



PRIYADARSHINI ENGINEERING COLLEGE, VANIYAMBADI-635751

(Approved by AICTE, New Delhi, Affiliated to Anna University-Chennai)



MECH NEWS LETTER



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About the Institute:

Priyadarshini Engineering College, the flagship of Jai Barath Charitable Trust, was established in 1995 at Vaniyambadi in Vellore district of Tamilnadu. The College has been approved by All India Council for Technical Education, New Delhi and Affiliated to Anna University, Chennai. Priyadarshini Engineering College situated in the rural area of Vaniyambadi, Vellore District is committed to the vision of developing itself into a multi campus, Inter - disciplinary Institution of Excellence through symbiotic efforts and innovative practices of management and faculty to provide the student with an ambient academic environment, ideal for the pursuit of knowledge and development carrier.

Vision of the Institute:

To inculcate in the young rural minds the aptitude to compete with the world class technocrats.

Mission of the Institute:

- ✚ To instill technical skills to compete in the sustainable world.
- ✚ To impart holistic value based technical education.
- ✚ To intensify research and development (R&D) activities in technological development.
- ✚ To imbibe core values of love for motherland, performance of duty, compassion, tolerance, honesty and integrity.

MOTTO

PERSEVERANCE, ENDURANCE, COMMITMENT

"கற்றலும், கற்றவை கேட்டலும், கேட்டதன்கண் நின்றலும்"



About Mechanical Engineering:

The Department of Mechanical Engineering came into being in the year 1999 and the first batch of Mechanical Engineers graduated in the year 2003. The Department was first started with the intake strength of 40 seats in 1999. After that, the intake was increased to 60 seats in 2004. At present the Department offers 120 seats from 2014. The Department has both undergraduate and postgraduate courses in Mechanical Engineering and Design. In the year 2013 Post Graduate Programme in Engineering Design was launched. The Department has laboratory and workshop facilities with Modern Sophisticated Equipment to carry out research in all areas related to Mechanical Engineering. Throughout its history, the department has provided a strong technical foundation to prepare students to meet the changing needs of industry.

Vision of Mechanical Engineering:

To produce competent Mechanical Engineers specifically from rural based population to confront the latest technological innovations.

Mission of Mechanical Engineering:

- ✚ Imparting quality education and training to nurture competitive Mechanical Engineers.
- ✚ Motivating innovations in the various fields of Mechanical Engineering with better infrastructure facilities to meet the industrial and societal requirements.
- ✚ Inculcating ethical values in their careers for their successful life

Programme Educational Objectives(PEOs):

PEO 1. Core Competence:

Graduates will Excel in their Professional Career with Strong Fundamental Technical Background.

PEO 2. Breadth:

Graduates will be able to demonstrate their Technical Skills in Designing, Fabrication and Installation of New Mechanical Components.

PEO 3. Professionalism:

Graduates will be Competent to Exhibit their Multidisciplinary Skills in Related Fields of Mechanical Engineering.

PEO 4. Teaching & Research:

Graduates will Pursue Higher Studies in Mechanical Related Disciplines to work in the field of Teaching and Research.

Programme Outcomes(POs):**PO 1: Engineering Knowledge:**

Apply the knowledge of mathematics, science, engineering fundamentals and core engineering for complex engineering problems.

PO 2: Problem Analysis:

Identify, formulate and analyze complex engineering problems.

PO 3: Design & Development of Solutions:

Design and develop solutions for complex engineering problems.

PO 4: Investigations of complex problems:

Use research based knowledge to conduct investigations of complex problems.

PO 5: Modern Tool Usage:

Apply appropriate modern tools and techniques to tackle Mechanical Engineering problems.

PO 6: Engineer and Society:

Provide solutions to Mechanical Engineering problems relevant to societal needs.

PO 7: Environment and Sustainability:

Acquire contemporary knowledge to sustain in the ever changing environment.

PO 8: Ethics:

Apply professional ethics.

PO 9: Individual and Team work:

Exhibit individual and leadership qualities in multidisciplinary group.

PO 10: Communication:

Comprehend and communicate effectively in a team.

