

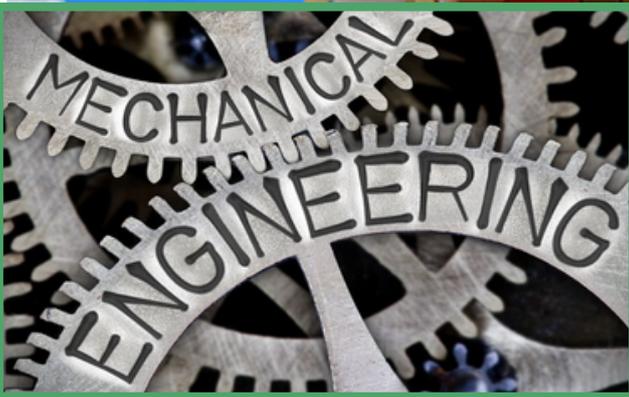


COLLEGE OF ENGINEERING PATHANAPURAM

Under CAPE Established by Govt of Kerala

(Affiliated to APJ Abdul Kalam Technological University & Approved by AICTE)

DEPARTMENT OF MECHANICAL ENGINEERING



NEWSLETTER

2025-26

**WELCOME TO
THE WORLD OF
INNOVATION &
ENGINEERING
EXCELLENCE!**

*Are you ready to shape the future
with machines, mechanics, and
meaningful innovation? Join the
Department of Mechanical
Engineering at College of Engineering
Pathanapuram (PEC) – where
passion meets precision!*

About College of Engineering Pathanapuram (PEC)

College of Engineering Pathanapuram (PEC), established under the Co-operative Academy of Professional Education (CAPE), is a premier institution affiliated to APJ Abdul Kalam Technological University and approved by AICTE, offering quality technical education in Kerala. . PEC is committed to nurturing engineering talent through advanced infrastructure, experienced faculty, industry tie-ups, and a vibrant student community.



Department of Mechanical Engineering

What Makes Our Mechanical Engineering Department Special?

The Department of Mechanical Engineering at College of Engineering Pathanapuram stands out for its commitment to hands-on learning, advanced infrastructure, and a strong industry focus. A key highlight is the presence of a CNC (Computer Numerical Control) machine in the campus workshop, enabling students to gain real-time experience in modern manufacturing and automation processes. The department features well-equipped laboratories in Thermal Engineering, Fluid Mechanics, CAD/CAM, and Mechatronics, all aligned with the latest industry standards. Regular workshops, mini-projects, and exhibitions ensure students don't just learn theories but apply them in real-world engineering challenges. With a blend of expert faculty, industry collaboration, and a strong student innovation culture, the department continues to produce graduates who are skilled, employable, and future-ready.



WHY CHOOSE MECHANICAL ENGINEERING @ PEC ?

- ✓ State-of-the-Art Laboratories – Modern labs in Thermal Engineering, CAD/CAM, Fluid Mechanics, Metrology, and Automation.
- ✓ Experienced Faculty – A blend of PhD holders, industry experts, and research-active professors dedicated to mentoring.
- ✓ Industry Collaboration & Internships – Live projects and training with reputed industries, government agencies, and R&D institutions.
- ✓ 100% Placement Assistance – Students placed in core industries, PSUs, and top MNCs; GATE & higher education support available.
- ✓ Research & Innovation Culture – Focus on renewable energy, robotics, advanced manufacturing, and computational design.
- ✓ Student Clubs & Projects – STORM, SAEINDIA Collegiate Club, IMechE Events, Mini Projects, National Tech Fests, and more.
- ✓ NSS, IEEE, IEDC, TBI Activities – Involvement in social outreach, innovation, and entrepreneurship.

CURRICULUM HIGHLIGHTS

- Thermodynamics & Heat Transfer
- Robotics & Mechatronics
- Additive Manufacturing
- Refrigeration & Air Conditioning
- Computer-Aided Design & Simulation
- Advanced Materials & Composites

