



CPCL POLYTECHNIC COLLEGE

*Approved by AICTE, New Delhi and
Directorate of Technical Education, Tamilnadu.*



Brochure

www.cpclpolytechnic.com

OVERVIEW

CPCL Polytechnic College, founded by CPCL Educational Trust, stands out as a premier center of technical learning with a mission of pursuing excellence in technical education. The institution, with its diverse and dynamic community of students offer a distinctive combination of some of the finest diploma courses, accomplished faculty, best learning facilities and state-of-the-art campus set on enriched environmental surroundings. CPCL Polytechnic College provides a variety of stimulating environment for intellectual development, free thinking and personal growth, challenging its

students with dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up responsibilities in the society.

Chennai Petroleum Corporation Limited (erstwhile MRL) one of the major corporations, having a dominant presence in South India formed the CPCL Education Trust in April 1988 with a view to upgrade the technical knowledge of the serving personnel in the Petroleum and Petro-Chemical Industries and create a Centre for Technical Excellence in the field of Petro-Chemical, Mechanical Engineering and Electronics & Communication Engineering.



Vision

To impart sound and updated vocational training to the educated youth and collaborate with other Institutions having similar objectives and activities. CPCL Polytechnic College will impart futuristic technical education and instill high patterns of discipline through our dedicated staff, who shall set best educational standards, making our students technologically superior and ethically strong, who in turn shall improve the quality of life of the human race.

Mission

CPCL Polytechnic College is committed to develop a culture of technology, generate a steady stream of qualified, competent, dedicated and disciplined Diploma engineers and to upgrade the skills of the serving personal in their field of study. The instituion concentrate on individual attention, world-class quality education and take care of character building.

Objectives of the CPCL Polytechnic College

- ◆ To provide the students with Quality Education.
- ◆ To make a positive difference to society through education.
- ◆ To empower students from across socio economic strata to level the playing field.
- ◆ To provide excellent infrastructure facilities and well qualified teaching faculty.
- ◆ To raise itself as a center of excellence in technical education through integrated academic approach and industrial consultancy services.
- ◆ To provide other opportunities, which will enhance the personality development, individual discipline, spiritual awakening, moral values and social awareness.
- ◆ To be a centre of excellence in education in emerging technologies in tandem with industry and industry trends.
- ◆ To nurture talent and entrepreneurship and enable all-round personality development in students.

COURSES

All the courses are affiliated to Directorate of Technical Education (DOTE), Chennai and approved by the All India Council for Technical Education (AICTE), New Delhi. The courses follow the curriculum of Directorate of Technical Education (DOTE), which upgrades the curriculum on a regular basis. All the programs are conducted on semester basis. The teaching methodology focuses on classroom lectures, guest lectures, self-learning, assignments, projects, practical sessions, periodical evaluation and feedback.

The diploma courses are of 6 semesters (3 year) duration. An academic year consists of two semesters. The (Odd) Semester begins in June and the Winter (Even) Semester in December. The academic schedule mentioned in the academic calendar will be strictly followed.

The following courses are offered

- ◆ Diploma in Petro Chemical Engineering (DPCE)
- ◆ Diploma in Mechanical Engineering (DME)
- ◆ Diploma in Electronics and Communication Engineering (DECE)

Diploma in Petro Chemical Engineering (DPCE)	Diploma in Mechanical Engineering (DME)	Diploma in Electronics and Communication Engineering (DECE)
<p>Petro Chemical engineering is one of the finest branches of engineering which deals with the Petroleum, Petrochemical, Biochemicals, Nanomaterial, Fuel cell etc. Petro Chemical engineering course mainly involves Unit Process, Unit Operations, design of chemical manufacturing equipments like reactors, distillation, absorption and extraction columns using computer software. In addition, safety and environmental pollution control also are being dealt.</p> <p>The Petrochemical engineering diploma graduates have got good opportunity in Petroleum, chemical industries, research organization, food and bio chemicals and other related industries like paints, polymers, pharmaceuticals etc.</p>	<p>Mechanical Engineering is one of the core field of Engineering, covering Thermal, Design and Production streams from automotive to production, from engine technology to air conditioning and from designing to fabricating, Mechanical engineering has a lot of scope for Research, Development and Employment. Hence the focus of the department is to bring about an all round development of the student to create a strong foundation for generating research and technical professionals in the field of Mechanical Engineering.</p> <p>The department has the state of art facilities for various level of laboratories and classrooms. The department has a well equipped centralized workshop facility which caters the needs of various departments.</p>	<p>The Department of Electronics and Communication Engineering (DECE) was established in the academic year 2007-2008 with the vision of developing the department as a Centre of Excellence in technical education, in the field of Electronics and Communication Engineering and make the students blossom into meritorious and self-disciplined engineers by hard work.</p> <p>Our mission is to develop innovative and simple instructional material to drive the concepts into the minds of students and infuse scientific temper in the students and guide them towards technical education in communication engineering. It is also to grow a committed group of competent teachers striving for excellence to provide best learning experience in the field of Electronics and Communication Engineering.</p>

INFRASTRUCTURE

CPCL Polytechnic College is housed in a 20 acres lush green campus at Manali, Chennai. The building has spacious class rooms, well equipped laboratories, workshops with modern machineries, drawing hall, state of the art computer centre, well stocked library, auditorium etc. The playground and recreational facilities are provided to create a congenial environment for students.



