

# P.T.Lee CHENGALVARAYA NAICKER POLYTECHNIC COLLEGE



(formerly C.N. Technical Institute & C.N. Polytechnic)

(A GOVT. AIDED INSTITUTION. Estd : 1886)

Approved by AICTE New Delhi & Affiliated to DOTE Tamilnadu

(Co-Education)

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## PROSPECTUS



**VALLAL P.T.Lee CHENGALVARAYA NAICKER**  
**Founder**  
**(10.04.1829 - 27.10.1874)**

Managed By : P.T.Lee Chengalvaraya Naicker Trust

## ABOUT THE TRUST

Vallal P.T.Lee Chengalvaraya Naicker was born on 10th April 1829 to Sardar Bahadur Perumal Naicker and Theivanai ammaiyan. He had his education in then Presidency School (Now Presidency College) He was a visionary and strongly believed that education would be the empowerment and commercial success would catapult the people in economic ladder. He had concern for the poor and downtrodden of all people in general and Vanniyakula Kshatriya in particular. He treading into the trading activity of export of spices which was then very lucrative with lot of scope to fulfill his future ambition.



**Vallal  
P.T.Lee Chengalvaraya Naicker**

Thus in 1866, when the people of Orissa were perishing in famine, the then British Govt was struggling to cope with the situation, Mr Naicker rose to the calling. Benevolent and Philanthropic Chengalvaraya Naicker pooled all his resources and donated wealth, great amount of food grains, clothing and other essentials to the Rulers to help the famine relief. The then British Govt, The Governor of Madras State, His Excellency Lord Napier wrote a letter to the British Parliament on 28.08.1866 eulogizing and appreciating the timely assistance of the Philanthropist Chengalvaraya Naicker.

The great man attained the lotus feet of Lord Parthasarathy Swamy in the year 1874 and thereby he lived up to 45 years. While he was alive in between 1870 & 1873 he wrote a WILL and Codicil bequeathing all his earnings and belongings of landed property and moveable assets to form a Charitable Trust. The formation of charitable Trust was conceived by benevolent man mainly for the purpose of imparting education, extending free medical facilities and establishing orphanage home and asylum for economically weaker and downtrodden society.

In 1874 a Trust in the name of P.T. Lee Chengalvaraya Naicker Trust was formed and had been under the control of Pachaiyappa's Charities. In 1996, as per the orders of Hon'ble Supreme Court of India this Trust started functioning as a separate entity. At Present our Trust is being administered by a team of nine eminent Trustees drawn from different walks of life and who were holding very high positions in the past. Presently the trust board is headed by Former High Court Judge as Chairman P.Kalaiyarasan duly appointed by High Court of Madras.

# **BOARD OF TRUSTEES**

## **Chairman**

**Hon'ble Thiru Justice P. Kalaiyarasan,**  
Former Judge, High Court of Madras.

## **Board of Trustees**

- **Thiru. V.Chandrasekaran, IAS.,(Retd.)**
- **Thiru. S.Sathapillai, District Judge(Retd.)**
- **Dr. R.Kannaiyan, M.B.B.S., M.D.,**
- **Tmt. S.Renuka, M.A., B.Ed.,**
- **Er. H.Venkatesh, B.E., M.E.,**
- **Dr. B.Aristatile, M.Sc., M.Phil., Ph.D.,**
- **Thiru. M.Rajendran, M.Com.,**
- **Thiru. MN.Vijayasundaram, M.A.,**

## **Secretary**

**Thiru. M.Sambasivam, B.Sc., B.L.,**

## **Director**

**Prof. Dr.Arularasu, M.E., Ph.D.,**

## **Principal**

**Dr. M.Venkatraman, M.E., Ph.D.,**



**Members From Left to Right :**

Thiru. M.Rajendran, Dr. B.Aristatile, Tmt. S.Renuka, Dr. R.Kannaiyan, Thiru. V.Chandrasekaran, IAS.,(Retd.)  
Thiru Justice P. Kalaiyarasan(Chairman), Thiru. S.Sathapillai, Thiru. MN.Vijayasundaram, Er. H.Venkatesh

# ABOUT THE INSTITUTE

The estate of Chengalvaraya Naicker has been under the management of the board of the Trustees of Pachaiyappa's charities. After, setting aside the funds required for personal allowances religious charities, maintenance of the choultries, the balance of income was applied to establish a Technical School in 1886, bearing the name of Chengalvaraya Naicker (CNT). This School was later developed into a Technical Industrial Institute in 1906.



In 1939, the Institute was affiliated to the State Board of Technical Education as a recognized Institution which could train up candidates for LCE, LEE and LME qualification.

We proudly said that this is a the First Technical institution in India.

This Institute continuously impart education in Civil, Mechanical and Electrical Engineering. Being prime location there was a demand to start 'part time' classes to cater to the needs of working persons. With a total strength of 180 for regular 'full time' classes, 'part time' diploma classes in Civil, Mechanical and Electrical Engineering which were started with an intake of 120 from 1980 onwards.

In addition to the existing Civil, Mechanical and Electrical Engineering Diploma courses, Diploma in Electronics and Communication Engineering was also started from 1996 with an intake of 40 students under the programme of World Bank assistance. A multi storeyed (3 floors) building was constructed with a total floor area of 9000 sq.ft. For electronics and communication branch and was inaugurated in the year 1998.

A new Diploma course in Computer Engineering under self supporting scheme was started in the academic year 1999-2000, with an intake of 40 and Architectural Assistantship and Mechanical Engineering(Production )in 2004. The Campus has a total land area of 8.275 acres with modern buildings to the extent of 55,000sq.ft.