| Specialization | Job Opportunities | Career Growth Path |
|---|---|--|
|  Thermodynamics & Heat Transfer | Thermal Engineer, HVAC Engineer, Energy Analyst, Power Plant Engineer | PSU jobs, Energy Consultant, R&D Scientist, M.Tech/PhD, Professor, Energy Auditor |
|  Robotics & Mechatronics | Automation Engineer, Robotics Programmer, Control Systems Engineer, Mechatronics Expert | Senior Robotics Engineer, System Architect, AI-Robotics Integrator, Project Manager |
|  Additive Manufacturing (3D Printing) | 3D Printing Specialist, Prototyping Engineer, Design for AM Engineer | AM Lab Head, Product Development Manager, Tech Consultant, Innovation Start-up Founder |
|  Refrigeration & Air Conditioning | HVAC Design Engineer, Service Engineer, Cold Chain Expert, Environmental Control Engineer | Senior HVAC Consultant, Building Energy Analyst, IGBC/ASHRAE-Certified Professional |
|  CAD & Simulation (CAD/CAE) | CAD Designer, Simulation Engineer, FEA Analyst, Product Design Engineer | Design Head, R&D Manager, Product Architect, Simulation Lead |
|  Advanced Materials & Composites | Materials Engineer, Composite Analyst, QA/QC Engineer, Research Associate | Senior Scientist, Aerospace/Automotive Materials Lead, Research Professor |

STORM

SOVEREIGN TECHNOLOGICAL ORGANISATION OF ROYAL MECH



MECHANICAL ENGINEERING ASSOCIATION

STORM (SOVEREIGN TECHNOLOGICAL ORGANISATION OF ROYAL MECH) is the official student association of the Mechanical Engineering Department at the College of Engineering Pathanapuram. It serves as a dynamic platform that brings together enthusiastic students, faculty, and industry experts to collaborate, innovate, and elevate the learning experience beyond the classroom.

The association regularly organizes technical seminars, workshops, paper presentations, industrial visits, exhibitions, and inter-collegiate competitions, fostering a culture of practical learning and creative problem-solving. STORM plays a pivotal role in strengthening the academic foundation and professional growth of its members by connecting them with alumni, industry mentors, and emerging technologies.

With a strong focus on leadership, teamwork, and innovation, STORM empowers students to take initiative, showcase their talent, and stay updated with the latest advancements in mechanical engineering. It's not just an association—it's a movement that fuels passion, purpose, and progress in every aspiring mechanical engineer.

www.royalgreatsite.com

RECENT UPDATES:

1 AUTO SHOW in the month of January 2026

2 Special training on CNC Machines and Modern labs in association with various Industries

3 Experts talks on Financial Securities for youngsters

Auto Show



Auto show at Punalur

"The Department of Mechanical Engineering proudly hosted a high-octane Auto Show at Punalur, where engines roared and innovations dazzled! From vintage classics to student-built prototypes, the event was a magnet for automobile enthusiasts, drawing huge public crowds and media attention."





COLLEGE OF ENGINEERING PATHANAPURAM
DEPARTMENT OF MECHANICAL ENGINEERING

AUTO SHOW

NEXT EDITION 2K25



LOADING.

S.T.R.M



UNIVERSITY TOPPERS & CHALLENGE COURSE WINNERS



Fayas Muhammed (S3 Mechanical Engineering)
*Accomplishments are fleeting, mere moments in time,
But mistakes.. they accumulate—a lasting rhyme!
Don't let your achievements—blind you,
or your mistakes—slow you down.*

Challenge Course Winners

Athul. J (S3 Mechanical Engineering)
*Exams are mere dates—we broke through the frame,
Ten days, no guide—yet we conquered the game.
Let effort be louder than the noise around,
Let failure not shake you, nor success make you drown.
Mechanical has always stood proud—and always will.*





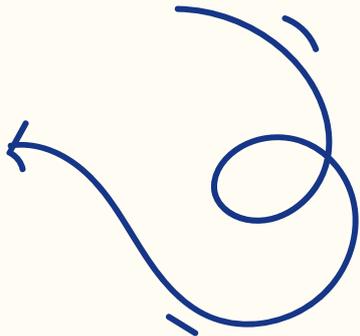
Travel

INDUSTRIAL VISIT



INDUSTRIAL VISIT KULLU-MANALI AND KASHMIR

"Mechanical Engineering students embarked on a knowledge-packed journey to Kullu-Manali, where they gained practical exposure to hydropower generation, refrigeration systems, and machine workshops. The visit included interactions with industry professionals, offering insights into sustainable energy and industrial automation."
"From technical tours to scenic drives through Solang Valley, the Kullu-Manali industrial visit was a memorable fusion of engineering education and exploration, leaving students inspired and industry-aware."



