projects of their liking at any time of their studies and develop into products and business ideas.

Laboratory Facilities

- SHIMADZU Weighing balances are used to ensure that the students use the same kind of sensitive weighing equipment used in their occupation.
- Atomic Absorption Spectrophotometer and Hanna Multi parameter photometer suitable for elemental analysis of organic and inorganic constituents in environmental samples.Other Equipments are Shaker Incubators, Fully automated Autoclaves, Bacteriological and BOD Incubators, UV-Visible Spectrophotometers etc.,
- Lynx Deep Freezer (minus 86 degree Celsius) is capable of storing micro-organisms and samples.



Lynx (Lawrence and Mayo) Binocular Microscope with Imported optics and LED illumination with Battery backup delivers precision microscopic images as well magnified and resolved



Laboratory Facilities

Imported Class II Bio Safety Cabinets with touchpad and remote control for precision aseptic operations; is used for training the students in industry grade aseptic techniques.





Trinocular Inverted Fluorescence and Phase contrast Microscope with Digital Microphotography (HDMI) attachment and image analysis software that can take high definition images and videos of live cells; under bright field, phase contrast and fluorescent modes.



International Internships / Projects:

National Chung Hsing University (NCHU), Taiwan



I aspire to become an Exobiologist
and fly into space to study life across planets. Here I am encouraged to pursue my passion through applied Biotechnology. I am free to develop my own experiments in Hydroponics with the able guidance of my professors right from my Freshman year.

S. B. Sangeethan (VTU 8829)

I aspire to become a Bio-Entrepreneur

My project SWACHH SHOWCHALAY - an eco friendly bio toilet for sustainable implementation in railway coaches has been presented under NIDHI PRAYAS Scheme through the Vel Tech TBI.



Kajal Singh (VTU 10567)

PROGRAMME OFFERED

UG Programme

B.Tech. Biomedical Engineering



Department of Biomedical Engineering

Biomedical Engineering is a fascinating and emerging multidisciplinary STEM field that applies the principle of computer/electronics/mechanical engineering and material science in health sciences to help doctors and physicians in their healthcare practices. The department prepares the students to face real life problems by providing internship and industry courses supplementing classroom instructions and lab practices

Core courses:

Anatomy and Physiology, Basic Sciences, Electron Devices and Circuits, Computing Techniques, Biochemistry, Operational Amplifiers and Analog Integrated circuits, Biomedical Instrumentation, Bio Mechanics, Diagnostic and Therapeutic instruments, Biomedical signal processing and Biomedical Informatics.

Laboratory Facilities

- Brain Computer Interface Laboratory based on Open BCI products.
- Signal processing laboratory based on Texas Instruments products.
- Insight Segmentation and Registration open source tool laboratory for cancer treatment.



SPO2 measurement (finger tip instrument)
Students get equipped to address biomedical challenges in the industries.

ECG Measurement
The students are given practical application of signal processing concepts in analyzing bio-signals.



Blood group identification
Practicing simple blood grouping tests, prepares the students for designing future sophisticated products and automations using body sensors.





Experimental learning has given me the confidence to operate Modern computerized and sophisticated health care systems.

Sneha, III Year

"Inquiry-based learning, enables me to learn beyond theory and apply it in my projects. "



Azarudeen Ansari, III Year

School of Electrical and Communication

Prof. Dr. Tharek Bin Abd. Rahman
Universiti Teknologi Malaysia (UTM), Malaysia

Course:
4G and 5G Mobile Communications



Prof. Dr. Chua Chin Wang
National Sun Yat Sen University, Taiwan

Course:
Integrated Circuit Design using CMOS Technology



Prof. Dr. Richard Tymerski
Portland State University, USA

Course:
Classical Control Systems



GLIMPSES OF SHORT COURSES BY INTERNATIONAL FACULTY



Prof. Dr. Robert Scholl
Hochschule Bonn-Rhein-Sieg, Germany

Course:
Optoelectronics, Lasers and Displays



Prof. Dr. Israel Koren
University of Massachusetts, Amherst, USA.

Course:
Fault Tolerant Computing



Prof. Dr. Chen-Kuei Chung
National Cheng Kung University, Taiwan

Course:
Basics of MEMS and Applied Cases

School of
Electrical and Communication

Prof. Dr.-Ing. Gunter Keller
Deggendorf Institute of Technology, Germany

Course:
Switched Mode Power Supplies



Prof. Dr. Shubiao Wu,
Aarhus University, Denmark

Course:
Bioremediation and Biowaste Management



Prof. Dr. Arvind Chandrasekaran
North Carolina A& T State University, USA

Course:
Fundamentals of BioMEMS and Microfluidics



GLIMPSES OF SHORT COURSES BY INTERNATIONAL FACULTY



Prof. Dr. Saad Mekhilef
University of Malaya, Malaysia

Course:
Power Electronics Applications



Prof. Dr. Michael Motelica Heino
University of Orleans, France

Course:
Environmental Biogeochemistry & Remediation of Contaminated Soils

School of Electrical and Communication

Mr. Saurabh Mandal
Scientist E, CAIR DRDO, Bangalore

Course:
Software Defined Networking



Mrs. Yavanarani
Scientist D,Combat Vehicles Research and Development Establishment (CVRDE)- DRDO

Course:
Digital Image Processing using LABVIEW



Mr. K. Vijay Kumar Gupta
Managing Director, Kwality Photonics Ltd.

Course:
LED Lighting Technology



Mr. R. Baskaran
Chief Signal and Telecom Engineer
Southern Railways

Course:
Railway Telecommunication



Dr. Hrishikesh Venkataraman
Associate Professor, IIIT - Sricity

Course:
Multihop in 5G Wireless Communication Systems



GLIMPSES OF SHORT COURSES BY INDUSTRY PROFESSIONALS



Mr. B. Balaji
Senior Manager
Ashok Leyland Ltd.

Course:
Current trends in Communication and Diagnostics in Automotive



Mr. Tata Sudhakar
Scientist 'F' & Head Ocean Electronics Group,
National Institute of Ocean Technology.

Course:
Introduction to Ocean Technology



Dr. P. Kanagavel
Director – Technical Training
National Institute of Wind Energy.

Course:
Solar and Wind Power



Ms. L. S. Sindhu
Project Leader, e-Mobility and Navigation,
Mahindra Research Valley
Bengaluru

Course:
Electric Vehicles



T. Anantha Velavan
Principal Engineer - Validation.
Microchip Technology, Bangalore.

Course:
DSP Processor Hands-on


IEICOS DI
POWER
VTU/01/1801/37



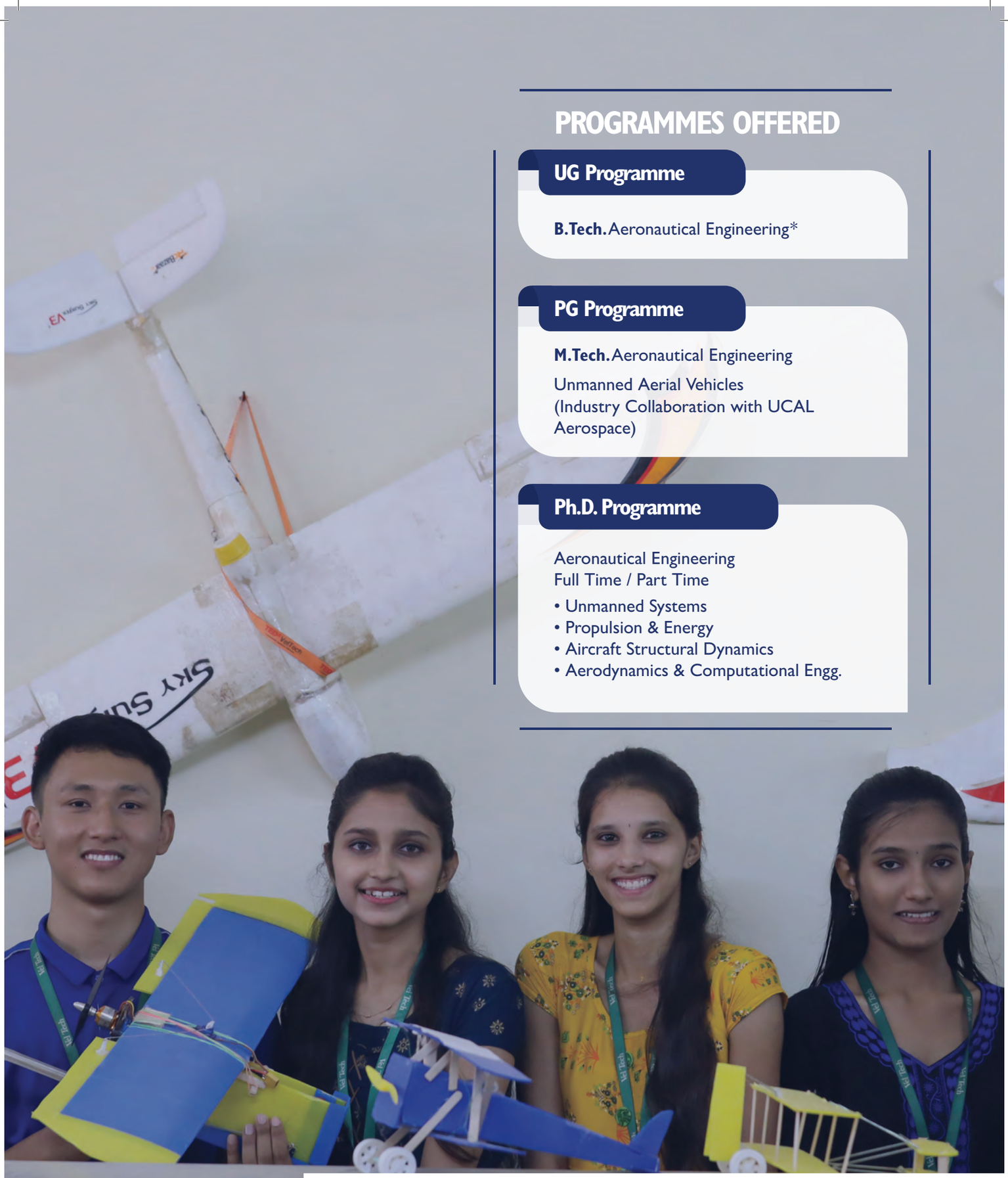
School of Mechanical and Construction

The School comprises of

1. Department of Aeronautical Engineering
2. Department of Automobile Engineering
3. Department of Civil Engineering
4. Department of Mechanical Engineering

The School concentrates on educating students in all aspects of Mechanical and Construction Engineering including Design, Manufacturing, Automation, Aero Dynamics, Vehicle Dynamics, Construction, Computer Aided Design, etc., required for understanding the fundamentals of their domain.

The programmes offered by the School prepares the students to be solution seekers and contribute to the varied range of Industries and Markets. Students of the School consistently participate and win awards in International Events. Students & Faculty work on cutting edge projects in MBDA Missile System, DST, DRDO, ISRO, Bosch etc.,



PROGRAMMES OFFERED

UG Programme

B.Tech. Aeronautical Engineering*

PG Programme

M.Tech. Aeronautical Engineering

Unmanned Aerial Vehicles
(Industry Collaboration with UCAL Aerospace)

Ph.D. Programme

Aeronautical Engineering
Full Time / Part Time

- Unmanned Systems
- Propulsion & Energy
- Aircraft Structural Dynamics
- Aerodynamics & Computational Engg.

Department of
Aeronautical Engineering

Aeronautical Engineering is a challenging, interdisciplinary and futuristic field. The department is passionate for the technology involved in mission of air and space vehicles. Ongoing projects, CDIO-curriculum methodology in state-of-the-art facilities and collaborative environment through Industry – higher Institute enables the faculty members and students to pioneer in Aeronautical Engineering & Technology.

* India`s First NBA (Washington Accord) Accredited B.Tech – Aeronautical Engineering programme under Tier – I category.

Department Highlights

- Established National Eminence Facility on "Gas Turbine Engine Bearing Test Facility" funded by GTRE, DRDO.
- Ongoing projects on Autonomous Drones via Indo-Korea Joint R&D, Customized UAV development for drone Industries and consultancy projects on energy sector enables real time experience to the students.
- Collaborative R&D with HAL, GTRE and GE paved the way to faculty and students to accumulate real-time technology development in Aviation, Defence and Space Technology.
- Established Flight Lab for dedicated UAV design, prototyping and testing facility which enables the students to experience dynamic technological environment.

Low speed wind tunnel facility: students are testing the electric propulsion system to estimate performance of propeller for various flight velocities.