Computer Centre

The college has a spacious, well equipped two numbers of computer centre with modern computing facilities with internet connectivity.



Library

The Laboratory is furnished with 7000 volumes of books, 6 National journals, 50 Educational CDs and 2 Dailies and also a member of National Digital Library New Delhi.



English Communication Laboratory

Good communication skills are indispensable for the success of any professional.

OTHER FACILITIES

- The college is provided with HT Power facilities.
- The college has 125 KVA Genset
- Smart board
- High Speed internet connection
- Solar Power equipped classroom



LABORATORY

Laboratory sessions are given utmost importance at CPCL Polytechnic College. All the students are expected to be regular and learn the practical aspects of the subject and develop the necessary skills to become professionals.

In order to facilitate interaction among the students and develop team spirit, the students are expected to carry out experiments in groups. The students should come prepared for each laboratory class.

The students are expected to:

- ◆ Read and understand the theory behind the experiment in advance
- ◆ Come to the lab in time with prescribed Dress Code and safety measures
- ◆ Bring the observation note book
- ◆ Complete the record as per the completion of experiments
- ◆ Laboratory plays a vital role for the Technical Students. The students are well trained practically with modern machineries and equipments. Special attention is given to each and every student to operate and handle the concerned experiments by the faculty members.



Distillate testing Lab

WORKSHOPS

CPCL Polytechnic College offers training workshops, aiming to introduce current issues and facts about the technology and environment to the students and faculties to have practical training sessions and to invite other Polytechnic Colleges to indicate their requirements in the context of their institutions. The workshops are designed as a forum for diploma students and faculty with an interest in problems and solutions in the field of engineering. Faculty, students, and a limited number of outside speakers will discuss on a specific topic in progress. Student participants will be encouraged to develop and present their ideas in the workshop.



Electrical Lab



Thermal Lab



CIM Lab



Lathe workshop

GUEST LECTURES

- ◆ In today's environment, hoarding knowledge ultimately erodes our power. If we know something very important, the way to get power is by actually sharing it. At CPCL Polytechnic College, emphasis is given on not only making the student academically brilliant, but true leaders and team players, thus preparing them for the real life corporate world.
- ◆ We Invite Eminent personalities from various Industries and Institutions to lend valuable Information from their experiences to our students. Guest Lecture is a way of enriching our students with the latest updates of the Industries and Technicalities.



SEMINARS

- ◆ CPCL Polytechnic College conducts Seminars and Workshops on different topics regularly. It has the function of bringing together small groups for recurring meetings, focusing each time on some particular subject, in which everyone present is requested to actively participate.



- ◆ At CPCL Polytechnic College, Seminars are essentially a place where assigned readings are discussed, questions can be raised and debates can be conducted. It is relatively informal, at least compared to the lecture system of academic instruction

INPLANT TRAINING

- ◆ To enrich the practical knowledge of the students, the CPCL Polytechnic College insists the students to offer the in-plant training. In this training, students will have to study a problem in industrial perspective and submit the reports to the university. The training period will be 4 to 6 weeks. Generally the students will go for their in-plant training during their semester vacations.
- ◆ Such in-plant training will provide an industrial exposure to the students as well as to develop their career in the high tech industrial requirements.

- ◆ CPCL Training: Every year CPCL offers Inplant training and Industrial visit for the students to update their knowledge in their field of study. This enables the students to have an effective understanding of concepts and fundamentals of engineering. Guest Lecture: Extended support to the students, from the outside personalities is offered through Guest Lectures.

INDUSTRIAL VISITS



- ◆ Industrial visit is a part of the Education, during which students visit companies and get insight of the internal working environment of the company. The industrial visit provides an insight on how companies work and also useful information related to the practical aspects of the course which cannot be visualized in lectures.
- ◆ CPCL Polytechnic College offers opportunities for all the students to interact on a consistent basis with Industries by way of visits to many renowned companies.

FORUMS

- ◆ National Service Scheme
- ◆ Red Ribbon club & Youth Red Cross
- ◆ Tamil IlakkiyaMandram
- ◆ Global Language Forum
- ◆ Anti Ragging Committee
- ◆ Women's Cell
- ◆ Committee for SC / ST Students





PLACEMENT

The objective of the Placement Cell is to identify the talents available among the students and nurture and harness them further and offer guidance to choose a bright and right career.

The placement related activities are carried out by Placement committee. It comprises eminent faculties of all departments. The Institution helps each student in exploring placement opportunities by inviting various reputed companies to the campus to conduct campus interviews and find suitable jobs for the skills available among the students who are in the final year of the Course and are likely to finish Diploma at the end of the academic year.



TRAINING & SKILL DEVELOPMENT

Apart from the engineering skills, industries today look for young engineers who possess:

- Strong Engineering Fundamentals
- Communication Skills/ Soft Skills
- Project/ Program Development Skills
- Ready for Deployment and be productive from Day One
- CAD software skills
- Business Etiquette
- Willingness to master new skills and technology

A training programme allows student to get the practical knowledge and strengthen the learned subject. This training the student to be employee needs in the industry. This helps the student to get placement and be aware of the industries need. A skill development program to brings all students to a higher level takes them to similar skills and knowledge.



OUR SUPPORTING ORGANISATIONS



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