



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 Quality 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"



Department of 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.

P12: Project Management and Finance:

Plan and manage a project in a cost effective manner.

Student Academic Achievements

- K.Sathiya PG Student Presented a paper titled “Design and Analysis of In-Line Three Cylinder Engine by Using Primary Balancing Method” in 3rd National Level Conference RIETMA 2017 at Priyadarshini Engineering College, Vaniyambadi on 07.04.17.
- K.Sathiya PG Student Presented a paper titled “Design and Analysis of In-Line Three Cylinder Engine by Using Primary Balancing Method” in international Level Conference on Recent Innovations in Science & Technology Organized by TRANSIST online on 25.03.17.
- J.Thirupathi PG Student Presented a paper titled “Design and analysis of a car incorporated with spoiler by using Computational Fluid Dynamics” in international Level Conference on Recent Innovations in Science & Technology Organized by TRANSIST online on 25.03.17.
- J.Thirupathi PG Student Presented a paper titled “Design and analysis of a car incorporated with spoiler by using Computational Fluid Dynamics” in 3rd National Level Conference RIETMA 2017 at Priyadarshini Engineering College, Vaniyambadi on 07.04.17.
- C.Sakthi of Second year Mechanical Engineering Student participated in Bridge Building event organized by SAEINDIA Southern Section held on 25.02.17 & 26.02.17 at Kongu Engineering College,Erode.
- V.Mohammed Saquib of Second year Mechanical Engineering Student participated in Human Powered Vehicle event organized by SAEINDIA Southern Section held on 25.02.17 & 26.02.17 at Kongu Engineering College,Erode.
- T.Pradeep of Second year Mechanical Engineering Student participated in Bridge Light Weight Mobility Vehicle & Bridge Building event organized by SAEINDIA Southern Section held on 25.02.17 & 26.02.17 at Kongu Engineering College,Erode.
- P.Nirmalkumar of Second year Mechanical Engineering Student participated in Human Powered Vehicle event organized by SAEINDIA Southern Section held on 25.02.17 & 26.02.17 at Kongu Engineering College,Erode.
- V.Mohammed Saquib of Second year Mechanical Engineering Student Won Second Prize in Ethical Hacking event organized by SAEINDIA Southern Section held on 25.02.17 & 26.02.17 at Kongu Engineering College,Erode.

- P.Nirmalkumar of Second year Mechanical Engineering Student Won Second Prize in Ethical Hacking event organized by SAEINDIA Southern Section held on 25.02.17 & 26.02.17 at Kongu Engineering College, Erode.
- S.Shalman, A.Mohammed Hussain and H.Mohammed Azaruddin of Final year Mechanical Engineering Students done their Project titled “Design of Angle Dressing Unit of Grinding Wheel for Broach Tool” in Mitsubishi Heavy Industries India Precision Tools Limited, Ranipet.
- Pradeep of Second year Mechanical Engineering Student attended a National Level Workshop titled “CNC Programming and Practice” on 04.02.17 at Podhigai College of Engineering and Technology.
- P.Prabhu of Second year Mechanical Engineering Student attended a National Level Workshop titled “CNC Programming and Practice” on 04.02.17 at Podhigai College of Engineering and Technology.
- A.Mohanraj of Second year Mechanical Engineering Student attended a National Level Workshop titled “CNC Programming and Practice” on 04.02.17 at Podhigai College of Engineering and Technology.
- E.S.Kishondar of Second year Mechanical Engineering Student attended a National Level Workshop titled “CNC Programming and Practice” on 04.02.17 at Podhigai College of Engineering and Technology.
- R.Hariprathap and R.C.Deepan Balaji of Third Year Mechanical Engineering Students undergone in plant Training at TITAN INDUSTRIES PVT LTD., Sipcot Hosur from 12.03.17 to 18.03.17.
- R.Vignesh,S.Vignesh,R.Vignesh,M.Seshathiri,A.Mohana Chandru of Third Year Mechanical Engineering Students undergone in plant Training at Mitsubishi Heavy Industries India Precision Tools Limited, Ranipet from 04.01.17 to 07.01.17.
- S.Elakkiyan,K.Karthiyogan,G.Karthikyan and R.G Ragavan of Final Year Students Participated in Project Expo “UTKRANTI GRAND FINALE-2017” at IIT Delhi from 01.03.17 to 07.03.17.
- P.Sivashankar and J.Vidhya sagar of Third Year Students Participated in Project Expo “UTKRANTI GRAND FINALE-2017” at IIT Delhi from 01.03.17 to 07.03.17.