PO 11: Lifelong Learning:

Engage independently in lifelong learning.

PO 12: Project Management and Finance:

Plan and manage a project in a cost effective manner.

LIST OF EVENTS CONDUCTED

S.NO	DATE	NATURE OF CONTEST	RESOURCE PERSON
1.	12 th Jan 2015	Technical Aptitude Contest	Department Coordinators
2.	29 th Jan 2015	Guest lecture on “CNC Programming”	Mr. C. Vinoth Kumar, AP/Mech, ARM College of Engineering & Technology, Chennai.
3.	27 th Mar 2015	Technical Symposium	Department Coordinators.
4.	30 th Mar 2015	Seminar on “Career Development Programme”	Mr.S.Vijay, Placement Officer, Priyadarshni Engineering College, Vaniyambadi.
5.	31 st Mar 2015	Campus to Corporate	Mr.S.Dwarknathan, Vice President (Engg., R &D) and VP (HRD), Chennai.
6.	12 th April 2015	Workshop on “Advanced Engine Technology”	Mr.M.Rajini, Analyst, Caterpillar, Chennai.
7.	26 & 27 th April 2015	Conference on “RIEMTA 2015”	Dr. K. Kuppan, Prof./ Mech, School of Mechanical Building & Sciences, VIT, Vellore.
8.	13 th May 2015	Workshop on “Research Methodology and Recent Sciences”	Dr.V.Velraj, Professor/Mechanical Anna University, Chennai.

Student Achievements:

- H. Dhinesh Kumar PG Final year student Presented a Paper titled “A Review of De lamination in Conventional and Vibrated assisted Drilling in Glass Fiber Reinforced Polymer Composites”, in National Level Conference (RIEMTA) at Priyadarshini Engineering College, Vaniyambadi on 26th & 27th April 2015.
- S. Selvakumar PG Final year student Presented a Paper titled “Numerical Analysis of Mine Truck’s Bumper During Impact using Ansys”, in National Level Conference (RIEMTA) at Priyadarshini Engineering College, Vaniyambadi on 26th & 27th April 2015.
- B. Nivas PG Final year student Presented a Paper titled “Static Analysis of a Functionally graded Material under a Point Load using FEA, in National Level Conference (RIEMTA) at Priyadarshini Engineering College, Vaniyambadi on 26th & 27th April 2015.
- The following Third year UG and First year PG students has participated in one day workshop on “ Emerging Application of Laser Technology in Manufacturing ” on 13th Feb 2015 at VIT, Vellore.

S.No.	Name of the student	Programme	Year	Department
1	Harishwar	UG	III	Mechanical Engineering
2	Jayachandran			
3	Jagadeesh			
4	Mohan Raj			
5	Madan			
6	Bharath			
7	Lokesh	PG	I	Mechanical Engineering (Engineering Design)
8	Govindraj			
9	Mohan			
10	Sivanesan			
11	Siva.			
12	Ramkumar			

Our Final year Mechanical Engineering students were placed in the various companies from our college through "ON Campus".

S.No.	Name of the Student	Name of the Company	Designation
1	S. Anbu	Orange Info Solutions	Technical Support Engineer
2	M. Manivannan		
3	S. Madan		
4	R. Prasath		
5	E. Madan Kumar		
6	M. Anand		
7	V. Somnathrao		
8	K. Rajesh		
9	P. Srinivasan		
10.	D. Ajith Kumar		
11.	M. Sarath Kumar		
12.	V. Gowtham		
13.	G. Venkatesan		
14.	A. Anbarasan		
15.	Vijay Kumar		
16.	T. Manigandan		
17.	A. Elumalai		
18	S.Hema Kumar		
19	P.Velmurugan		
20	C.Balaji		
21	G.Balaji		
22	V.Jeeva		
23	P.Srinivasan	Engineering Global Solution	Trainee Engineer
24	P.Velmurugan		
25	D.Ajith Kumar		
26	V.Jeeva		
27.	A. Anbarasan	Axis Securities Ltd	Technical Support Engineer
28.	P. Vijay Kumar		
29	S. Hema Kumar		