In the place of Architectural Assistantship and Mechanical Engineering (Production), a new Diploma course in Electronics & Communication Engineering under self supporting scheme was started in the academic year 2007-2008, with an intake of 60 students.

In the place of Diploma course in Electronics & Communication Engineering, a new Diploma course in Electrical & Electronics Engineering under self supporting scheme was started in the academic year 2023-2024, with an intake of 50 students.

## VISION

Exploring students potential in various fields of engineering and make them competent to deal with the latest trends in technological development.

Branding our Institution as one of the model polytechnic college.

Benefitting the students with job oriented courses in addition to syllabus-oriented classes.

Producing competent and capable engineers globally.

## MISSION

Promotion of academic excellence, cultivating self-discipline and high ideals for total personality development.

Converting a novice into a competent technologist possessing unsurpassed skills to conquer future technology globally.

## OUR MOTTO

**There is no substitute for hard work**  
Labor omnia vincent

## MANDATE

P.T.Lee Chengalvaraya Naicker Polytechnic College, a Govt. Aided Institution, offers value based technical education in diploma engineering to candidates selected as per the state prescribed norms.

The syllabus is framed by the Directorate of Technical Education to satisfy the needs of Industries.

The Institution is expected to fulfill all Govt. Rules and Regulation. It is administrated by a Governing Council and has the responsibility to uplift the students community by offering excellent coaching, consultancy placement and other related service.

## QUALITY POLICY

We impart quality education & training in engineering & technology of international standards.

We Optimize institutional facilities through Self Supporting Scheme through Consultancy and also through Continuing Education.

We meet the student's needs for acquiring latest technology through continuing Education.

We achieve excellence in technical education continuous self-improvement and teamwork.

We felicitate and encourage faculty and support staff to up date their knowledge and skills to suit the latest syllabus and technology.

### **Diploma Courses (Full Time) –Aided- Duration 3 Years:**

- ☞ Civil Engineering
- ☞ Electrical and Electronics Engineering
- ☞ Mechanical Engineering
- ☞ Electronics and Communication Engineering

### **Diploma Courses (Full Time) - Self Supporting Scheme(SSS)-Duration 3 Years:**

- ☞ Computer Engineering
- ☞ Mechanical Engineering
- ☞ Electrical and Electronics Engineering

### **Diploma Courses (Part Time) - Self Supporting Scheme(SSS)-Duration 4 Years:**

- ☞ Civil Engineering
- ☞ Electrical and Electronics Engineering
- ☞ Mechanical Engineering

## **ADMISSION - ELIGIBILITY CRITERIA**

### **I Year (3 years duration)**

Passed 10th Standard/ SSLC Examination or any other equivalent qualification.

### **II Year (2 years duration) (Lateral Entry)**

Passed 10+2 Examination with Physics / Mathematics / Chemistry / Computer Science / Electronics / Information Technology / Biology / Informatics Practices / Biotechnology / Technical Vocational Subject / Agriculture / Engineering Graphics / Business Studies / Entrepreneurship (Any of the Three) (or) 10th + 2 years ITI.

### **PART TIME (4 years duration)**

I Year - SSLC Pass, Industrial Experience considering as per DOTE Norms SSLC Pass and ITI (NCVT) 2 Years - No Age Limit Other state candidate must have resident at Tamil Nadu for a period of five years.

## **DEPARTMENT OF BASIC ENGINEERING**

### **VISION :**

To achieve our goal of becoming a model polytechnic institution, we focus on offering both syllabus-oriented classes and job-oriented courses to equip students with the skills needed to excel in engineering fields and adapt to the latest technological developments.

### **MISSION :**

Providing excellence in Engineering education, Fostering ethical values and a strong sense of responsibility among students and staff. Building a team of qualified, passionate faculty dedicated to deliver both curriculum based education and career oriented training. Developing and maintaining cutting edge infrastructure that supports innovation and hands on learning.

We are glad that our Basic Engineering Department was established before Independence in 1939. As we are the Basic, we provide the Basic knowledge for the Diploma students. We deal with Tamil Marabu, Communicative English, Mathematics, Physics, Chemistry and Engineering Graphics. We have Experienced and highly Qualified faculty members to expedite the students.

The students are admitted in First year based on the SSLC (10th standard) qualification and the Communal roaster followed by the Government of Tamil Nadu.

We have well equipped labs for English, Physics, Chemistry apart from the common Computer Labs.



Drawing Hall



Language Lab



First Year class room



Physics Lab



Chemistry Lab



Personality Development Programme



Basic Chemistry Lab



Basic Physics Lab



Spherometer Working Model



Earlier Form of Wheatstone network to find the unknown resistance (Post Office Box)



Weighing box used in physical balance to measure the mass more precisely

# DEPARTMENT OF CIVIL ENGINEERING

## **VISION :**

To impart knowledge and excellence in Civil Engineering and latest trends in technology with global perspectives to our students and to make them ethically strong engineers to build our society.

## **MISSION :**

Providing effective Teaching – Learning Process and Industry exposure. Providing latest knowledge and technologies in growing areas of civil engineering. To inculcate social and Ethical Values.

Welcome to the Civil Engineering Department at P.T. Lee Chengalvaraya Naicker Polytechnic College, a pioneer in technical education. Established in the year 1939, our department combines a rich history with a commitment of providing comprehensive education in civil engineering, preparing students for a successful and impactful career in the field.

## **Academic Programs:**

Explore our Diploma programs in Civil Engineering, designed to equip you with the practical skills and theoretical knowledge required in the dynamic field of civil engineering. With an intake of 60 regular students and 40 part-time students per academic year, we foster a diverse and inclusive learning environment.

## **Faculty:**

Meet our dedicated faculty members, experts in their field, who bring a wealth of industrial experience and academic knowledge to the classroom. They are committed in guiding and inspiring the next generation of civil engineers.

