Training and Placement Centre

While the academic programmes and curricular reforms help in improving the employability of graduates, it is the ‘Training and Placement Centre’ (T & P Centre) of the institute, headed by a Professor, that facilitates campus recruitment processes.

Reputed industrial organizations and establishments visit the Pondicherry Engineering College campus for recruiting the students. Besides taking care of marketability of student-products of the institute, the T & P Centre creates opportunities for students to hone their personality and improve their soft skills by organizing various career development seminars, group discussions, tests and mock interviews.
**OUR MISSION**

- To impart high quality training to students so as to provide human resource appropriate to the local and national needs.

- To create and disseminate knowledge for the betterment of mankind in general and rural masses in particular.

- To establish centres of excellence in collaboration with industries, research laboratories and other agencies to meet the changing needs of the society.

**OUR VISION**

- To foster prosperity through technology by means of education, innovation and collaborative research and emerge as a world-class technical institution.
Why PEC?

- State-of-the-art infrastructure including one of the best research libraries in the country
- A completely networked campus with top of the line computer centres
- Highly qualified faculty
- Distinguished alumni
- Rigorous selection procedure
- Multi-disciplinary batches
- Apt teacher-student ratio
- Hands-on training
- Balanced course structure
- Rigorous training in quantitative and qualitative analysis
- Summer internships undertaken with varied profiles in both corporate and research bodies
- Past recruiters and placement records
Pondicherry Engineering College, established in the year 1984 under the seventh five year plan, is one of the premier technological institutions in South India. The institute since its inception, has registered phenomenal growth in terms of imparting quality education and promoting research in the area of technology. It is an institution wholly funded by the Government of Puducherry and is bestowed with autonomy in academics and administration.

The sprawling 210 acres beautiful campus of the institute equipped with the best infrastructure provides an excellent environment to the students and scholars for pursuing their academic education and research. The institute offers eight under graduate, eleven post graduate and Ph.D. programmes in the major disciplines of Engineering and Technology. The institute stands significantly empowered by its well qualified and meritorious teachers recruited through an open competition system on an All-India basis. Leading business houses across the country have placed us among the top band of institutes for the purpose of campus programmes.

**Academic Profile**

**Under Graduate Programmes (B.Tech.)**
- Civil Engineering (CE)
- Mechanical Engineering (ME)
- Electronics and Communication Engineering (ECE)
- Computer Science and Engineering (CSE)
- Electrical and Electronics Engineering (EEE)
- Information Technology (IT)
- Electronics and Instrumentation Engineering (EIE)
- Chemical Engineering (CHE)

**Post Graduate Programmes**
- Master of Computer Applications (M.C.A.)
- Structural Engineering (M.Tech.)
- Environmental Engineering (M.Tech.)
- Electronics and Communication Engineering (M.Tech.)
- Wireless Communication (M.Tech.)
- Distributed Computing Systems (M.Tech.)
- Information Security (M.Tech.)
- Product Design and Manufacturing (M.Tech.)
- Electrical Drives and Control (M.Tech.)
- Information Technology (M.Tech.)
- Instrumentation Engineering (M.Tech.)

**Doctoral Programmes**
- Civil Engineering
- Mechanical Engineering
- Electronics and Communication Engineering
- Computer Science and Engineering
- Electrical and Electronics Engineering
- Mathematics
- Physics
- Chemistry
CO-CURRICULAR ACTIVITIES
Pondicherry Engineering College has been unique to activate an IEEE students’ branch at Pondicherry right from its formative years. The branch was established in the year 1986 under the chairmanship of Prof. S Rame Gowda. The distinct feature of this academic activity is to provide nearly 100 top journals and magazines in the areas of Electrical, Electronics and Computer Science through the IEEE students’ branch library.

The ISTE (Indian Society for Technical Education) students’ chapter was established in the College in the year 1994. The students’ branch arranges a number of expert lectures, workshops and symposia on the emerging areas of engineering.

CENTRAL FACILITIES

Library and Information Centre
The institute has an excellent automated library housing over 50,785 volumes of science and technical books. In addition, 168 journals and 35 periodicals are regularly subscribed. PEC are also a member of DELNET (Developing Library Network, Delhi), which enables to have access to the books and periodical databases of nearly 100 institutions across the country. The library has OPAC (Online Public Access Catalogue) service and network facility to augment the information needs of the users. PEC has been selected by the All India Council for Technical Education (AICTE) to provide electronic access through Indian National Digital Library in Science and Technology (INDEST), established by MHRD. In addition to the above stated facilities, each department has its own library to cater to the specialized and quick reference requirements of its faculty and students.