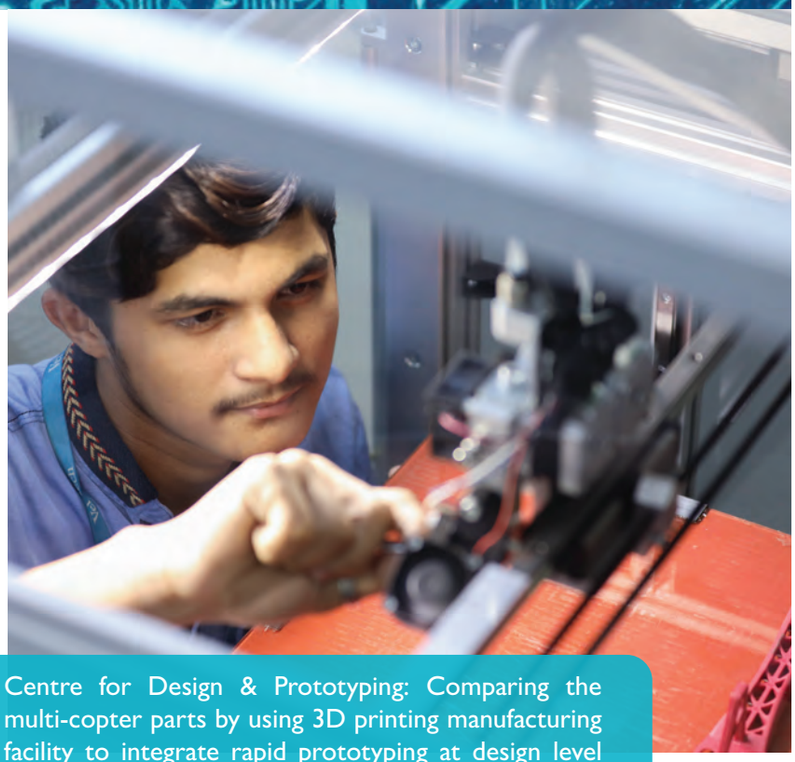


Students developed Hybrid UAV for surveillance and participated along with leading UAV Industries, IITs and NITs in Drone Olympics – Aero India 2019, Ministry of Defence.

The vehicle secured 2nd Position and appreciated by Hon. Defence Minister.

Innovation in Education

- Aerodynamics, Propulsion, Structures, Flight Mechanics and Control are the core courses pertaining to major domains of Aeronautical Engineering. The fundamentals and advanced topics were integrated with practical knowledge by adopting project / product based learning through CDIO approach.
- Conventional laboratories are upgraded to offer unique skill based courses on UAV design, Wind Turbine, Autopilot Design, Structural Health Monitoring and Aerial Photography to introduce real time advancements in Aerospace society.
- The curriculum allows students to earn credits through publishing quality scientific articles, online courses, industry / abroad faculty crash courses on recent advancements and industry training.



Centre for Design & Prototyping: Comparing the multi-copter parts by using 3D printing manufacturing facility to integrate rapid prototyping at design level problems.

Student Forums

- SEDS – Vel Tech chapter is a student-run forum (supported by MIT, USA) to disseminate Autonomous technology and space technology among students. The activities include internship colloquiums, Research talks, company visits, Technical events, and project contest.
- Aviator Club - organized by the Flight Lab to train the students to design, manufacturing and testing of UAVs, it also facilitates to explore National and International flagship events like Aero India – Drone Olympus and SAE Aero India.

International Internships / Projects

Hamburg University of Applied Sciences, Germany

Institut National des Sciences Appliquées (INSA), France

Fraunhofer Institute of Non-Destructive Testing (IZFP), Germany

Moscow Aviation Institute (MAI), Russia

Nanyang Technological University (NTU), Singapore

National Cheng Kung University (NCKU), Taiwan

National Formosa University (NFU), Taiwan

Tamkang University, Taiwan

Polytech Orleans, France





Industry live consultancy project: Students are testing prototype vehicle for estimating flight parameters.

Placement

Department focuses on placement, higher studies and entrepreneurship opportunity through offering 9 months exclusive internship / training to students through Industry & International relations and TBI.

- Students are employed in leading aerospace sectors like HAL, Quest Global, Boeing and Airbus.
- Projects and Internships undertaken under the Semester Abroad programmes pave the way for Students to explore global opportunity and pursue Higher education at various International Institutions.
- Excellent records on successful entrepreneurs via TBI, funded by Government of India. This provides start-up opportunities to the students.



The great experience with faculty members. Knowledge gained from the courses, practical knowledge from projects shaped my personality and provided the platform for my carrer.

Thaiba Nazreen, 2019
Valued Epistemics



I received Vel Tech Mahatma Gandhi National Merit Scholarship for my UG programme. My college life was more than a learning experience for me, it imbibed in Traits which lead me in a way beyond my expectations. I could not only score 9.2 CGPA, also serve as Lieutenant at Indian Navy.

Ashish Rohilla, 2019
Lieutenant Indian Navy

Department of Automobile Engineering

PROGRAMMES OFFERED

UG Programme

B.Tech. Automobile Engineering*

PG Programme

M.Tech. Automobile Engineering
with specialization in Electric and Hybrid Vehicles/Powertrain Engineering
- in collaboration with ARAI, Pune

Ph.D. Programme

Automobile Engineering
Full Time / Part Time

- Internal combustion engines
- Sustainable energy
- Automotive pollution and control
- Automotive transmission



The undergraduate programme on Automobile Engineering emphasises on the design, development, manufacturing, testing and operation of automotive vehicles from road and off-road vehicles to race cars. The programme curriculum has been developed with the active participation of both academic and Industry experts, which provides the students a passion for motor vehicles. The programme covers all aspects of automotive development and manufacturing starting from body and chassis design to materials, manufacturing and its performance.

* Accredited by NBA under Tier - I (Washington Accord) category.

Electric Mini Scooter: The light weight, low cost and foldable electric scooter project developed by our students under the category of micro mobility with speed range of under 50 kmph. The prime focus on portability and the ergonomics and it will much efficient where traffic congestion and requirement of local commute to work and school.



Core Courses:

Engineering Mechanics, Basic Engineering Thermodynamics, Mechanics of Machines, I.C Engines, Automotive Transmissions, Vehicle Dynamics, Fluid Mechanics and Machinery, Automotive Chassis, Vehicle Design and Data Characteristics, Engine design and development, etc.

Specialized Elective Courses

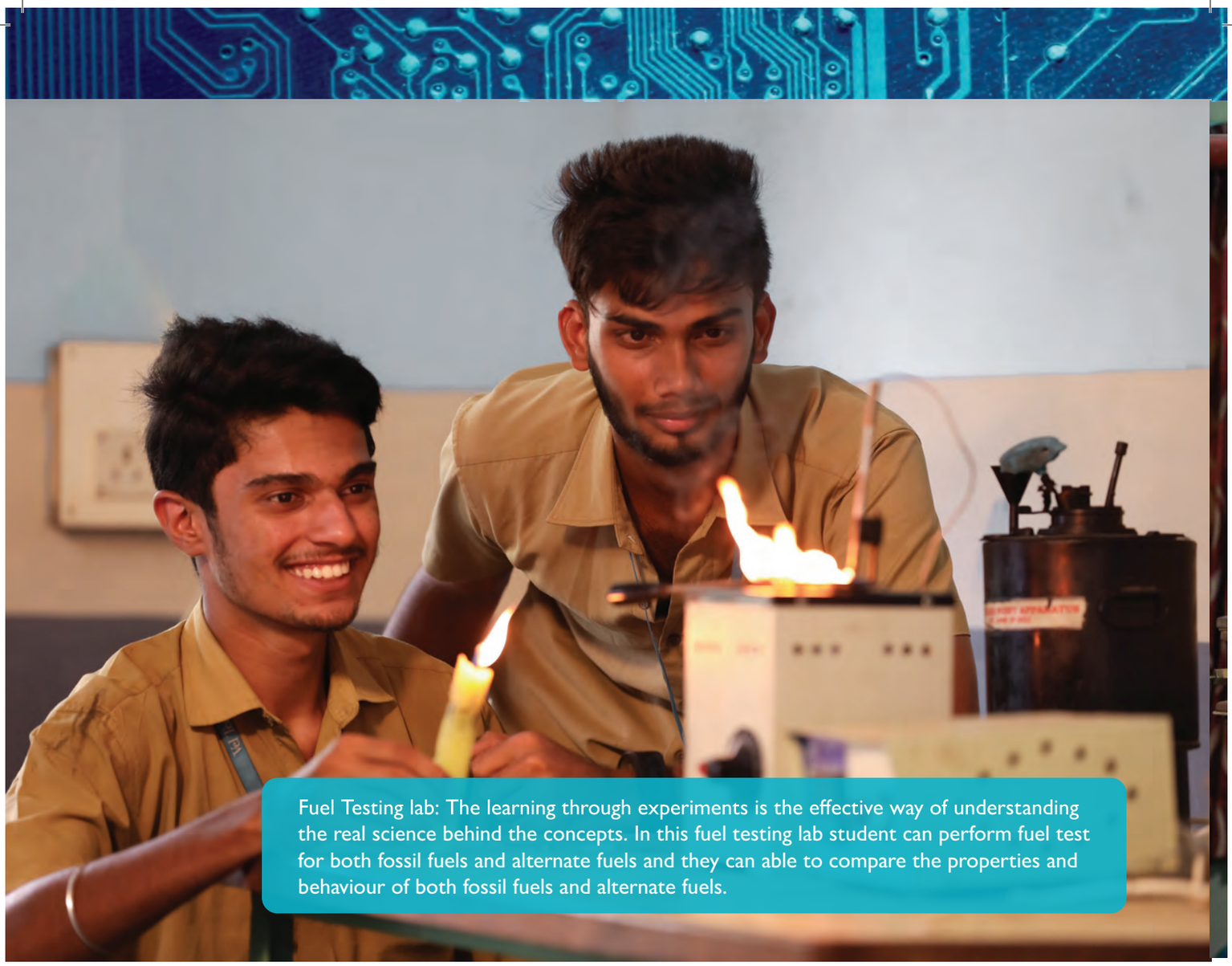
Electric Two Wheeler Technology, Engine Electronics and Management System, Hydrogen Engines, Automotive Safety, Engine Testing and Certification, Micro Electro Mechanical Systems.

Laboratory Facilities

- Automotive Engine Testing Laboratory established with the support of ARAI, TAFE, Ashok Leyland and Greaves Cotton.
- WABCO Centre of Excellence in Automotive Brake System
- Engine Simulation Lab
- Fuel Testing Lab
- Automotive Chassis lab



Formula style vehicle developed by our students under the electric category, with 5kw liquid cooled motor and 48v lithium ion battery. The vehicle speed range of 94 kmph.The prime focus on reduced the weight of the vehicle and increased the performance of vehicle. Our students developed customized design of car, suspension, disc and steering system. This vehicle is designed to participate in the KASA car competition South Korea 2019 under Electric Formula style category.



Fuel Testing lab: The learning through experiments is the effective way of understanding the real science behind the concepts. In this fuel testing lab student can perform fuel test for both fossil fuels and alternate fuels and they can able to compare the properties and behaviour of both fossil fuels and alternate fuels.