## **Facilities:**

Immerse yourself in our well-equipped laboratories and computer facility, where you'll have the opportunity to apply classroom concepts to real-world scenarios.



**CAD Laboratory**



**Strength of Materials Laboratory**



**Survey Laboratory**



**Transportation and Construction Practice Laboratory**



Construction Laboratory



Hydraulics Laboratory



Strength of Materials Laboratory

These laboratories are designed to enhance your practical skills and provide hands-on experience in various aspects of civil engineering.

### Internships:

Benefit from hands-on experience through internships at Diagonal CAD Centre, a leading institution in computer-aided design. Additionally, our students have the opportunity to intern with various construction companies, providing exposure to diverse projects and industry practices.

### Student Achievements:

Celebrate our students' accomplishments, including successful paper presentations in other colleges and active participation in seminars. Our students consistently showcase their academic skills and enthusiasm for staying abreast of the latest developments in civil engineering.

### Placement Opportunities:

Explore exciting placement opportunities facilitated by our strong network of industry connections. Many of our students have secured placements in renowned companies such as Mc Dermott, CAD Software India International Pvt Ltd., L&T, ARS Steels and Put. Ltd., and various other leading construction companies. The salary package for our graduates typically starts from ₹15,000 to ₹40,000 per month, reflecting the recognition of their skills and knowledge in the industry.

### MoU and Industry Collaboration:

Experience the advantages of our Memorandum of Understanding (MOU) with leading companies and organizations. Our collaborations, spanning decades, provide additional resources, research opportunities, and potential pathways for internships and employment.

## **Student Life:**

Engage in a vibrant student community that goes beyond academics. Participate in various sports activities that promote teamwork and physical well-being. Explore your interests by actively involving yourself in symposiums and seminars, where you can exchange ideas and stay informed about the latest advancements in civil engineering. These extracurricular activities complement your academic journey, fostering a holistic and enriching experience during your time at P.T. Lee Chengalvaraya Naicker Polytechnic College.

## **Survey Camp:**

Civil students in full time and part time are taken for field survey every year for 4 days to places like Kundrathur, Thiruttani or Yelagiri. This gives hands-on training and get good field exposure in surveying.



**FULL TIME SURVEY CAMP IN KUNDRATHUR**



**PART TIME SURVEY CAMP IN YELAGIRI**

We look forward in welcoming you to the Civil Engineering Department at P.T. Lee Chengalvaraya Naicker Polytechnic College.

# DEPARTMENT OF MECHANICAL ENGINEERING

## VISION :

To provide quality education to the students of Mechanical Engineering so as to make them employable and to enhance their technical skills.

## MISSION :

To cultivate dynamic learning environment that empowers students with fundamental and advanced mechanical Engineering knowledge.

To foster creativity and equip them with hands on skills to meet real world challenges while upholding ethical standards and sustainable principles.

To Support and promote excellence in teaching, research and innovation encouraging collaboration among faculty members and students.

To develop and maintain the state of the art facilities, Laboratories and technological resources that enhance research and education.

The Mechanical Engineering department is one of the oldest, largest and the most active department which is in existence since the inception of the institution (1939). The faculty members of the department are highly qualified and very dedicated to their profession. Admission to the department is done based on the rank list prepared as per their SSLC marks. The department is noted for its credible performance and support facilities some of which are elaborated.

- Established since 1939 as Diploma Full Time course with 60 seats.
- Part Time course introduced in 1981 with 60 seats.
- Mechanical Production Engineering course started in 2004 under Self Supporting Scheme.
- Mechanical Production Engineering was merged into Mechanical Engineering, thus strength increased to 120.

During the Semester vacations, the students are required to undergo Internship training. This helps the students to acclimatize themselves to the industrial environment apart from helping them to understand the theoretical aspects to a greater extent.

The students undergo project work inside the college with the knowledge that has been accumulated by them during their course of study. The faculty members continuously monitor and guide the students so that they bring out a very substantial project. Most of the Project works are useful to Society.

## **History**

The workshop section is the oldest section in which bomb shell was fabricated during the Second World war. A full-fledged printing section was in existence where the notebooks and books for the students were printed here.

The Workshop received its power Supply required to run the machines from the Boilers which where been established near by the section. The Boiler generated steam, which was utilized to run the steam engine, which in turn supply power to the machines through Belt drives.

The students are given hands on training on various machine tools which gives a confidence to the students in handling the machine and utilizing it during their project work.



Foundry Section



Manufacturing Technology Lab



Vertical Steam Boiler  
made in England



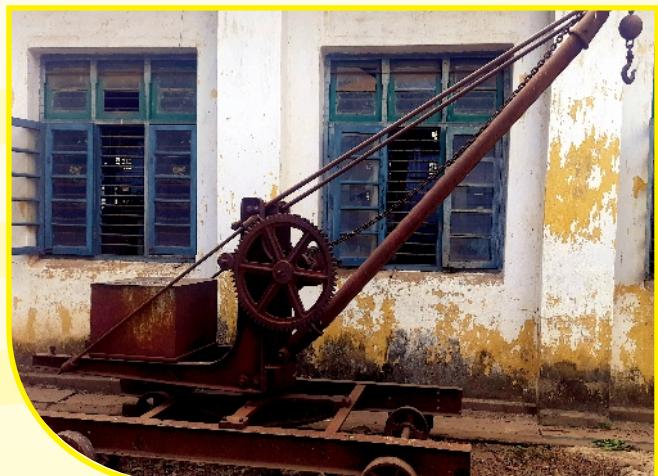
Horizontal Steam Boiler  
made in Madras



Steam Engine



Rotary Engine



Mobile Crane

## LABORATORY FACILITIES



Mechanical CAD Lab



Central Workshop



Automobile Technology Lab



Computer Aided Manufacturing Lab



Thermal Engineering Lab



Process Automation Lab

## Organized National Conference



NCRDMEMT - 2018



NCRDMEMT - 2020

# **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

## **VISION :**

To be a Department of Excellence to provide value-based engineering education and impart skills in the field of Electrical and Electronics Engineering to create dynamic electrical and electronics engineers with active and updated learning, social responsibilities and ethical values to meet the global needs.