COMPUTING FACILITIES

Auditorium Complex
An aesthetically built auditorium with a capacity of 750 seats is the recent value addition to our panoramically beautiful institute. A seminar hall and a multipurpose facility hall are the important inbuilt features of this magnificent complex.

Counselling and Career Guidance Cell
The Counselling and Career Guidance Cell (CCGC) was established during the academic year 2003-2004. Ever since it came into existence, the cell has been conducting a number of programmes aimed at developing and exhibiting the oratory skills, leadership qualities, creativity and cognitive abilities of the students.

Activities of the CCGC
- CCGC regularly conducts extra-curricular events such as group discussions, extempore, various speaking competitions, debates etc. Mock interviews are conducted to build the confidence of students.
- CCGC has a library with books, CDs and quality study materials to facilitate the students in their preparation for competitive examinations, personality development and placement process.
CALL TO THE CAMPUS

I take immense pleasure to introduce our graduating students to your esteemed organization. Our students are trained and prepared to contribute to the technology, industry and society by our well experienced and committed faculty members, who are masters in their domain. The students of Pondicherry Engineering College have left their stamp in all the organizations where they have been recruited and are serving for the upliftment of the organization to their fullest potential.

I cordially invite you to participate in the placement process at Pondicherry Engineering College, Puducherry. I look forward to your participation in shaping the future career of our students.

- Dr. D. Govindarajulu
Principal

Pondicherry Engineering College is one of the leading Engineering Institutes in India. The Institute has been producing professionals over the past 25 years who have established themselves in the higher echelons of every field into which they ventured. It gives me immense pleasure, on behalf of everyone in the institute to invite you to experience and evaluate the dexterities, competencies, skills and talents of our budding engineers and absorb them into your esteemed organizations.

- Dr. F. Sayagaraj Francis
Training and Placement Officer
Places to visit in Puducherry

Take a break from the hustle and bustle of modern life and get engrossed in the calmness and serenity of the beaches of Puducherry. If you want to get into a spiritualistic mood, visit the world famous Aurobindo Ashram and Auroville and be blessed with a lot of peace and goodness.

**AUROVILLE**

Auroville is located around 8 km from Puducherry and is a place that you should not miss while on a visit to Puducherry. This township was officially inaugurated on 28th Feb. 1968 where about 5000 people of different origin assembled here along with a little bit of soil from their homeland. In this ceremony, the Mother put forward the 4-point charter for the residents.

**CHUNNAMBAR RESORT**

Chunnambar Resort is along the banks of Ariyankuppam River about 8 km away from Puducherry. There is a beach in Chunnambar, which is commonly known as Paradise Beach. The place is a center for beach sports with its clean sands and clear waters. You could also catch a glimpse of playful dolphins.

**THE FRENCH HERITAGE**

Puducherry is synonymous with French Heritage in India and understandably so as it served as the capital of the French Colonies in India. The town was under French administration for centuries together and hence it is imperative that this place has a strong French feel in its architecture and monuments. It includes the French built Children’s park with a statue of Duplex Marquis Joseph François. The other monuments of French Heritage are Le Café which used to be the port office, The French war memorial in Goubert Avenue, The French consulate building, An abandoned light house, The Aayi Mandapam built during the time of Napoleon-III and the Romain Rolland Library.

**AUROBINDO ASHRAM**

Aurobindo Ashram is the place where the great Indian philosopher Aurobindo spent his entire life. The Ashram in Rue de la Marine is the place where Aurobindo’s disciple Mirra Alfassa popularly called The Mother came from Paris spent a spiritual life.
ABOUT

“We shape our buildings and our buildings shape us.”

The department of Civil Engineering was established during the inception of the college in the year 1985. Apart from B.Tech in Civil Engineering, two M.Tech programmes in Structural Engineering and Environmental Engineering and Ph.D. programmes in Civil Engineering are offered. Highly qualified, experienced and committed faculty members of this department significantly contribute to the growth of the department and in turn the college. The students are offered world class training both in theory and practice. Industrial training is part of curriculum both for UG and PG students. The department aims at imparting quality education and fuelling the rising needs and demands in various walks of the society. The department has been accredited by the National Board of Accreditation of AICTE, New Delhi and the U.G programme (B.Tech – Civil Engineering) has been awarded an ‘A’ grade for five years.