International Internships / Projects

Our students do internship and projects in reputed Institutions / Industries like

Technical University of Braunschweig (TUB), Germany

Institut National des Sciences Appliquées (INSA), France

Fraunhofer Institute of Non-Destructive Testing (IZFP), Germany

Polytech Orleans, France

National University of Tainan, Taiwan

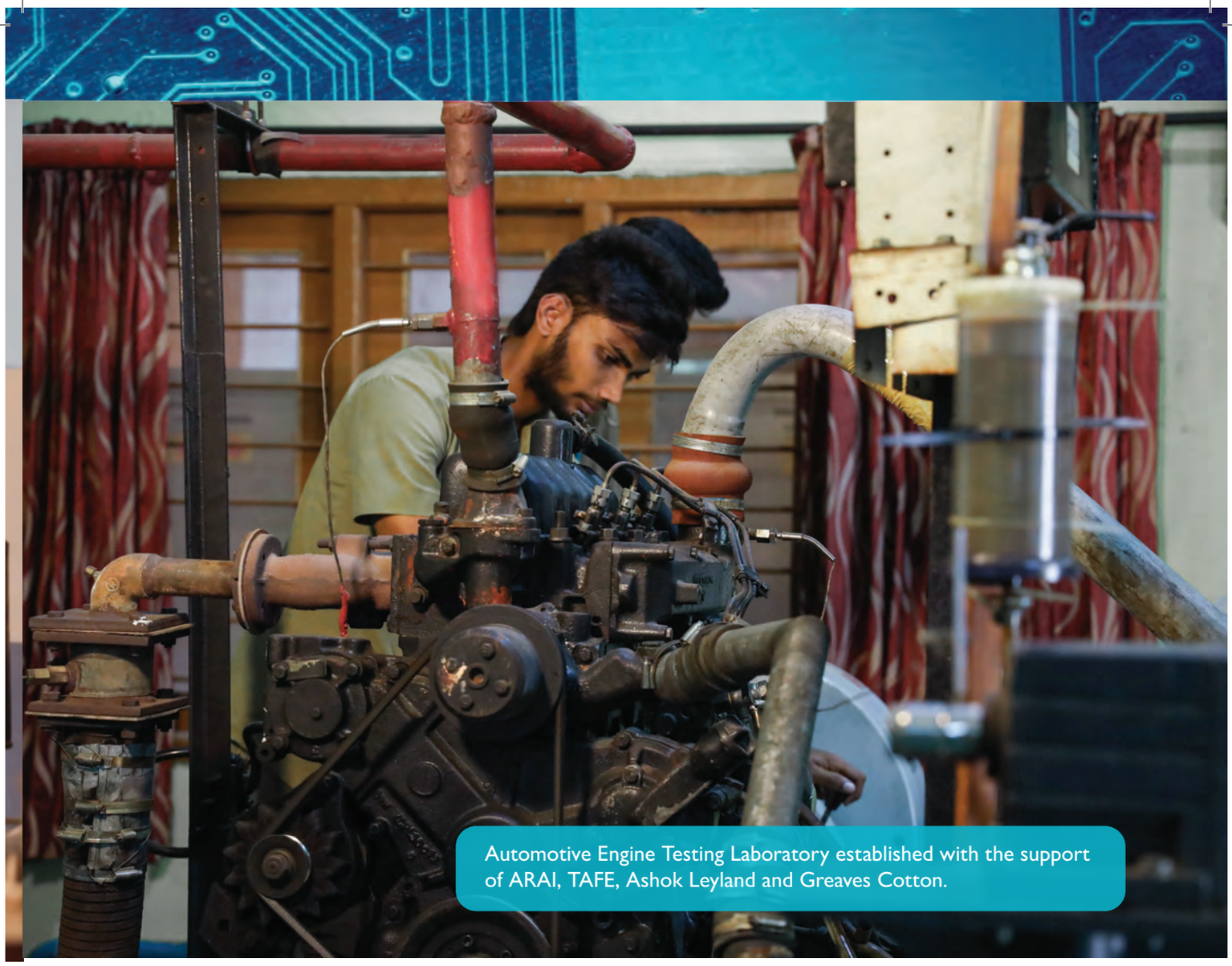
Global Automotive Research Centre (GARC)

Ashok Leyland

Greaves Cotton

Deccan Auto

SSS Auto Suspension



Automotive Engine Testing Laboratory established with the support of ARAI, TAFE, Ashok Leyland and Greaves Cotton.

Placement

Students are placed in reputed automotive Industries like Rolls Royce, Volvo, Mercedes Benz, AMW, Cummins, ARAI, ISUZU, RICARDO, TVS, Mahindra & Mahindra, TATA Motors, etc.

Students Achievements

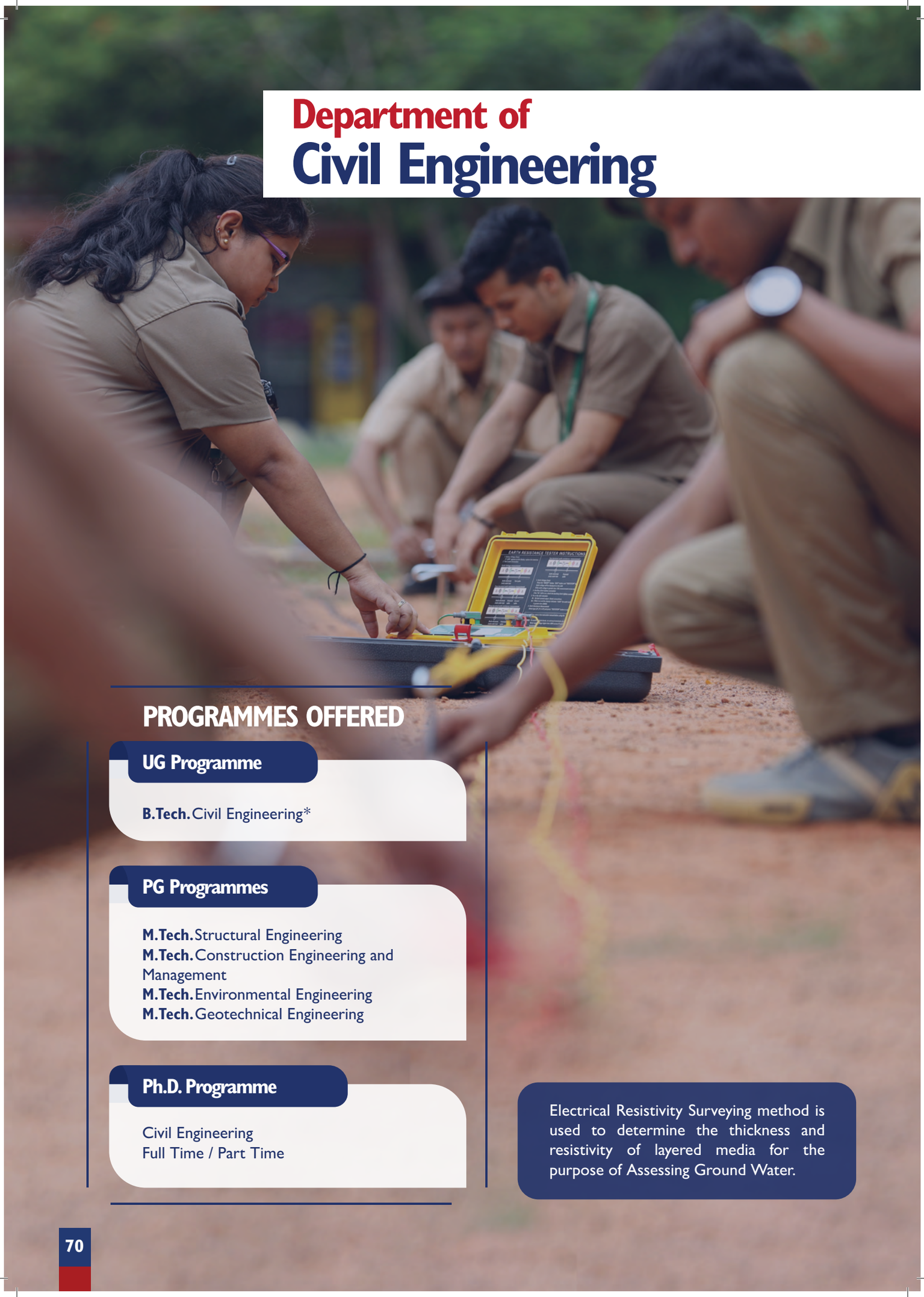
- The Department encourages the students to take part in various competitions like International Students Car Competitions held in South Korea - SAE-SUPRA, SAE-BAJA, e-BAJA, SAE- e-BIKE, etc.,
- Students regularly win various awards and prizes in the competitions like "Best of Best Creative Technology Award", "Best Driver Award" and "Best Cross Pad Award" and "Best Suspension and Traction Award"

"Quality of automotive education is good at Vel Tech. The motivation, skill development and academics enabled me to successfully complete my Semester Abroad Program at R&D department of Polytech Orleans, France with stipend."



Vikash

Department of
Civil Engineering



PROGRAMMES OFFERED

UG Programme

B.Tech. Civil Engineering*

PG Programmes

M.Tech. Structural Engineering
M.Tech. Construction Engineering and Management
M.Tech. Environmental Engineering
M.Tech. Geotechnical Engineering

Ph.D. Programme

Civil Engineering
Full Time / Part Time

Electrical Resistivity Surveying method is used to determine the thickness and resistivity of layered media for the purpose of Assessing Ground Water.

Civil Engineering discipline deals with the plan, design, construction, and maintenance of the various built environment, including public works such as roads, bridges, canals, dams, sewerage systems, pipelines, structural components of buildings, railways and airports.

* Accredited by NBA under Tier - I (Washington Accord) category.

Core Courses: Engineering Mechanics, Structural Analysis, Design of RC Elements, Design of Steel Structures, Geotechnical Engineering, Environmental Engineering, etc.

Conventional Courses: Green Energy Concepts, Energy Recovery from Waste, Solid Waste Management, Pre stressed and Prefabricated Structures, Geo-Environmental Engineering, Computer Applications in Construction Engineering and Planning, Urban Transportation Policy and Planning for Sustainable Development, etc.

Special Elective Courses: Industrial Structures, Off-Shore Structures, Earthquake Resistant Design of Structures, Bridge Structures, Soil-Structure Interaction, Highway Engineering Laboratory, E-Waste Management, Air Pollution Monitoring and Control, etc.

Laboratory Facilities

- Advanced Structural Engineering
- Concrete Technology
- Geotechnical Engineering
- Environmental Engineering
- Environmental Microbiology

Computing and Modelling Facilities

- Advanced software packages namely ANSYS, STAAD Pro, Primavera, etc.

Ductility of various materials are determined using Ductility Test Apparatus.





Accurate distance measurement between two inaccessible points is a tedious work. With the help of Total Station and Theodolite, distance between the two inaccessible points, horizontal and vertical angles are being determined. These works are being used in day-to-day land surveying and Engineering Industries.

Department Highlights

- Department thrives hard to disseminate the latest technology in Green Building, Smart Materials, Smart Cities, Earthquake Resistant Design, etc.
- Highly qualified and experienced faculty members from premier Institutions.
- Faculty members and students possess membership in various International / National professional societies.
- Few faculty members and students have patents to their credit.
- The students are trained with field experience in the construction of different type of structures which makes them to become entrepreneurs rather than job seekers.
- International collaboration with many Foreign Universities for faculty / Student Exchange Programme.
- Student chapter of various professional societies such as ICI, ISTE, etc.



Rebound Hammer, a NDT tool is used to test the compressive strength and the integrity of concrete.

Funded Research and Consultancy

Premier funding agencies such as DST, Government of India and DRDO have identified the Civil Engineering department for performing advanced research. Two such projects are:

1. Structural Health Monitoring of Long span Railway Bridges and Heritage Structures in collaboration with University of Victoria, Canada – funded by DST, New Delhi.

2. Development of Fibre Reinforced Aerated Concrete with Epoxy Coating for Structural Panel Application funded by DRDO.

In addition, the department provides consultancy services to Chennai Metro, All India Radio and other public and private agencies in various thrust areas.

International Internships / Projects

- Students received recognition and fund from TNSCST.
- Project with internship in reputed Foreign Universities like:

National Chiao Tung University (NCTU), Taiwan

National Chung Hsing University, Taiwan

Universiti Sains Malaysia (USM), Malaysia

Polytech Orleans, France

Universiti Teknologi, Malaysia

Universiti Teknologi Mara (UiTM), Malaysia

Tamkang University, Taiwan



Tests are being carried out to determine the maximum load carrying capacity and its deflection of various Structural elements using Loading Frame of 200T capacity.

Placements

- Many students are placed in various MNCs like L&T, Hochtief, Capgemini, Sobha Developers, Besten Engineers & Consultants, etc.
- Few of our students are entrepreneurs and recruited students for their firm.
- Many students have completed their Master's degree at various Institutions like IIT, NIT and in other Foreign Universities.



