

Volume 2(2016-17)

Vision:

"The Mechanical Engineering Department strives to be recognized globally for outstanding education and research leading to well-qualified engineers, who are innovative, entrepreneurial and successful in advanced

Mission:

- 1) To ensure quality education to the students and enhancing their skills to make them globally competitive mechanical engineers.
- 2) Maintaining vital, state-of-the-art research facilities to provide its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
- 3) To assess linkages with world class R&D organizations and educational institutions in India and abroad for excellence in teaching, research and consultancy practices.

DEPARTMENT OF MECHANICAL ENGINEERING

About the Department

Undergraduate education (UG) course B.Tech in Mechanical Engineering is a comprehensive degree program. The goal of the Mechanical Engineering curriculum is to create a flexible undergraduate educational experience in Design, Mathematics, Modeling, computation, Quality management, Engineering science & humanities.

The Department of Mechanical Engineering has been continuously striving to make progress in Teaching and Research. The Department was started with an intake (UG) of 50 students in 2012. The Mechanical Department is well equipped with excellent laboratories to make the students to easily understand and study the latest research areas such as computational fluid dynamics, Mechanics of Robot, Aerospace and Defense field, etc and also has separate Department library houses best books in the technical field this vast reservoir of knowledge is a source of constant value addition to the students and faculty members the library's rich in manufacturing, design, metallurgy, drawing and materials science. To enhance the Technical Skills of the students, the Department also organizes various program such Value-added course, Quiz completion, Seminars, Workshops, Industrial visit and Guest lecturers which would make them globally competitive as well as students become an indispensable Engineer and earn the income they deserve.

GOALS AND STRATEGIES

- a. Ensuring the preeminence of learning.
- b. Providing high quality programs that meet the evolving needs of our students, community and sector.
- c. Ensuring scholarly and creative activity.
- d. Making collaboration integral to our core sectors.
- e. Creating an environment where all students have the opportunity to succeed.
- f. Expanding connections and partnerships with our Sectors.

INFRASTRUCTURE FACILITIES - LABORATORIES:

The Mechanical Engineering department has a number of fully equipped labs supervised by experienced teachers. There are trained technicians to help the students in performing the experiments. Through the experiments performed at the labs, the students get practical knowledge supplementing the learning gathered in the classrooms. The knowledge acquired in the lab eventually equips the students to provide quality service once employed in the industry.

At Sri Manakula Vinayaga Educational Trusts Group of Institutions, the Mechanical Engineering Department of Manakula Vinayagar Institute of Technology has cutting-edge laboratories equipped with highly advanced machines. Based on the industry and academic requirement, we have the following laboratories.



CNC Lab



Machine Shop



Metrology Lab



Metallurgy Lab



Dynamics Lab



Universal Testing Machine



Machine Drawing/CAD Lab



Thermal Lab



Fluid Machinery Lab



Pelton & Francis Turbine



Kaplan Turbine



Fluid Mechanics Lab



Engg. Graphics Model



I.C. Engine Models



Machine Drawing Models



Digital Spring Tester



Hobbing Machine



Tool Maker Microscope



Auto Collimator



Profile Projector

WORLD ENVIRONMENT DAY 2017

- On account of **World Environment Day 2017**, **Manakula Vinayagar Institute of Technology, Puducherry** and **The Institution of Engineers (India), Puducherry State Centre** organized a drawing competition for school students on the theme "Connecting People to Nature "to create awareness to the students about the nature.
- In this connection prize distribution ceremony was conducted on 14.07.2017 at our college premises. Totally, 63 Schools from Pondicherry, Cuddalore and Villupuram participated in the drawing competition. 3054 drawings were presented by the students. The best drawings were awarded the cash prize of Rs.3000/-, Rs.2000/-, Rs.1000/- and 10 consolidated prizes of Rs.500/- for each level.
- Sri.M.Dhanasekaran, Chairman and Managing Director, Sri Manakula Vinayagar Educational Trust, chief guest for this function. Sri.S.V.Sugumaran.M.L.A. Vice Chairman, Sri Manakula Vinayagar Educational Trust and Dr.K.Narayanasamy, Secretary, Sri Manakula Vinayagar Educational Trust, Felicitated the Program. Dr.S. Malarkkan, Principal, Manakula Vinayagar Institute of Technology, discussed about the theme. Dr.B.Radjaram, Professor & Head, Department of Mechanical Engineering, Welcomed the gathering. **Dr.K.Pajaniradja @ Kichena, Professor, Department of Mechanical Engineering, Pondicherry Engineering College, Chairman,IE(I) Puducherry State Centre,** and **Er.D.Giridhara Rao,Hony.Secretary,IE(I),Puducherry State Centre,** distributed Prizes to the winners of drawing competition.



