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PMU INFORMATION CENTRES

THANJAVUR
Periyar Community College of Continuing Education
Near New Bus Stand, Thanjavur - 613 005
Ph : 04362 226244

THANJAVUR - MAIN CAMPUS
Periyar Maniammai University
Vallam Thanjavur - 613 403
Email : admission@pmu.edu
Mob : 9790111911, 9790111811

TIRUCHIRAPPALLI
Periyar Centenary Educational Complex
Sathanoor Main Road,
Tiruchirappalli - 620 021
Ph : 0431-2459911

CHENNAI
Periyar Thidal, 50
E.V.K.Sampath Salai, Veperi,
Chennai - 600 007
Ph : 044 26618366

NEW DELHI
Periyar Centre, Jasola
New Delhi - 110 025
Ph : 011 29942341, 011 29941482

Periyar Maniammai University
Periyar Nagar, Vallam, Thanjavur - 613 403, Tamilnadu, India Phone : +91 4362 264600 Fax : +91 4362 264660
Email : admission@pmu.edu. Web : www.pmu.edu

**THINK
INNOVATE
TRANSFORM**





Periyar Maniammai Institute of Science and Technology (PMIST) popularly known as Periyar Maniammai University (PMU) is one of the premier universities in India that strives for excellence in higher education, research and training for aspiring students into competent professional imbued with ethical values.

Sprawling on a generous 216 acres encompassing state-of-the-art infrastructure, this eco-friendly campus emphasizes a clean and green environment practicing Zero Carbon Measures that contribute towards sustainable development.

VISION

To be a world class innovative, competitive, up-to-date, academic institution providing technological and other inputs appropriate to the branch of study, a student has chosen to specialize.



MISSION

The mission of Periyar Maniammai University is to provide a well balanced, high quality education in Science, Engineering, Technology, Liberal Arts and Literature for undergraduate, postgraduate and doctoral students enabling them to contribute for growth of knowledge, gaining experience in problem-solving through excellence and uniqueness in teaching, research and service. The university shall imbibe a sense of appreciation with broad understanding of human values and shall develop expertise needed for transforming the world into a better place.

It is also the mission of the university to offer programmes to improve the quality of life of rural, socially and economically disadvantaged women and needy people, by taking proactive initiatives to enable them live with economic independence with self-respect and dignity.

MOTTO - THINK. INNOVATE. TRANSFORM.

The emblem of the University in the form of a circular disc carrying the name of the University in its peripheral has the picture of Thanthai Periyar and Annai Maniammai with the background of a burning torch representing the reforms proposed by them for eradicating superstitions and social evils and also informing the world that they are the torch bearers of social causes in this part of the world. The words Think, Innovate and Transform inscribed at the pedestal of the emblem stand for the watch words that guided the life of Thanthai Periyar and they are the golden rules governing the curricular and extracurricular activities of the University.



The Periyar Maniammai University Campus



Periyar Maniammai University is proud to be a unique institution of higher learning and academic excellence. In an endeavour to fulfil the dreams of our Mentor Thanthai Periyar and Annai Maniammai, the University is dedicated to its societal responsibility for transforming students from different parts of India and abroad into stalwarts by igniting their hidden talents.

The University is making efforts to create new horizons in the arena of technical education and research. Curriculum innovation is given priority by the University to make the courses industry and research oriented.

Welcome to PMU

► PMU Facade

The uniqueness of University Entrance Arch the largest single span RCC Structure in Asia (40m) designed by staffs and students.

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Chancellor



Dear Friends and Parents,

Nearly a quarter of a century has gone by since we started our institution. The Silver Jubilee Celebrations with many International Conferences have showcased our strong strength and achievements. This Institution was the first college of Technology exclusively for Women in the whole world. It served as a role model for a few more colleges of Technology for women elsewhere in India and abroad. Periyar Maniammai University has progressively stepped ahead in furthering the cause of education. Provision for both the male and female members of this society towards an academic world was a dream of our mentor Thanthai Periyar. Hence we have dedicated ourselves for excellent research and consultancy besides academic achievements.

The history of this institution is not merely the catalogue of the events that happened, but the history of its stalwarts, who by perseverance and dint of performance, caused the events to happen. This people's University has faced many hardships in the past but we have also enjoyed the unstinting support of people in those fledgling times and have helped our University to serve as a beacon to succeeding generations. We at any point of time have never compromised on imparting quality education to the students.

We believe in a sustained growth in Arts, Science and Technology which should no longer be a dream but a reality in all perspectives. Apart from Instructional service, the University aims at intensifying its work relating to Research and Development on par with International Standards. I believe, it is not impossible to elevate this academic edifice to the level of foreign Universities in places such as Oxford, Cambridge, MIT and Harvard. A planned progress, foresight and dynamic growth must be the multiple goal of our University. At length, the University should strive to play a vital role in consultancy services for urban development and for rural reconstruction. At one stage, our University should have a think-tank to offer solutions to global issues. Our institution's aim is to make the campus of the University, a shining model in its infrastructure, environmental upkeep and intellectual strength. Begun with altruistic intention of promoting technical education and rationalistic critical thinking, we have been prioritizing Humanism as our core principle. A pageantry of erudite intellectuals and masterful classroom performers along with robust administrators here we are all set to build a new brave and egalitarian world.

I believe that the Periyar Maniammai University is an oasis amidst the Rural Landscape with Urban facility. Every visitor to the campus shall go back with a cheerful memory of having visited the campus with a veritable feeling that our cherished goals are becoming a living reality. Let the public be happy that the University marches ahead towards its stupendous growth bringing glory to the country by scaling new heights of performance by following the paths of the supreme ideals of two social reformers of yester years - Thanthai Periyar and Annai Maniammai.

My Congratulations on your choosing Periyar Maniammai University for nourishing your academic aspirations.

Dr. K. Veeramani
Chancellor



Pro - Chancellor



Dear Well - wishers,

I am happy to offer a warm welcome to the parents and guardians to the threshold of Periyar Maniammai University. I am sure that this Brochure in your hands shows that you are very much interested in getting admission in one of its programs here. I congratulate you for your right decision. You might have done a lot of homework in assessing various options for seeking admission and now looking at admission in the right course in the right institution. We assure you a tremendous journey to success.

Periyar Maniammai University is equipped with the select of faculty members, eye catching infrastructure including state-of-the-art labs and serene environment, highly conducive for academic excellence. The University leverages the modern technology for academic delivery and you will find yourself at ease in this campus. The campus with its excellent hostel facilities and a Knowledge Centre will make the students feel enlightened and to have a feeling a home away from your home.

The university always strives to nurture a productive teaching and learning environment under the sylvan surrounding. The dream of our Mentor Thanthai Periyar is coming to reality where women and men are treated as equal, striving hard for the progress of the downtrodden and for the upliftment of the rural poor through the Periyar PUJA scheme. With the presence of vigorous institute-industry, inter-disciplinary research collaborations and training opportunities, this university helps students to excel and be ahead in the competitive professional environment.

I am sure, that the students will get motivated in their studies to develop innovative thinking and to become good leaders in the society. I wish all of them a glorious future.

With kind regards,
Dr. VKN. Kannappan
Pro-Chancellor

Vice - Chancellor



Dear Students / Parents,

Periyar Maniammai University is proud to be a unique institution of higher learning and academic excellence. In an endeavour to fulfil the dreams of our Mentor Thanthai Periyar and Annai Maniammai, the University is dedicated to its societal responsibility for transforming students from different parts of India and abroad into stalwarts by igniting their hidden talents. As it is located in a rural area, the students are admitted from a wide range of calibre and by personal attention, and modern teaching methodology towards a Product / Process / Demo / Case Study teaching, they are shaped into career oriented professionals with bright future.

The University is making efforts to create new horizons in the arena of technical education and research. Curriculum innovation is given priority by the University to make the courses industry and research oriented. The dedicated and qualified faculty members routinely preach and practice for outcome based learning which leads towards an excellent academic career for the betterment of the students. Much emphasis is given to create the best facilities for academics, practical skills and character development of our students to face the corporate and societal culture. PMU strives to impart high-end quality education through innovative teaching methodologies by distinguished members of the faculty.

We have established a Career Guidance Cell, with a full-fledged team working towards training and skill enhancement for students. Even though situated in a rural ambience, we employ modern tools of e-governance to achieve academic excellence. Here, students are shaped into Industry-ready technocrats through In-plant training, and internships. Research and Development both for students and staff is encouraged from UG level and also allows total freedom in carrying out researches which are societal based aiming to fix solutions to the problems. The PMU Examination and Evaluation system is in line with European Credit Transfer and Accumulation System (ECTS). Learner Centered instruction is adopted and it offers a very dynamic, innovative, eco friendly atmosphere for learning.

I believe that this brochure about the university will present you with up-dated information on the courses offered and infrastructure facilities available here. I invite young women and men to undertake this academic journey towards excellence and self-fulfillment

My best wishes for a glorious and rewarding career.

Thanking you,
Prof. N. Ramachandran
Vice-Chancellor



HISTORICAL BACKGROUND

Periyar Maniammai Institute of Science and Technology (PMIST) popularly known as Periyar Maniammai University has its origin from Periyar Maniammai College of Technology for Women established in 1988, by the Periyar Maniammai Educational and Charitable Society, Chennai. The Periyar Maniammai College of Technology for Women, named after the great social reformer of the twentieth century, E.V.Ramasamy, popularly known as Thanthai Periyar and his philanthropic wife Annai Maniammai, has to its credit of being the first Women's Engineering College in the world. Institutionalizing the lofty ideals of Periyar by paving the way for women's emancipation through providing increased access to higher education in Science and Technology and encouraging their participation in Social, National and Global development were the primary objective of the Institution.

The College was started with the approval of All India Council for Technical Education, New Delhi and initially affiliated to Bharathidasan University and later to Anna University, Chennai from 2001. Since August 17, 2007 it has been functioning as Deemed to be University with the approval of the UGC and Ministry of Human Resources, New Delhi.

The University has made several landmark achievements continuously in the field of Technical Education, and in the areas of Women Empowerment and Social Development since its inception - under graduate, postgraduate and doctoral programmes in Humanities, Sciences, Engineering, Architecture and Technology. In addition, it has rendered and exemplary service in the area of Health and Hygiene for rural people and provides viable technology-inputs for their social and economic well being.

Gone are the days when women were discriminated on the basis of gender. Thanthai Periyar wanted women to take up a leading role in all walks of life. Women and Men are equal in all respects. Hence co-education is the need of the hour. In tune with this

principle the University has been offering co-education in all branches of learning.

Considering its academic excellence in teaching, research and extension programmes and many socially relevant projects, the Government of India / MHRD had conferred the Status of University on the College under section 3 of the UGC Act, 1956.

The Periyar Maniammai University is located on a land area of 216 acres, which once were barren and dry with scarce population in rural area. This land has been transformed into a land of thick foliage, green vegetation and a technology-hub. It is an energy efficient, pollution-free, zero waste and well-laid campus with an ambience for learning. By its location, the campus offers an ideal environment for teaching, research and living. Though situated in a rural setting, it has all the advantages of any urban location. The entire campus is a spectacle of Green meadow, shady trees and canopy of creepers.

The University is situated at 10 km towards west from Thanjavur and 45 km on the east from Tiruchirapalli and is easily accessible by road, rail and air. The Periyar Maniammai Institute of Science and Technology Trust has in its ambit a number of colleges, schools at Thanjavur, Tiruchirapalli, Chennai and New Delhi in its own premises. The university has been steadily growing by leaps and bounds with adequate infrastructure and other facilities.

The built-up areas in the main campus at Vallam is around 90,000 Sq.m and in Chennai campus it is 13,000 Sq.m.

The institution has got accreditation from NBA since 1998 for all eligible courses. Further the University has got NAAC accreditation since 2009. The University has also implemented the innovative examination pattern in line with the European Credit Transfer and Accumulation System (ECTS).

PERIYAR MANIAMMAI UNIVERSITY

The Periyar Maniammai University provides high quality education at Undergraduate, Postgraduate and Doctoral levels in an environment that promotes innovation and creativity, scholarly pursuits by creating state-of-the-art infrastructure, employing competent faculty and committed support staff, world-class instructional and learning facilities, all driven by its values. It will reach out to the un-reached, explore new avenues of education to fulfill the knowledge and skill needs of the Nation, particularly of industries, business and social sectors.

It offers programmes at certificate and diploma levels and skill development programmes to improve the quality of the life of rural, socially, educationally and economically disadvantaged groups, women and needy, by taking proactive initiatives to enable them live with economic independence, self-respect and dignity. Create and foster an environment for a relevant education and extra-mural and socially relevant programmes to a variety of non-traditional clients aimed at improving their quality of life.

The values and beliefs of the University are firmly grounded on its commitment to the expectations of its stake-holders, improve its system continuously, to serve all sections of society objectively, impartially and proactively, and to conduct its affairs with the highest degree of integrity, sincerity and fairness.