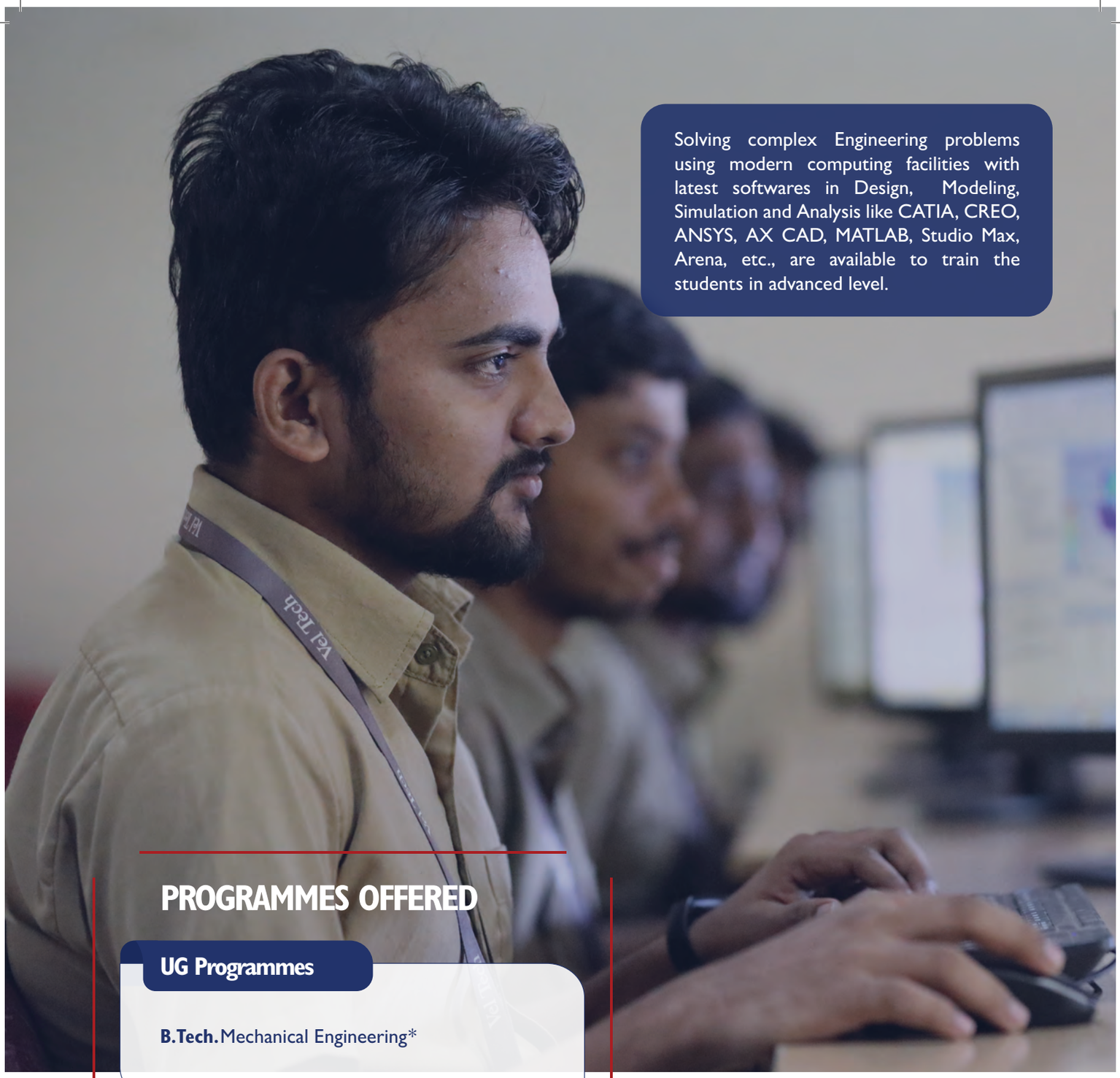
"Vel Tech has helped us to acquire the practical knowledge and guided us to become an entrepreneurs."

Mr. Sathyan and Mr. Sathiyendran (2017 Batch), started own firm named "Madarasi Constructions" at Chennai.



"My dream came true, I cleared GATE exam and entered into IIT, Kanpur. I thank my department, for helping me to understand the concepts"

Mr. Sampad Sarkar (2018 Batch) pursuing Master degree in IIT – Kanpur.



Solving complex Engineering problems using modern computing facilities with latest softwares in Design, Modeling, Simulation and Analysis like CATIA, CREO, ANSYS, AX CAD, MATLAB, Studio Max, Arena, etc., are available to train the students in advanced level.

PROGRAMMES OFFERED

UG Programmes

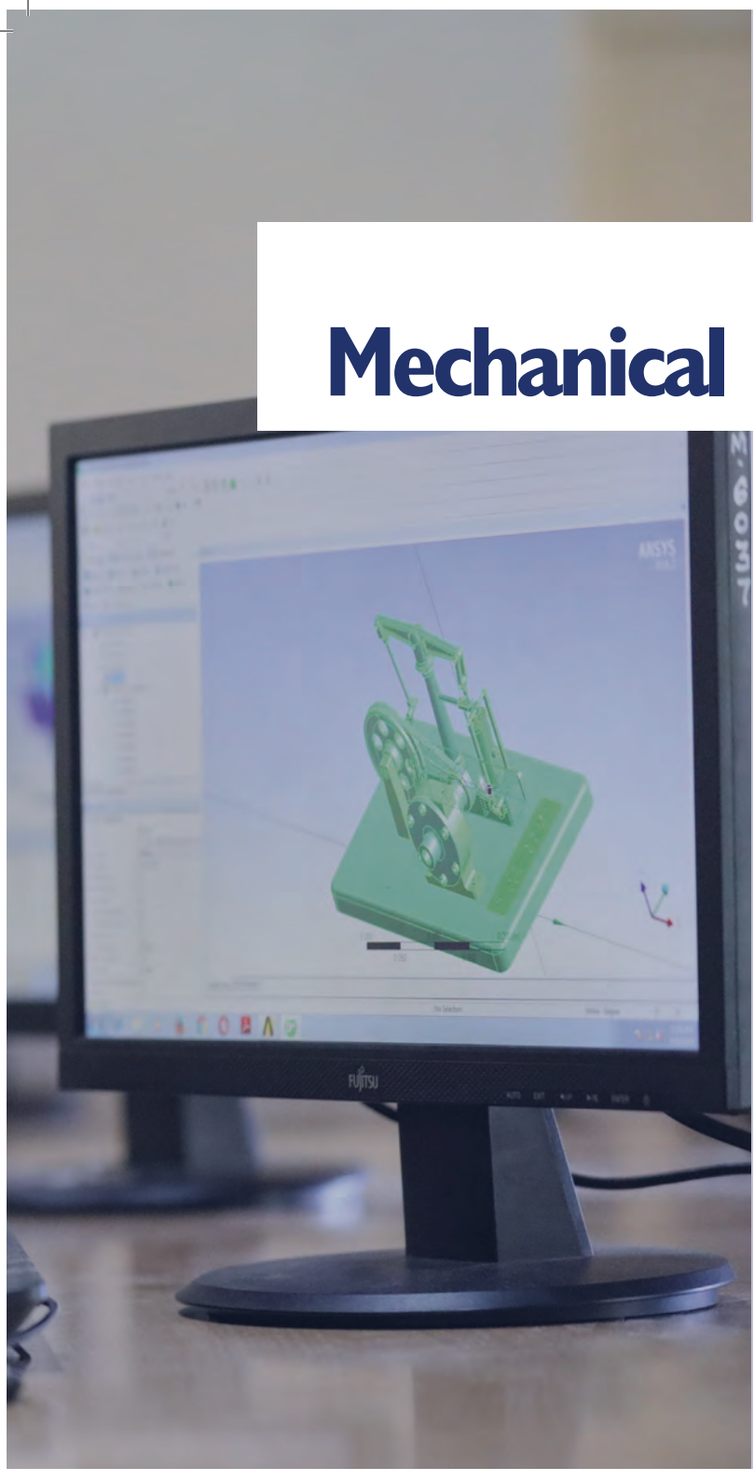
B.Tech. Mechanical Engineering*

PG Programmes

M.Tech. CAD/CAM
M.Tech. Industrial Safety and Engineering
M.Tech. Industrial Engineering
M.Tech. Machine Design
M.Tech. Metallurgical and Material Science Engineering
M.Tech. Thermal Engineering

Ph.D. Programme

Mechanical Engineering
Full Time / Part Time
- Design
- Manufacturing
- Materials
- Thermal Engineering domains



Department of Mechanical Engineering

Making a gear using Gear Hobbing Machine



Gaining research based knowledge to interpret the data for validating the efficiency of the Boiler at Thermal Lab



Mechanical Engineering programme articulates modern analytical, computational, simulation tools and techniques on engineering materials, thermal sciences, applied mechanics, design and manufacturing methods to address the global challenges faced in mechanical and allied engineering streams.

* Accredited by NBA under Tier - I (Washington Accord) category.

Core Courses:

Engineering Mechanics, Kinematics of Machinery, Dynamics of Machinery, Manufacturing Technology, Machining and Machine Tool Technology, Fluid Mechanics and Machinery, Applied Engineering Thermodynamics, Heat and Mass Transfer, Engineering Materials and Metallurgy.

Special Elective Courses

Design of Rotodynamic Pumps, Jigs and Fixture, Advanced Manufacturing Processes, Advanced Metal Forming Processes, Computational Fluid Dynamics, Advanced Thermodynamics, Thermal Energy Storage System, Smart Materials in Mechanical Applications.

• Courses are continuously updated and new courses are added based on the needs of the Industries

Core Laboratories

The Department is equipped with more than 20 laboratories like, Strength of Materials Lab, Dynamics of Machinery Lab, Thermal Engineering Lab, Advanced Manufacturing Technology Lab, Design Engineering and Manufacturing Lab, FEA Lab, Computer Aided and Simulation Analysis Lab, Industrial Management Lab, Industrial Safety and Environment Lab, etc., with the state of art equipment software like 3D Printers, and Scanners, 6 axis CNC Machining Centre, CMM, 6 axis Robot, etc., and software like CATIA, ANSYS, CREO, NX CAD, etc.,



Professional engagement of Students in Robot Programming for process automation

Research Laboratories

Centre for Autonomous Systems Research, Composites Research Centre, Metallurgical and Materials Engineering Lab, WABCO Centre of Excellence, Metal Forming Laboratory, Centre for Computational Fluid Flow Modelling and Analysis Lab, Centre for Thermal Studies, etc., established with the support of various Govt. & Private agencies like DRDO, DST, ARAI, WABCO etc.,

Department Highlights

• About 30% of faculty members are with doctoral qualification from eminent Institutions like IIT, IISC, Bangalore, NITS, Deakin University, Melbourne Australia, Hiroshima University, Japan etc., and post-doctoral degrees from Institutions such as IISC Bangalore, Concordia University - Canada, University of Tennessee – USA, etc
• Department has received Rs. 250.68 Lakhs from the Government funding agencies such as Aeronautics R&D Board, DRDO and DST towards R&D projects during the last three years.
• Faculty members have published more than 460 research papers in Internationally reputed Journals.
• Filed Eight (8) patents during the last three years.

Internship at Industry

Students are provided with 6 month/ 9 month internship in reputed industries like

TVS Brakes India	TAFE	Vishakapatnam Steel	WABCO India Ltd.	Meritor HVS India Ltd.	Sundaram Clayton	Wheels India Ltd.

International Internships / Projects

Provides opportunity for the students to undergo their Semester Abroad in International Research organization like Fraunhofer, Germany and International Universities like:



Training of students in Modern Machine Tools like 6 Axes Machining Centre is part of the Curriculum. As a part of curriculum, hands on Training experienced on 6 Axes Machining Centre .

National University of Singapore (NUS), Singapore

Nanyang Technological University (NTU), Singapore

Fraunhofer Institute of Non-Destructive Testing (IZFP), Germany

Fraunhofer Institute for Material and Beam Technology (IWS), Germany

Institut National des Sciences Appliquées (INSA), France

Moscow Aviation Institute, Russia

Polytech Orleans, France

Kumamoto University, Japan

Saarland University, Germany

National Cheng Kung University (NCKU), Taiwan

Hochschule Bremerhaven University of Applied Sciences, Germany

Changsha University of Science & Technology, China

National Chung Cheng University (CCU), Taiwan

Leibniz Universität Hannover, Germany

National Chung Hsing University (NCHU), Taiwan

National Formosa University, Taiwan

National Taipei University of Technology, Taiwan

Southern Taiwan University of Science & Technology, Taiwan

Tamkang University, Taiwan

National Taiwan University

National United University, Taiwan

Universiti of Kualalumpur, Malaysia

National Yunlin University of Science and Technology, Taiwan

Placement

Department prepares the students for their placement from II Year onwards, which helps the eligible student to get placed in reputed companies such as Quest Global, WABCO, Hyundai Motors, Tata Motors, Tech Mahindra, Ashok Leyland, Wipro, Accenture, etc.,



"I am Placed with Accenture, I'm so excited and I'm looking forward to my first Job. My sincere appreciations and gratitude to the Training and Placement Department especially for guidance given to me. "

Nishant Kumar Nath
(2016-20 Batch)

"Hats off to Vel Tech, for project abroad opportunities. I thank my Department for convening technical discussions with foreign professors which helps me to excel."