LABORATORIES

- Concrete and Building Materials laboratory
- Geotechnical Engineering laboratory
- Strength of Materials laboratory
- Environmental Engineering laboratory
- Fluid Mechanics laboratory
- Transportation engineering laboratory
- Structural Testing laboratory
- Non-destructive laboratory
- Survey laboratory

All the above labs are equipped with the state-of-the-art equipment. Well trained and experienced technical staff members conduct experiments under the guidance and supervision of the faculty members, according to the accredited standards.

ACTIVITIES

The department frequently conducts National-Level technical and cultural festivals such as "AKRITHI" once in two years and "EDIFICE" once in three years. The department also periodically organizes a wide variety of workshops. The students are also part of IEI (Institute of Engineers India) - Students Chapter.
STRENGTH OF MATERIALS LABORATORY

Strength of materials laboratory is well-equipped with modern equipment:
- UTM-100t capacity
- UTM-100 kg capacity
- Digital Torsion Testing machine
- Telescopic Hardness Testing machine
- Wood testing machine
- Testing devices of PVC pipes

It is a major hub for consultancy services. It offers consultancy facilities for various government and non-governmental organisations.

ENVIRONMENTAL ENGINEERING LABORATORY

Environmental Engineering laboratory has facilities to carry out all physical and chemical analysis of water and industrial effluents.
- UV-visible spectrophotometer
- Atomic Absorption Spectrophotometer (AAS)
- Gas Chromato graph
- UCC Apparatus
- TOC-HACH meter

CONCRETE AND MATERIALS TESTING LABORATORY

Concrete and Materials Testing laboratory is one of the busiest laboratories in the department. It provides an excellent room for researches, with a wide spectrum of Instruments working on cutting-edge technology.

Equipment available:
- Compression testing machine-3000 kN capacity
- Automatic compression testing machine – 2000 kN capacity
- Concrete & motor vibration machines
- Flow table for mortar and concrete
- Tile abrasion testing machine
- Accelerated curing bath
- Load frame -(300 kN capacity) along with data logger for load, displacement and strain
- Fatigue Testing devices
- Strain & Deflection Measuring devices
- Furnace - 1200°C
- NDT equipment:
  - Rebound hammer
  - Ultrasonic Pulse velocity
  - Cover meter and rebar locator
  - Core cutter
  - Rapid Chloride permeability apparatus.

PROJECT / RESEARCH AREAS

- Studies on the behaviour of RC beams retrofitted with external reinforcement
- Effect of recycled concrete aggregate on the performance of concrete
- Behaviour of concrete using CPF liner
- Retrofitting technique by trussed beam concept
- Production of self compacting concrete using recycled aggregate
- Recycled aggregate and geo-polymer concrete for precast elements
- Beam column joints
- Retrofitting of columns with external prestressing
MECHANICAL ENGINEERING

ABOUT

“Fuelled by innovation, propelled towards perfection”

The department of Mechanical Engineering was established in 1985 with a vision to foster quality technical education to meet the growing demands of industries. The department offers a U.G. programme (B.Tech) and P.G. programmes (M.Tech - Energy Technology and M.Tech - Product Design and Manufacturing). The department is equipped with excellent infrastructure and enriched with highly qualified, experienced and dedicated staffs to impart knowledge and training to the students in state-of-the-art technologies.

ACTIVITIES

- Central Electro Chemical Research Institute (CECRI), Karaikudi has identified the Department of Mechanical Engineering, Pondicherry Engineering College as one of its core stations in building Corrosion Map of India.
- Intensive research in the areas of Automations, Automobile developments, Composite materials, Powder Metallurgy, Corrosion, Metal Cutting and Production management are being pursued by the department.
- Students are given wide exposure through regularly organized guest lecturers by distinguished professionals.
- “MECHNIUM” - A national level technical symposium is conducted by the students of Mechanical Engineering every year.