And in the process, it shall always uphold human

dignity, national values and educational ethos to bring in a new social order driven by knowledge at micro and macro levels.

The University shall respond to the changing socio, techno-economic needs of the nation with its futuristic outlook and will emerge as an institution of national importance. In keeping with the above objectives, the Periyar Maniammai University has worked on new road maps and made appropriate changes in the role of University, based on intelligent redesign of its offerings and enhancement of quality of its services, including the quality of the total experience of its scholars and teachers and stake-holders. It shall investigate and solve the most challenging, fundamental problems in the field of science and technology in a singularly congenial, inter-disciplinary atmosphere, while producing outstanding graduates to become creative members of the society. The strength of the University lies in its commitment to continuously improve its quality.

The Periyar Maniammai University seeks to provide education that will enable it to meet its declared mission viz. to provide the highest quality of education, training, research and consultancy. The University has excellent infrastructure, state-of-the-art laboratories, and modern equipments and student amenities. The entire University campus is networked through optical fibre cabling.

Governance

The University is guided by a number of committees consisting of experts drawn from respective fields. Some of the important committees are:

- Board of Management
- Planning and Monitoring Committee
- Academic Council
- Research Board
- Finance Committee
- Board of Studies
- Advisory Committee
- Quality Assurance Committee

In a truly democratic set-up, the University is assisted by many standing and ad-hoc committees in its decision making in addition to the above committees.

Other Facilities

- 24 Hours Hospital
- Indian Overseas Bank branch
- FM Community Radio
- Cafeteria & Gift Parlour
- Periyar Driving School
- Wi-Fi Connectivity
- Periyar Technology Business Incubator
- Separate Hostels for Boys and Girls
- Well laid Play Ground for Sports and Games
- The Biometric based Attendance Automation
- DTH placed inside Campus for Information Access and Entertainment for Hostellers.
- Vallam East post office in PMU campus



COURSES OFFERED

School of Architecture, Engineering and Technology - SAET

Department of Architecture 40 - 41

B.Arch.
M.Arch.
Ph.D.

Department of Aerospace Engineering 42 - 43

B.Tech. Aerospace

Department of Bio-Technology 44 - 45

B.Tech. Bio Technology
M.Sc. Bio Technology, Clinical Research.
M.Phil. Bio Technology, Bio Chemistry,
Environmental Science.
Ph.D.

Department of Chemical Engineering 46 - 47

B.Tech. Chemical Engineering

Department of Civil Engineering 48 - 49

B.Tech. Civil Engineering
M.Tech. Construction Engineering and
Management, Environmental Engineering,
Structural Engineering.
Ph.D.

Department of Electronics and Communication Engineering 50 - 51

B.Tech. Electronics and Communication Engineering
M.Tech. Computer and Communication
Wireless Communication System
Ph.D.

Department of Electrical and Electronics Engineering 52 - 53

B.Tech. Electrical and Electronics Engineering
M.Tech. Power Electronics and Drives
Ph.D.



COURSES OFFERED

Department of Mechanical Engineering 54 - 55

B.Tech. Mechanical Engineering
M.Tech. Renewable Energy
M.Tech. Automation and Control
Ph.D.

Nano Technology Division 56 - 57

M.Tech. Nanotechnology
Ph.D.

School of Computing Sciences and Engineering - SCSE

Department of Computer Science and Engineering 60 - 61

B.Tech. Computer Science and Engineering
M.Tech. Computer Science and Engineering
Ph.D.

Department of Information Technology 62 - 63

B.Tech. Information Technology
M.Tech. Software Engineering

Department of Computer Science and Applications 64 - 65

BCA
MCA (Regular & Lateral)
M.Phil. Computer Science
Ph.D.

Department of Software Engineering 66 - 67

M.Sc. Software Engineering
(5 year Integrated & 2 year Lateral)
B.Sc. Animation & Multimedia
Digital Publishing

Lateral Entry Admission is also offered in B.Tech Courses (Diploma / Degree Candidates)



COURSES OFFERED

School of Humanities, Sciences and Management - SHSM

Department of Chemistry 70

M.Phil. Chemistry
Ph.D.

Department of English 71

M.A. English
M.Phil. English
Ph.D.

Department of Mathematics 72

M.Sc. Maths
M.Phil. Maths
Ph.D.

Department of Physics 73

B.Sc Applied Electronics
M.Sc. Physics
M.Phil. Physics
Ph.D.

Department of Management Studies 74 - 75

B.Com Hons
B.Com CA
MBA (Dual Electives)
Ph.D.

Department of Education 76 - 77

B.Sc. Ed. (4 Year Integrated)
B.Ed.
M.Phil. Education
Ph.D. Education

Department of Media studies

B.A Mass Communications & Journalism
B.Sc Animation and Multimedia
B.Sc Digital Publishing
B.Sc Visual Communication



COURSES OFFERED

Centres

Centre for University Industry Interaction 80 - 81

Centre for Periyar Thought 82

M.A. Periyar Thought (5 year Integrated)
M.A. Periyar Thought (2 year Lateral)
M.Phil. Periyar Thought
Ph.D. Tamil

Centre for Rural Development 83

MSW 5 year Integrated
MSW 2 year Lateral
M.Phil. Social Work
Ph.D. Social Work

Centre for Climate Change 84 - 85

M.Sc. Environmental Science

Centre for Student and Administrative Services 86

Dr. Kalaignar M. Karunanidhi Centre for Political Science 87

M.A. Political Science (5 year Integrated)
M.A. Political Science (2 year Lateral)
M.Phil. Political Science
Ph.D. Political Science

Centre of Excellence for Next Generation Networks ... 88

Centre for Excellence for Training and Research in Automation Technologies 89

Centre for Excellence for Enterprise Resource Planning 90

Veeramani Mohana Centre for Quality life Engineering Research 91

Diploma course in Acupuncture
Certificate course in Herbal Physiotherapy
Certificate course in Herbal Science

Periyar R&D Centre for Bio and Solar Energies 92 - 93



Eligibility for Admission UG Programmes

B.Tech (4 year)

A pass in

- +2 level examination in the 10+2 pattern of examination with Physics and Mathematics as compulsory subjects along with one of the subjects: "Chemistry / Biotechnology / Computer Science / Biology" (For B.Tech - Biotechnology; Physics, Chemistry and Biology are also eligible) or equivalent of any recognized central/state board of secondary school examination such as Central Board of Secondary Education (CBSE), New Delhi and Council for Indian School Certificate Examination, New Delhi
- +2 level examination with minimum 45% marks in above subjects taken together shall be admitted to B.Tech. For Reserved Category candidates 40% marks (or)
- Intermediate or two-year Pre - university Examination Conducted by a recognised Board/ university (or)
- Final Examination of the two year course of the Joint Services wing of the National Defence Academy (or)
- Public School/Board or University Examination in India recognised as equivalent to 10+2system (or)
- H.S.C. Vocational Examination (or)
- Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects (or)
- 3 or 4 year Diploma recognized by AICTE or a State Board of Technical Education (or)
- Association of Indian Universities (AIU) equivalence certificate for international students (or)
- Any other equivalent qualification.

B.Tech (3 year) Lateral Entry Courses

A pass in Diploma in the respective Engineering or technology discipline / B.Sc., with Mathematics as one of the subject in HSC level or in degree level with a minimum of 45% marks in aggregate or equivalent. For Reserved Category candidates 40% marks.

B.Arch (5 year)

- 10+3 Diploma (any stream) recognized by Central/State Governments with 50% aggregate marks (or)
- International Baccalaureate Diploma, after 10 years of schooling with not less than 50% marks in aggregate and with Mathematics as compulsory subject of examination (or)
- Minimum 50% marks in aggregate, shall be admitted to the

architecture course unless he/she has passed examination at the end of the new 10+2 Scheme of Senior school Certificate Examination or equivalent with Mathematics as the subject of examination at the 10+2 level.

- All Admissions to Architecture degree course shall be subject to passing of National Aptitude Test in Architecture (NATA) conducted by Council of Architecture. Periyar Maniammai University is one of the approved NATA test centre.

B.Com (Hons) / B.Com (CA) / B.Sc / B.A. (3 year)

A Pass in

- +2 level examination in the 10+2 pattern of examination with Maths/ Business Maths with commerce/Business Studies and Accountancy or Maths, with Physics and Chemistry or equivalent of any recognized state / central Board of Secondary School Examination, New Delhi and council for Indian school Certificate Examination, New Delhi or any other equivalent Qualification.
- Minimum 60% marks in the above subject taken together, shall be admitted to B.Com (Hons) or Grade equivalent thereof
- Minimum 45% marks in the above subjects taken together for B.Com (CA)

B.Com (Hons) Lateral entry

B.Sc Applied Electronics

A pass in

- +2 level examination in the 10+2 pattern of examination with Maths, Physics and Chemistry or equivalent of any recognized state / Central Board of Secondary School Examination, New Delhi and Council of Indian School Certificate Examination, New Delhi or any other equivalent qualification, with minimum 45% marks.

B.Sc Animation & Multimedia / Visual Communication / Digital Publishing & B.A. Mass communication & Journalism (Tamil medium)

A pass in

- +2 level examination in the 10+2 pattern of examination or equivalent thereof.

Age: For UG admissions, the candidates should have completed 17 years of age by July of the respective academic year.



Eligibility for Admission PG Programmes

M.Arch - Architecture (2 year)

B.Arch

M.Tech. - Automation and Controls (2 Year)

B.E/B.Tech (EEE/ ECE/ E&I / Mech) or equivalent

M.Tech.-Computer and Communication (2 Year)

B.E/B.Tech (CSE/ ECE/ E&I / IT) or equivalent

M.Tech.-Computer Science and Engineering (2 Year) /

M.Tech Software Engineering (2 Year)

B.E/B.Tech (EEE/ ECE/ E&I / I&C / CSE/ IT) or MCA or equivalent

M.Sc Integrated Course IT/SW/CS

M.Tech.-Construction Engineering & Management (2 year) /

M.Tech Structural Engineering (2 Year)

B.E/ B.Tech Civil or B.Arch or equivalent

M.Tech.-Environmental Engineering (2 year)

B.E/ B.Tech Civil/ Chemical/ Geo-Informatics/ Bio-Tech) or B.E/ B.Tech (Mech/ EEE/ B.Arch with 3 year of experience relevant to environmental Engineering field) or B.Arch or equivalent.

M.Tech. - Power Electronics & Drives (2 Year) /

M.Tech - Wireless communication systems (2 Year)

B.E/ B.Tech (EEE/ ECE/ E&I / I&C/ or equivalent

M.Tech - Renewable Energy (2Year) /

M.Tech. in Automation & Control (2 Year)

B.E/ B.Tech (Mech/ Chemical/ Bio-Tech/ Electro-Chemical, Electrical & Electronics Engineering or equivalent

M.Tech - Nano Technology (2 year)

B.E/ B.Tech Electronics, Electrical & Electronics, Mechanical, Biotechnology, Chemical or equivalent or M.Sc-Physics, Mathematics, Chemistry, Biochemistry or equivalent

M.B.A.- 2 year

Any Bachelor Degree

M.Sc. - Entrepreneurship and Innovation - 2 year

Any Bachelor Degree

M.C.A (3 year)

Any Bachelor degree with Mathematics as a subject in HSC level or in degree level as a subject or equivalent

M.A, MSW, M.Sc- Integrated courses (5 year)

A Pass in + 2 level examination or equivalent

M.A, MSW, M.Sc (2 Year)

Bachelor Degree in the relevant subject





Microsoft Technology Associate

PeriyarManiammai University students are given the opportunity to distinguish technology competency and explore academic and career options. Our Students, get the opportunity to earn a Microsoft Technology Associate (MTA) certification right in the classroom. Microsoft has teamed up with Certipoint to bring out the entry level credentials that validates essential technology knowledge.

MTA certification is positioned to become the premier credential for individuals seeking to explore and pursue a career in technology, or augment related pursuits such as business or any other field where technology is pervasive. It is the ideal and preferred path to Microsoft's world-renowned technology certification programs, such as Microsoft Certified Solutions Associate (MCSA) and Microsoft Certified Solutions Developer (MCSD).

MTA is an entry-level certification that validates the fundamental technology knowledge that students need to start building a career in Microsoft technologies. 13 initial titles on Developer, IT Pro, and Database high-demand topics.