Diva Sharma (2016-20 Batch)
Perusing Capstone project
at Moscow Aviation Institute, Russia

School of Mechanical and Construction

Prof. Dr.-Ing . Andreas Gebhardt
FH Aachen University of Applied Sciences, Germany

Course:
Industry 4.0 and Digital Production



Prof. Dr. Lung- Jieh Yang
Tamkang University, Taiwan

Course:
Introduction to MEMS & Fundamentals of Sensors and Actuators



Prof. Dr.-Ing. Elena Lopez
Fraunhofer Institute for Material and Beam Technology (IWS), Germany

Course:
Advanced Materials and their Application in Rapid Manufacturing and Tooling



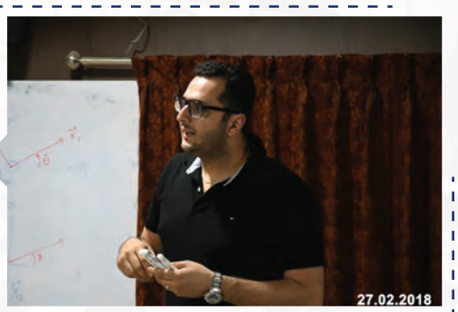
Prof. Dr. Meor Othman Hamzah
University Sains Malaysia(USM), Malaysia

Course:
Highway Geometric Design



Prof. Dr. Thomas Sayet
University of Orleans, France

Course:
Solid Mechanics: Rigid Bodies & Analysis of Automotive components using Matlab



GLIMPSES OF SHORT COURSES BY INTERNATIONAL FACULTY



Prof. Dr. Shuichi TORII
Kumamoto University, Japan

Course:
Smart Materials for Mechanical Applications &
Thermal Energy Storage Systems



Prof. Dr.-Ing. Eckhardt Schneider
Saarland University, Germany

Course:
Non - Destructive Testing



Prof. Dr. Christine Mounaim Rousselle
University of Orleans, France

Course:
Combustion and Combustion for Internal
Combustion Engines



Prof. Dr. Fan Su- Ling
Tamkang University, Taiwan

Course:
Construction Planning & Scheduling

School of Mechanical and Construction

Mr. V. P. Balaji
Senior Manager R&D
WABCO India Limited, Chennai

Course:
Industrial Application of Welding



Dr. N. Saravanan
Senior Manager R&D
Mahindra and Mahindra
Chengalpattu

Course:
Alternate Fuels and Engine



Mr. M. Senthil Kumar
Deputy General Manager
WABCO India Limited, Chennai

Course:
Problem solving using Shainin Technique



GLIMPSES OF SHORT COURSES BY INDUSTRY PROFESSIONALS



Mr. K. S.Tejaswi
Manager – Program Management
Product Development, Automotive Division
Mahindra Research Valley, Chengalpattu

Course:
New Product Development



Mr. R. Shankar
Divisional Manager
Electrical Vehicle Operations
Ashok Leyland, Chennai

Course:
Passenger Car Manufacturing



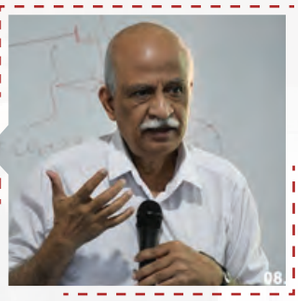
Mr. S. Veera Ragavan
Senior Manager (Retired)
Addison and Co Limited, Chennai

Course:
Cutting Tool Trend in Industrial Scenario

School of Mechanical and Construction

Dr. P. A. Lakshminarayanan
Technical Advisor and Head,
Simpson, Chennai

Course:
Design of Power Train Components of Diesel Engines



Mr. V. Ravindran
Principal Member – R&D, TAFE, Chennai

Course:
NVH, Engine Noise Control, Gear Noise and Vehicle NVH Approach



Mr. L. S. Kannan
Head - Concrete Management Department,
Buildings & Factories IC,
L &T Construction, Chennai

Course:
Concrete Technology



GLIMPSES OF SHORT COURSES BY INDUSTRY PROFESSIONALS



Mr. V. Umamaheshwaran
Manager - Concrete Management Department
Buildings & Factories IC,
L &T Construction, Chennai

Course:
Concrete Technology



Mr. R. V. Ramkumar
Scientist 'F' Center for Airborne Systems,
Defence Research & Development Organisation
(DRDO), Bangalore

Course:
Introduction to Aerospace Navigation



Mr. V. Sundararajan
Head – Aero Engine Technology,
HCL Technology

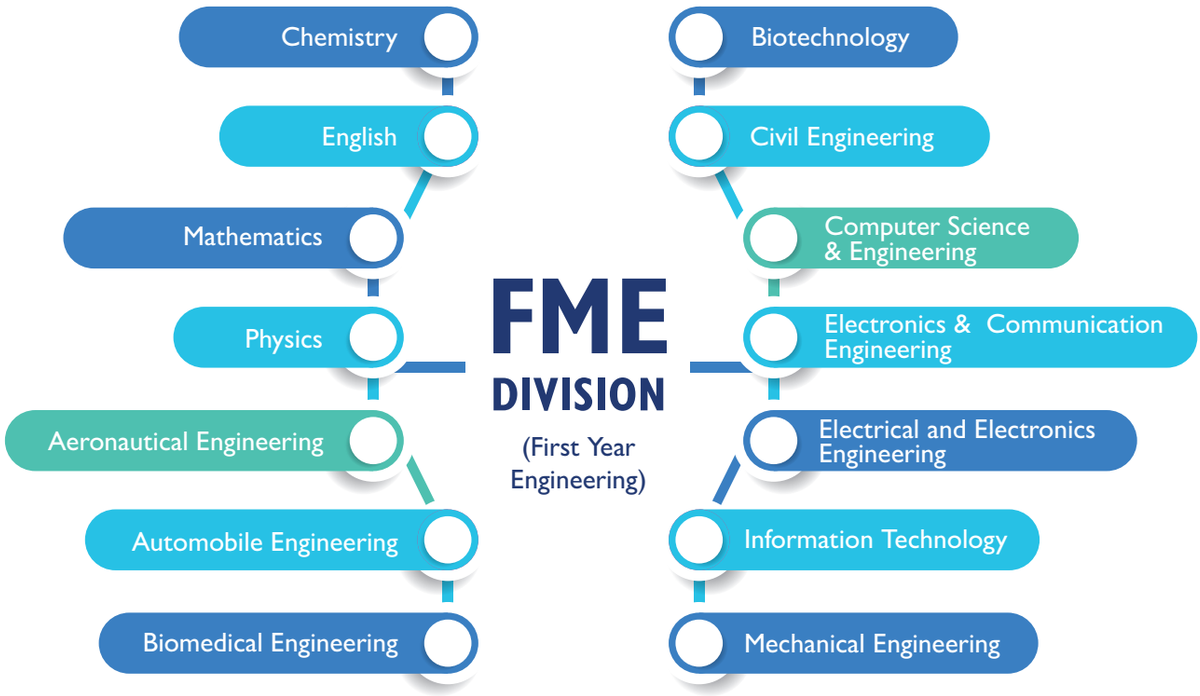
Course:
Aircraft Engine Design and Development –
An Overview



Freshman Engineering (FME)

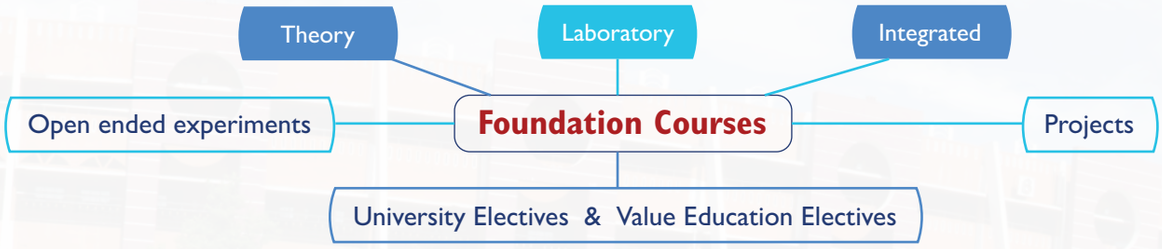
• **Admission:** 2400 students intake • **Faculty members:** 150+ • More than 90% of faculty with Ph.D • Most of the Faculty with International exposure • **Research Publications:** Around 300 research papers (per year) • ICT enabled classrooms • Engineering Hives • CDIO workspaces • Ragging free campus

FME is a separate division for the First-Year Engineering Students.



Foundation Course

Foundation Course modules are highly integrated in nature and have theoretical, Practical, experimental and project components which serve as pre-requisites to learn the advanced course modules in higher semesters. All the course modules primarily focus on engineering disciplinary knowledge and skills, personal, interpersonal and entrepreneurial skills. Faculty members follow a student-centered learning approach with innovative teaching methods.



Department Highlights

MATHEMATICS

- Hands-on practical sessions conducted using R language and MATLAB software for the integrated courses like Applied Statistics, Engineering Mathematics, and Numerical Methods, etc.,
- 20 supervisors to guide Ph.D. scholars in the areas like Queuing and Inventory models, Differential Equations, Fuzzy Graph theory, etc.,
- Dr. S. Udayabaskaran and Dr. E. Chandrasekaran are domain experts in the preparation of Mathematics textbooks for Tamil Nadu State Board Higher Secondary School Education.
- About 20 textbooks were authored by our faculty for Engineering Mathematics.

PHYSICS

- 100 percent of faculty members are Doctorates.
- Research publication in SCI-indexed journals only.
- More than 25 books published.
- Grown into an active centre of quality teaching throw ALM
- Open-ended experiments/projects to develop project-based education.
- Excellent teaching laboratory for the B.Tech and M.Sc students with advanced experiments
- Internship programmes provided to other college students.

ENGLISH

- Interactive language laboratory to enhance LSRW skills (i-Tell software)
- English courses aligned with CEFR (Common European Framework of Reference)
- Students Centred Teaching Learning practices (Fun with English, Bingo, Role-play, etc.)
- Elective courses to instil moral and ethical values (Public Speaking, Moral values of Thirukkural, Stress Management, etc.)
- Cambridge English Qualifications are offered by Cambridge Authorized Vel Tech Centre for English Proficiency. (Centre authorized by Cambridge Assessment English)

CHEMISTRY

- Open-ended Chemistry experiments focused on engineering applications.
- Theme based on everyday life Chemistry projects.
- Research projects worth more than 1.5 crores funded by DST-SERB, DST-GITA, UGC-DAE-CSR etc in the areas of Nuclear waste processing, Nano materials, water quality analysis catalysis, solar energy, etc.
- Learning centred approach followed through active learning methods like Jigsaw, One Minute Paper, Gallery Walk, etc.,

ENGINEERING

- FME SoC, SoEC, SoMC
- State-of-the-art Engineering Labs
- Introduction to Engineering (CDIO)
- Engineering fundamentals through ALM
- Sustainability theme-based projects
- Industrial problem solving
- Open-ended experiments for the real-life problem in practical course

The School of Science and Humanities comprises

Physics	Chemistry	Mathematics	English
M.Sc. Physics	M.Sc. Chemistry	M.Sc. Mathematics	M.A. English
Ph.D. in Physics	Ph.D. in Chemistry	Ph.D. in Mathematics	Ph.D. in English

Introduction to Engineering

It is a unique project based course which is specially designed to give hands-on experience to the Freshman Engineering students on the following themes:

1. Energy conservation
2. Environmental conservation
3. Public safety
4. Waste to health
5. Agriculture

cdio™ First Member from India





Innovative Teaching Methods (ALM)

Physics / Chemistry

Jig-Saw Method
Gallery Walk
Peer Instruction
Carousel Brainstorming

Mathematics

Problem solving using models
Question - Ball (Q-ball) Method
Involve and solve
Mollycoddle method
Fish Bowl

English

Bingo - Identifying
Role play
One minute paper
Word race
Read and run

FME Talent Search Forum (FME-TSF)

• FME-TSF is a platform for the Freshman Engineering students to showcase their talents in various co-curricular and extracurricular activities.
• To engage the students vibrantly, various physical/ mind boggling activities are conducted throughout the year.
• Prizes are distributed to the winners in the Vel Tech Science Fest (National Science Day) which is celebrated on 28th February every year in memory of Noble Laureate Sir C.V. Raman.

Science & Sustainability Wing

Paper Presentation
Technical Talk
Debate
Science Exhibition, etc.,

Literary & Life Skills Wing

Shipwreck
Test your IQ
Conclude with clues
Connections, etc.,

Sports & Games Wing

Cricket
Volleyball
Kabbadi
Football, etc.,

Cultural & Creative Arts Wing

Mime
Adzap
Singing & Dancing
Vegetable Carving, etc.,







Induction cum Acquaintance (IcA) Programme





• IcA programme is conducted for 21 days to all the Freshers every year before the commencement of the regular academic session.
• This programme helps the students to appreciate the significance of various Engineering activities and acquire personal and inter personal skills.
• The students get hands-on experience by doing innovative projects and learn to work in multicultural teams.