LABORATORIES

- Thermal Engineering Laboratory
- CAD & Simulation Laboratory
- Measurements Laboratory
- Metallurgy Laboratory
- Dynamics Laboratory
- Production Engineering
- Fluid Mechanics Laboratory
- Fluid Machinery Laboratory
- Material testing Laboratory
B.Tech. Mechanical Engineering:

The curriculum is designed to help students orient themselves towards professional engineering and focus on developing fundamental knowledge which is delivered in coherent modules in an integrated manner. This brings out the relationship between the concepts and provides a framework that facilitates deep understanding and competence. The Skills and abilities needed are built progressively to become a professional Mechanical Engineer.

**CORE SUBJECTS:**
- Machine Design
- Mechanics of Machines
- Fluid Mechanics and Fluid Machinery
- Heat & Mass Transfer
- Production Technology
- Advanced Manufacturing Technology
- Applied Thermodynamics
- Machine Drawing & CAD

**ELECTIVES:**
- Mechatronics
- Composite Materials
- Automobile Engineering

M.Tech. (Energy Technology)

**CORE SUBJECTS:**
- Energy Conversion Systems
- Analysis of HMT
- Design of Thermal Equipment
- Optimization

M.Tech. (Product Design and Manufacturing)

**CORE SUBJECTS:**
- CAD / CAM
- Design of Manufacturing and Assembly
- Advanced Material & Processing
- Machine Tool Design

**Doctoral Programme**

The Ph.D. programme offered by this department requires an original thesis that should result in a significant contribution in that field. The average duration of the programme is 3-5 years.
ABOUT

“We embed the world into a single chip”

The department of Electronics and Communication Engineering, since its inception in the year 1985, has been producing globally competitive engineering graduates with benchmark domain expertise and all-round finesse. The department if resourceful in terms of infrastructure and state-of-the-art facilities to pursue academic education and research in niche areas of technology. The highly qualified and experienced faculty in adequate strength with zero attrition is one of the most significant features of the department. The department offers M.Tech degree programme and Electronics and Communication Engineering with special emphasis on Telematics for Communication Engineering and another program on Wireless Communication Technologies. Ph.D programmes are being offered in the frontier areas of technology and cachet research findings are being published by the faculty and the students all through the year.

ACTIVITIES

• “GENESIS” - An All India Technical Symposium conducted once in four years by the department with the participation of a large number of institutes across the country.
• “ENC INFO” - A National Level Technical Symposium conducted every year with a release of the department magazine.
• “Electroid” - A circuit contest conducted every year to exhibit the circuit design implementation of the students.
• Inclusion of appropriate subject content in the disciplines of Computer and Software Engineering (C, Data structures using C, System Programming using C, MATLAB, PSPICE).
• An Annual Panel Discussion on Advances in Communication Engineering sponsored by VSNL.
• A commemorative lecture in the field of Electronics sponsored by Indian Overseas Bank, Puducherry.

LABORATORIES

• Electronics Devices and Circuit Design
• Digital Circuit Design
• Analog and Digital Communication
• Network Simulation
• Optical Communication
• Advanced Communication
• VLSI Design and Embedded Systems
CURRICULUM
B.Tech. (Electronics and Communication Engineering)

- Electronic Circuits
- Signals and Systems
- Data Structures and C
- Digital Electronics
- Analog & Digital Communication Systems
- System Design using Integrated Circuits
- Microprocessors and Microcontrollers
- Digital Signal Processing
- Information Theory and Coding
- Embedded Systems
- Computer Networking
- Operating System

State-Of-The-Art Facilities

- Spartan 6 FPGA hardware design using VHDL and Verilog with a server and 5 nodes.
- Optical Power Multimeter
- Microwave test benches, source and detectors extending to “Ku band”.
- Mobile communication kit complying with GSM standards.
- Programmable Logic Controller.
- Vector Signal Analyzer.
- Mixed Signal Oscilloscope

M.Tech. (Electronics and Communication) and M.Tech. (Wireless Communication)

- Advanced Digital Communication
- Embedded Core Design
- Broad Band Networks
- Cellular Mobile Communication
- Wireless Communication System
- Advanced DSP
- CDMA Technology
- RF Design
- Ubiquitous Computing
- Cryptography
- Wireless Security

PROJECT AREAS

- VLSI Design
- Mobile Computing
- Wireless Sensor Networks
- Cellular Mobile Communications
- Digital Signal Processing
- Biomedical Engineering
- Embedded System
- Computer Networks
- ATM
- Wireless and ADHOC Networks
- GSM
- Antennas
- Fiber Optics
ABOUT

“Programmed to change the world on click of a button”

The department of Computer Science and Engineering established in the year 1985, develops computer professionals with sound technical skills and desires to revolutionize the IT arena. The courses offered by the Department are B.Tech-Computer Science and Engineering, M.Tech-Distributed Computed Systems, M.Tech-Information Security. The Department has been accredited by the National Board of Accreditation (NBA) of AICTE for 5 years. The Department also offers Ph.D in Computer Science and Engineering.