NRI category

- Sponsorship letter.
- Relationship certificate in original (blood relation must be Father, Mother, Sister, Brother, Uncle and Aunt only).
- Letters from the employer's sponsor in original.
- Statement of bank a/c of sponsor with NRI a/c number.
- NRI status certificate of financial supporter issued by the embassy of respective country under their seal in original.
- Nativity certificate of the sponsor.
- Mark sheets of the qualifying examination.
- Transfer certificate

Foreign National Category

- Valid passport
- Valid Visa/ PIO card / Citizenship card for Nepal and Bhutan candidates.
- Refugee cards / recent NOC from police administration / certificate from tahsildar
- Proof of having studied the required qualifying subjects in English medium.
- Equivalency certificates from Directorate of Technical Education, Chennai / Association of Indian Universities, New Delhi / Embassy concerned of the country, where the Student studied.
- Mark sheets of the Qualifying Examination.
- Transfer Certificate
- Migration Certificate

Other Courses and Programmes offered

In addition to the above formal courses and programmes the University offers several Diploma, Certificate, and short term non – formal programmes for a wider client, the details of which are advertised in leading newspapers from time to time. Several programmes were launched on skill development in Para-medical Engineering and Rural Technologies for the benefit of rural community particularly women, people below poverty line and socially challenged persons.





OUTCOME BASED EDUCATION AND RESEARCH FACILITIES

Periyar Maniammai University follows student-centered learning methods which measures students' performance empirically. The pedagogy followed in the university apart from lecture, chalk and talk methods are seminars, in-plant training, internship programme, projects, open house and showcasing student innovative products which makes student centric.

Outcome Based Education makes learning - holistic, creative and life long process; demonstrates understanding of concepts, principles and procedures appropriately relevant to the subject scope for developing/nurturing professional skills such as self-confidence, problem solving, effective communication, self awareness, self-care, managerial skills required for an industry.



Entire campus is provided with Wi-fi connectivity with an average uplink capacity of 50 Mbps and downlink capacity of 100 Mbps.

ADD ON COURSES

Objectives

- To provide right skills and mentoring that allows developing career in a demanding and highly lucrative field.
- Students can learn new skills and gain credentials in addition to their regular study schedule.
- Embed the certification exams so that an easy adoption and transition for the students can take place for entry into industry.



COURSES OFFERED BY

CEERP

(Centre Of Excellence For Enterprise Resource Planning)

- Diploma in ERP with SAP R/3
- P.G. Diploma in ERP with SAP R/3

CETAT

(Centre Of Excellence For Training and Research in Automation Technologies)

- Certificate course in Automation technology
- Diploma course in Automation technology
- PG Diploma course in Automation technology

CENGN

(Centre Of Excellence For Next Generation Networks)

- PG Diploma on Optical Network
- Optical Network Engineer
- Ethernet Engineer
- Network Management Engineer
- LTE Engineer
- Optical Transmission Expert

Department of Architecture

- Auto cad, Revit, ArchiCad, Sketchup, Photoshop, Maya, 3ds, Max, Rhino, Ecotect and simulation software for green buildings for building and built environment design.

Department of Civil Engineering

- Auto cad, Revit, ArchiCad, STRAP, Global Mapper, ArcGIS 9, Auto Plot, PRIMAVERA, STAAD.PRO V8i

Department Of Computer Science And Engineering

- Training offered by ICTAT Academy on various recent developments in IT sector like Cloud Infrastructure and Services ,Network Security

Department of Information Technology

- Microsoft Technology Associate (MTA) - 13 different programs available.
- Hewlett Packard Accredited Technical Associate (HP ATA) - 5 different programs available.

Department of Mechanical Engineering

- ANSYS, Pro/E, NDT, MASTERCAM

EXAMINATION & EVALUATION SYSTEM

- Student centric PMU Exams are in line with European Credit Transfer and Accumulation System. i.e. ECTS. It is totally transparent with a Relative Grading, Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA).
- Two phases exam - MID and END semester.
- From MID semester examination 25% of weightage of marks is taken, END semester examination 50% of weightage of marks is taken and the remaining 25% is from CIA (Continuous Internal Assessment). Answer scripts are endorsed by the students.
- In consonance with the global system, letter grades are followed, also for attendance (i.e. O-Outstanding, M-Medium and S-Satisfactory). For Post Graduate (PG) courses the real time evaluation is done.
- This credit system is transferable to other countries even in the middle of the course

Special features of the system

- The curriculum, coaching and evaluation all done by a course teacher in the continuous assessment basis. Grades are awarded to the individual based on academic performance and attendance.
- Evaluation includes Seminars, Assignment, Test/Quiz, Skill-Edge / Aptitude and SEP (Student Executive Programme).
- Knowledge and Outcome based evaluation.



CENTRAL LIBRARY

Library as a Learning Resource

The Arjun Singh Library, one of the nerve centres of Periyar Maniammai University is proud of its system, where students have direct open access to the library resources relevant to their academic discipline.

- Digitized Text Books
- Automation of Library

Courses offered

Ph.D in Library and Information Science.

For the development and promotion of reading habits among the students the following practices are implemented

- Beginning of the academic year with general presentation.
- Teaching Library programmes.
- Creation of digital repositories.
- Displaying new arrivals of books/journals and circulating a list to different departments that use the Library.
- Question paper repositories.
- Conducting monthly book review meeting.

- Conducting of functions. Like world book day, Book fair.
- Compiling of student/faculty attendance statistics for review.
- Course ware repositories.
- Suggestion box and timely response.
- Photocopying services.
- Inter Library Loan.



Specially the Journals - Online

- IEEE, ACM, ASCE, and UGC - INFONET Digital Library Consortium
- Also RECHARGE, National Geographic, Harvard Business Review, and Times Literary Supplement.



- Bar-coded collection, OPAC (Online Public Access Catalogue) Service
- Open Access and to read and write well ventilated halls with adequate furniture.
- Students, Staff and employees of the university eligible for library membership.



EDUCATION & BEYOND



AN INDIGENOUS ERP PACKAGE AND E-GOVERNANCE



An Indigenous ERP Package BRAIN (Brilliant Resources for Academic Institutions) is developed to smoothen the day to day administration of University starting (i) from students admission to their placement, (ii) from staff recruitment to their career development, (iii) from purchasing of materials to establishing/maintaining the infrastructure etc. As the entire data is available in the database, any analysis can be done at any desired point of time. Easy User interface design makes the system easier for staff and students.



EDUCATION & BEYOND



STUDENTS ASSOCIATIONS AND ACTIVITIES FOR MOULDING FUTURE PROFESSIONALS

Students Council is elected democratically . The 32 Clubs and Societies organizes different activities and programmes encouraging students extracurricular activities. Students are encouraged to involve in 'Earn While Learn' scheme. NSS, NCC, YRC, RRC and various society oriented student's activities are also a part of study which moulds the future professionals.



CONDUCTIVE ENVIRONMENT AND FACILITIES

PMU is an Eco friendly, Energy efficient, Green & Clean, Ragging free Conducive environment for student's life.

The department of Physical Education aims towards "Fit People, Fit nation" The talents of students are identified and encouraged to participate in National representation. We motivate all the students for 100% active participation of Fitness programmes. Apart from Games and Sports, Martial Arts and Yoga are given importance. Playing in green and Oxygen rich environment makes the students healthier. Students are encouraged to participate in State and National level Tournaments.

Sports Achievements

- One of our Hockey players listed in "Hockey Indian League Players' Auction" -2014.
- Our student had represented for TamilNadu in National Level Roller Skating -2013.
- Participation in Indian Hockey Camp - 2013.
- Won prizes in Sub Junior South India Power Lifting Championship.
- Achieved many medals in TamilNadu Inter Deemed University Athletics Meet.
- Participated and Won prize in 51st National Roller Hockey Championship.
- Individual Championship in 23rd TamilNadu Roller Skating Championship.
- Won prizes in Regional, State and District Level Silambam and Karate Competition. Good success records by winning medals in District and State Level Athletic Meet.



PERIYAR PURA FOR SOCIETAL DEVELOPMENT

Providing Urban Amenities in Rural Areas



Dr. A.P.J. Abdul Kalam

Accolades by
Former President of India

Periyar PURA (Providing Urban Amenities in Rural Areas) has been appreciated by His Excellency Dr. **A.P.J. Abdul Kalam**, Former President of India in His address on the eve of the Independence Day 2006 which was nationally broadcast.

"The model of PURA Complex has all three connectivity namely physical, electronic and knowledge, leading to economic connectivity. This has resulted in large scale employment generation and creation of a number of entrepreneurs with the active support of 1150 self-help groups. Two hundred acres of waste lands have been developed into a cultivable area with innovative water management scheme".



**PHYSICAL
ELECTRONIC
ECONOMIC
KNOWLEDGE**

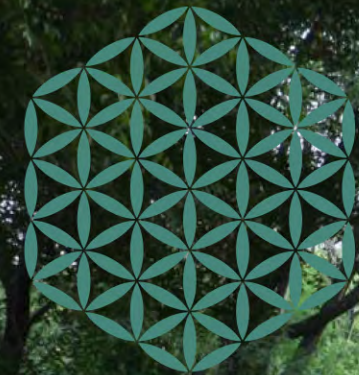
**PERIYAR PURA PROVIDES
PHYSICAL, KNOWLEDGE,
ELECTRONIC AND ECONOMIC CONNECTIVITY
TO 67 VILLAGES**

**WITH THE POPULATION OF 1,19,000,
ADOPTED IN THANJAVUR,
PUDUKKOTTAI AND
TRICHIRAPPALLI DISTRICTS**

**ASSURED MARKETING
LOCAL EMPLOYMENT
SHGs –EDPs – TBI
AGRO BASED SSIs
PERIYAR ELs**

**TECHNICAL KNOW/ DO-HOW
PMU, IGNOU, COADE, CDEEP
TRANSPORT FACILITIES**





GREEN PRACTICES TOWARDS **zero** CARBON

PMU campus has around 4,500 shrubs and plant varieties, 26,000 native trees and endangered species. Such thick foliage of vegetation releases oxygen of 8.4 tonnes per day and CO₂ absorption is around 1.6 tonnes per day. Alternative building materials like hollow blocks, interlocking blocks, paver blocks are manufactured in the campus using innovative technologies to meet its own infrastructural requirements.

Periyar Paper Re-processing Unit is available for Paper recycling. Sources for the paper recycling unit are retrieved from our University and reinforcing materials (cotton waste) are added to strengthen the quality of the paper. The University always keeps pace with the shifts in technology like transition from fluorescent lamps to CFL and now to LED.

International 5R's (Refuse, Reduce, Reuse, Recycle and Recover) concept on Solid Waste Management is practices here.

Rain water harvesting techniques implemented in the campus harvests 80,000m³ of rain water per annum within the campus. Under National Bamboo Mission Programme, PMU cultivates 10 acres of Bamboo.





RENEWABLE ENERGY

University is actively involved in undertaking basic and applied research on renewable energy for about 2 decades and has installed many renewable energy gadgets in the campus. PMU is the India's first educational institution that has installed 200 kWe and 100 kWe Biomass Gasifier Units to produce captive power of 300 kWe. PMU has also installed India's first 500 m3 capacity Multi-feed Bio-methanisation plant producing 60kWe.

Following projects are designed, fabricated and are under operation

- 1kWe, 2 kWe and 20 kWe Bio mass gasification plants.
- 2 kWe on grid solar systems for solar photovoltaic research
- 4.05 kWe solar power plants for lighting load in hostel
- 15000 lpd solar water heater in hostels and guest house
- Sophisticated equipment for bio energy research such as Thermo Gravimetric Analyzer, Gas chromatograph, Portable Biomass Gas Analyzer, Portable Exhaust Gas Analyzer, Bomb Calorimeter, etc.
- Briquetting Machine for conversion of agro residue such as coir pith, saw dust, rice husk etc., into biomass fuel.
- Wind Gear Pump to feed the green fields in its campus





ENTREPRENEURSHIP

Periyar Technology Business Incubator a grant in aid project of National Science & Technology Entrepreneurship Development Board (NSTEDB) of Ministry of Science & Technology, Government of India. Periyar TBI provides mentoring; handholding and all types of support services to those who wish to start enterprises in fields like agro, bio and food technologies. It is the only incubator in India to focus business development in herbal products. Periyar TBI was rated among Top 10 for Entrepreneurship Development in India by Economic Times .



One of the Incubatee companies of Periyar TBI has been chosen among top 50 out of 1345 ideas in the India Innovation Growth Programme, a joint initiative of DST, Govt. of India, Lockheed Martin Corporation, USA, Indo-US S & T Forum, Stanford Graduate School of Business, USA, IC2 Institute at University of Texas, USA and Federation of Indian Chamber of Commerce and Industry.



**SCHOOL OF ARCHITECTURE,
ENGINEERING AND TECHNOLOGY**

SAET

A Challenging & Supportive Academic Environment

PMU provides an exceptional academic experience marked by intellectual rigor and shaped by a dynamic faculty.

A serene, engaging and motivating campus enhances the learning perspective, inside and outside of the classroom.