Drawing selected for cash award



Prize Distribution Function

GUEST LECTURE

- A Guest Lecture was organized on **04th July 2017** by the Department of Mechanical Engineering and **ISTE** Student Chapter on the topic "**Industry 4.0**" at Manakula Vinayagar Institute of Technology, Madagadipet, Puducherry.
- Sri. M.Dhanasekaran, Chairman and Managing Director, Sri Manakula Vinayagar Educational Trust, Chaired the function. Sri. S.V Sugumaran, vice Chairman, Sri Manakula Vinayagar Educational Trust, Presided over the program. Sri K.Narayanasamy, Secretary, Sri Manakula Vinayagar Educational Trust, Felicitated the program.
- Dr.S.Malarkkan, Principal, ManakulaVinayagar Institute of Technology, motivated the students to develop your knowledge towards the industrial revolution.
- Dr.B.Radjaram, Professor & Head, Department of Mechanical Engineering, Welcomed the gathering and delivered the introduction about the program.
- **Mr. C.V. Gowri Sankar, Secretary, NIQR (National Institute for Quality and Reliability)** was the chief Guest for the program. He shared his experiences on importance of industry automation in all sector. His lecture was so motivational that it created a positive aura, which moved the students towards optimism. It was a great experience and useful lecture for the students. All the Head of the Departments, students and staff members of Mechanical Engineering participated.

INDUSTRY 4.0



Guest Lecture on Industry 4.0

TQM and it's Applications



Workshop on TQM and its Applications

ONE DAY WORKSHOP

- A one day workshop was organized on **09th September 2017** by the Department of Mechanical Engineering and **ISTE Student Chapter** on the topic “**TQM and its Applications**” at Manakula Vinayagar Institute of Technology, Madagadipet, Puducherry.
- Sri.M.Dhanasekaran, Chairman and Managing Director, Sri Manakula Vinayagar Educational Trust, Chaired the function. Sri.S.V Sugumaran, vice Chairman, Manakula Vinayagar Educational Trust, Presided over the program. Sri.K.Narayanasamy, Secretary, Sri Manakula Vinayagar Educational Trust, Felicitated the program.
- Dr.S.Malarkkan, Principal, ManakulaVinayagar Institute of Technology, motivated the students to develop your knowledge toward the quality practice on industries. Dr.B.Radjaram, Professor & Head, Department of Mechanical Engineering, Welcomed the gathering and delivered the introduction about the program.
- **Dr.G.Srinivasan , Professor from IIT Madras, Mr.K.Palani, Manager for Safety and Environment from Ashokleyland, Chennai and Mr.R.Ganesan ,Senior GM (Retired) from Axles India , Chennai** were the chief Guests for the program. They shared their experiences on importance of quality concepts in Indian scenerio. Their lecture was so motivational that it created a positive impact, which moved the students towards optimistic thinking towards quality. It was a great experience and useful session for the students. All the Head of the Departments, students and staff members of Mechanical Engineering participated.

INAUGURATION OF “NATIONAL INSTITUTION FOR QUALITY AND RELIABILITY” STUDENT’S CHAPTER

- In Puducherry Manakula Vinayagar Institute of Technology, “National Institution for Quality and Reliability” students chapter was inaugurated for Mechanical Engineering Students, the first in Puducherry Union Territory.
- Shri. M. DHANASEKARAN, Chairman cum Managing Director, Sri Manakula Vinayagar Educational Trust, presided the function. Shri.S.V.SUGUMARAN, M.L.A (Mangalam constituency), Vice Chairman and Dr. K.NARAYANASAMY Secretary, Sri Manakula Vinayagar Educational Trust, felicitated the program.
- Dr. S. Malarkkan, Principal, Manakula Vinayagar Institute of Technology gave the Presidential address. Dr.B.Radjaram, Professor & Head, Department of Mechanical Engineering, delivered the Welcome address & gave introduction about the program and its necessary features.
- Mr. C. V. Gowri Sankar , Retd. Plant Head (Operation) India Pistion Limited /Secretary , NIQR Chennai branch gave introduction about NIQR and the activities being done by NIQR for student members. Mr.R.Ganesan, Retd. Senior General Manager, Axles India Limited delivers a talk as Mentor of the chapter.

STUDENT ACTIVITY

INAUGURATION OF “NATIONAL INSTITUTION FOR QUALITY AND RELIABILITY” STUDENT’S CHAPTER

- The next session was followed by Mr. K. Sridharan Balaji, Head of Production (Special Director), Ashok Leyland/ National Secretary, NIQR. He delivered keynote address on Economic Scale Index and also stated How Engineering students should prepared for Multinational companies by providing information about Employability skills, lab with lot of measuring instruments, MSME, Curriculum Planning and Industry 4.0. He gave ideas to bridge the gap between Industry and Institution.
- The next session was by Mr. K. Manikandan, Head (Sourcing development), Ashok Leyland/ Chairman-NIQR Chennai Branch, delivered lecture on “Core Competency”.
- The last session, Dr.V. Swaminathan Retd. Deputy General Manager, Sundaram Brake Linings Limited /National Vice President – NIQR, appreciated our Institution for inaugurating maiden “NIQR MIT MECHANICAL ENGINEERING STUDENTS CHAPTER” in Regional level and also provided information regarding vacuum tube transportation, TPM, TQM, Kaizen, PDCA in his lecture on “Quality seeds for inclusive growth of Asia”.