ACTIVITIES

• Endowment lectures by Academicians and Engineers of National and International repute to augment the students’ knowledge in the high-tech areas of Computer Science and Engineering and Information Technology.

• “ICON” - A National Level Symposium is organized once in three years in which students from several prominent colleges across the country take part thereby exploring their technical and non-technical skills.

• Yearly souvenir “CYBYRUS” released by the students of the department, brings out latest cyber world advances and also several other interesting articles.

LABORATORIES

• Distributed Computing Laboratory
• Wireless LAN Laboratory
• Problem Solving Laboratory
• Applications Laboratory
• Hardware & Troubleshooting Laboratory
• Microprocessor Laboratory
• Research Laboratory
• Information Security Laboratory
CURRICULUM

B.Tech. (Computer Science and Engineering)

The B.Tech. course aims at bringing out future professionals who are equipped with knowledge of latest technologies and serve well to the requirements of the present day computer industry. Students are trained in both the hardware and software paradigms.

PROJECT DOMAIN:

- Ontology
- Internet of Things
- Service Oriented Architecture and Web Servicing
- Networks
- Data Mining and Warehousing
- Software Engineering
- Artificial Intelligence
- Database Management System
- Embedded Systems

M.Tech. (Information Security)

The M.Tech. in Information Security is one of the courses offered by very few colleges in India. It aims at contributing adept experts to the core areas of information security.

Master of Computer Applications (M.C.A.)

The Department of Computer Science and Engineering offers MCA program under the Choice Based Credit System. This system has been formulated keeping in mind the interest of the students, thus offering them flexibility in the selection of electives. Mini projects in every semester help to develop programming skills in various languages/platforms.

Web-enabled Technologies:

- Internet and Java Programming
- Web Technology
- Distributed Computing
ABOUT

"We make ‘IT’ happen"

Since the Inception of Information Technology branch in 2000-01, the department is showing tremendous development in infrastructure and teaching standards to keep the students conversant with today’s technologies. The department is accredited by NBA (National Board of Accreditation) for a span of 5 years. The students are trained to be the IT vanguards and motivated to innovate under the guidance of the faculty. The department takes outstanding care in updating the syllabi with the latest software packages. The curriculum lays emphasis on Computer Science Engineering and Communication Engineering, thus producing Computer Professionals with great potency.

ACTIVITIES

- A Technical Magazine “ExpressIT” and a Newsletter "InfoTimes" are released every year by the students which serve as a platform to exhibit their technical and literary potentials.

- “NCIC” National Conference on Intelligent Computing is conducted to review the latest developments in the area of Intelligent Computing.

- “NEURA” A national level symposium is conducted to create exposure among students and to stage different technical and extra-curricular talents.

- "Fraternitas" an initiative with regard to the Alumni forum of Department of Information Technology.

- Endowment lectures by Engineers and Academicians of National and International repute are conducted to augment the students’ knowledge in the high tech areas of Information Technology.
FACILITIES

Software Laboratory
Advanced Software Laboratory is equipped with 62 Intel i5 processor, 2 GB RAM, Windows 8.1 systems and is designed with projector facilities for seminars and audio-visual sessions.

Multimedia Laboratory
Multimedia Laboratory is equipped with 24 Core 2 Duo @ 2 GHz systems with multimedia software and also Oracle to work on Database Management System.

CASIT Laboratory
CASIT Laboratory is equipped with Xenon @ 2 GHz server and 35 Core 2 Duo nodes installed with Windows 7 and Fedora 8 (dual operating system), Office suite, Multimedia authoring tools like Director, Flash etc.

Digital Laboratory
Digital Laboratory is well equipped with Digital Trainer Kits, VLSI Trainer Kits, Dual Trace Oscilloscope and Microprocessors.