DEPARTMENT OF ARCHITECTURE

Established in the year 1995 with B.Arch Degree Programme (5 years) and it has continuously made significant strides in all academic as well non-academic aspects. Presently the Department offers B.Arch, M.Arch and Ph.D. programmes. The Department of Architecture at PMU has a strong tradition of fostering independent design thinking and research.

Course objectives

- To impart creativity through analytical and lateral thinking process to expose practical and interdisciplinary fields by exploiting innate strength of local and emerging global trends and needs. Major strength of the department is a diverse mix of faculty specialized in Architecture, Urban and Regional planning, Urban Design, Landscape, Conservation, Digital architecture, Construction Technology and Management.
- The virtue of location adds significant contribution towards incorporating strong cultural, heritage, vernacular art and architectural traditions.
 - All the faculty members are actively practicing the profession.
 - Eminent Practicing Architects and Experts in the field are being the part of teaching fraternity.
 - Students won design competitions conducted by Ministry of Social Welfare, Govt. of India, National Association of Students of Architecture (NASA), INTACH, INSTAG, Pidlite, BIRLA Cement, Saint Gobain, Dalmia cement.
 - One of the State Resource Institute under National Programme for Capacity Building and Earthquake Resistant Management.

Highlights

- The curriculum is designed by experts from academia and professions to meet the various multi-disciplinary knowledge that an architect must possess to design the built environment.
- Workshops on arts and crafts, construction, services are made as a part of curriculum for the students to get hands-on experience.
- To make students competent in the field of architecture an internship program is incorporated in the curriculum for one full academic year.
- Students are actively involved in various consultancy services rendered by the Department as EARN WHILE LEARN programme.
- Regular case study visits and study tours, educational tours throughout India and abroad are incorporated in the curriculum.
- Facilitated to learn advanced and latest software and applications like Auto cad, Revit, ArchiCad, Sketchup, Photoshop, Maya, 3ds Max, Rhino, Ecotect and simulation softwares for green buildings for building and built environment design

Facilities

- Separate Studios and Lecture Halls
- Audio Visual hall with smart class equipments.
- Departmental Library with 2000 titles and 4000 volumes excluding central library
- Exclusive Computer Centre with latest Hardware and Software.
- Climatology and Audio Visual Laboratory with state of art equipments
- Building Materials museum.
- Construction Yard



Architectural Consultancy

The department is presently undertaking a mammoth monumental Periyar World Project at Siruganur, Trichirappalli with an extent of 27 acres, including Periyar Statue, Science City with the Planetarium, Museums, Exhibition Halls, Auditorium, Library, Amusement Park and Food Court. This project is supported by departments of Civil, Mechanical, Chemical, ECE, EEE & School of Computing Sciences.

Research

- Thrust areas of research are
- Vernacular architecture.
 - Conservation of heritage structures.
 - Energy modeling and simulation for green buildings
 - Appropriate materials and construction technology
 - Sustainable Development
 - Bamboo applications in contemporary architecture

DEPARTMENT OF AEROSPACE ENGINEERING

Highlights

- Provides in-depth knowledge with innovative teaching methodology
- Organized Aerospace Festival 2013 with sponsorship of BRAHMOS, TNSCST and DRDO organizations.
- Association of Aeropteryx (AoA)
- Develops the student's co curricular activities through AoA.
- Students underwent training in IIT Delhi on Robotics.
- Students underwent in-plant training in IAF Thanjavur, Hindustan Aeronautics Limited (HAL), National Aerospace Laboratories (NAL) and Aeronautical Development Establishment (ADE).

Special Features

- Well equipped Department and central libraries.
- Course materials are updated in E-content for the betterment of the student's.
- Well established lab facilities like Aerodynamics Lab, Aircraft Structures Lab, CFD Lab, Avionics Lab, etc.,

Learning and Development opportunities

- M/s Sri Design CAD technologies provide value added program on Auto CAD, CATIA, ANSYS, HYPERMESH and CFD in our University campus.
- Students design and fabricate Aeromodels such as RC models and static models.
- Student Executive Programme
- Association of Aeropteryx conducts Symposium, Industrial Visit, National / International Conferences and Workshops
- Eminent scientists and Professors from organizations like DRDO, VSSC, ISRO, IISc are invited for giving Seminars and Guest lectures.

Research

- Hypersonic Aerodynamics
- Computational Fluid Dynamics (CFD)
- Space Propulsion
- Composite Materials and Structures
- Unmanned Air Vehicle (UAV)



DEPARTMENT OF BIOTECHNOLOGY

Courses Offered

- B.Tech Biotechnology (Regular & Lateral)
- M.Sc Clinical Research
- M.Sc Biotechnology
- M.Phil & Ph.D

Highlights

- Faculty members with diversified specialization in core areas of biotechnology like Genetic Engineering, Bioprocess Engineering, Bio-pharmaceuticals, Bio-energy, Immunotechnology, Biosensors, Bioinformatics, Clinical studies and Nanobiotechnology.
- Highly Stimulating Research and Academic Environment.
- Hands on Training to operate high end instruments
- Entrepreneurship training and development.
- Staff members and students publish papers in peer reviewed international and national scientific journals
- BRIC – Biotechnology Researchers and Innovators Consortium – students association of the department

Research and Development Activities

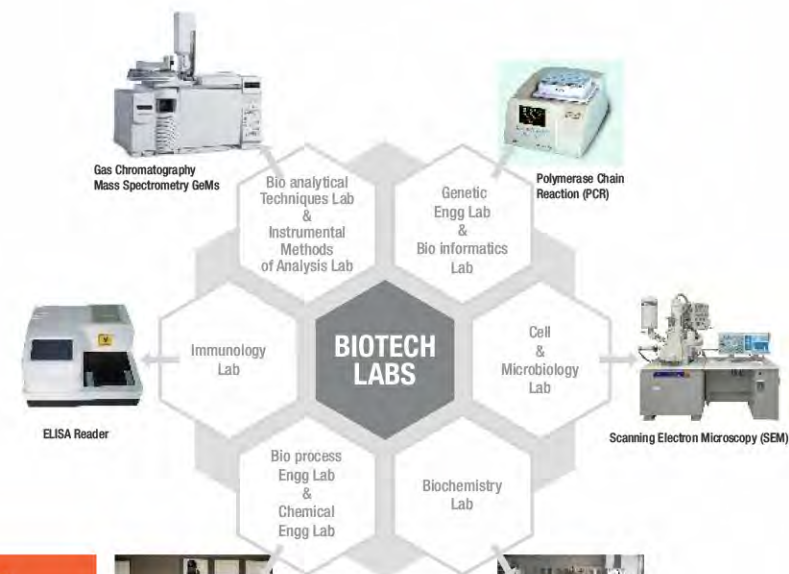
- Agriculture Consultancy Services - Farmer Producers Organisation (FPO) and Novel Agricultural Practices.
- Biodiesel and Bioethanol Production from Microalgae and Agro residues.
- Biomanure Production using Digestate from Anaerobic Digester (Vermicompost)
- Biopolymer Production for Therapeutics and Drug Delivery Systems.
- Nano particles Synthesis using different herbs.
- Biosensor Development for diagnostics applications.
- Probiotics for fresh water fish farming
- Carbon dioxide Sequestration
- Molecular Monitoring of Anaerobic Digestion

INDUSTRIAL COLLABORATIONS AND MoUS WITH R & D INSTITUTIONS FOR INPLANT TRAINING / RESEARCH PROJECTS

- TARI Biotech, Thanjavur – a liquid biopesticides, biocontrol agents and biofertilizer production company collaborating with us for in-plant training, field trials and new product developments.
- Indian Institute of Crop Processing Technology, Thanjavur - Training on food processing technologies
- Central Electrochemical Research Institute, Karaikudi - Biosensor development for early diagnosis of diabetes mellitus.
- Remura Biologicals, Yercaud - for training on Molecular techniques.



INFRASTRUCTURE LABORATORY FACILITIES



Students Achievements

- Qualified in GATE Examinations
- Got admission in IITs, NUS Singapore, NITs, Cape Breton University Canada for pursuing Higher Studies.
- PhD scholars received the following fellowship from
 - DST – Inspire
 - Jawaharlal Nehru Memorial Fellowship
 - CSIR (SRF), CSIR (RA)



Fermenter



High Performances Liquid Chromatography (HPLC)



Consultancy Services Offered

- Atomic force microscopy
- Gene sequencing
- Microbial analysis of water
- Quality analysis of soil nutrients
- Protein profiling
- DNA Amplification - PCR
- Finger printing (RAPD, RFLP, AFLP)
- Microbial cloning
- Western Blotting
- HPLC analysis
- GC analysis

DEPARTMENT OF CHEMICAL ENGINEERING

“Chemical engineers are involved in the transfer of scientific discoveries to modern technologies and novel products that benefit society and minimize the impact on the environment”

Highlights

- The department offers B.Tech. Chemical Engineering
- Students undergo three months industrial training to enhance their technical competence.
- Opportunities to work in sectors like petroleum refining, petrochemicals, cement, sugar, pulp & papers, fertilizers, FMCG, food processing, pharmaceuticals.
- Opportunity to work on projects through the Periyar R & D centre for Solar and Bioenergies, and Centre for Climate Change.



Facilities

- Apart from regular undergraduate labs on Chemical reaction engineering, mass and heat transfer, Chemical analysis and Unit operations lab, the department has specialized facilities on petroleum product testing lab and fuel research centre.

Consultancy and Research areas

- Development of Nanoparticles additive for biofuel blends with diesel fuel.
- Ethanol production from agro residues.
- Biodegradable polymer production
- Recycling and reprocessing of papers – industrial scale paper reprocessing unit is installed in the campus for demonstration and training.
- Fuel from polymers – developing technology to recycle waste polymers as transportation fuel.
- Precision/Organic farming practices – consultant for Cauvery Delta Agro Producer Company Ltd. – a Farmer Producer Organization, established for the benefit of Cauvery delta farmers, jointly with Periyar Technology Business Incubator, PMU, supported by NABARD
- Fresh water fish farming – collaborative research in the development of probiotics and floating fish feed formulation with M/s.Maanal Fish Farm, Orathanadu.
- Technical consultant for M/s.BIOCLINE, promoted by our alumnus Mr. S.Prabhakaran incubated by Periyar Technology Business Incubator.



Our students undergo implant training at:

- Oil and Natural Gas Corporation Ltd (ONGC), Karaikal Asset.
- Chennai Petroleum Corporation Ltd. (CPCL), Nagapattinam.
- SPIC, Tuticorin.
- Cetex Petrochemicals, Chennai
- Indian Institute of Crop Processing Technology(IICPT), Thanjavur
- Indian Institute of Petroleum, Dehradun
- Trichy Distilleries and Chemicals Ltd, Tiruchirappalli.
- Neyveli Lignite Corporation Ltd. (NLC), Neyveli.



DEPARTMENT OF CIVIL ENGINEERING

Prime objective of the department is to educate, train and develop highly skilled Civil Engineers capable of designing, constructing and maintaining eco friendly structures. Established in the year 1989. It offers B.Tech. in Civil Engineering, M.Tech. in Construction Engineering & Management, Structural Engineering and Doctor of Philosophy (Ph.D.) programmes in various sub-disciplines.

Faculty

The department has qualified faculty with varied specialization such as Structural, Geotechnical, Water Resources, Irrigation, Environmental, Transportation, Remote Sensing & GIS and Construction Management etc.

Laboratory Facilities

The department has spacious laboratories with the state-of-the-art machineries and equipments such as 100kN capacity Digital UTM, Non-Destructive Testing Facility, Total Survey Station, GIS / GPS & Remote Sensing Lab, Turbines, Electronic Shear Testing Machines, Static Cone Penetrometer, Pipe Testing, Spectrophotometer etc.



Career Development Programme

The department has strong institutional, industrial and societal linkages to strengthen its academic, co-curricular, extra-curricular and extension programmes for the overall development of students. The curriculum is designed as outcome based which makes the student as Industry Ready Engineer.

- Experts from Academia, Research Labs and Construction Industries are invited to interact with the students on innovative technologies.
- Students are exposed to modern and latest software packages such as



- Alumni are placed in Indian Administrative Services, Indian Army, Indian Navy, Central and State Public Works Department and in reputed construction companies. Besides this, more of the alumni developed as successful entrepreneur.

Consultancy

- Provides excellent training and consultancy services to the various State and Central Govt. Agencies, Public Sector Undertakings and many private organizations. The students are involved in this consultancy services which give the students a unique opportunity to EARN WHILE LEARN through real time projects.