IcA programme includes:

Corporate Talk | Corporate Tour | My first project (CDIO) | Best of my school | Break and Make | Exploring smart conectivity | Build my vechicle | My first flight | Brick "O" Mania | Hands on PCB | Build my FM Radio | 3D Printing

Student Achievements

1st PRIZE - NIT JAMSHEDPUR
Drainage pipeline inspection and cleaning using Arduino and GPS module



1st Prize (Rs. 1,00,000)
BITS



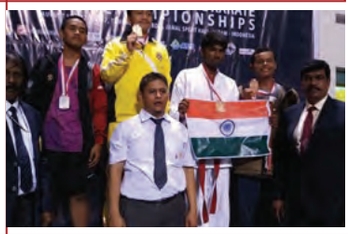
1st Prize (Rs. 14,000)
Mohanmantra



1st Prize (Rs. 5,000)
VIGNAN UNIVERSITY - AP



Mr. Kushit Kumar, **Bronze Medal, 3rd BKC Open,** International Karate Championship, Indonesia



Mr. R. Naveen Kumar, **GOLD MEDAL in Thai boxing Championship** - under 19 category. Bhutan



Vel Tech - SCIENCE FEST



VISAI - Vel Tech





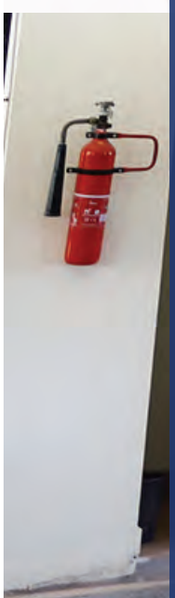
VEL TECH
TECHNOLOGY INCUBATOR
(APPROVED BY DST)

CERTIFICATE OF REGISTRATION OF SOCIETIES
S.No. 438 of 2010

A world class facility to help start-ups go global







Vel Tech Technology Business Incubator is an initiative supported by NSTEDB Division, Department of Science & Technology, Govt of India and its functioning in the campus since the year 2010. The whole initiative supports the early stage start-ups by providing incubation space, mentoring, networking & financial loan (Convertible debt) upto Rs.50.00 Lakhs through DST – SSS (Seed Support System).

Vision: To be a world class incubator and accelerator enabling creation of world class products and services.

Mission: To enable new job creators, innovations that scale with technology and a thriving entrepreneurship ecosystem working across various areas of opportunity.

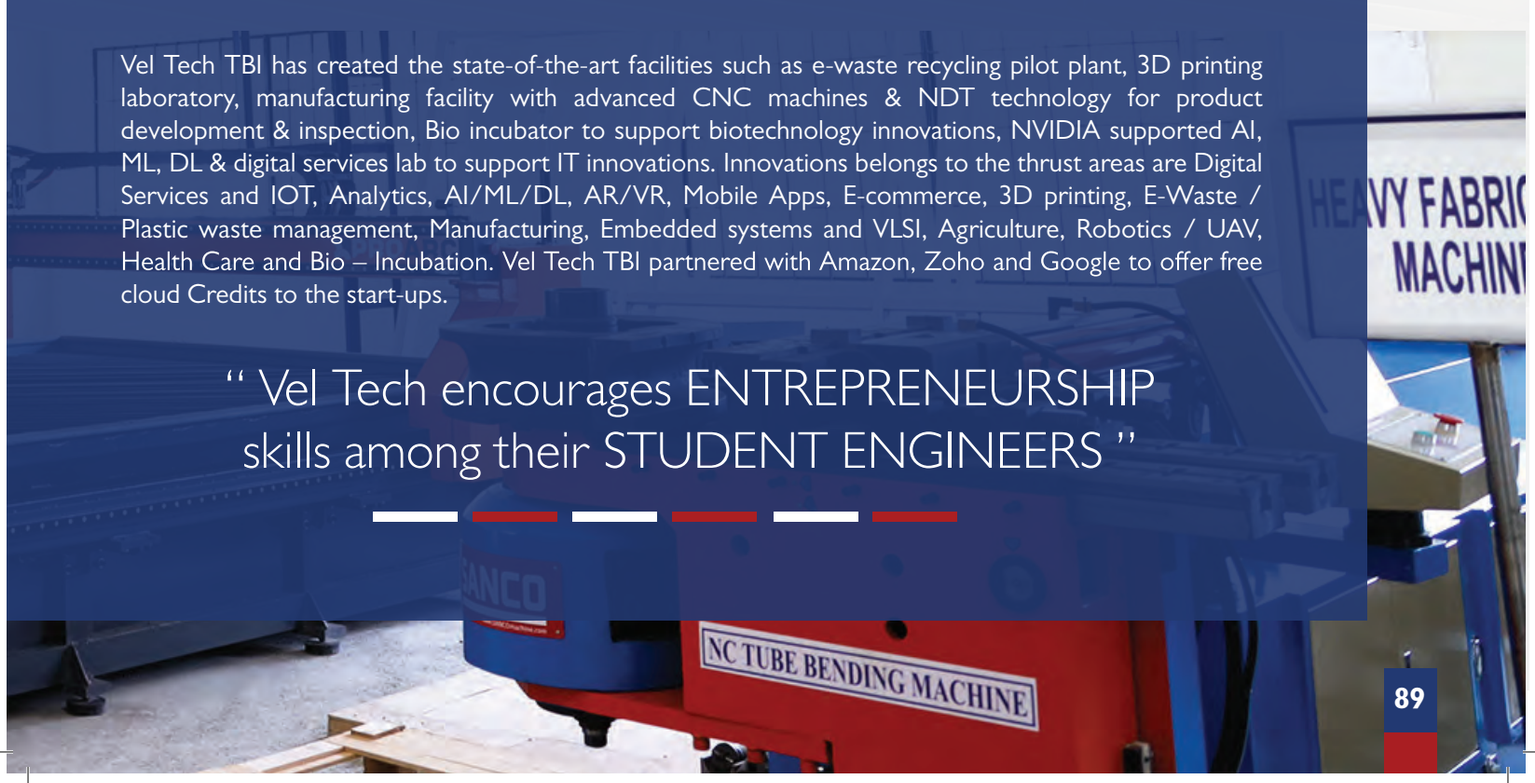
NIDHI PRAYAS Scheme supported by DST is in place to provide the grant of Maximum INR 10.00 Lakhs for the idea to Working Prototype. Vel Tech TBI also recognized as NIDHI Centre of Excellence by DST with the funding support of INR 23.00 Crore to provide the World class facility to help start-ups go global market. Honorable Vice President of India Mr. Venkaiah Naidu inaugurated the Centre of Excellence for Manufacturing.

ENTREPRENEURSHIP INITIATIVES



Vel Tech TBI has created the state-of-the-art facilities such as e-waste recycling pilot plant, 3D printing laboratory, manufacturing facility with advanced CNC machines & NDT technology for product development & inspection, Bio incubator to support biotechnology innovations, NVIDIA supported AI, ML, DL & digital services lab to support IT innovations. Innovations belongs to the thrust areas are Digital Services and IOT, Analytics, AI/ML/DL, AR/VR, Mobile Apps, E-commerce, 3D printing, E-Waste / Plastic waste management, Manufacturing, Embedded systems and VLSI, Agriculture, Robotics / UAV, Health Care and Bio – Incubation. Vel Tech TBI partnered with Amazon, Zoho and Google to offer free cloud Credits to the start-ups.

" Vel Tech encourages ENTREPRENEURSHIP skills among their STUDENT ENGINEERS "



RESEARCH PARK



Research Park

Vel Tech Research Park houses well established National facilities, Centres of Excellence and Special labs, promoting Research among students. Various funded Research projects are administered at the Research Park in association with Research Organisations & Industries, to carry out R&D and Industry relevant projects. To name a few like The Dassault System Lab, Francecol, 3D Printing and Scanning Laboratory, Cyber Security Lab, Unmanned Aerial Vehicles (UAV) Laboratory & National Instruments Lab, USA etc. Research teams of Vel Tech and Victoria University, Canada are involved in an international project (IC-Impact project) for development of UAVs in the inspection process of railway bridges.

The Institution has established National Facilities, Centres of Excellences and Special Labs in association with Research Organisations / Industries for taking up R&D and Industry - relevant projects by the students and faculty.

Research Centres

Special Centres or Facilities Established in Association or with the support of Industry / Research Organisations.

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Advanced Research Facility and Collaborators:

- **High Speed Bearing Test Facility**
  Gas Turbine Research Establishment (GTRE), DRDO. Bangalore & Dynaspede Integrated Systems Ltd, Hosur
- **Automotive Engine Test Facility**
  ARAI Pune, Ashok Leyland Chennai, TAFE Chennai and Greaves Cotton, Chennai
- **Material Science Research Lab**
  Armament Research & Development Establishment (ARDE). DRDO. Pune

Structural Research Lab

Defence Materials & Stores Research & Development Establishment (DMSRDE), DRDO, Kanpur

Centres of Excellence

- Centre of Excellence on Virtual Instrumentation, National Instruments, USA
- Centre for Design, Engineering and Manufacturing (CDEM), DASSAULT SYSTEMES, France
- Cyber Security Lab, IBM India Pvt. Ltd., Delhi
- R&D Lab for Innovative Devices, Francecol, France



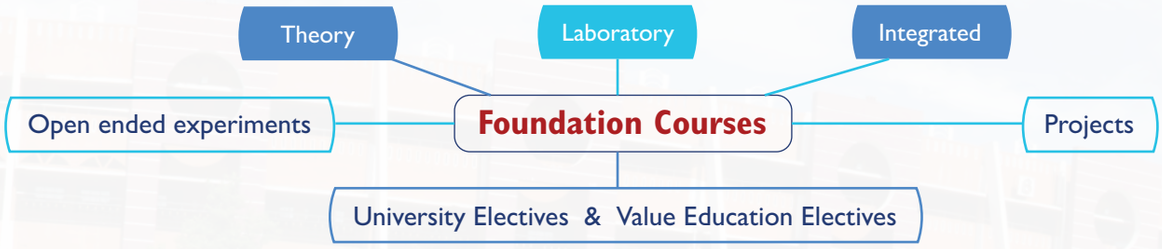






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School of Law

The main objective of the School: To impart comprehensive and interdisciplinary legal education that is socially relevant with an aim to promote legal & ethical values, foster the rule of law and also objectives enshrined in the Constitution of India.

The School is committed in shaping a new cadre of legal professionals through a comprehensive and contemporary body of integrated knowledge of law, humanities and rigorous Research programmes. These research programmes are led by eminent multi-disciplinary scholars who are privileged to lead legal education with new and innovative system to produce legal scholars and lawyers who will prove to be different in leading India to a new touch of governance.

Programmes Offered

UG Programmes

B.A., LL.B. (Hons.) *
B.Com. LL.B. (Hons.) *

Doctorate

Ph.D.

* Integrated Programmes for 5 years.
All programmes are approved by the Bar Council of India.

Highlights

- Fully equipped Online Law Library with Law database.
- Monthly Moot Court Sessions from third year onwards.
- Weekly Seminar Sessions for developing the legal reasoning ability.
- Internships / Court visits at the end of every semester, which enables the students to understand the nuances of the legal profession.
- Legal problem solving / Project Based Learning / Clinical Methodology in Law teaching.
- Special classes handled by experienced Professors from India & Abroad, practicing Lawyers and Judges.
- Research based learning from 4th year onwards
- Legal Aid Centre which will help students to master their professional skills
- National and International Seminars / Workshops are conducted, through which Law students are motivated to add feathers to their caps by providing them with numerous opportunities and resources.
- Lecture-cum-discussion, Group Discussion, Case Law Method and Problem Solving Method of Teaching thereby eliciting the active classroom participation of the students.











" Endeavors to make legal education as justice education, an instrument of social, political and economic change "

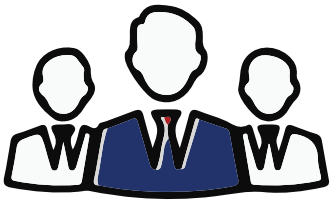


From being a mediocre student in school days to getting placed in Oravel Stays Pvt. Ltd (OYO) the journey has been excellent. The Campus to Corporate initiatives was helpful in improving my vocabulary, communication and public speaking skills. Overall the learning process enriched me in all ways possible and helped me grab a managerial position in OYO.