“NIQR MIT Mechanical
Engineering Students Chapter”

STAFF ACTIVITY

- ✓ Mr.A.Thiagarajan Asst. prof Department of Mech Engg has participated in 23rd Indian Plumbing conference organized by **Indian Plumbing Association Chennai Chapter** titled “**Intricacies in Plumbing Design for High Rise Buildings**” at Chennai trade centre on 22-23 Sep 17.
- ✓ Mr.K.Karthikeyan, Mr.B.Vasanth & Mr.R.Karthikeyan Asst. prof of Mech Engg Dept has visited the Exhibition in the 23rd Indian Plumbing conference organized by **Indian Plumbing Association Chennai Chapter** titled “**Intricacies in Plumbing Design for High Rise Buildings**” at Chennai trade centre on 22 Sep 17.
- ✓ Dr.P.Sivasankaran Asst professor of Mechanical Engineering department has a published a Journal paper in **International Journal of Engineering Innovation and Research** entitled “**Slotting/Milling attachment to enhance the features of Lathe**” Volume 6, Issue 4, ISSN: 2277 – 5668

STUDENT ACTIVITY

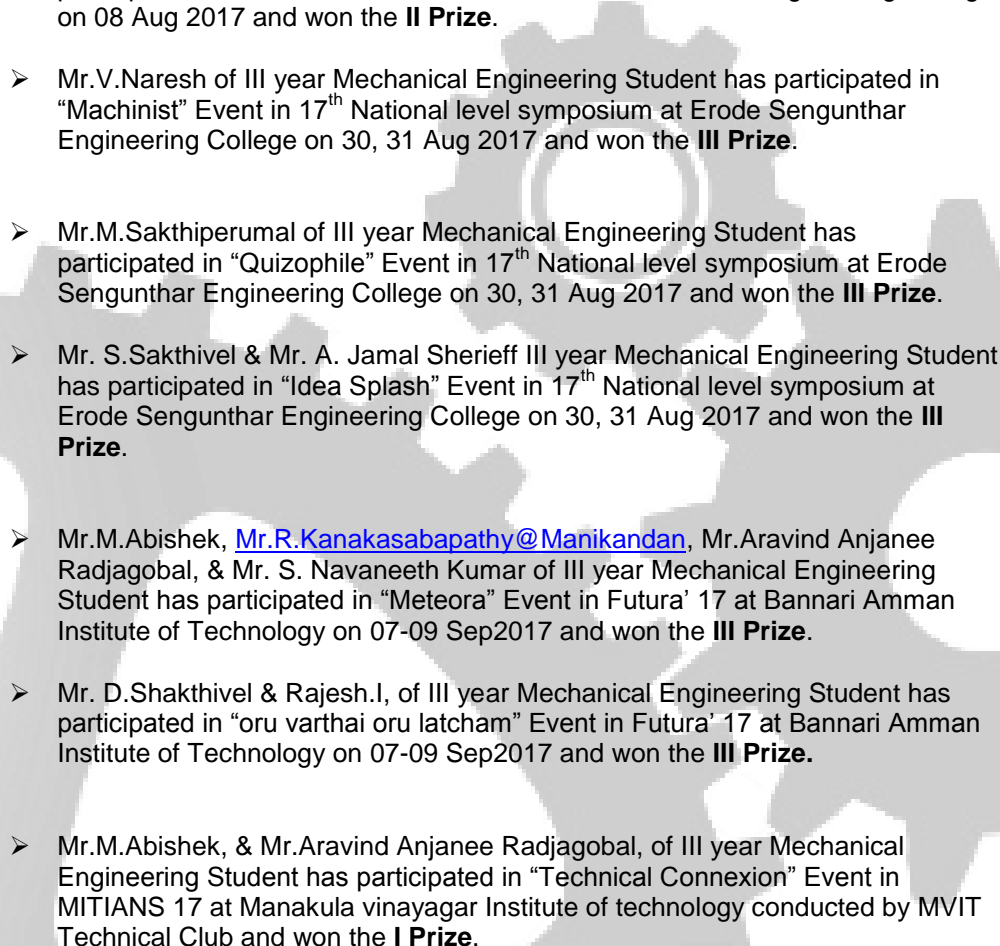
EXTRA CURRICULAR ACTIVITIES

- ✧ Mr. K.Rajakumaran of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course on “**Processing of Polymers and Polymer Composites**” with “**Elite**” Certificate.
- ✧ Mr. K.Rajakumaran of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course on “**Manufacturing of Composites**” with “**Elite**” Certificate.
- ✧ Mr. M.Venkataboopathy & Mr. A.R.Aravind of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course on “**Laws of Thermodynamics**” with “**Elite**” Certificate.
- ✧ Mr. A.Arunachalam of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course on “**Refrigeration and air conditioning**”