## **MISSION :**

Mission 1:To offer value based technical education by adopting best engineering practices to improve their academic performance, to enhance their employability and to serve the society.

Mission 2:To develop strong linkage with industry and institute to help the students to meet industry requirements.

Mission 3:To encourage students participation in co-curricular and extra-curricular activities to reveal their moral values, teamwork, leadership qualities and life skills.

## **Profile of the Department :**

The Electrical and Electronics Engineering department was started in the year 1939 as premier institute in the field of technical education, with three year full time diploma program having sanctioned intake of 40 students.

Also the four year part time diploma program on Electrical and Electronics Engineering was started in the year 1980 with an intake of 40 students. At present the sanctioned intake for Fulltime course is 120 (Aided Course 60+ Self Supporting Course 60) and the Parttime course is 40.

The first Electrical Motor was purchased in the year 1931 and the first Electronic Equipment Oscilloscope was purchased in 1970 and First Personal Computer was purchased in 1986.

The “Electrical and Electronic Engineers” are the innovative brains that have contributed in creating some of the most advanced technologies that the world has seen. If you want to contribute and expand the boundaries of Various Technologies to invent new methods; EEE is the course of study for you.

## **Faculties Details :**

The faculty members are qualified, highly committed, self-motivated and well trained to deliver the best teaching-learning process to the students, catering to the needs of an industries and the society. We are honored with such efficient personalities in our Electrical and Electronics Engineering Department, with the faculty student ratio of 1:25.

## **Electrical Department Laboratories :**

The EEE department has the best laboratory infra structure with free access to the students and we prepare them for the industrial needs and industrial practices. The department is equipped with laboratories of:

- (1) Electrical Machines Laboratory.
- (2) Electronics Laboratory.
- (3) Electrical Wiring and Winding Laboratory.
- (4) Computer Laboratory.

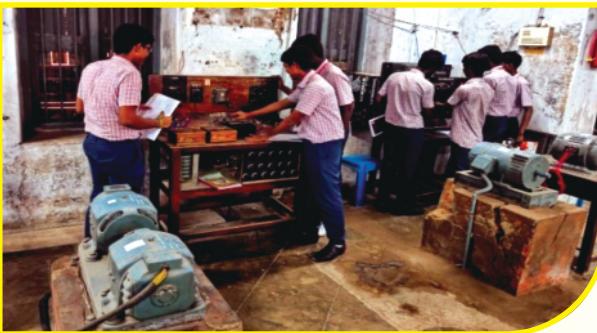


**3 KW shunt Generator Coupled with 5 HP Shunt motor (1966)**



**Hopkinson Testing set  
2 HP DC machines (1935)**

### LABORATORY FACILITIES



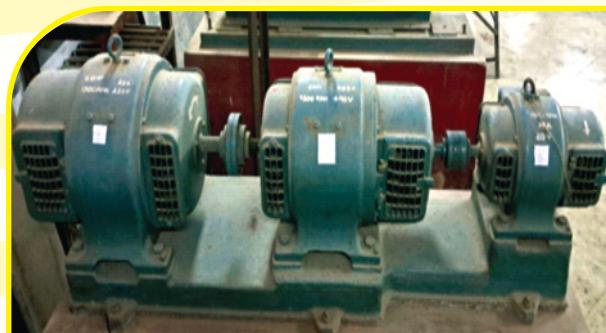
**Electrical Machines Laboratory**



**Electronics Laboratory**



**Computer Laboratory**



**Alternator set, 6HP D.C. Shunt Motor Coupled to 3 KVA Alternator and shunt excitor (1931)**

### Places of Industrial Visit & Educational Tour

#### Industrial Visit :

For all semester industrial visits are arranged for both Second and Final year EEE students. Through this industrial visit students are updating their knowledge by seeing the activities of an Industry lively. They are able to bring out the liveliness of the advanced technology for their growth in forthcoming coming days:

Name of the Industry	Name of the Industry
<ul style="list-style-type: none"> <li>* EMU Locomotive Workshop, Tambaram, Chennai.</li> <li>* AC Locomotive Shed, Puliamangalam, Arakonam, TN.</li> <li>* North Chennai Thermal Power Station, New Attipattu, Chennai.</li> <li>* 400 kV Distribution Sub-station, Sriperumpudur, TN.</li> <li>* Madras Atomic Power station, Kalpakkam, TN.</li> </ul>	<ul style="list-style-type: none"> <li>* Integral Coach Factory, Chennai.</li> <li>* National Institute of Ocean Technology, Pallikaranai, Chennai.</li> <li>* Nippo Batteries, TADA, AP.</li> <li>* Indian Space Research Organisation, SHAR, Sriharikota, AP.</li> <li>* Heavy Vehicle Factory, Avadi and More...</li> </ul>