Kalpesh Choudhary
B.Com

School of Management (SOM) is the cornerstone of who I am today. SOM has provided me the right academic environment, experience and rigour, enabling me to hone my managerial skills and develop core competencies, this helped me build a successful rewarding career.

Ms. Pragathi Parameswaran
MBA



School of Management

School of Management with its prudent mix of relevance and rigourous offers programmes in B.Com, BBA and MBA. Responding to the changes in the field of business, the department offers a pragmatically designed curriculum by choosing a blend of courses that meet industry needs.

The School ensures a student-driven and participative learning environment in fully equipped classrooms and lab facilities, which are focused for discussions, interactive study sessions, presentations and case studies to enrich the learner experience. For students having entrepreneurial plans of starting their own business or running a family business, the outcome based programs are of immense use.

Programmes Offered

UG Programmes

B.Com.
B.B.A.

PG Programme

M.B.A.
M.B.A.(Innovation, Entrepreneurship and Venture Development)

B.Com

The programme with variants like Accounting & Finance, Corporate Secretaryship aims to develop the requisite knowledge, skills and attributes in students to meet the challenging needs of the accounting, auditing and taxation fields. The program focuses equally on theoretical and practical aspects of the above mentioned domains and prepares them to become a good professional.

B.B.A.

The programme aims to develop a solid understanding of business and management whilst building the intellectual and vocational skills that will enable students to succeed in business environment.

M.B.A.

The programme has been designed to provide students with 'views' and 'outlook' on leadership, entrepreneurship and ethics.

Department Highlights

- Qualified and experienced faculty
- Internships and projects with the Industry
- Industry Visits
- Opportunities in Research and consultancy projects undertaken by the Institution
- Exposure to guest speakers from the Industry
- Participation in seminars
- Workshops and Management Events
- Intensive training in IT and Soft skills


Nikon
Libec
Libec
Nikon
Nikon

School of Media Technology and Communication

The School is an ideal training ground for media aspirants by offering a plethora of opportunities to learn and grow. Keeping abreast with the changing media environment, there is an increasing emphasis on hands-on-training and project based learning in a conducive environment in order to instill professionalism from the day one. With cutting-edge curriculum, learner-centric pedagogy, state-of-the-art facilities and expert guidance, students actively engage in producing creative work par excellence.

Programmes Offered

UG Programmes

B.Sc Visual Communication
B.Sc. Multimedia

B.Sc. Visual Communication

The primary objective of the programme is to encourage the student to develop and master the basic visual thinking, conceptual thinking, and compositional skills that define effective visual communication. Creative dynamic pictorial composition is emphasized in drawing and all digital applications inclusive of photography, film and multimedia.

B.Sc. Multimedia

Students learn various domains of Multimedia through practice starting from the basic and gradually progress in 3D Animation and VFX. The goal is to sharpen both individual creative skills and the ability to bring an idea to fruition via skilled project management.

Pedagogy

The curriculum design offers the scope for intensive practical training that help to hone the skill set of students. They are typically taught through a combination of lecture, workshops, expert talk, field visit, live demo, seminars, screenings and practical activities which mould them into budding media professionals. The students undergo a semester-long internship that gives them the taste of the real world media scenario and prepares them for the media landscape.

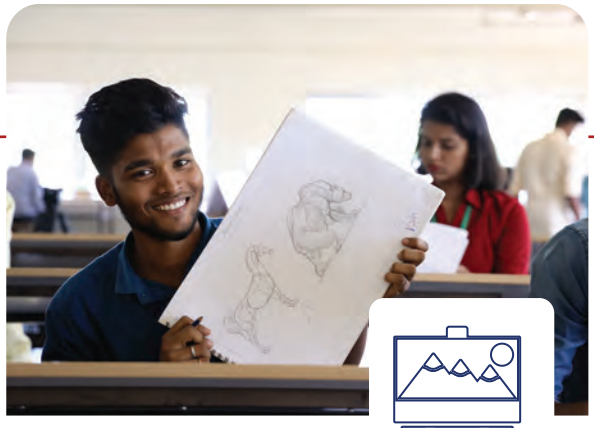
Scope of the Course

Our media graduants are Industry-ready communication professionals who can undertake roles such as:

Visualizer, Advertising Professional, Graphic Designer, Copy Writer, Media Planner, 2D/3D Animator, Director, Script Writer, Art Director, Photographer, Cinematographer, Television Producer, Story Board Artist, Editor, Sound Designer, Rigging Artist, Character Modeling Artist, VFX Supervisor, Web Designer, Layout Artist

Facilities

The state-of-the-art-infrastructure facilitates practical media pedagogy. The School of Media Technology & Communication is equipped with an unmatched range of production equipment and services that enables us to deliver broadcast quality content for media production par excellence.



DRAWING STUDIO



SHOOTING FLOOR



COMPUTER GRAPHICS LAB



EDIT SUITE



SOUND DESIGN STUDIO

Industrial Exposure

As part of the curriculum, students are given adequate Industrial exposure and field work to enhance their hands-on-experience. The programmes offer the scope to pursue semester-long internship in a media house which enables them to graduate with work experience. Apart from in-house live projects, students engage in creative production in fieldwork.

Eminent Guests @ School of Media



C. S. Amudhan
Director, Screenwriter - Tamil Padam,Tamil Film Industry



Radhika Ramasamy
Renowned Wildlife Photographer



Kaushik Narasimhan
Head - Content, VOOT, Colors TV



Sy. Gowthamraj
Director - Ratchasi, Tamil Film Industry



"After coming to Vel Tech, I became confident enough to speak in front of the camera. My motto was to get involved in almost all the media work and I am totally achieving it. The environment here made me enthusiastic towards my work. I feel very comfortable and delightful studying here. I thank all my faculty for their constant encouragement and support".

Jennifer. R (VTA381)
B.Sc II Year Visual Communication



"I would like to thank Vel Tech for giving me wonderful teachers who are ready to help me and guide me. The environment in my department is highly motivating and I thank Vel Tech".

Saran (VTA 507)
B.Sc Multimedia

INTERNATIONAL COLLABORATIONS AND OPPORTUNITIES

PRIME VENTURES

- Summer Programmes
- Research Internships
- Semester Abroad Programme facilitates:
    1. Students take up one or two semesters at Partner Universities Abroad
    2. Foreign students visit the Institution for Coursework / Research

The focus is to promote and sustain relations with renowned International Institutions/ Universities.

Provide the opportunity for students to complete a part of their degree programme in Abroad.

Offers a platform for the faculty members to collaborate, work jointly and engage in various active researches with peers at International Universities.

- Progression Programme: Progression from UG Semester Abroad to Masters Abroad
- International Visiting Faculty
- Foreign Language Courses (German, Mandarin and French)
- Founders' Foreign Scholarships and subsidy from other Government and other agency for Higher Studies abroad
- MoU with More than 120 Institutions across 32 countries.

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The Directorate of Campus to Corporate (DCC) makes every effort to groom the students with the aid of multiple training programs to make them Industry ready.

- Career counseling to the students from their first year of study.
- Career path sessions with experts from Industries.
- Employability skill courses.
- Technical training.
- Corporate mentoring.
- Students participate in various competitions like Hackathon, Hacker rank, Hacker earth, TCS Code Vita, L&T Techgium, QuEST Ingenium, SAP online test etc, through which our students get internship and job offers.
- Placement drives are conducted. Wipro, Capgemini, Amazon, Mindtree, Juspay, Zoho, Latentview, Hyundai Mobis, Musigma serve as the premium recruiters.



JUBILATE



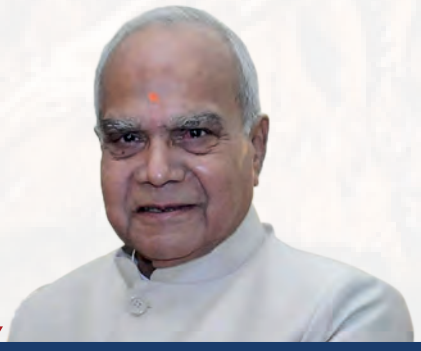
Dr. A. P. J. Abdul kalam

Former President of India



Shri M. Venkaiah Naidu

Vice President of India



Shri. Banwarilal Purohit

Governor of Tamil Nadu



Dr. K. Sivan

Chairman - ISRO



Shri. P. S. Ramamohan Rao

Former Governor of Tamil Nadu &
Former Director General
of Police of Andhra Pradesh

Vel Tech celebrates the visit of eminent personalities on campus. An exceptional opportunity that offered students an experience to witness and get influenced to impact the society.



Dr. G. Satheesh Reddy

Indian Aerospace Scientist ISRO, Chairman of Defence Research and Development Organisation (DRDO) and Secretary, Department of Defence R&D



Dr. E. Balagurusamy

Chairman of EBG Foundation, Coimbatore
Former Vice - Chancellor of Anna University



Shri. N. Ram

Chairman, THG Publishing Private Limited



Prof. Dr. Takaaki Kajita

2015 Nobel Prize winner in Physics
Director of ICRR and Principal Investigator for Physics and Mathematics University in Tokyo

JUBILATE



Dr. Virander Singh Chauhan

Executive Chairman of National Assessment and Accreditation Council (NAAC)



Mr. G. M. Rao

Founder Chairman of GMR Group



Ms. Sailaja Kiran

Managing Director,
ETV & Margadarsi Chit funds



Padma Shri Dr. A. S. Kiran Kumar

Former Indian Space Scientist and Chairman of the Indian Space Research Organisation (ISRO)

"Experience is the only source of knowledge"

–Albert Einstein



Padma Bhusan Dr. M. R. Girinath

Chief Cardiothoracic Surgeon,
Apollo Hospital, Chennai



Mrs. Mallika Srinivasan

Chairman and Chief Executive Officer of
TAFE & Board Member of Tata Steel



Mr. N. R. Narayana Murthy

Chairman Emeritus, Infosys



Ms. Sudha Murthy

Chairperson, Infosys Foundation

CAMPUS LIFE


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தவிர்ப்பீர்
பிளாஸ்டிக்கை
ஒழிப்போம்
பிளாஸ்டிக்
விழுமானது


Vel Tech
Onam Festival









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ANNUAL EVENTS



LAVAZA '19

An Annual International Tech Cultural extravanza conducted by the Institution. A self evolving episode, by the war of intellectual brains.



IDAD

An event that focusses on designs and developments which are the aspirations of tomorrow's technologies for Aero, Auto Industries to be alive in the competitive world.



TDI DAY

Teaching Developers Initiative.
Tamilnadu School teachers are trained in the use of digital tools and active learning methodologies to infuse effectiveness in academics, foster innovation and creativity.



VISAI '19

It is an Annual Mega Event conducted in the month of February. The project themes have been augmented to kindle innovative ideas that will have a big impact on the Grand Challenges of the Nation.