SAE (SOCIETY OF AUTOMOTIVE ENGINEERS)



SAE

SAE stands for Society of Automotive Engineers. It is a group that helps students and professionals learn more about cars, machines, and new technologies used in the automotive and mobility world.

The SAEINDIA Collegiate Club at the College of Engineering Pathanapuram actively engages Mechanical Engineering students in practical automotive learning. From hands-on workshops like Go-Kart fabrication, engine dismantling sessions, and CAD/CAE training, to expert talks and project development for competitions like SAE BAJA and SUPRA, the club fosters innovation, teamwork, and industry readiness. These activities help students gain real-world skills and prepare for careers in the ever-evolving mobility sector.

DISHA EXPO

DISHA EXPO – INSPIRING YOUNG MINDS THROUGH ENGINEERING

As part of the DISHA Career Guidance Expo, the Department of Mechanical Engineering at College of Engineering Pathanapuram hosted a vibrant technical exhibition exclusively for school students. The event featured interactive displays, working models of engines, 3D printing demonstrations, and student-built projects in robotics and renewable energy. Visiting students explored the fascinating world of machines, automation, and innovation, sparking curiosity and awareness about the field of mechanical engineering. The expo served as an eye-opener for young minds, encouraging them to dream big and pursue careers in STEM.



ദിശ
പുനലൂർ വിദ്യാഭ്യാസ ക്ലിപ്ത

CAREER EXPO 2024
2024 ഡിസംബർ 6, 7 വെള്ളി, ശനി
ഗവ. ഹയർ സെക്കണ്ടറി സ്കൂൾ, പുനലൂർ

**WHAT
NEXT
AFTER +2**

CAREER GUIDANCE SESSION
മികച്ച പഠനാവസരങ്ങൾക്ക്..

RESOURCE PERSON :

SHYAMLAL T
ASSISTANT PROFESSOR IN
MECHANICAL ENGINEERING
COLLEGE OF ENGINEERING
PATHANAPURAM



Organised by Career Guidance and
Adolescent Counselling Cell
Government of Kerala

FUNDED PROJECTS



**COLLEGE OF ENGINEERING PATHANAPURAM
DEPARTMENT OF MECHANICAL ENGINEERING**

Congratulations

B.TECH MECHANICAL ENGINEERING FINAL YEAR PROJECT HAS BEEN AWARDED FINANCIAL ASSISTANCE FROM CENTRE FOR ENGINEERING RESEARCH AND DEVELOPMENT



SUMATHI M, REBIN RAJ R, JISHNU S BABU, KRISHNAJITH B



**PROJECT TITLE:
DESIGN & DEVELOPMENT OF A MACHINE FOR PRODUCING COMPOSITE ACOUSTIC WALL TILES USING TAILORING WASTE**

**PRINCIPAL INVESTIGATOR
SREESH P S
ASSISTANT PROFESSOR IN ME**

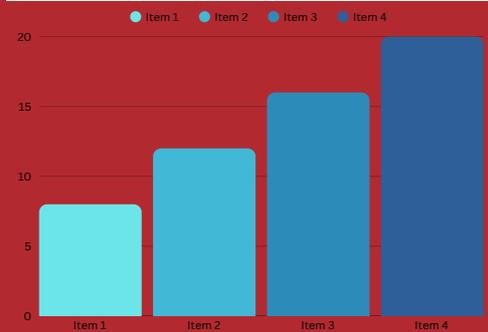


S.T.R.M.
SOVEREIGN TECHNOLOGICAL ORGANISATION FOR RURAL MECH

Best Projects are :

1) Design and Development of a WAAM 3D Printer for Parametric Study

This project aims to develop a cost-effective Wire Arc Additive Manufacturing (WAAM) 3D printer to explore the effects of process parameters on build quality. It provides a hands-on platform for studying metal additive manufacturing, a growing field in advanced manufacturing and repair engineering.



2) Clam Meat Separation and Cleaning Mechanism

This project focuses on creating a mechanized system for efficiently separating and cleaning clam meat, addressing a significant need in the seafood processing industry. The solution is aimed at reducing manual labor, improving hygiene, and enhancing productivity in coastal seafood sectors.