M.Tech. in Information Technology
M.Tech. in Information Technology program provides the highest level of IT knowledge to analyse and provide solutions. The students specialize in web services which is currently a huge trend in application development and the business growth in the world of internet. The main objective of this program is to train students to become professionals of Web services for the high-end jobs in the industry.

Project Areas
- Image Processing
- Middleware Technology
- E-Commerce
- Ad-hoc Networks
- Distributed Computing
- Optical Networks
- Neural Networks
- Language Technology
- Software Engineering
- Multi-Biometrics
- Information Security
- Data Mining
- Multimedia Compression and Coding
- Generic Algorithm
- Complex Event Processing
- Soft Computing
- Software Testing
ABOUT

“No Resistor can drop our potential”

The department of EEE was started in the year 1993. Currently, it offers a B.Tech. program in Electrical and Electronics Engineering, an M.Tech. program in Electrical Drives and Control, and Ph.D program in nearly all specializations of Electrical and Electronics Engineering. The department is well supported in both human resource and infrastructure. The curriculum and syllabi are designed to meet global technical challenges. On the rolls, there are 19 highly qualified faculty members holding doctoral degree and 12 technically qualified members trained on specific skill sets to support the academic and research activities. All the laboratories are well equipped with the state-of-the-art equipment and the best-of-breed infrastructure for laboratory practice and specialized equipment for research. A wide spectrum of research activity is in progress supported with good number of research papers being published every year.

ACTIVITIES

- An active EEE student’s council organizes lectures on the latest trends in Electrical and Electronics Engineering, delivered by eminent personalities in the field.
- Conducting “GRID” - An All India Inter Collegiate Technical symposium once in two years.
- “ELEKTROFAD” — A Technical Magazine keeps the students abreast and well informed with the emerging trends in the technical arena.
- Industrial visits and in-plant training programs groom students into practicing field engineers.
- Active participation of students in national conferences and symposiums provides competitive environment among peers across the country.
CURRICULUM

Core Subjects:
- Electrical Machines
- Transmission and Distribution
- Electromagnetic Theory
- Electronic Circuits
- Linear Control System
- Object Oriented Programming
- Data Structure
- Power Electronics
- Microprocessors and Applications

Elective Subjects:
- Fuzzy and Neural Systems
- High Voltage Engineering
- Power System Economics
- FACTS Controllers
- Power System Restructuring and Deregulation
- Special Electrical Machines

M.Tech. (Electrical Drives and Control)

Core Subjects:
- Power Electronic Circuits
- AC Drives
- DC Drives
- Modern Control Theory
- Special Machines
- Mathematics

LABORATORY

- Electrical Machinery (AC/DC)
- Electrical Measurements, Control and Instrumentation
- Power Electronics and Drives
- Electronic Devices and Analog Integrated Circuits
- Digital Integrated circuits
- Power systems simulation
- Microprocessors, Microcontrollers and Digital Signal processors
- Electrical Wiring Lab

PROJECT WORK

The last two semesters are devoted to identifying and solving real time problems. Currently the emphasis is on contemporary areas of research such as

- Intelligent controllers/estimators for Electrical drives and their implementation in Micro controller /FPGA.
- Wind energy systems
- Power system optimization, stability and economics
- DSP based power electronic systems
- Energy conservation methods-Demand side management
- Study of insulation properties with Nano fillers.
ELECTRONICS AND INSTRUMENTATION ENGINEERING

ABOUT
“Tech brains determined to automate the future world!!!”

The Department of Electronics and Instrumentation Engineering was established in 1998 to cater to the growing demand for qualified technical personnel in the field of Electronics, IT, Process Control Instrumentation and Process Automation. The course curriculum has been drafted after extensive interaction with the industry. State-of-the-art facilities and exposure to cutting edge technologies equip the students with empirical knowledge to be up to date with the emerging trends in the instrumentation field. Distinguished and highly motivated faculty members ably guide the students. Our mission is to endow our engineers with pragmatic skills, so as to enable them to stand up to the challenges of the technical arena.

ACTIVITIES

- “REVELATION” - A National Level Students Technical Symposium organized once in four years.
- “INTRONIX ” - A National Level Students Technical Symposium organized every year.
- “CISMA” - A National Conference on Instrumentation System Measurement and Automation is organized once in three years.
- “CHEMIN” -Endowment Lecture is sponsored by CHEMIN C & I (Control & Instrumentation) Pvt. Ltd. every year.
- “MARAKRITI ” - Robotics Club run by final year students conducts weekly classes for juniors and yearly workshops with the support from faculties and seniors.