Research

Extensive research facilities were created to promote innovative research. The students and staff are encouraged to innovate through quality research in emerging areas. The department has laboratory facilities to handle high quality research.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Objectives

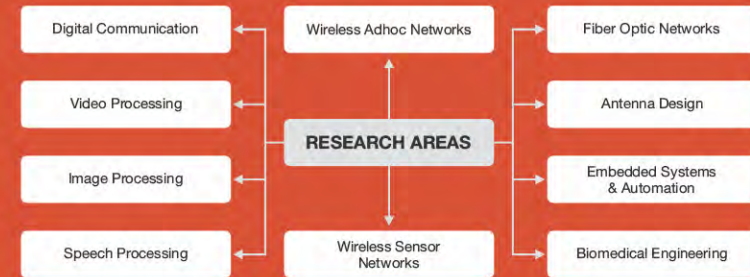
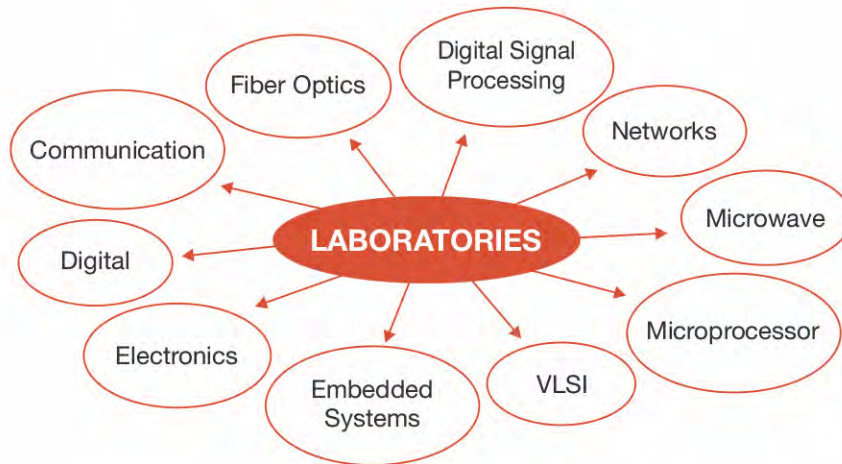
- To produce full-fledged Engineers suitable for making a successful career either in industry/ research or higher education.
- To enhance the practical skills of the students by giving hands-on experience in laboratories.
- To promote professional & ethical responsibilities among students.

Courses Offered

- B.Tech** - Electronics and Communication Engineering (Full time & Part time)
- M.Tech** - Wireless Communication Systems (Full time & Part time)
- M.Tech** - Computer and Communication (Full time & Part time)
- Ph.D** - (Full Time and Part Time)

Salient Features:

- Aakash Tablet PCs are used in teaching, learning and evaluation process.
- Students and staff access to the education related e-content and videos.
- Through the Centre for Distance Engineering Education Programs (CDEEP), seminars and workshops conducted by institutions such as IITs and NITs are delivered to the students and faculty.
- Students are sponsored to undergo internship in institutions and research laboratories in Malaysia and China.
- Students have been recruited as Scientists by the Defence Research and Development Organization (DRDO), Government of India, to work in BrahMos , a Supersonic Cruise Missile project.
- Short term training courses on fiber optic networks, wireless networks, automation technologies, digital signal processing and embedded systems are conducted.
- Department Library is equipped with 600 books and educational CDs.
- Periyar FM, a Community Radio system is entirely operated by ECE students. Programs on education, agriculture, job opportunities and health impacts are broadcast for the benefit of students and rural people around 25 Kilometer radius.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Energy Efficient Systems, Power Quality, Electrical Drives and Non-Conventional Energy Sources are the key research areas of the department.

Courses Offered

- B.Tech. (Full time and Part time)
- M.Tech. Power Electronics & Drives (Full time and Part time)
- Ph.D. (Full time and Part time)

Facilities

- Power Electronics and Drives Laboratory
- Power System Simulation Laboratory
- Measurements and Instruments Laboratory
- Control System Laboratory
- Electronic Devices and Circuits Laboratory
- Electrical Machines Laboratory
- Power Electronics Laboratory
- Electrical Engineering Laboratory
- Advanced Drives Laboratory (Servo Motor)
- LED Lamps Assembling Unit
- Motor Coil Rewinding Unit

Research Activities

- Solar Power Technologies
- Power Quality Issues and Grid Interface for Power System
- Development of Pico Hydro Power Generation
- Power Generation from Bio-diesel and Solid Wastes
- Wind Micro-Hydro Gasifier Hybrid System
- Power Factor Improvement using SVC devices
- Optimization of Eco-friendly power generation schemes.
- 2 KW on grid SPV system installed in Technology Block I and 263 units of energy saved.

Advanced Equipments and Software

- Digital Storage Oscilloscope, Model: TBS1062, Non-Isolated 60MHz, 1 GS/s, 2.5K Record Length, 2-Channel Colour Display
- PSCAD software Version 4.3
- ETAP Version 5.5
- MATLAB 7.0 with 25 boxes & 07 Block sets



Consultancy Work

- LED lamp Assembling and installation (5W & 8W) in the campus.
- LED soldering and assembling training to PURA villages.
- Energy Auditing by faculties and students.

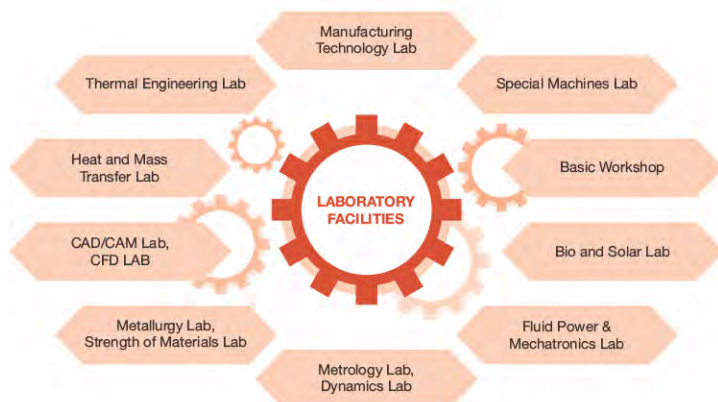
DEPARTMENT OF MECHANICAL ENGINEERING

Courses Offered

- B.Tech. (Full time and Part time)
- M.Tech. in Renewable Energy (Full time and Part time) supported by Periyar R&D Centre for Solar and Bio Energies
- M.Tech. in Automation & Control (Full time and Part time) supported by Centre of Excellence for Training and Research in Automation Technologies and in collaboration with M/s Bosch Rexroth (India) Pvt. Ltd., Bengaluru.
- Ph.D. (Full time and Part time)
- Certificate course in Energy Management in collaboration with University of Maryland, U.S.A.

Special Features of the Department

- Faculty with diverse specialization viz. Manufacturing, Renewable Energy, Automobile, Thermal, Energy Engineering, Engineering Design, Nanotechnology, CAD/CAM and Product Design and Development, etc.
- Full-fledged department library
- Faculty Development Programmes and E-outreach programmes from IIT Bombay on various courses for faculty enrichment.
- Teaching - Learning through E-content, Multimedia, Smart Interactive Board and National Programme on Technology Enhanced Learning (NPTEL).



Learning and Development Opportunities

- Value added programmes such as ANSYS, Pro/E, NDT and MASTERCAM, etc. conducted
- Hands on training on equipments and machineries including CNC Milling and CNC lathe
- Training on latest automation technologies through the Centre of Excellence for Training and Research in Automation Technologies
- Student Executive Programme to understand resources and systems
- Guidance for placement and overseas higher studies
- Knowledge transfer and leadership development through Webinars, Seminars, Conferences, Symposia, Workshops, Clubs and Societies.
- R&D financial support to students for taking up projects with innovation and societal application (like Solar power operated car, Eco challenger, Fluidized bed reactor, Multi wood cutter, Two wheeler for persons impaired with both arms, etc.)
- India's first educational institution that installed 200 kWe and 100 kWe biomass gasifier units to produce captive power of 300 KVA

Research Initiatives / Activities

- Focuses intensive research on Renewable Energy - especially on Biomass gasifier, Biomethanisation and Solar thermal applications, Solid Waste Management.
- Working on projects funded by Department of Science and Technology, Government of India and other Government Agencies / Ministries.
- Collaborative research with Cape Breton University, Canada.
- Established Periyar Energy Park which operates and maintains various renewable energy gadgets in the campus.

Consultancy

- Consultancy services in renewable energy areas, wood and steel fabrication and CNC machining works
- Tie-ups with leading industries and organisations such as BHEL-Trichy, CIL, BOSCH, BHELSSIA and WRI.
- Developed Arecanut sheath dryer for making articles in Andaman and Nicobar islands funded by NABARD.



NANOTECHNOLOGY DIVISION

The emphasis of Nano Education is to train students to understand and address the issues in the areas of solar energy, communication, nanobiotechnology, corrosion Engineering and nanomechanics etc.



Facilities for Laboratory experiments and Research

- Electrospinning setup
- Spray pyrolysis
- Wet chemical lab
- Scanning Electron Microscopy (SEM)
- Atomic Force Microscopy (AFM)
- Differential Scanning Calorimetry (DSC)
- High Pressure Liquid Chromatography (HPLC)
- Lyophilizer
- Fluorescent Microscopy and simulation software's

Placement, Research and Project

- Students are doing research with their fellowship in Korea University, South Korea.
- Students have carried out project works at
 - Cape Breton University, Canada under Commonwealth Scholarship-2012
 - Indian Space Research Organization (ISRO), Bengaluru
 - Central Electro Chemical Research Institute (CECRI), Karaikudi etc.

Many of the passed out students were placed in various Research Institutes, Educational Institutes and Industries in India.

Courses offered

M.Tech & Ph.D



**SCHOOL OF COMPUTING SCIENCES
AND ENGINEERING**

SCSE

Reflecting and Shaping the Society of the 21st Century.

Access to NMEICT - National Mission on Education through Information and Communication Technology (An initiative of MHRD, Govt. of India) programmes, NPTEL contents, Digital library. Our Consistent effort in training our students to meet out the industry requirement yields good placement record in Tier 1 software companies and R&D Organizations.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



- Since inception for the past 25 years
- Offers B.Tech. Computer Science and Engineering, M.Tech. Computer Science and Engineering (Full Time and Part Time) and Ph.D. programmes (Full Time and Part Time)
- Accredited three times since 1998 by National Board of Accreditation-AICTE
- Facilitates the students to enrich technical know-how with the guidance of a team of well qualified and dedicated staff.

Important events and programmes organized

- National level ICT festival in which experts participated and shared their knowledge. Mr.Sridhar Mitta, Managing Director, Next Wealth Entrepreneurs Private Limited, Bengaluru, inaugurated and the notable speaker was Prof.F.C.Kohli- the Father of Indian Software Industry
- Five days training programme on Natural Language Processing in association with Linguistic Data Consortium - Indian Languages (LDC-IL), Mysore, a division of MHRD, Govt. of India
- Global Certification Programme in SAP R/3 and Oracle 10g
- Frequent Spoken Tutorial programmes in association with IIT B, Mumbai
- ISTE sponsored Short Term Training Programmes on Computer Programming, Data Base Management System as a part of NMEICT Programme in association with IITs

Innovative practices

- Introduced case study presentation / product demo in mid semester examination for Post graduate studies in all subjects.

Facilities

- Good number of high end systems, servers and licensed software
- Wi-fi Campus
- 24 x 7 internet facility
- Access to NMEICT- National Mission on Education through Information and Communication Technology
- NPTEL contents, Digital library

Placement

- Our Consistent effort in training our students to meet out the industry requirement yields good placement record in Tier 1 software companies and R&D Organizations.
- Accenture and CTS are some of the Tier 1 companies recruited our students through campus drive.

Projects

- Has received grants for establishing a specialized environment for carrying out the research oriented activities in the areas of Software Engineering, Multimedia Applications and Web Services.
- Has received grants for organizing various short-term training programmes in the fields of Wireless Security, Data Mining and Warehousing, Cryptography.

Ongoing Research

- Network Congestion Control
- Question Answering System
- Digital Video Processing
- Cloud Computing



Activities

- Organises Technical showcase, Symposium, Seminars and Conferences periodically to bring out the talents of students and to improve their leadership qualities.
- Motivates the students to take part in National, State level competitive examinations, project exhibitions, paper presentations etc.
- Facilitates students with skill development programmes like SAP R/3, oracle, Java,.Net, Network simulators etc



An Indigenous ERP Package BRAIN (Brilliant Resources for Academic Institutions) is developed to smoothen the day to day administration of University starting (i) from students admission to their placement, (ii) from staff recruitment to their career development, (iii) from purchasing of materials to establishing /maintaining the infrastructure etc. As the entire data is available in the database, any analysis can be done at any desired point of time. Easy User interface design makes the system easier for staff and students.