SPORTS







Vel Tech appreciates and recognises sports eminence of the candidates. Students with achievements in State / National level Tournaments can avail concession in tuition fee. Write to admission@veltech.edu.in

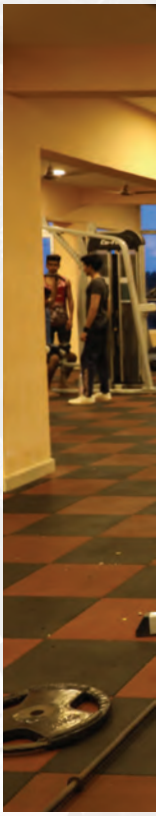






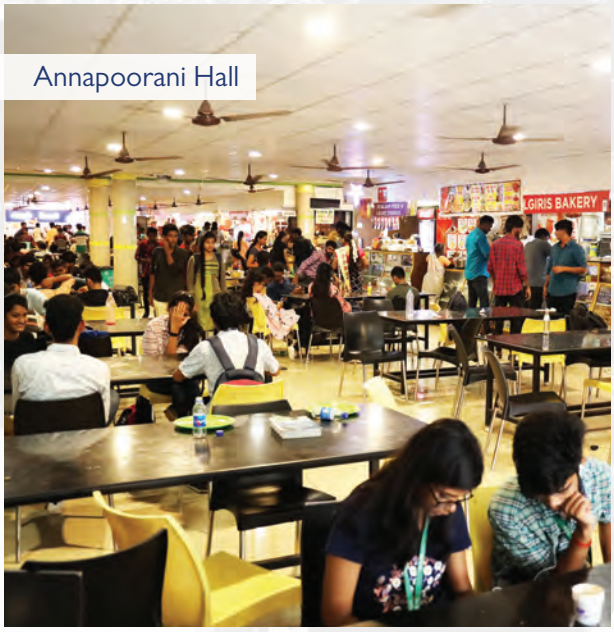


Vijaya Bank ATM





Ambulance



Annapoorani Hall



Girls Gym



First Aid Room

FACILITIES & AMENITIES


Boys Gym


Boys Gym




Girls Gym

News Flash

ఉత్సాహంగా స్మార్ట్ హ్యాకథాన్



హ్యాకథాన్ పోటీల్లో పాల్గొన్న విద్యార్థులు



పోటీలను ప్రారంభిస్తున్న రామారావ్, పక్కన రంగరాజన్

తిరువళ్లూరు: భారతీను బలమైన శక్తిగా రూపొందించాలన్న లక్ష్యంతో హ్యకథాన్ హర్ట్‌వేర్ -2019 పోటీలను నిర్వహించి ఉత్తమ పరిశోధన లకు కేంద్ర ప్రభుత్వం ప్రోత్సాహాన్ని ఇవ్వడం శుభసూచకమని డబ్లిన్ ఆటో ఇండియా సంస్థ వ్యవస్థాపక అధ్యక్షుడు వైరామారావ్ అన్నారు. భారతదేశాన్ని శక్తివంతమైన దేశంగా రూపొందించాలన్న ఉద్దేశంతో ప్రధాని నరేంద్రమోదీ మేక్ ఇన్ ఇండియా పథకాన్ని ప్రవేశ పెట్టిన విషయం తెలిసిందే. ఇందులో భాగంగానే గత రాది హ్యాకథాన్ ఇండియా పేరిట కొత్త సాఫ్ట్‌వేర్ లను రూపొందించే కార్యక్రమాన్ని దేశవ్యాప్తంగా ముఖ్యంగా విద్యాసంస్థల్లో నిర్వహించారు. ఈ సీవ ర్యంలో హార్ట్‌వేర్ హ్యకథాన్ 2019ను సోమవారం తిరువళ్లూరు కేంద్ర మానవ వనరుల అభివృద్ధి శాఖ మంత్రి రమేష్ పోఖ్రియాల్ నిశాంక్ వీడియో కాన్ఫరెన్స్ ద్వారా ప్రారంభించారు. ఈ పోటీలు తిరువళ్లూరు జిల్లా ఆవడిలోని వేల్‌టెక్ వర్సిటీలోనూ జరిగాయి. కార్యక్రమానికి వర్సిటీ వ్యవస్థాపక అధ్యక్షుడు రంగరాజన్ అధ్యక్షత వహించగా, వర్సిటీ అధ్యక్షురాలు డాక్టర్ శకుంతలారంగరాజన్ ప్రారంభోపన్యాసం చేశారు.

ఇంజినీరింగ్ విద్యార్థులు భాగస్వామ్యం కావాలి

ముఖ్యాతిథిగా పాల్గొన్న దబ్లిన్ ఆటో ఇండియా సంస్థ వ్యవస్థాపక అధ్యక్షుడు రామారావ్ మాట్లాడుతూ ప్రపంచస్థాయి భారతదేశ ఆర్థిక వ్యవస్థను మరింత బలమైన శక్తిగా రూపొందించడానికి ఇంజినీరింగ్ విద్యార్థులు భాగస్వామ్యం కావాలన్నారు. దేశవ్యాప్తంగా 178 విద్యాసంస్థల్లో విద్యార్థులు 250 బృందాలుగా ఏర్పడి పోటీల్లో పాల్గొన్నారు. వేల్‌టెక్‌లో 9 రాష్ట్రాలకు చెందిన 16 బృందాలు హ్యకథాన్‌లో పాల్గొన్నట్లు వివరించారు. కార్యక్రమంలో వర్సిటీ సీసీ కుమార్‌తో పాటు పలువురు విద్యార్థులు ఏసీటీఈ, ఎంహెచ్‌ఆర్‌డీ, పలు సంస్థలకు చెందిన ప్రముఖులు హాజరయ్యారు. ఉత్తమ హ్యాక్‌వేర్‌లను రూపొందించే వారికి వేల్‌టెక్ వర్సిటీ కరపత్ర బహుమతులు అందజేయనున్నారు.

సాక్షి Tue, 09 July 2019
https://epaper.sakshi.com/c/41194712

மாநில பல்கலை ஆண்கள் கபடி எஸ்.ஆர்.எம்., பல்கலை சாம்பியன்



■ பல்கலை அளவிலான மாநில ஆண்கள் கபடி போட்டியில் மோதிய, எஸ்.ஆர்.எம்., மற்றும் வேல்டெக் பல்கலை வீரர்கள். இடம்: ஆவடி.

சென்னை, அக். 12- மாநில பல்கலை அளவிலான ஆண்கள் கபடி போட்டியில், எஸ்.ஆர்.எம்., பல்கலை முதலிடம் பிடித்தது.

தமிழ்நாடு விளையாட்டு மேம்பாட்டு ஆணையம் மற்றும் ஆவடி, வேல்டெக் பல்கலை இணைந்து நடத்தும், பல்கலை அளவிலான மாநில ஆண்கள் கபடி போட்டி, வேல்டெக் கல்லூரி யில், நேற்று முன்தினம் நடந்தது.

அதன் இறுதி போட்டியில், காட்டாங்கொளத்தூர், எஸ்.ஆர்.எம்., ஆவடி, வேல்டெக், இண்டி, அண்ணா பல்கலை மற்றும் சேப்பாக்கம், சென்னை பல்கலை அணிகள் மோதின.

இதில், புள்ளிகள் அடிப்படையில், எஸ்.ஆர்.எம்., அணிகள், 3 புள்ளி களை பெற்றன.

இரு அணிகளும் ஒரே புள்ளிகளை பெற்றதால், 'ரெய்டு' மற்றும் 'டிபென்ஸ்' ஆகிய முறைகளில் அடுப் படையில், எஸ்.ஆர்.எம்., முதலிடமும், சென்னை பல்கலை இரண்டாம் இடமும், வேல்டெக் மூன்றாம் இடத்தையும் கைப்பற்றின.

போட்டியில் வெற்றி பெற்றவர்களுக்கு, பரிசுத்தொகை மற்றும் சான்றி தழ்கள் வழங்கப்பட்டன.

VEL TECH'S SUMMIT EARNS PRAISE



edex Mon, 25 March 2019
epaper.newindianexpress.com/c/37902041

राज्यपाल बनवारीलाल पुरोहित ने कहा

उच्च शिक्षा के लिए तमिलनाडु बेहतर स्थान

सेंटर ऑफ एक्सीलेंस ऑफ मैन्युफेक्चरिंग का उद्घाटन



पत्रिका Thu, 14 March 2019

வேல் டெக் ரங்கராஜன் டாக்டர் சகுந்தலா அறிவியல் ஆராய்ச்சி மையத்தில் மாணவர்களுக்கான மென்பொருள் உருவாக்கும்போட்டி துவக்கம்





ஆவடி வேல்டெக் பல்கலைக்கழகமும் தமிழ்நாடு விளையாட்டு மேம்பாட்டு ஆணையமும் இணைந்து நடத்தும் பல்கலைக்கழக அளவிலான மாநில மகளிர் கபடி போட்டிகள் துவங்கியது. இதை பல்கலைக்கழக வேந்தர் ஆர்.ரங்கராஜன், தலைவர் டாக்டர் சகுந்தலா ரங்கராஜன் ஆகியோர் குத்துவிளக்கு ஏற்றி துவக்கிவைத்தனர்.

முரசு Tue, 01 October 2019
tm.dinakaran.com/c/44230954

SIH -2019 grand finale to see most innovative students from across the country

Two-day sessions begin at KCT and Krishna College; PM to address the students today





S. Malarvizhi, Chairperson and Managing Trustee of Sri Krishna Group of Institutions, interacting with the participants at the hackathon inaugural session at the Sri Krishna College on Saturday. (right) Director - Human Resources, Samsung Electronics, Sandeep Tyagi, interacting with participants at Kumaraguru College of Technology.



Excellence award

Raindropss, a youth-based social organisation, recently awarded Sagunthala Rangarajan, founder and president of Vel Tech Rangarajan Dr Sagunthala R&D Institute of Science and Technology, with the title 'Excellence in the field of Education' at their 7th Annual Women Achiever Awards-WAA.

The New Indian Express Tue, 26 March 2019
epaper.newindianexp

Vel Tech fest concludes

The three-day tech cultural fest of Vel Tech Rangarajan Dr Sangunthala R&D Institute Of Science and Technology, concluded on Saturday. Reowned artistes performed in the inter-collegiate event. Over 800 students from about 180 colleges participated in various technical and cultural competitions. TNN



ஆவடி வேல்டெக் பல்கலைக்கழகத்தில் "ஸ்மார்ட் இந்தியா ஹாக்கத்தான் 2019" என்ற வன்பொருள் பதிப்பு குறித்த மாதிரி உருவாக்கும் போட்டியில் வெற்றிபெற்றவர்களுக்கு பரிசளிப்பு விழா பல்கலைக்கழக நிறுவன தலைவர்கள் ஆர்.ரங்கராஜன், டாக்டர் சகுந்தலா ரங்கராஜன் ஆகியோர் தலைமையில் நடந்தது. வானிலை ஆய்வு மைய இயக்குனர் எஸ்.பாலச்சந்திரன் பரிசுகளை வழங்கினார். அருகில், துணை வேந்தர் வி.எஸ்.எஸ்.குமார், இயக்குனர்கள் மற்றும் வெற்றிபெற்றவர்கள்.

ஆவடி வேல்டெக் பல்கலையில்

வன்பொருள் பதிப்பு குறித்த போட்டி

வெற்றிபெற்ற மாணவர்களுக்கு பரிசு

திருவள்ளூர், ஜூலை 14- ஆவடி வேல்டெக் பல்கலைக் கழகத்தில் மத்திய மனிதவள மேம்பாட்டு துறை அமைச்சகம், ஏஐசிடிஇ சார்பில், "ஸ்மார்ட் இந்தியா ஹாக்கத்தான்-2019" என்ற வன்பொருள் பதிப்பு குறித்து 5 நாள் நடந்த போட்டிகளில் 12 மாநிலங்களை சேர்ந்த 16 குழுக்கள் கலந்துகொண்டன.

இறுதி சுற்றில் வெற்றிபெற்ற மாணவர்களுக்கு பரிசளிப்பு விழா நேற்று நடந்தது. வேல்டெக் பல்கலைக்கழக நிறுவன தலைவர்கள் ஆர். ரங்க ராஜன், சகுந்தலா ரங்கராஜன் தலைமை தாங்கினர். துணை வேந்தர் வி.எஸ்.எஸ்.குமார் வரவேற்றார். மத்திய மனிதவள மேம்பாட்டு அமைச்சகம் சார்பில் டாக்டர் பூஜா ராவத் நிகழ்ச்சியை தொகுத்து வழங்கினார்.

சென்னை வானிலை ஆய்வு மைய இயக்குனர் எஸ்.பாலச்சந்திரன், வெற்றி பெற்ற மாணவர்களுக்கு பரிசு வழங்கினார். முதல் பரிசாக ரூ.1 லட்சம் மற்றும் கோப்பை கர்நாடகா சாகர் பொறியியல் கல்லூரிக்கும், 2ம் பரிசு ரூ.75 ஆயிரம் மத்திய பிரதேச ஐடிஎம் குழும கல்லூரிக்கும், 3ம் பரிசு ரூ.50 ஆயிரம் ஜம்மு காஷ்மீர் மாநில என்ஐடி யுவா இனவேட்டர்ஸ் அணிக்கும், ஆறுதல் பரிசு தலா ரூ.10 ஆயிரம் ஹைதராபாத் யூனிவர்சிட்டி காலேஜ் ஆப் இன்ஜினியரிங் கல்லூரிக்கும், கோயம்புத்தூர் ஸ்ரீ ராமகிருஷ்ணா பொறியியல் கல்லூரிக்கும் வழங்கப்பட்டது.

போட்டிகளில் பங்கேற்ற 122 மாணவர்களுக்கு அவர்களது படைப்புகளை மதிப்பீடு செய்த கல்வியாளர்கள் மற்றும் தொழில் நிறுவனங்களை சேர்ந்த விருந்தினர்களுக்கு நினைவு பரிசு, வேல்டெக் பல்கலைக் கழகம் சார்பில் வழங்கப்பட்டது.

முரசு Sun, 14 July 2019
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విజేతలకు బహుమతులు ఇస్తున్న నటుడు సూర్య, డాక్టర్ రంగరాజన్, శకుంతలా రంగరాజన్

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