FACULTY ACHIEVEMENTS

Dr.P.Natarajan

- ✚ Published a paper titled “Experimental Investigation on phase change material based thermal energy storage system for waste heat recovery from IC engine exhaust” in International Journal of Applied Engineering Research (IJAER) 10 (30),22909.
- ✚ Published a Paper titled “Analysis of Free Cooling Potential For Thermal Energy Management of a Commercial Building in Jaipur City, India” in International Journal of Applied Engineering Research(IJAER) 10 (30) 22943.
- ✚ Organized one day Workshop on “Research Methodology and Recent Sciences” at Priyadarshini Engineering College, Vaniyambadi on 13th May 2015.
- ✚ Published a paper titled “Hydrodynamics of a Liquid–Solid Circulating Fluidized Bed: Effect of Solid Feed Pipe Diameter” in the Journal of Indian Chemical Engineer Volume 57, Issue 1 Page 1-15.

Dr. M. Rajagopal

- ✚ Published a paper titled “Experimental Investigation on phase change material based thermal energy storage system for waste heat recovery from IC engine exhaust” in International Journal of Applied Engineering Research (IJAER) 10 (30),22909.
- ✚ Published a Paper titled “Analysis of Free Cooling Potential For Thermal Energy Management of a Commercial Building in Jaipur City, India”, in International Journal of Applied Engineering Research in 10 (30) 22943.
- ✚ Published a Paper titled “Free Cooling Feasibility of a Typical Commercial Building in Pune city, India” in International Journal of Applied Engineering Research , Volume 10 No 30 (2015).
- ✚ Inaugurated R& D Cell in Priyadarshini Engineering College, Vaniyambadi on PEC on 25th Feb 2015

- ✚ Organized one day Workshop on “Research Methodology and Recent Sciences” at Priyadarshini Engineering College, Vaniyambadi on 13th May 2015.

Mr. S. Tharaknath

- ✚ Published a paper titled “Preparation & Characterization of Coir, Luffa Reinforced Polypropylene Composites” in International Journal of Engineering Trends and Technology(IJETT) Volume 1, Issue 3 Page 12-18.
- ✚ Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College, Chennai from 15th June 2015 to 19th June 2015.
- ✚ Participated in one day workshop on “Emerging Application of Laser Technology in Manufacturing” on 13th of Feb 2015 at VIT University, Vellore.
- ✚ Presented a paper titled “An Analysis of Forced convection heat transfer over a flat plate using Nano Fluids” in national level conference (RIEMTA 2015) on 26 & 27th April 2015.

Mr.M.Vinoth

- ✚ Published a paper titled “Active vibrations control of Aluminium Beam using Smart Materials”, in International Journal of Applied Engineering Research, Vol page 10 No 30
- ✚ Participated in FDP titled “Data Acquisition Systems”, in Kingston Engineering College, Vellore from 22th June to 24th June 2015.

Mr. M. Thamaraiselvam

- ✚ Presented a paper titled “Active vibrations control of Aluminium Beam using Smart Materials” in national level conference (RIEMTA 2015) on 26 & 27th April 2015 and also Published this paper in International Journal of Applied Engineering Research, Vol 10 No 30.
- ✚ Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College, Chennai from 15th June to 19th June.

Mr. R. Prabhakaran

- Presented a paper titled “Analysis of Heat Transfer Coefficient of CuO Nano Fluids using Shell & Tube Heat Exchanger” in national level conference (RIEMTA 2015) on 26 & 27th April 2015.
- Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College Chennai from 15th June to 19th June

Mr. S. Ashfaque Ahmed

- Presented a paper titled “Preparation and Performance Characteristics of Helianthus Annus Cooked Oil Based Biodiesel on a Single Cylinder Four Stroke CI (Kirloskar) Engine” in national level conference (RIEMTA 2015) on 26 & 27th April 2015 and also Published this paper in International Journal of Applied Engineering Research, Vol 10 Page No 30.
- Presented a paper titled “Design and analysis of four stroke petrol engine cooling fins” in International Conference, at Ganesh College of Engineering ,Salem on Jan 2015.

