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## ABOUT THE DEPARTMENT

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The Department of Mechanical Engineering was established in 1994 offering

- B.E. (Mechanical Engineering)
- M.E. (Manufacturing Engineering)

The department is permanently affiliated to Anna University, Chennai, and is also a recognized research department offering Ph.D. programs.

Accreditations:

- Undergraduate Program accredited by NBA, New Delhi in 2003 and reaccredited in 2007, 2012, 2016, 2019, and 2022.

Infrastructure & Facilities:

- Melting Furnaces, Holding Furnaces, Heavy Duty Oven
- Washing Apparatus, Porosity Tester, Optical Emission Spectrometer
- Salt Spray Chamber for Corrosion Testing, Pin on Disc Apparatus for Wear Measurement
- Stir Casting Setups, Coordinate Measuring Machine, VCR Engine, Engine Exhaust Gas Analyzer
- Six-Axis Articulated Robot, 3D Printing facilities
- Mechatronics Engineering training, CAD/CAM Software (HYPERMESH, CREO, CFD)

The department ensures industry-ready training and concept-oriented teaching to provide professional excellence.

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## HEAD OF THE DEPARTMENT

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Dr. P. Karuppuswamy, B.E., M.E., Ph.D

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## VISION

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To excel in engineering education by producing enterprising professionals with creativity, innovation, research, employability, and entrepreneurship to meet societal needs.

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## MISSION

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1. Provide quality education in mechanical engineering for professional success.
2. Prepare students with communication skills, intellectual abilities, teamwork, and professional ethics for societal contributions.
3. Facilitate research orientation and lifelong learning for stakeholder requirements.

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## PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

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PEO1: Offer rational solutions in design and manufacturing of mechanical and allied engineering systems using knowledge in mathematics, sciences, and engineering technologies.

PEO2: Demonstrate professional and entrepreneurial skills addressing social, environmental, economic, and ethical aspects.

PEO3: Communicate effectively and engage in lifelong learning for professional and personal growth.

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## PROGRAM OUTCOMES (POs)

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- PO1: Apply mathematics, science, and engineering knowledge to solve complex problems.
- PO2: Identify, formulate, and analyze engineering problems using research literature.
- PO3: Design system components and processes meeting public safety, cultural, and environmental needs.
- PO4: Use research methods, experiments, and data analysis to reach valid conclusions.
- PO5: Utilize modern tools and IT technologies for engineering activities.
- PO6: Address societal, health, safety, legal, and cultural responsibilities in professional engineering.
- PO7: Incorporate sustainability in professional engineering solutions.
- PO8: Follow ethical principles and responsibilities in engineering practice.
- PO9: Work effectively as individuals and in teams across disciplines.
- PO10: Communicate effectively through reports, presentations, and clear instructions.
- PO11: Apply project management and financial knowledge in engineering contexts.
- PO12: Engage in independent, lifelong learning for technological adaptability.

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#### PROGRAM SPECIFIC OUTCOMES (PSOs)

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- PSO1: Design, model, and analyze mechanical components and systems using computational tools.
- PSO2: Plan manufacturing processes for mechanical systems ensuring quality and economy.
- PSO3: Analyze, evaluate, and design thermal systems using engineering concepts and simulation methods.

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#### LABORATORIES

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- Engineering Practices Laboratory
- Manufacturing Engineering Laboratory
- CAD Laboratory
- Dynamics Laboratory
- Machining Practices Laboratory
- Manufacturing Process Laboratory
- Mechatronics Engineering Laboratory
- Computer Aided Engineering Laboratory
- Fuels Laboratory
- Thermal Laboratory
- Heat Transfer Laboratory
- Engineering Graphics Laboratory
- Metallurgy Laboratory
- Metrology Laboratory
- Computer Aided Manufacturing Laboratory
- Metal Joining Research Center
- Modeling and Simulation Laboratory
- Siemens Authorized Training Center

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#### FACULTY & STAFF

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##### HEAD OF THE DEPARTMENT

- Dr. P. Karuppuswamy

##### PROFESSORS

- Dr. N. Srimath

##### ASSOCIATE PROFESSORS

- Dr. N. Gunasekar
- Dr. J. Yoganandh
- Dr. C. Bhagyanathan

#### ASSISTANT PROFESSORS (SELECTION GRADE)

- Mr. M.S. Bala Santhosh
- Dr. T.R. Sathish Kumar
- Dr. N. Senthilkannan
- Dr. B. Brailson Mansingh
- Dr. B. Pranesh
- Lt. Dr. M. Ramesh
- Dr. S. Sathish
- Dr. A. Vadivel
- Dr. T. Velmurugan
- Mr. N.R. Karthick
- Dr. V. Srinivasan

#### ASSISTANT PROFESSORS (SENIOR GRADE)

- Dr. S. Omprakasam
- Dr. R. Raveen
- Mr. B. Senthil Kumar

#### ASSISTANT PROFESSORS

- Mr. R. Raghu

#### TECHNICAL & SUPPORTING STAFF

- Mr. E. Jeyakumar
- Mr. T. Kalaiselvan
- Mr. C. Sankar Raj
- Mr. V. Uthamaraj
- Mr. M. Gerson