DEPARTMENT OF INFORMATION TECHNOLOGY

Objectives

- To acquire analytical and problem-solving abilities leading to solutions using Information and Communication Technologies (ICT).
- Constant updating in curriculum and incorporate innovations in ever-changing IT industry

Courses Offered

- B.Tech.
- M.Tech. (Software Engineering)

Training Programmes

- Computer training for TNEB employees
- Conducted CCDDP (Concurrent Career Development Programme) course for students (C, C++, Java)
- Computer Awareness Programme for Self-help groups
- Certification programs MTA (Microsoft Technology Associate) and HPATA (Hewlett Packard Accredited Technical Associate) by Certipoint available

Why study IT course @ PMU

- Enhance creativity thereby reflecting and shaping the society of the 21st century.
- Widen the scope leading to promoting entrepreneurship, creative talents and technical skills in the field of IT.
- Integrate the different talents in a multi-disciplinary team with focus on team spirit and managerial skills.

Overview

- Membership in Professional bodies like CSI, IEEE and ISTE. Published technical papers in various conferences both in National and International levels in leading journals.
- Exclusive laboratories for Digital E-Publishing.
- Android based mobile application projects.
- Intallsuite MEMS simulation software training for designing micro –fluidics and Thermo electromechanical devices.
- State of the art Audio-Visual rooms
- Akash Tablet PCs for E- learning.
- Guest lectures, Symposia and National level conferences funded by AICTE, CSIR, MoES, ISTE etc. to expose students to current technological trends.
- Embedded Systems Design Training programmes
- Motivational, Soft skills and Personality development classes to give an impetus for placement through campus interviews.
- Workshops to gain hands on experience on vital software.
- Placement in various reputed companies like INFOSYS, TCS, CTS, WIPRO etc.



DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

Degree Courses Offered

- M.C.A. (Regular – 3 years)
- M.C.A. (Lateral – 2 years)
- M.Phil.
- B.C.A - Operations Research
- B.Sc. - Visual Communication
- B.Sc. - Computer Security System
- Ph.D.

Certificate Courses Offered

- SAP R/3
- Oracle 10g

Salient Features

- Six months internship
- Curriculum with Engineering focus
- Case Studies, Presentation / Product Demos for Mid-Semester Evaluation
- Industry based Real time Application Projects in final year



Research and Development

- Thrust areas are
- Networking
 - Data Mining
 - Semantic Web
 - E-Learning

DEPARTMENT OF SOFTWARE ENGINEERING

- The five year Integrated M.Sc Software Engineering is an industry-focused course.
- Handled by experts in software engineering with world-class research in this area.
- Towards positions in software houses, consultancies and with major software users such as the financial sector.
- At length, candidates are eligible to pursue M.E (CSE/SE) or Ph.D. degree, or academic/research career.

Salient Features

- Internship in the Pre-Final year
- Phased project work during Final Semester

Objective of the Course

Acquire Skills in

- Analyzing user requirements and designing appropriate software solutions.
- Designing and creating complex software systems to solve real world problems.
- Evaluating and using basic and advanced software engineering environment, design methods and programming languages.
- Evaluating and responding to recent trends in software development.

Student Consultancy

The Student Consultancy provides employability skills training and work-based experiences to students.

- E – Governance Software
- Web Site Designing
- Computer Hardware Assembling

Placement Training

- Skill development course like Microsoft Office Specialist / Adobe Certified Associate / HP Cloud Computing
- Certified course : Software testing, CCNA, SAP, Six Sigma
- Industry Institute Programmes - Corporate leaders from leading industries are invited to interact with students.



SCHOOL OF HUMANITIES, SCIENCES
AND MANAGEMENT

SHSM

Produce Talented, Knowledgeable and Well Rounded Professionals

Students are encouraged to participate in programmes organized by other educational institutes for a broader exposure. They are exposed to activities like organizing and planning that prepare them for taking up managerial post in any MNC.



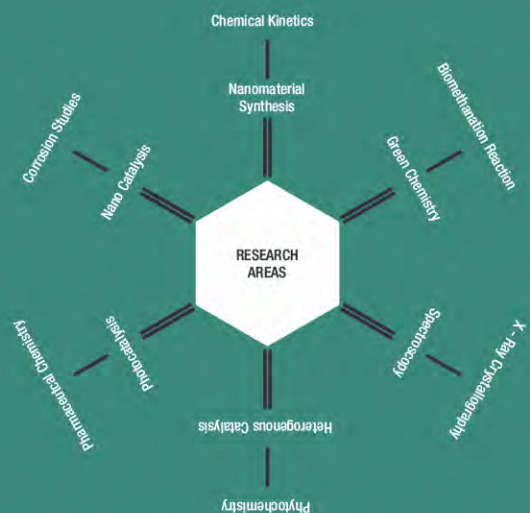
DEPARTMENT OF CHEMISTRY

- Provides inputs both in theory and hands-on practical training in chemistry to the undergraduate technocrats.
- The Department focuses on Applied Chemistry and Environmental Engineering.
- Also offers M.Phil. and Ph.D. programmes.

Other Activities

- The Department is actively participating in Solid Waste Management in the PMU campus and towards carbon neutral.
- Involves in the study on chemical reactions of the Biomethanisation process in collaboration of other Engineering Departments.

The faculty members have published many research articles in the reputed National and International journals apart from contribution in National and International conferences, Seminars and Workshops.



DEPARTMENT OF ENGLISH

Goal

- To make every student a good communicator in spoken and written mode.
- To meet the National and Global demand of scholars with excellent soft Skills.

Best practices

- Development of career opportunities and Communication Skills - Written and Spoken.
- Bridge, Remedial Course, regular tests and special attention to weaker students.
- External Experts visit and interaction from English and Foreign Languages University – Hyderabad, Central Institute of Indian Languages - Bangalore.
- Language lab with e- content, audio, video CDs, speech practice and Multi Media.
- The Business English Certificate Course in collaboration with the British Council, Chennai and the Cambridge University, London.

Research

- Ph.D. Full / Part Time on a variety of subjects: ELT, Testing, American and Indian British Literature and Linguistics.
- Out of 12 scholars, two submitted their Theses. Others are actively pursuing.



In house Soft Skills Training

- Coaching & Mentoring
- Personal Effectiveness
- Winning at Workplace
- Time Management
- High Performance team building
- Planning & Organizing
- Train the trainer
- Personality Development
- Business presentation skills
- Leadership excellence
- Communication skills
- In pursuit of Managerial Excellence
- Stress Management
- Campus to Corporate



DEPARTMENT OF MATHEMATICS

Objectives

- To emphasize Application of Mathematical concepts in Engineering
- To adopt Creative Methodologies in teaching Mathematics
- To enhance applied research in core areas of Science, Engineering and Technology

Research and Development Activities

- Areas of specialization - Algebra, Topology, and Graph Theory, Stochastic Processes, and Fuzzy logic.
- Organized a Two day International Conference on Algebra and its Applications (ICOAA) funded by the National Board for Higher Mathematics (NBHM-DAE), Mumbai. Experts from Italy, Germany, the United States and various parts of India took part in the two day event.
- Organized International conference on Recent trends in Discrete Mathematics and its Applications to Science and Engineering (ICODIMA).
- The staff and students participated in the Srinivasa Ramanujan Mathematical competition conducted by ISTE - Zonal Level for Engineering college teachers and students every year and our faculty members got prizes in zonal level.

Courses offered

- M.Sc - Mathematics
- M.Phil - Mathematics
- Ph.D. - Full time and Part time

Facilities

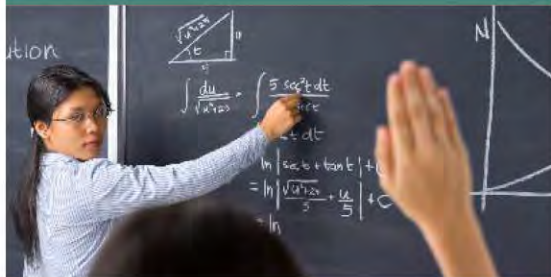
- Library with latest books, e-content, National and International Journals and Magazines.



Activities

The Department organizes

- Training programme for numerical aptitude tests
- Foundation course for the first year students
- Bridge course for the Lateral Entry students
- Workshops, Seminars, National / International Conferences, for the subject up-gradation.



DEPARTMENT OF PHYSICS

Courses Offered

- B. Sc Applied Electronics
- M.Sc Physics
- M.Phil
- Ph.D (Full Time & Part Time)

Salient Features

- Practising e-learning & teaching for the students in full fledged manner and e-content CD distributed to all the first year students.
- Submission of Mini Project by the students practiced to improve their scientific knowledge, and thinking level.
- Hands on Training to operate Thinfilm coating unit.
- Faculties Published Applied Physics book and Lab manuals for first year B. Tech students.
- Well established and spacious laboratories.
- Department Library with updated books.



Research Facilities & Research areas

- Spray pyrolysis research laboratory for PG students, M.Phil and Ph.D research scholars.
- Research activities are being carried out in Thin film, crystal growth, Crystallography, material science, Solar energy, NDT and solar vacuum tube collectors.
- Published papers in peer reviewed International and National scientific journals.
- Opportunity to work on solar energy projects through the Periyar R&D centre for Solar and Bioenergies,
- Collaborative research work with IISc, Bengaluru in the field of Shockwave Technology.



DEPARTMENT OF MANAGEMENT STUDIES

Objectives

To produce talented, knowledgeable and well rounded professionals to work in competitive business world.

Activities

- Organizes National, International Conferences, Seminars and Workshops for the benefit of the faculty of the university and surrounding educational institutions. The department also organizes management meets to improve the confidence and soft skills of students.
- Organizes students activities that promotes Skills Sets like Negotiation, Marketing, Product Design and Promotion, Utilization of Manpower and Corporate Social Responsibilities.

Experimental Learning

- Mentorship
- Internship and fieldwork
- Industrial visit
- Case Study Methodology
- Mastery of Language Effectiveness

Courses offered

- MBA** - (Dual Specialization) is two year full time programme that allows students to specialize in two major areas of their choice
- B.Com-** (Hons.) is a unique undergraduate three years course designed to prepare students to get professional certifications such as Chartered Accountant (CA), Company Secretaryship (ACS), Cost Accountant (ICWA), CPA and CFA
- B.Com-** (Computer Applications) is three years course that provide a mix of commerce and computer knowledge to students
- M.Sc.** - (Entrepreneurship & Innovation) is a unique two years course designed to create knowledgeable entrepreneurs to be innovative in the business arena
- Ph.D.** - Programme conducted as full time as well as part time.



Learning Opportunities

- Students encouraged to participate in programmes organized by other educational institutes for broader exposure
- Exposed to activities like organizing and planning that prepare them for taking up managerial post in any MNC
- Training on entrepreneurship development to start their own business and to be self-sustain
- SAP R/3 Training on Human Resource, Material management, Finance and Sales Distribution that gives them better placement avenues in reputed MNCs
- Business Projects that provide them the insight of organisational design of a company
- Mini-projects at companies to understand various business operations
- Assignments to manage events within the University, which inculcate event management skills.
- Exclusive library with management text books, personality development books and management journals (National and International).

DEPARTMENT OF EDUCATION

B.Ed (Regular), One Year programme of Department of Education from the Academic year 2009-2010. It has been recognized by NCTE Bangalore (order No. F: SRO/NCTE/B.Ed/2009/15854/dated 25.09.2009).

Subjects Offered And Eligibility

Tamil, English, History, Geography, Mathematics, Physical Science, Biological Science, Computer Science. (UG/PG Degree from any recognized University with minimum of 45% marks)

Commerce and Accountancy, Economics (only PG Degree with minimum of 50% marks)

Forthcoming Course

B.Sc.Ed Programme (Four Year Integrated)
Subject to approval by SRC, NCTE.

Selection Procedure

UG/PG Marks in the relevant Degree Examination
Weightage for Higher Qualification

Special Features

- 28% of Alumni have passed TET as against the state average of 4%
- Well equipped Laboratories
- Highly qualified faculty members
- E – Content teaching
- Excellent teaching
- Tamil/English medium
- Coaching for TET & Communication Skill

Focus on Skill Building

- Learning by Doing
- Action - Research
- Project - based learning
- Blended Learning Techniques
- Model – School approach
- Providing leadership training
- Empowering underprivileged & Women students
- Promoting academic exchange
- Establishing academic linkages between Educational Institutions
- Catering the needs of diverse students
- Facilitating the students to grow to their utmost potential
- Developing global perception

Salient features of B.Sc.Ed

- Approved by UGC
- 3 Major programme Degree (PCM, PMCs) with B.Ed (in all four years)
- Better Job opportunities
- Can pursue M.Sc. in any of the three major subjects studied in their B.Sc.Ed.
- Development of Pedagogical skills for three major subjects in all the four Years.
- Developing innovative techniques and strategies in delivery of content in teaching.
- Developing professional competency of the teacher.
- Developing e-teachers.
- Simultaneously preparing for TET Examination.
- A strong foundation in teaching, Learning process



CENTRES

Placement, Training and University - Industry co-ordination.

Students are exposed to case studies, Industrial and field visits. Also, Soft Skills Training including Communication & Personality Development and aptitude training are offered to all students from First year to Final year.