- S.Vignesh of Third Year Student undergone a camp training Programme organized by National Service Scheme of Priyadarshini Engineering College, Vaniyambadi from 13.3.17 to 19.3.17.
- D.Gopi and A.Mohana Chandru of Third Year Students Participated many events in National Level Technical Symposium organized by Kingston Engineering College, Vellore on 25.03.17.
- P.Shivashankar & P.Sivalingam of Third Year Students Won Second position in one day National level Project expo organized by Government College of Engineering, Bargur on 24.03.17.
- M.Sudhakar, J.Sridhar and V.Yokesh of Final Year Students Won Second position in one day National level Project expo organized by Government College of Engineering, Bargur on 24.03.17.
- S.Vaidhyathan, M.Thangaraj, M.Jaganathan of Final Year Mechanical Students Undergone an in plant training for 3 days in CADD GLOBAL TECHNOLOGIES PVT LTD Chennai.
- A Trip to Regional Research Station TNAU-Dharmapuri was Organized on 20.03.2017 in which 60 Students of 2nd Year Mechanical Engineering Students Participated and got awareness about the use of modern Technical Tools used in Agriculture.

Student Achievements in Cultural Competitions

- Ayaz Ahmed of Third Year Student won the Second prize in TATOO Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17
- S.Vignesh and G.Thirupathi of Third Year Student won the First prize in Wealth out Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- K.Harikrishnan of Second Year Student won the First prize in PENCIL SKETCH Competition in Fine and Arts Cultural Competitions held at Priyadarshini Engineering College on 06.03.17.
- B.Suryanarayanan of Third Year Student won the First prize in PHOTOGRAPHY Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- S.Vignesh of Second Year Student won the Third prize in VARIETY SHOW Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.

- S.Karthick Raja,S.Jaya Prakash,K.Hariharan, A.V.Parthiban and J.Naresh of Third Year Student won the First prize in MAD-AD Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- M.Sudhakar of Final Year Student won the First prize in RANGOLI Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- K.Hariharan,S.Vignesh of Third Year Student won the First prize in RANGOLI Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- M.Sudhakar of Final Year Student won the Third prize in FACE PAINTING Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- S.Yogeshwaran ,S.Suryanarayanan,G.Tamilselvan ,L.Vasanth Kumar, M.Sumanraj of Third Year Students won the Second prize in COOKING Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- S.Ajith ,K.Prabhakaran of Third Year Students won the First prize in INSTRUMENT PLAYING Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- Aravindhan of First Year Student won the First prize in INSTRUMENT PLAYING Competition in Fine and Arts Cultural Competition “Utsav-17”held at Priyadarshini Engineering College on 06.03.17.
- S.S.Santhakumar ,D.Gopi ,G.Kalaiyaran , S.Balaji ,M.Rahul and P.Pramodhan of Mechanical Engineering Students won First Prize in GROUP DANCING Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- S.Ashok , D.Arun kumar ,S.Prabhakar ,T.Ezhilvanan ,G.Thirupathi and D.Gopi of Mechanical Engineering Students won First Prize in RAMP WALK Competition in Fine and Arts Cultural Competition “Utsav-17” held at Priyadarshini Engineering College on 06.03.17.
- Mechanical Department Students got Winner up in Volleyball, Chess and Carrom Organized by Department of Physical Education held at Priyadarshini Engineering College, Vaniyambadi on 07.03.17.

- T.Subash of Third Year Student won the Second prize in 1500 Meters track event Organized by Department of Physical Education held at Priyadarshini Engineering College, Vaniyambadi on 07.03.17.
- P.V.Parthiban of Third Year Student won the Second prize in 400 Meters track event Organized by Department of Physical Education held at Priyadarshini Engineering College, Vaniyambadi on 07.03.17.
- S.Jayaprakash of Third Year Student won the Second prize in 100 Meters track event Organized by Department of Physical Education held at Priyadarshini Engineering College, Vaniyambadi on 07.03.17.
- Mechanical Department Students got First Prize in 4x100 Relay and 4x400 Relay Organized by Department of Physical Education held at Priyadarshini Engineering College, Vaniyambadi on 07.03.17.