Mr. M. Anandan

- Participated one day Workshop on “Research Methodology and Recent Sciences” in Priyadarshini Engineering College, Vaniyambadi on 13th May 2015
- Attended FDP titled “Emerging applications of Laser technology in Manufacturing at VIT University, Vellore.” on 13th Feb Organized one day Workshop on “Research Methodology and Recent Sciences” at Priyadarshini Engineering College, Vaniyambadi on 13th May 2015.

Mr. A.Avinash Kumar

- Participated in one day Workshop on “Research Methodology and Recent Sciences” in Priyadarshini Engineering College, Vaniyambadi on 13th May 2015.
- Published a paper titled “Active vibrations control of Aluminium Beam using Smart Materials”, in International Journal of Applied Engineering Research, Vol 10 No 30.
- Attended FDP titled “Emerging applications of Laser Technology in Manufacturing at VIT University, Vellore on 13th Feb 2015.

Mr. M. Nithyanandam

- Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College, Chennai from 15th June to 19th June.

Mr. U. Dhivakar

- Presented a paper titled “Analysis of heat transfer coefficient of CuO/Water Nanofluid using Shell and Tube heat Exchanger”, in national level conference (RIEMTA 2015) on 26 & 27th April 2015

Mrs. K. Barathi

- Participated in FDP titled “Data Acquisition Systems”, in Kingston Engineering College Vellore, from 22th June to 24th June

Mr. T. Sateesh

- Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College Chennai from 15th June to 19th June

Mr. C.Vinothkumar

- Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College Chennai from 15th June to 19th June

Mr. M.Vinodkumar

- Participated in FDP titled “Engineering Graphics and Techniques”, in Jaya Engineering College Chennai from 15th June to 19th June

Editorial Board Committee***Patron****Dr.P.Natarajan M.E.,Ph.D****Chief Patron****M.S.Tharaknath M.Tech.,****Faculty In charge(s)****Mr.A.Avinash Kumar M.Tech.,**Mr.Ashfaque Ahmed M.Tech.,****Final Year Students****Prasanth.R****Third Year Student****Gnanavel.G****Second Year student:****Nandha Kumar.D*

Faculty Interaction outside the World

SL.NO	FACULTY NAME	DATE	INTERACTION DETAILS
1.	Mr. S Ashfaque Ahmed	06.01.2015	Delivered a Guest lecture on “ IC-Engines ”for the Final year Mechanical Engineering students of Pandiyan Polytechnic College, Tirupattur.
2.	Mr.S.Tharaknath.	02.03.2015	Delivered a Guest lecture on “ Unconventional Machining Process” for the final year Mechanical Engineering students of Pandiyan Polytechnic College, Tirupattur.
		29.01.2015	Delivered a Guest lecture on “Advanced in CAD Design” to the Final year Mechanical Engineering students at Vaani Polytechnic College, Vaniyambadi.
		03.03.2015	Acted as a Judge for Paper Presentation in national level Technical Symposium at Podhigai College of Engineering and Technology, Tirupattur.
3.	Mr.M.Thamaraiselvam	17.02.2015	Delivered a Guest lecture on the title of “Computer Aided Manufacturing” to the Final year Mechanical Engineering students at Pandiyan Polytechnic College, Tirupattur.
4.	Mr.U.Dhivagar.	20.01.2015	Delivered a Guest lecture on the title of “ Steam Power Plant” to the final year Mechanical Engineering students at Pandiyan Polytechnic College, Tirupattur.
		15.02.2015	Delivered a Guest lecture on the title of “ Air Compressor ” to the final year Mechanical Engineering students at Pandiyan Polytechnic College, Tirupattur.
5.	Mrs.K.Barathi	10.02.2015	Delivered a Guest lecture on the title of “ Special Casting Process” to the final year Mechanical Engineering students at Pandiyan Polytechnic College, Tirupattur.
6.	Mr.T.Sateesh	25.02.2015	Delivered a Guest lecture on the title of “ Air cycles ” to Second year Mechanical Engineering students at Pandiyan Polytechnic College, Tirupattur.
		05.03.2015	Delivered a Guest lecture on the title of “Development of surfaces” to the first year Mechanical Engineering students at Pandiyan Polytechnic College, Tirupattur.