CENTRES



CENTRE FOR UNIVERSITY INDUSTRY INTERACTION (CUII)

- The major activities of the centre are Placement, Training and University - Industry co-ordination.
- In 2013, 75% of the students are placed through on / off Campus, a regular feature of the University.
- PMU also permits local Colleges / Universities to participate in the Campus interviews arranged in its premises.
- Soft Skills Training including Communication & Personality Development and aptitude training are offered to all students from First year to Final year
- Coaching given for GATE, TANCET, GRE, GMAT, IELTS, TOEFL etc. for students aspiring for higher studies and employment.
- Compulsory In-Plant Training for 15 days, 21 days and 60 days for I year, II year and year respectively assigning due credits.
- Students are exposed to case studies, Industrial and field visits.
- Internship / Project works carried out in industries and R&D Institutions in India and Abroad



63 MOUs have been entered with reputed Institution / Industries in India and Abroad. Some of them are listed as shown below.

- Bosch - Rexroth India Pvt. Ltd., Bengaluru
- SAP India Pvt. Ltd., Bengaluru
- National Institute of Technology, Trichy
- National Institute of Technical Teachers Training and Research, Chennai.
- RWTH, Aachen University, Germany
- San Diego State University, San Diego, California, USA
- INFOSYS Technologies Ltd., Bengaluru
- Management Development Institute of Singapore (MDIS)
- Agathiyar Herbal Physiotherapy Centre, Thanjavur
- Construction Industry Development Council (CIDC), New Delhi.
- VKN Aviation Academy, Trichy
- Lunghwa University of Science and Technology, Taiwan
- ICT Academy of Tamil Nadu.
- Cologne University, Germany
- TEJAS Networks, Bengaluru
- Indian Welding Society (IWS)
- BHEL Small Scale Industries Association (BHELSSIA)
- Confederation of Indian Industries (CII)
- University for Development Studies, Ghana
- Cape Breton University, Sydney, Canada

The major recruiters hither to were

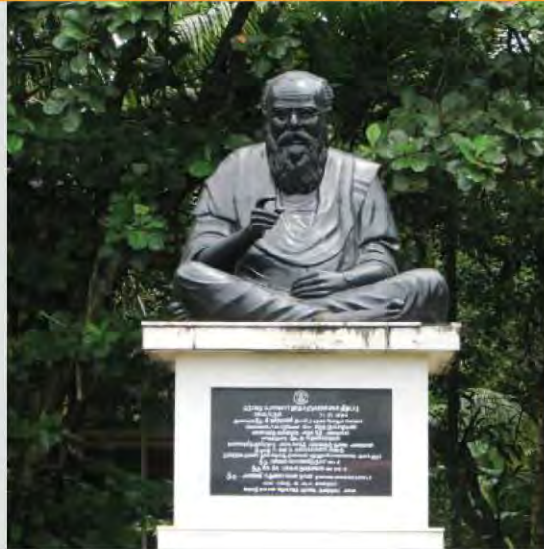
The MOUs Partners



CENTRE FOR PERIYAR THOUGHT (CPT)

Objectives

- To disseminate basic ideas of Periyar
- To relieve people from all kinds of superstitions
- To instill a spirit of Scientific Inquiry and Temper
- E.V. Ramasamy popularly known as 'Thanthai Periyar', the great revolutionary thinker and social reformer. Worked for the emancipation of the suppressed, oppressed and socially marginalized.
- Awakened the poor and the gullible from the clutches of obscurantist philosophy and superstition.
- Served for abolition of untouchability and against social inequality. Periyar is the real emancipator of the women folk and a motivator of their education.



CPT has planned and executed

- The Certificate Courses in order to orient M. Phil and Ph. D scholars in Periyar Thought.
- A Five year integrated Master's degree Course in Periyar Thought and also to offer a one - year P.G. Diploma.
- Monthly meetings by organizing special Lectures on Thanthai Periyar by various eminent personalities.
- A 6-month Certificate Course on Periyar Thought for Teaching and Non-Teaching staff of the University.
- Encouragement of research scholars towards the study of Periyar and his thoughts in comparative angle.



CENTRE FOR RURAL DEVELOPMENT (CRD)

The Centre for Rural Development plays a significant role in promoting socio economic standards by sustainable development in rural areas through Academic, Outreach and Research.

Courses offered

- Master of Social Work (MSW) - 5 year integrated course for +2 Passed
- Master of Social Work (MSW) - 2 year course for UG passed graduate in any discipline
- M.Phil. Social Work (Full Time) - 1 Year
- Ph.D. Social Work (Full Time and Part Time)

Outreach Activities

- The unique distinction of CRD is to empower the rural people and enhance their livelihood
- Internet Kiosk
- Health Care
- Child Helpline
- Assured Marketing
- Local Environment
- Transport Facilities
- CHILDLINE 1098 - Department of Social work, CRD - PMU has been recognized as Nodal Organization for Child Care and Protection covering the Thanjavur District since 2011, funded by Ministry of Women and Child Development, Government of India.

Research

- Corporate Social Responsibility (CSR) programme of ACC Limited, Mumbai in collaboration with Centre for Climate Change, Clean Thanjavur Movement and CRD has undertaken an Action based research project on Solid Waste Management involving 1000 households at Vallam Town Panchayat.
- The research potentials are directed towards increasing employment generation, technology transfer, innovative practices for agriculture, village and women & child development.



Career Development

- Students are exposed to Hands-on Field based Skill trainings in Industry / Health Care Centres / Rural & Urban Community and NGOs.
- Residential Camps and six months on-site placement internship training.
- Students are placed in Government projects, Non-Governmental Organisations, Industries, Business concerns, Hospitals and Service sectors.



CENTRE FOR CLIMATE CHANGE (CCC)

Periyar Maniammai University (PMU) firmly believes not only in elevating the academic standards of Rural and Urban Communities, but also in societal upliftment. Our University has established the Centre for Climate Change in 2009 for the effective implementation of the Green practices.

Objectives of the Centre

- Spreading knowledge of climate change
- Conducting Seminars / Workshops and awareness programmes
- Ensuring eco friendly land-use planning and agriculture
- Creating conditions conducive to Research and Innovation.

Activities

- 60 Awareness campaign in schools, colleges and public wards of Thanjavur Corporation.
- 20 Seminars / Workshops / Conferences organized
- Student Chain, Green Marathon - 70,000 school and college students actively participated.
- Under Nimal Bharath Abiyan Scheme of Govt. of India, PMU jointly with DRDA, Thanjavur, organized 24 awareness training programmes on Solid Waste Management to 480 Panchayat Presidents and 180 Block Development Officers, Engineers and Overseers of Thanjavur district.

Highlights

- The Centre offers M.Tech Environmental Engineering, M.Sc. Environmental Sciences and Ph.D.
- Established ENVIRONMENT INFORMATION CENTRE sponsored by Department of Environment, Govt. of Tamil Nadu
- First Recipient of "Karmaveerar Kamarajar Award" in 2009 from Government of Tamilnadu
- Offers Consultancy works on Analysis and treatment on Water, Wastewater, Solid Waste Management and Bamboo cultivation



Clean Thanjavur Movement (CTM)

The Municipal Solid Waste Management is an important extension activity of this Centre.

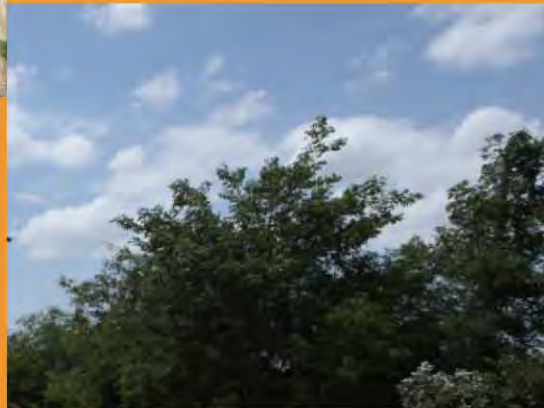
- It has its origin from the Indo- German Workshop held in 2004 in this institution.
- It is undertaking the Thanjavur Municipality for its cleanliness in coordination with Periyar Maniammai University and being participated by Universities, Colleges, Schools, NGO's and Other Service Organizations in Thanjavur.
- Clean Thanjavur Movement has been extended to cluster of Panchayats namely Pillayarpatti, Nilagiri, Nanjikkottai, Melaveli, Ramanathapuram, Vilar and Punnai Nallur in Thanjavur District for the installation of Biomethanisation Plant in association with District Rural Development Authority, Thanjavur.

Green Practices

- Practicing International 5R's (Refuse, Reduce, Reuse, Recycle and Recover) concept on Solid Waste Management.
- Installed India's first 500 m³ capacity multifeed Biomethanisation plant which produces 60KWe energy from waste.
- Implementing rain water harvesting techniques and harvested 80,000m³ per annum within the campus.
- Reduced the CO₂ emission with a quantum of 32,340 tonnes per year.
- Bamboo Cultivation in PMU over an area of 10 acres under National Bamboo Mission Programme.

Projects

- Design of Sewage and Grey water treatment Units
- Environmental Impact Assessment
- Comparative Study on Vermicomposting process using Vegetable wastes and Fruit wastes
- Characterisation and Optimisation of different types of feed stocks for Biogas production.
- Determination of biogas production using fruit wastes.
- Groundwater Contamination Assessment.
- Characterisation of the filter media and evaluation study on drinking water and Grey water purification.
- Design and Research works in Solid waste management and Biomethanisation.



The Students engaged in the above projects have become EIA consultants and Analysts in the reputed organizations and Entrepreneurs.

CENTRE FOR STUDENTS AND ADMINISTRATIVE SERVICES (CSAS)

CSAS consists of the following Division

- Students Activities
- Faculty Activities
- Clubs and Societies

Clubs

1. Athletic Club
2. Badminton Club
3. Basketball Club
4. Citizen Consumer Club
5. Drama Club
6. Energy Club
7. Thinkers Club
8. Environment Club
9. Football Club
10. General Knowledge Club
11. Humanist Club
12. Innovators Club
13. Karate Club
14. Media Producers Club
15. Painters and Cartoonist Club
16. Transformers Club
17. Photography Club
18. Public Affairs Club
19. Rationalist Club
20. Reformers Club
21. Badminton Club
22. Volley ball Club
23. Writers Club

Societies

1. Dance Society
2. Debating Society
3. Entrepreneurship Society
4. Foreign Culture Society
5. Heritage Society
6. Music Society
7. Tamil Mandram
8. Visual Communication Society
9. Yoga and Meditation Society

Other Activities

- Facilitating the students' towards personality development, organizing and leadership skills by organizing workshops through clubs and societies
- Addressing the students' grievances
- Monitoring functions of the students' clubs and societies
- Conduct of students' council election in a democratic way each year
- Assistance to get passports for the students
- Committees to ensure ragging free campus
- Bi monthly news bulletin and monthly e-news bulletin
- Coloration with various professional bodies like ISTE, NSSW, INTACH, IEEE, SESI, AeSI, BES, INS, and CSI,



DR.KALAINAR M.KARUNANITHI CENTRE FOR POLITICAL SCIENCE (KKCPS)

Courses Offered

- B.A** - Political Science (3 years course)
- M.A** - Political Science (5 years integrated course)
- M.A** - Political Science (2 years lateral entry)

Research Programmes

M.Phil. & Ph.D.



Coaching classes and guidance

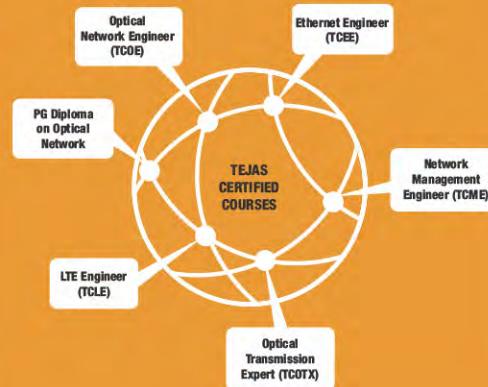
- UPSC
- TNPSC
- Banking Examinations
- Other Competitive Examinations

CENTRE OF EXCELLENCE FOR NEXT GENERATION NETWORKS

Bridging the gap between the academics and industry is a challenging part of engineering education. To make the graduates industry ready, Periyar Maniammai University and Tejas Networks, Bengaluru have jointly established a centre to enhance the technical know-how in the area of next generation networking.

Objectives

- To offer industry oriented training courses and certification programs on the emerging and prevalent telecom technologies.
- To provide hands-on training on design, operation, and management aspects of telecom technologies.
- To endow with real time setup for students and staff to take up research oriented projects.
- Joint establishment will provide better skills for the students in their placement in telecom and networking industries.