## Industrial Visits:



Integral Coach Factory, Chennai



NCTPS, Chennai



AC Loco Shed, Arakonam

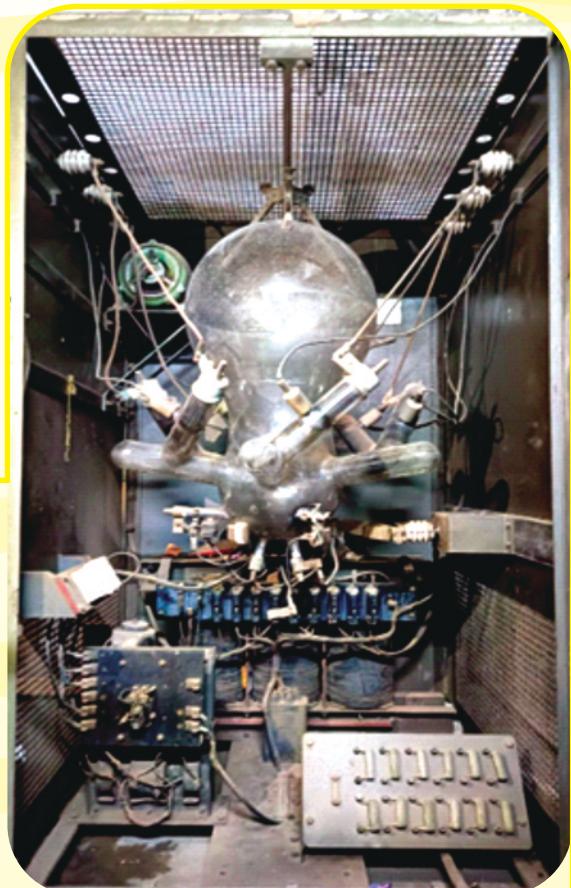


ISRO, Sriharikota, AP



NIOT, Chennai

10KW Mercury Arc Rectifier 400v, 3 phase, 50amps, 2 wire DC complete with transformer cubicle purchased for our institution on 10.10.1947. It's purchased from England and exclusively manufactured for our institution. It's Speciality is mainly Zero voltage regulation. Zero voltage regulation means output voltage of the mercury arc Rectifier is maintained constantly irrespective of percentage of loading.



Mercury Arc Rectifier

## **Educational Tour:**

Educational Tour is Arranged to Visit Hydro Power Plant at Ooty and MRC at Coonoor.



**Madras Regimental Centre, Coonoor**

## **In-plant Training and In-house Training :**

The students are asked to undergo In-plant training at various Industries and Skill Development Centres during summer / winter vacations for a minimum of two, 5 days training, to enhance their technical skills and various industrial practices.

### **In-Plant Training :**

Name of Industry, Skill Dev. Centre	Name of Industry, Skill Dev. Centre
<ul style="list-style-type: none"><li>* Marina-CAS Skill Development Centre, Chennai-600028.</li><li>* M/s. Balmer Lawrie Limited, Chennai</li><li>* M/s. T.M. Electricals &amp; Engineers, Chennai – 600033.</li><li>* M/s. I.S. Automation Private Limited, Chennai – 600077.</li><li>* M/s. Tec-Sol India Limited, Chennai – 600122.</li><li>* M/s. Fuji Electric India Private Limited, Chennai –600096.</li></ul>	<ul style="list-style-type: none"><li>* M/s. Ashok Leyland Technical Centre, Chennai – 600103.</li><li>* M/s. Chennai Metro Rail Limited, Chennai – 600101.</li><li>* M/s. Rensol Power Private Limited, Chennai – 600042.</li><li>* M/s. Ohm Electricals, Chennai – 600098.</li><li>* M/s. Shanthi Electricals, Chennai – 600106.</li><li>* M/s. Vijay Shanthi Pumps, Chennai 600106.</li><li>and more ...</li></ul>



# **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

## **VISION :**

To impart quality education by providing job oriented courses in addition to syllabus oriented classes thereby producing competent and qualified Diploma Engineers globally with social responsibility.

## **MISSION :**

Promoting academic excellence, cultivating self discipline and high ideals for total personality development and socially responsible.

Educating the faculty in the recent trends in Electronics and communication Engineering and teaching methodologies so as to provide better interactive environment for the students to achieve their goals.

Providing opportunities to promote leadership in students through various curricular and extracurricular events.

The Department of Electronics and Communications Engineering became a part of this oldest institution in the year 1996 under World Bank Scheme. The main focus of the ECE department is to impart the world class standard of technical education in the field of Electronics and Communication for the benefit of the society. In a very short span of time since the Department was launched in our College, it has made a name for itself through Workshops, Performance in the Examinations and Placement. The Curriculum adopted is of 'Semester System' and the course is affiliated to DOTE (Directorate Of Technical Education). Student intake is 60 from first year and 6 lateral entry in second year. The Course has access to enhance the learning, student Perspective and experience to develop a specialization in areas of 'Electronics and Communication Engineering'. Classroom learning is complemented by practical in well equipped labs, projects and hands-on experiences, so as to foster knowledge in 'Engineering and Technology'.

Our department is equipped with eminent faculty members who are expertise in various technical domains. The staff members are continuously updating themselves to the changing trends of technology through seminars, workshops and other FDP programmes conducted by AICTE, NITTTR and NPTEL.

The students are well qualified to meet the demands of the Industry and Research Organization.

The department has well equipped laboratories to educate the students in various fields of electronics such as Electronic Devices, Communication, and Microcontroller along with a computer centre for the programming and virtual practical classes.

To impart quality technical Education the department is continuously working to get additional fund from AICTE and other funding agencies.

Our students bagged several state ranks in various Board exams conducted by DOTE. They are also motivated to participate in paper presentation, project exhibition and other non technical competitions. They have enrolled themselves in various social activities such as NSS, RRC, YRC and Green Club to motivate their social awareness.

The overall focus of the department is to

- \* Emphasis elemental knowledge of the subjects.
- \* Provide exposure to the emerging technology.
- \* Inculcate a strong fundamental and development activities

To impart training with the best of teaching expertise supported by excellent laboratory infrastructure and exposure to recent trends in the industry, to ensure that the students are moulded into competent Electronics and Communication engineers with the knowledge of computer applications and worthy citizens of the country.