Faculty Achievements:

- Dr.P.Natarajan Principal Published a paper titled “Zigbee Based Energy Efficient Led Lighting System” in Journal of Computational and Theoretical Nanoscience, 14, 435-440,2017.DOI:<https://doi.org/10.1.160/jctn.2017,6340>
- Dr.M.Rajagopal Professor/Mech participated a one day workshop on “Opportunities and Challenges in Energy Storage Systems for Building , Solar and Wind Sectors” at Anna University Chennai on 04.03.17.
- Mr.R.Prabhakaran AP/Mech Presented a paper titled “Experimental and CFD analysis on constant and variable flow heat delivery to a cooking vessel from parabolic trough collector” in 3rd National Level Conference RIETMA 2017 at Priyadarshini Engineering College, Vaniyambadi on 07.04.17.
- Mr.R.Prabhakaran AP/Mech participated a one day workshop on “Opportunities and Challenges in Energy Storage Systems for Building , Solar and Wind Sectors” at Anna University Chennai on 04.03.17.
- Mr. S. Ashfaque Ahmed AP/Mech Presented a paper titled “Preparation and Performance Analysis of Beef Tallow Biodiesel in Single Cylinder 4S CI Engine” in 3rd National Level Conference RIETMA 2017 at Priyadarshini Engineering College, Vaniyambadi on 07.04.17.

- Mr.M.Balachandar AP/Mech participated a two day Faculty Development Program on Presentation Skills Level 2 organized by ICT Academy on 06.01.17 and 07.01.17 at Priyadarshini Engineering College, Vaniyambadi.
- Mrs.K.Barathi AP/Mech participated a two day Faculty Development Program on Presentation Skills Level 2 organized by ICT Academy on 06.01.17 and 07.01.17 at Priyadarshini Engineering College, Vaniyambadi.
- Mr.M.Vinoth AP/Mech Presented a paper titled “Design and Analysis of In-Line Three Cylinder Engine by Using Primary Balancing Method” in 3rd National Level Conference RIETMA 2017 at Priyadarshini Engineering College, Vaniyambadi on 07.04.17.
- Mr.V.Loganathan AP/Mech Presented a paper titled “Design and analysis of a car incorporated with spoiler by using Computational Fluid Dynamics” in 3rd National Level Conference RIETMA 2017 at Priyadarshini Engineering College, Vaniyambadi on 07.04.17.
- Mr.V.Loganathan AP/Mech Presented a paper titled “Effect f Silicon Carbide Nano powder in R-22 Refrigerant used in Vapour Compression Refrigeration System” in 4th International Conference on Contemporary Challenges in Engineering and Management- 2017 at ARM College of Engineering ,Chennai on 08.04.17.
- Mr.C.Vinothkumar AP/Mech Presented a paper titled “Evaluation of Triboligical Behaviour and Microstructure of AA6061-B4C-A1203 using hybrid composite” in 4th International Conference on Contemporary Challenges in Engineering and Management- 2017 at ARM College of Engineering ,Chennai on 08.04.17.
- Mr.U.Dhivakar AP/Mech Presented a paper titled ”Heat Transfer Analysis of Al₂O₃-Water Nano Fluid in a Porous Shaped Heat Exchangers” in 4th International Conference on Contemporary Challenges in Engineering and Management- 2017 at ARM College of Engineering ,Chennai on 08.04.17.

Mr.U.Dhivakar AP/Mech and Mr.T.Satheesh AP/Mech attended 7 days Faculty Development Programme on "Meterology and Measurements" in Government college of Engineering Bargur from 17.05.2017 to 23.05.2017.

Events Organized by the Department

S.No	Name of the Event	Resource Person	Date
1	Technical Symposium	Dr.P.Arunmozhi ,Professor/Mech Er.Perumal Manimegalai College of Engineering and Technology, Hosur	18 th Mar 2017.
2	Conference RIETMA-2017	Dr.A.S.Ramana, Associate Professor/Mech SSN College of Engineering, Chennai	07 th April 2017

PHOTO GALLERY



Presentation given by Mr.S.Ashfaque Ahmed



Chief Guest and others Listening PPT Session



Dignitaries on the Stage



Price Distribution by Chief Guest and Trust Member.