CENTRE OF EXCELLENCE FOR TRAINING AND RESEARCH IN AUTOMATION TECHNOLOGIES (CETAT)

Centre established as joint venture with M/s Bosch Rexroth, Germany with the objectives of

- Bridging the technological gap, improve the technical competence, employability and entrepreneurship.
- Training needs of industry personnel
- Providing an insight into major research in the field of Automation Technologies

Faculty members trained at Bosch Rexroth facilities, Mysore and Germany

Training offered through multimedia presentation, cut sections, training kit, sample units, power units, PC animations and circuits simulations.



Levels of training on Automation technology

- Certificate course
- Diploma
- PG Diploma
- In plant training
- Project work



Lab Facilities with world class equipments

- Hydraulics lab for experiment on electro hydraulics
- Pneumatic lab with portable compressors and training kits
- Multi station programmable logic control lab with computer facility for programming
- Sensorics lab with assorted sensors and materials

CENTRE OF EXCELLENCE FOR ENTERPRISE RESOURCE PLANNING (CEERP)

PMU Centre of Excellence for Enterprise Resource Planning (CEERP) is a SAP Authorized Training Partner. It provides a diverse curriculum of SAP approved education, training and certification courses across a range of modules.

Courses Offered

- Diploma in ERP with SAP R/3
- P.G. Diploma in ERP with SAP R/3

Features

- SAP Trained faculty members
- 2000 students have been trained in SAP 01, SAP B1 and SAP R/3
- Excellent Learning Materials
- Flexible Batches & Timings
- 24 X 7 SAP Lab facility

SAP R/3 Modules

- ABAP (Advanced Business Application)
- MM (Material Management)
- FI (Finance)
- HR (Human Resource Management)
- SD (Sales and Distribution)



VEERAMANI MOHANA CENTRE FOR QUALITY LIFE ENGINEERING RESEARCH (VMCQLER)

Veeramani Mohana Centre for Quality Life Engineering Research (VMCQLER) established in the year 2009, aims to enrich Quality of life for the growing community of Engineers, Scientists, Practitioners, Consumers, Elders and Rural community through participation.

Diploma / Certificate Courses offered

- Herbal Physiotherapy
- Herbal Science
- Acupuncture science



Activities

- Medical Awareness camps and lectures on health care
- Professional counseling
- Blood and Organ Donation camps and Free Medical checkups
- Seminars and Conferences towards sustainable health care

Research

- Scientific validation of traditional herbals and its formulation as per World Health Organization (WHO) guidelines.
- Herbal Drug Research - Extraction of Bioactive compounds and their systematic evaluation studies (Pharmacology and Drug discovery)

In Associations with

- Aravind Eye Hospital, Madurai
- Billroth Hospital, Chennai
- GVN Hospital, Trichirappalli
- Rohini Institute of Alternative Medicine, Chennai
- Cumbam Academy of Acupuncture, Cumbam
- Thanjavur Cancer centre, Thanjavur

PERIYAR R & D CENTRE FOR BIO AND SOLAR ENERGIES

Objectives

- Inter-disciplinary research to develop novel technologies addressing clean energy and environment.
- Technology transfer to community & industries.
- Developing cost effective energy gadgets.
- Training on cutting edge technologies in solar and bio energy
- Promoting entrepreneurship in energy production.

Courses Offered

- M.Tech. in Renewable Energy (Regular and Part time) supported by Department of Mechanical Engineering
- Certificate course in Energy Management in collaboration with University of Maryland, U.S.A.

Facilities available

- Supported by Mechanical, Electrical, Energy, Biotechnology, Chemical, Environment and Nanotechnology departments etc.
- Designed, fabricated and operating 1 kW, 2 kW and 20 kW Bio mass gasification plants.
- 2 kW on grid solar systems for solar photovoltaic research
- 4.05 kW solar power plants for lighting load in hostel dining hall and kitchen
- 15000 lpd solar water heater in hostels and guest house
- Sophisticated equipment for bio energy research such as Thermo Gravimetric Analyzer, Gas Chromatograph, Portable Biomass Gas Analyzer, Portable Exhaust Gas Analyzer, Bomb Calorimeter, etc.
- Briquetting Machine for conversion of agro residue such as coir pith, saw dust, rice husk etc., into biomass fuel.



ONGOING RESEARCH ACTIVITIES

GASIFICATION

Characterization of different biomass

Design of multi feed reactor

Modeling and simulation for Product gas composition Prediction/Reaction kinetics

Development of Lab Scale / commercial Portable Unit

Mini level Power generation / Thermal application

Power Quality Improvement

Edible and Non-edible De-oiled cakes gasification

Nano catalysts for efficiency improvement and corrosion reduction

BRIQUETTING

Utilization of different materials

Screw improvement analysis

BIO FUEL

Performance of IC Engine using Bio Diesel

Process development for integrated Algal Bio fuel

SOLAR ENERGY

Development, evaluation and refinement of solar thermal and SPV systems

Improvement of solar cells efficiency and power quality

BIO-METHANIZATION

Characterization of different feed

Optimization of feed

Enhanced Gas Production / Enzymes

Study of effects of Nano catalysts / Nanomaterials

Study of biological reaction, gas generation and by-products using Shockwaves

Engine performance analysis

Min / Micro level Power generation

Development of Lab Scale Unit



VOLUNTEERING

NATIONAL SERVICE SCHEME (NSS)

- 10 units are functioning in the University.
- 1000 volunteers are enrolled.
- Programmes are carried out by 10 programme officers and coordinated by one programme coordinator.
- Blood Donation Camp and Tree Saplings plantation are mandatory.
- Regular activities and Special camp programme are carried out successfully.

Achievement

- Our students each year participate in the Republic Day Parade Camp.
- To mention S.Nayagara (ECE) participated in the 100 members visit to youth Delegation programme at China from 17th to 26th June, 2010.
- Our students participate in the Adventure camp programme every year.
- Interstate youth Exchange programme: 4 NSS volunteers with one programme officer participated at Itanagar, Arunachal Pradesh from 9th November to 18th November 2009.

Objectives

- To give an intensive dimension to the higher education.
- To orient the student youth towards community service through NSS.
- By providing opportunity for the NSS volunteers to work with village people and to be aware of the problems of villagers and involve them in problem-solving.
- Volunteers to have a change in their social perception.
- develop competence required for group-living and sharing of responsibilities
- gain skills in mobilising community participation
- acquire leadership qualities and democratic attitudes
- develop capacity to meet emergencies and natural disasters and
- practise national integration and social harmony

NATIONAL CADET CORPS (NCC)

- NCC Girls wing is headed by Lt. P.Vijayalakshmi from 2003.
- NCC Boys Division is headed by U. Saravana kumar as care taker from 2012.
- 20 NCC Army Wing Girl cadets vacancy was transferred to Air wing and it is functioning very well.
- NCC AIR Squadron vacancy was allotted to our university on the basis of out of turn allotment and it will be raised this year.
- Every year we are conducting more than 4 to 6 NCC local and national level camps in our university.

- Our NCC Cadets participated in the Inter unit competition and Inter group competition and won the medals in Drill, flag area, cultural events.
- Conducted the blood donation camp, lecture on solid waste management during CATC NCC camps to motivate the cadets involve in social service activities.
- 40 of our NCC cadets participated in the Hero's day function on 14.02.2014 which was held in Bishop Heber college, Trichy.
- Plan to raise the Naval unit. Proposal has been sent.

YOUTH RED CROSS (YRC)

No.of Volunteers - 100

YRC Activities

- First Aid training programme
- Traffic Training programme
- Blood donation Camp
- Health care Camp
- Eye Camp
- YOGA Classes

Achievements of YRC

- Best Performance in Youth Red Cross Movement award was received from Thiru.D.Jayakumar, Hon'ble Speaker, Government of TamilNadu.
- Indian Red Cross Society, Thanjavur branch is going to provide the appreciation award for blood donation of YRC volunteers.
- Thanjavur Medical College Blood bank & Tamilnadu AIDS Control Society, Thanjavur is going to provide the appreciation award for blood donation Camp Organizer.



RED RIBBON CLUB (RRC)

University has established 3 Units of Red Ribbon Club with 300 students combined with National Service Scheme. Red Ribbon club programme was sanctioned by TAMIL NADU STATE AIDS CONTROL SOCIETY (TANSACS) which was the first registered Society in India for HIV/AIDS control and prevention registered in 1994 as a mandate of National AIDS Control Organisation (NACO), New Delhi.

Programmes

- Celebrating Life Programme
- Peer Educators Training
- Life Skill Education Programme
- Integrated Counseling & Testing Centre Visit
- Blood Bank Visit
- ART Centre visit
- Rally and Blood Donation Camp



PERIYAR TECHNOLOGY BUSINESS INCUBATOR

Periyar Technology Business Incubator creates awareness on entrepreneurship; encourages students towards innovative thinking; mentors them to identify suitable idea for creating new business. It provides space, instruments and mentoring to students and even help them get financial support. These students when become incubatees, not only earn sizable income but also create employment for 4-6 people on an average.



Our students turned entrepreneurs had won twice "Best incubatee company awards" from Indian STEPs and Business Incubators Association (ISBA). One of them was selected for "Bio technology Ignition Grant" from Department of Biotechnology, Government of India. Our students were able to participate in real time innovation projects and developed semi automatic buffing machine Stainless steel industry and drier for Arecanut sheaths for Andaman Island use.



Incubation process



HOSTEL FACILITIES

There are four hostels - three of them Annai Nagammalyar, Vittobai and Swarna Renganathan hostel are for women and they can accommodate around 2000 women students and the Chakravarthi hostel for men can accommodate 600 students. Hostels are located within the campus in clean and calm environment, conducive for living and learning.



Features

- Hygienic and Nutrient rich steam cooking Facilities
- Audio & Video Facilities in Dining Halls
- Purified drinking water system
- Need based food for students from other state and other countries
- Solar Water Heating System - 5 Nos. 1000 litres Capacity provide hot water supply in hostels.
- Biometric attendance punch system for the students attendance
- 24 hours hospital support within campus
- Playgrounds near hostels
- Library and computer centre for the easy access of hostel students
- Staff tutors for personal care and to guide students in the hostels
- Staff members regular visits during study hours to improve academic performance



OUR OTHER FACILITIES

HOSPITAL

Facilities

- 24x7 ambulatory services
- Mini Operation Theatre
- Eighteen bedded hospital

CAFETERIA

A wide range of South Indian and North Indian cuisine prepared and served in a hygienic environment

TRANSPORT

A fleet of buses that connect to all major routes of the region

POST OFFICE

A wholly functioning post office that caters to the needs of the students within the premises.

BANK

An exclusive branch of Indian Overseas Bank functions within the University premises.



SALIENT FEATURES



- Approved Research unit of CSIR / DST, DBT and Nodal Agency for MNRE, Government of India
- Institutional membership in CII, ICTACT, ISTE, CSI, IEEE etc.,
- 63 MoU's with leading National and International Institutions & Industries.
- 25% of Captive power generation of Renewable Energy along with R&D units



- Actively working to achieve Carbon-neutral campus earlier than the year 2025
- Centre of Excellence for Training and Research in Automation Technologies
- Centre of Excellence for Enterprise Resource Planning
- Centre of Excellence for Next Generation Network



INSPIRING ALUMNI OF PERIYAR MANIAMMAI UNIVERSITY SPREAD ACROSS THE GLOBE



Ar.R.Vidhya
Class of 2008 (Arch)
Senior Architect
Larsen & Toubro Ltd,
Chennai

For what I'm today, I owe the credits to this institution and faculties next to my parents. It's the process you go through here, for the degree, the memories that you carry for life time, the people you take from here to your life.



Mr.G.Arun Prakash
Class of 2013 (Mech)
System Engineer,
BrahMos Aerospace
Private Ltd.,
Hyderabad

The special training programmes and add-on courses at PMU helped me a lot. I am happy that I got this opportunity to work in this BrahMos Aerospace, world class Indo-Russian joint venture project.



Ms.Viji Selvam
Class of 1993 (CSE)
Senior Architect, Citi,
Newjersey, Newyork

I am happy that all I achieve in my professional carrier is the outcome of strong foundation laid at Periyar Maniammai University.



Ms.D.Dhenmozhi
Class of 2013 (ECE)
System Engineer,
BrahMos Aerospace
Private Ltd.,
Hyderabad

"Without the incredible support of PMU I would not be here today, my years spent in university helped me a lot to grow as an individual. PMU has given me great opportunities.



Ms.D.Chitra
Class of 2007 (M.Sc)
Project Associate,
Cognizant Technology Solutions,
Chennai

"I feel very proud that I studied at Periyar Maniammai University. The syllabus we had was always one step ahead of any course in any other institution.



Mr.S.Prabakaran
Class of 2012 (Biotech)
Managing Director,
Bioclone
Periyar Technology
Business Incubator,
Thanjavur

"PMU encouraged me to participate in co-curricular activities, gave guidance to pursue higher studies and mentorship to become an entrepreneur.



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