### Industrial Visits:



Prize Won in Paper Presentation



B.M. Birla Planetarium



Incubation Center Visit



Entrepreneurship Training

### Inaugural session of Naan Mudhalvan upskilling Scheme

The inaugural session of NAAN MUDHALVAN upskilling scheme is organized in the Department of Electronics & Communication Engineering on 9.8.23. Mr. Rajesh Kumar from M/s.VI Microsystems, Perungudi, Chennai conducted upskilling training course on the title PCB Design for the final year students of Electronics and Communication Engineering.



Naan Mudhalvan Expert & Staff Members



Electronic Devices Lab

# **DEPARTMENT OF COMPUTER ENGINEERING**

## **VISION :**

To provide quality technical education in Computer Engineering that produces highly skilled, industry-ready, and globally recognized technocrats, instilled with strong moral values, professional ethics and a commitment to addressing societal needs and contributing to national development.

## **MISSION :**

To empower students with a robust academic foundation, practical skills and ethical values to thrive as competent global technocrats.

To support faculty through continuous professional development, research opportunities and a collaborative environment that fosters innovation and academic excellence.

To develop state-of-the-art infrastructure that enhances teaching, learning and research, aligning with global standards and addressing societal and industry needs.

The Department of Computer Engineering was established in 1999 - 2000. The department offers a three-year diploma program in computer engineering with an annual intake of 60 students. The facilities include class rooms with necessary equipment for class room interactions, and multi-purpose hall for conducting seminars and public addressing. At department level, department libraries are equipped with all text books and reference books related to their domain for easy reference by the students and teachers. Department's staff rooms and independent space for meeting students, parents and other stake holders are also in place. Attention has been paid in Counselling students for academic and personal issues are important as students at the age of 16 - 19 (adolescent age) may develop emotional and psychological issues.

The Department has a well-experienced and dedicated faculty team to provide quality education to the students. The teaching methodology in the department goes beyond fulfilling the syllabus requirement of the DOTE to meet today's industry needs. Faculty members motivate and guide the students to do projects in their subject. Special focus is given to develop communication and soft skills. The department has a strong association with Mahindra Pride to uplift the students' personality and career development.

## **Objectives**

To prepare students to handle computer hardware and software oriented projects for the industry.

To develop excellence in the field of computer Engineering

## **Laboratory Facilities**

The Department has three laboratories equipped with around 50 computers and other state-of-the-art computing facilities to support teaching and research activities.

- \* Transparent evaluation system.
- \* Modern laboratory facilities with state-of-the-art hardware and software.

We have well trained Technical Support Team with wide knowledge on latest Technologies.

- \* Computer Lab-I. (EPublishing ,Webdesigning & Programming Lab)
- \* Computer Lab-II (Multimedia & Database Management Lab)
- \* Computer Hardware & IOT Lab



## Computer Hardware & Networking Lab

### Multimedia Lab



Multimedia Lab



Computer Lab-II

### Computing Facilities

Computing facilities in our department is periodically updated. Most of the systems are of latest configurations and purchased from reputed companies like Lenovo .We have around 50 systems connected through network with high end computers.

### Internet Facilities

Internet facilities are provided to the students from morning. We have established a new internet facility of 100 MBPS with 1:1 compression ratio through R F link. These facilities are given to various departments through fibre optic backbone connectivity.

### Teaching Facilities:

The Department of Computer Science has an exclusive Projector facility for teaching students in the laboratory. We use it for Teaching aided activities Teaching Aids, e-books, Educational Videos, Seminars

### Industry Institute Interaction MoU

Our Department has signed MoU's with the following reputed Corporates and is actively engaged in their Training Programmes and Industry Institute Collaboration.

- \* Significant Ruling Screw Ltd
- \* Sky Soft Solutions Ltd
- \* Kaashiv Infotech
- \* Why Global Services



Ethical Hacking Seminar



Government had planned to conduct naan-mudhalvan scheme by ingage technologies on the topic industrial metaverse.



One day workshop on internet of things by Mr.pattu raj, from sastha electronics.

## Industrial Visit

### Entrepreneurship and Incubation Centre



# LIBRARY

## Details of Library Books And Journals

First book purchased for our Library in the year 1886. Our former Chief Minister Kalvi Thanthai KAMARAJ Visited our Library in the year 1963. It was a great honour and pride at the time. Such a great things were happened in the past in our Library. Our Library has 20675 Books totally. There are around 30 Journals comprising of National and International Publications. It provides update knowledge to the students. Library has Internet connection. World Bank Aid scheme Books and State Planning Commission Aid Books are available. There is Book Bank facility for SC/ST Students at free of cost. Connected with DELNET to provide effective data base, E-Books and E-Journals. Our Library stocks Books, related to Science and Humanities, Engineering and Technology, Management, National and International Journals.

Open Access systems facilitate students to access and browse, availability of Books and Journals directly. Digital Library with internet is made available. Circulation Service, Current Awareness Service are sum of the facilities offered by Library. Previous years project reports and in plant training reports are available for the present students for reference.

Keeping pace with advancement in Technology and to serve the need for automated Library Management System a Digital Library has been established. Students and teaching faculties get updated Current National and International News. Students and faculties updated daily subject knowledge to sharpen their skills. Previous year project reports are very useful for the current student to identify exact project they have to choose. It also provides volumes for the past 100 years of collections of various department activities.

Library Workings Hours: 10 am to 5.45 Pm. Books: 20675, Periodicals, Project reports, CDs, Daily News Papers.