CULTURAL & SPORTS



COLLEGE OF ENGINEERING PATHANAPURAM
DEPARTMENT OF MECHANICAL ENGINEERING
PRESENTS

7'S INTER DEPARTMENT FOOTBALL TOURNAMENT

Jan 30 & 31
2025
2 PM

S.T.R.M
SOUTH TAMIL NADU REGIONAL MEET

Registration Fee
₹ 200/-

Book your slot
before 28/01/2025

For Registration contact(whatsapp):
ANANDHU 6235358984
SIDHARTH 7306731684



PLACEMENT NEWS

DEPARTMENT OF MECHANICAL ENGINEERING



Mechanical Engineering students at the College of Engineering Pathanapuram have consistently secured placements in top core and multidisciplinary companies. With strong industry-oriented training and project experience, our graduates are placed in reputed firms like L&T, Bosch, Tata Technologies, Ashok Leyland, Hyundai, Blue Star, and Infosys (CAD/CAE divisions). Many students also qualify for PSUs and GATE-based admissions into premier institutes such as IITs and NITs.

COLLEGE OF ENGINEERING PATHANAPURAM
ISO 9001:2015 Certified Govt. Cost Sharing Institution
UNDER CAPE | GOVERNMENT OF KERALA

CAREER GUIDANCE AND PLACEMENT CELL
PLACEMENTS 2024-2025



Congratulations
for being placed at



TV SUNDRAM FASTENERS LTD.


Parthip P
Mechanical Engineering


Sidharth O R
Mechanical Engineering


Joel Reji George
Mechanical Engineering


Hadirsha H
Mechanical Engineering

Co-operative Academy of Professional Education (CAPE)
(Government of Kerala Undertaking)

COLLEGE OF ENGINEERING PATHANAPURAM
DEPARTMENT OF MECHANICAL ENGINEERING

Congratulations


ASWIN RAJEEV


BINSU B THOMAS


SUJITH S


SARUN S


SREYAS SURESH SREEKALA


JESSAN JOSE


REJIN CHANDRAN


MUHAMMED RAFI N


JISHNU S BABU

FOR GETTING PLACED AT



MADRAS ENGINEERING INDUSTRIES PRIVATE LTD.

COLLEGE OF ENGINEERING PATHANAPURAM
DEPARTMENT OF MECHANICAL ENGINEERING

PLACEMENTS 2024

MECHANICAL ENGINEERING


ZF COMMERCIAL VEHICLE CONTROL SYSTEMS INDIA LIMITED


ALIF MOHAMMED


JEBIN KURIAKOZE JOHN


KRISHNAJITH B


SOWBHAGYA RAJEEV


AMALKRISHNAN S


MEENUKRISHNAN A R


ADARSH S G


MADRAS ENGINEERING INDUSTRIES PRIVATE LIMITED


ASWIN RAJEEV


BINSU B THOMAS


SUJITH S


SARUN S


SREYAS SURESH SREEKALA


JESSAN JOSE


REJIN CHANDRAN


MUHAMMED RAFI N


JISHNU S BABU


RPS PROJECTS LTD (RSP SITE - COCHIN SHIPYARD)


SUJITH S


NEST TECHNOLOGIES


ALAN THOMAS

Congratulations

COLLEGE OF ENGINEERING PATHANAPURAM
(Under CAPE Govt. of Kerala)

Department of Mechanical Engineering

Congratulations


HAIDARSHA H


JOEL REJI GEORGE


PARTHIP P


SIDHARTH O R

For getting placed at,

TV Sundram fasteners Ltd.



"Hearty congratulations to all the students from Mechanical departments who got placed – your achievements make us proud!"

ALWAYS ROYAL MECH STORM

SOVEREIGN TECHNOLOGICAL ORGANISATION OF ROYAL MECH



The Department of Mechanical Engineering at the College of Engineering Pathanapuram continues to be a hub of academic excellence, innovation, and hands-on engineering education. With a perfect blend of modern infrastructure, experienced faculty, industrial exposure, and student-driven initiatives like STORM, the department prepares its graduates not just for jobs — but for lifelong careers in engineering, research, and leadership. From industry-aligned curriculum to national-level achievements, every initiative reflects our commitment to shaping the next generation of mechanical innovators.

Come, be a part of our legacy — where engineering meets inspiration!

Prepared by Mr. Anoop K T, Assistant Professor, Department of Mechanical Engineering with the support of HOD, faculty, staff and students.