LABORATORIES

- Process Control Laboratory
- Sensors and Transducers Laboratory
- Electronic Devices and Circuits Laboratory
- Microcontrollers and Microprocessors Laboratory
- Simulation Laboratory
CURRICULUM

- The core curriculum includes basics of Electronics, Measurement and Instrumentation to state-of-the-art areas of design and fabrication of Instrumentation hardware, development of interface cards for PC based measurements, implementing measurement systems in Virtual Instrumentation Platform, Instrument Interface software development, developing PLC software for real time applications, Embedded solutions for Instrumentation, Instrument automation, Instrument servicing and calibration.
- Electronics and Electrical Instrumentation, Measurement techniques, control systems drill basic skills into the students to build a strong foundation. Industrial Instrumentation, Process Control and
- For expertise in Electronics, courses like VLSI, Linear and Digital Integrated circuits, Electronic devices and circuits and Digital Signal Processing are offered to the students.
- Computer control of process laboratory trains the students in developing PC & PLC Software for real time applications

- Programming skills are developed by providing exposure to C, C++ & Data Structures.
- Special Emphasis is laid on simulation studies using packages like MATLAB, PSPICE and SABER to complement the theoretical background.
- Allied subjects such as Thermodynamics, Fluid Mechanics and Electrical Technology are incorporated to provide all round understanding of a plant’s operation.
- Instrument Calibration and Servicing experiments are given to students to train them to cater to the industrial needs.

M.Tech. (Instrumentation Engineering)

Core Subjects:

- Process Control
- Bio-medical Instrumentation
- Nano Instrumentation
ABOUT

“The industrial journey in harmony with nature”

The department of Chemical Engineering was established in the year 1998 with a vision to impart quality education to serve the needs of the industries and society. This department is the sixth Chemical Engineering Department in the Government / Government aided sector in the region of Tamil Nadu and Puducherry. The department offers a B. Tech course in ‘Chemical Engineering’ with an annual intake of 30 students in the first year and 5 students in the second year through lateral entry scheme.

The department is steered to achieve the pinnacle of excellence by a team of highly qualified and dedicated faculty members, whose areas of specialization include petroleum and petrochemicals, process control and simulation, energy technology, process engineering and design and supercritical extraction.

ACTIVITIES

• An active student forum ACES (Association of Chemical Engineering Students) frequently arranges technical lectures by experts from industries and academia.

• A national level students technical symposium – ‘TIELINES’ is conducted once in three years.

• In addition, students are also encouraged to participate in several technical meets conducted by other institutions all over India. Students have brought laurels to the department by securing top positions in these meets.

• The ACES also organizes a number of personality development programs like Speech Craft and Group Discussions to improve the overall personality of the students.

LABORATORIES

The department houses 8 well-equipped laboratories (listed below) having a total of about 100 experiments covering all the core and specialized areas of chemical engineering

• Transfer Operations Laboratory (Heat and Mass Transfer)
• Momentum Transfer Laboratory
• Mechanical Operations Laboratory
• Process Control and Simulation Laboratory
• Chemical Reaction Engineering Laboratory
• Energy Technology Laboratory
• Technical Analysis Laboratory
• R & D Laboratory
CURRICULUM

CORE SUBJECTS

- Chemical Engineering Thermodynamics
- Process Calculation and Momentum Transfer
- Heat Transfer Operations
- Mass Transfer Operations
- Energy Technology
- Chemical Reaction Engineering
- Chemical Process Industries
- Process Equipment Design
- Mechanical Operations

ELECTIVES

- Entrepreneurship Systems Engineering
- Petrochemical Technology
- Paper and Pulp Technology
- Petroleum Refinery Engineering
- Process Modeling and Simulation
- Bio Chemical Engineering
- Advance Process Control
- Pollution Control in Process Industries
- Chemical Process Optimization
- New Separation Techniques
- Risk and Safety Management

PROJECT AREAS

Students are assigned an experimental / design project work that needs to be carried out under the guidance of a faculty member. This project, spanning over two semesters, will give an opportunity to the student to work in a team and investigate some complex chemical engineering problems using all the theoretical knowledge gained in the course. During the course of the project work, the student will also get an opportunity to learn some of the new experimental and simulation techniques.