### Text Books

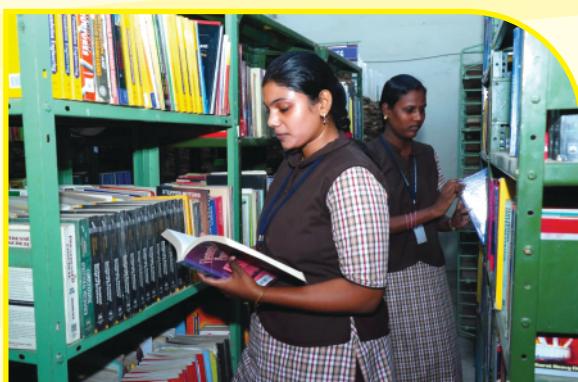
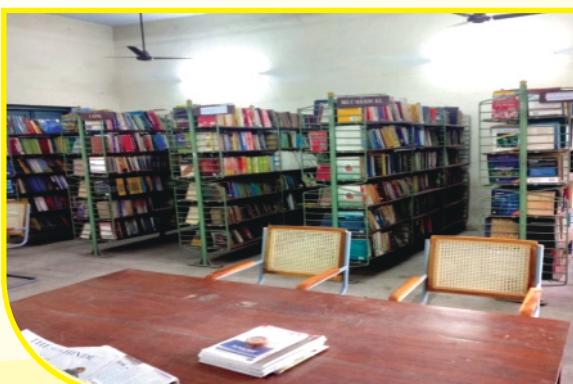
**Total No of Volumes : 20675**

**Total of Titles : 9859**



**Total No of Journals : 10**

**Library Software : Modern Lib**



# SKILL DEVELOPMENT

## (NSDC CERTIFIED) MAINTENANCE OF KIRLOSKAR ENGINE

### JOINTLY ORGANIZING WITH ICCI FOUNDATION



### TECHNOLOGY BUSINESS INCUBATOR-TBI CELL



## INSTITUTION'S INNOVATION COUNCIL

P.T.Lee CN Polytechnic College has established an Institution's Innovation Council (IC202221660) in the campus as per the norms of Innovation Cell, Ministry of Education, Govt of India New Deli during the academic calender year 2022-2023.

Institution Innovation Council Inaugural function conducted on 12-10-2023 Chief guest - K.Baskaran, CEO of Aarthi industries Ltd, Padappai ,kakkalur No of students participant- 36



## INVENTION

A new Chair Cum Ladder was designed and Manufactured by our Workshop as a part of innovation.



## PLACEMENT & ENTREPRENEURSHIP TRAINING CELL

Senior faculty acts as a placement officer as per the direction of the DOTE. From each department, one faculty member acts as department coordinator and also from each department two student's act as department representatives for placement activities. Separate WhatsApp group is maintained for placement activities. The data base of the final year students is maintained.

During fifth semester to train the students for placement, employability skills programme is conducted. It helps the students to prepare the bio-data, improve written test skills and facing the interview etc. As a part of the placement activities, many Online / offline seminars, orientation programmes are conducted to update their knowledge in the current trends.

The On and off campus drives are conducted during final year. Industries / companies send their profile and requirements to the placement mail id. Depending on the requirements, student's data is sent to the respective Industries / Companies. Interaction of Representatives from the industries/ companies with the Placement officer improve the Placement record.



**Student's Placed in Various MNC Companies starting salary 2Lakh to 5Lakh**  
**OUR PLACEMENT PARTNERS**



## Memorandum of Understanding MoU's signed with various leading industries

- M/s Samoo Engineering India Pvt Ltd , Chennai
- M/s Edunet Foundation , Gurgaon
- M/s Pavithraa Planner and Cpnstruction, Chennai
- M/s Sai Enterprises and Network Slution,Thiruvallur
- M/s Ragul Infotech , Chennai
- M/s Sri Venkateswara Engineering Works,Thiruvallur
- M/s Diagonal CADD,Chennai
- M/s TIAS Energy Pvt Ltd,Chennai
- M/s ICICI Foundation , Chennai
- M/s ADVANTAGE PRO, Chennai
- M/s Bharathi Enterprises,Chennai
- M/s SOLO AUTOMATIONS,Chennai
- M/s KAASHIV INFOTECH ,Chennai
- M/s SKYSOFT Consultancyu Services Pvt Ltd,Chennai
- M/s Surveyor & Consultants,Chennai
- M/s Significant Ruling Crew India Pvt Ltd, Chennai
- M/s APEX Industries , Chennai
- M/s CADD Centre Training Services Pvt Ltd,Chennai
- M/s FORD India Pvt Ltd,MM Nagar
- M/s DELNET,Delhi
- M/s Prolific Systems & Technologies Pvt Ltd,Chennai
- M/s Sri Srinivasa Engineering ,Sriperumbudur
- M/s AGS Consultting Engineers and Project Management,Chennai
- M/s VH FABRICATORS , Chennai
- M/s New Technology, Coimbatore
- M/s Er.Srinath NS Atandra Energy Pvt Ltd



## SOLAR PV POWER PLANT



Installed 49.7kW GRID Connected Solar Power Plant in our Polytechnic College Admin Building Terrace. using this power plant, 280Ton kg, Co<sub>2</sub>, 137kg No, 8.10kg So<sub>2</sub> reduced this power plant Environmental benefits.

## SPORTS ACTIVITIES

A well prepared sports ground is available in the Institution for practicing sports and games. The Physical Educational Director coaches the students of boys and girls separately. Our Institution is attached to Directorate of Technical Education DOTE sports board Inter Polytechnic Athletic Association IPAA to share the facilities and conduct the sports programmes.



# ALUMNI ASSOCIATION

## AIMS AND OBJECTIVE

To provide institution through which the Alumni of the polytechnic can keep in touch with the students and staff of the polytechnic college, with the activities of the polytechnic and with one another.

To enable the Alumni to take part in such activities of the institute as may contribute to the general improvement of the status of the college.

To help the alumni to get achieve from the institution on various technical problems that they may come across in their work.

To create and establish endowments for Institute prizes and scholarships for students of the college on the basis of the merit also render financial aid to deserving poor students studying in the Polytechnic.

To fulfill the aims as the general body may decide from time to time.





## Distinguished Alumnus



Dr.V.Krishnamurthy (1943 Electrical) with Principal Dr,M.Venkatraman and President of Alumni Association Mr A Venkatanarayanan, on 26.02.2020

\* Our Principal Dr.M.Venkatraman and Former HoD of EEE Department and President of Alumni Association honoured our Distinguished Alumnus of 1943 batch Electrical Engineering Dr.V.Krishnamurthy Sir. He was the recipient of Padma awards, Padma Shri in 1973, Padma Bhushan in 1986 and Padma Vibhushan in 2007 in the field of Civil Service and he is known as the "Father of Public Sector Undertakings in India, also he was the member of Planning Commission of India and more ...

## Alumni activities

ECE department passed out students 2001 batch have donated three computers, ten ceiling fans and twenty tube lights to ECE department





Students of second year ECE attended one day Workshop on the topic Relay Circuits and Programmable Logic Controller “one day one alumni one lecturer”. The workshop was very useful for the students and students gained practical knowledge about relays and PLC.



One day one alumni seminar was conducted the on topic “Overview on data science, machine learning and job opportunities” by ford Motor Company, Technical Manager, Department of Mechanical Engineering.



**JUBLIEE HALL**

# FOUNDER'S DAY

195th FOUNDER BIRTHDAY CELEBRATION (10.04.2023)



149th FOUNDER MEMORIAL DAY - 27.10.2023



Hon'ble Thiru Justice Pon.Kalaiyaran Chairman of P.T.Lee Chengalvaraya Naicker Trust have given presidential address during **First Year** Inauguration function held on 02.08.2022 & 03.07.2023



On behalf of **ISTE** chapter organised a Science Day Celebration on 28.02.2023 our Staff members and students were participated in the programme. Chief Guest Dr. U.Sathya Scientist CLRI Chennai have addressed our students.



International **Women's Day** Function held on 08.03.2023, Dr.E.Gomathi Advocate High Court of Chennai have given special address our staff members & students



## NSS ACTIVITIES



Drug awareness programme was conducted by the National Service Scheme (NSS) team today ( 10.08.23) at P.T.Lee Chengalvaraya Naicker Polytechnic College Vepery. The programme was inaugurated by Assistant Commissioner of Police Mr. Kannan along with Vepery Inspector Mr.Raju and team. Our Principal gave the welcome address and oath was taken by staff and students present for the program. In addition, Vijay TV artist Visalini and team joined the awareness programme. Around 300 students participated in the programme.



## SALIENT FEATURES

- ⇒ It is a statement of pride to say that P.T.Lee Chengalvaraya Naicker Polytechnic College in the first technical Institute commenced in India.
- ⇒ 152 years oldest technical Institute.
- ⇒ Entrepreneurship Training and counseling to institute entrepreneurs.
- ⇒ We extend free government certified skill development program.
- ⇒ Internship and Industrial visit for students.
- ⇒ Students with more than 375 marks in 10<sup>th</sup> standard will be given fee concession.
- ⇒ Meritorious students are given exclusive scholarship.
- ⇒ Extending government and private volunteer scholarship
- ⇒ We enroll students in AICTE pragati scholarship
- ⇒ Students can avail SC/ST and BC /MBC Scholarship from TamilNadu Government.
- ⇒ We have signed MOUs with leading companies by which we provide 100% placement Assistance and Interview Guarantied.
- ⇒ We have digital library with e-book facilities.
- ⇒ We provide special sports training for all sports activities.



**Boys Hostel**



**Arulmigu Bala Vinayagar Temple**



**Canteen**



**Press Machine**



**Siddha Hospital**

# **GROUP OF INSTITUTIONS**

- P.T.Lee Chengalvaraya Naicker Polytechnic College, Vepery, Chennai - 600 007.
- Vallal P. T. Lee Chengalvaraya Naicker Arts and Science College, Choolai, Chennai - 600 112.
- P.T.Lee Chengalvaraya Naicker College of Engineering & Technology, Ooveri Kanchipuram - 600 502.
- P.T.Lee Chengalvaraya Naicker Higher Secondary School, Choolai, Chennai - 600 112.
- P.T.Lee Chengalvaraya Naicker Primary School, Choolai, Chennai - 600 112.
- P.T.Lee Chengalvaraya Naicker Orphanage and free Residential School, Vepery, Chennal - 600 007.
- P.T.Lee Chengalvaraya Naicker Siddha Dispensary, Vepery, Chennai - 600 007.
- P.T.Lee Chengalvaraya Naicker Middle School, Ooveri, Kanchipuram - 600 502.
- P.T.Lee Chengalvaraya Naicker Industrial Training Institute, Ooveri, Kanchipuram - 600 502.
- P.T.Lee Chengalvaraya Naicker IAS Academy, (Study Centre for Competitive Examinations), CNT Campus, Choolai, Chennai - 600 112.

## **P.T.Lee CHENGALVARAYA NAICKER POLYTECHNIC COLLEGE**



### **College Address :**

No.2-3, E.V.K. Sampath Salai, Vepery, Chennai - 600 007.  
Ph : 044-2532 3913, 99526 92360, 94440 04772, 63798 53384.  
E-mail : [ptleecnt2008@yahoo.com](mailto:ptleecnt2008@yahoo.com), Website : [www.ptleecnpt.edu.in](http://www.ptleecnpt.edu.in)