STUDENT ACTIVITY

CO - CURRICULAR ACTIVITIES

- Mr. K.Rajakumaran of III year Mechanical Engineering Student has attended a workshop “Express Yourself” conducted by STEM FOUNDATIONS.
- Mr. K.Rajakumaran & Mr. M.Venkataboopathy of III year Mechanical Engineering Student has participated in a session on “Leadership through Public Speaking” at the first Annual Convection of Puducherry Human Resource circle, held at hotel Green Palace, Pondicherry on 19th Aug 2017.
- Mr.M.Nirmal Kumar of year III Mechanical Engineering Student has participated in the workshop on “**3D Printing**” organized by MECON Association & SAEKRCT collegiate club at K.Ramakrishna college of Technology on 24th Aug 17.
- Mr. A.Kalaiselvan, Mr. K.Kumerasan, Mr. P.Vijay, Mr. G.Dinesh Parekh, Mr. P.Sanjivirayan & Mr. M.Sakthiperumal of III year Mechanical Engineering Student has participated in the one day workshop on “**Assembling and Dismantling of two wheeler IC Engine**” during the National level symposium, at Erode Sengunthar Engineering College on 31 Aug 2017.

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- Mr. K.Rajakumaran of III year Mechanical Engineering Student has participated in “Leaders Podium” Event in Pec-o-Fes-17 at Pondicherry Engineering College and won the **I Prize**.
 - Mr. M.Venkataboopathy, of III year Mechanical Engineering Student has participated in “Quiz Competition” Event at Manakula vinayagar Institute of technology organized by Department of Science & Humanities on 27th July 2017 and won the **I Prize**.
 - Mr.Aravind Anjaneer Radjagobal of III year Mechanical Engineering Student has participated in “Machinist” Event in M.A.R.S 19 at Sai Ram Engineering College on 08 Aug 2017 and won the **II Prize**.
 - Mr.V.Naresh of III year Mechanical Engineering Student has participated in “Machinist” Event in 17th National level symposium at Erode Sengunthar Engineering College on 30, 31 Aug 2017 and won the **III Prize**.
 - Mr.M.Sakthiperumal of III year Mechanical Engineering Student has participated in “Quizophile” Event in 17th National level symposium at Erode Sengunthar Engineering College on 30, 31 Aug 2017 and won the **III Prize**.
 - Mr. S.Sakthivel & Mr. A. Jamal Sherieff III year Mechanical Engineering Student has participated in “Idea Splash” Event in 17th National level symposium at Erode Sengunthar Engineering College on 30, 31 Aug 2017 and won the **III Prize**.
 - Mr.M.Abishek, Mr.R.Kanakasabapathy@Manikandan, Mr.Aravind Anjaneer Radjagobal, & Mr. S. Navaneeth Kumar of III year Mechanical Engineering Student has participated in “Metora” Event in Futura’ 17 at Bannari Amman Institute of Technology on 07-09 Sep2017 and won the **III Prize**.
 - Mr. D.Shakthivel & Rajesh.I, of III year Mechanical Engineering Student has participated in “oru varthai oru latcham” Event in Futura’ 17 at Bannari Amman Institute of Technology on 07-09 Sep2017 and won the **III Prize**.
 - Mr.M.Abishek, & Mr.Aravind Anjaneer Radjagobal, of III year Mechanical Engineering Student has participated in “Technical Connexion” Event in MITIANS 17 at Manakula vinayagar Institute of technology conducted by MVIT Technical Club and won the **I Prize**.

MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

VISION

To accomplish excellence in the field of technical education and scientific research on regional, national and international levels through committing to total quality for its faculty, providing excellent infrastructure, research facilities and conducive atmosphere that would motivate the students in the pursuit of knowledge in Engineering and Technology.

MISSION

- ◆ *To provide in depth knowledge in fundamentals to students to improve their learning and analytical skills.*
- ◆ *To provide our students with the most progressive, relevant and well-rounded academic programs, supporting their learning through advanced and extensive resource.*
- ◆ *To promote interaction with industries and other institutes of higher learning to equip our students to face the challenges on real time problems.*
- ◆ *To develop the overall personality of the students to mould them into a good citizen with integrity and morality*

EDITORIAL BOARD

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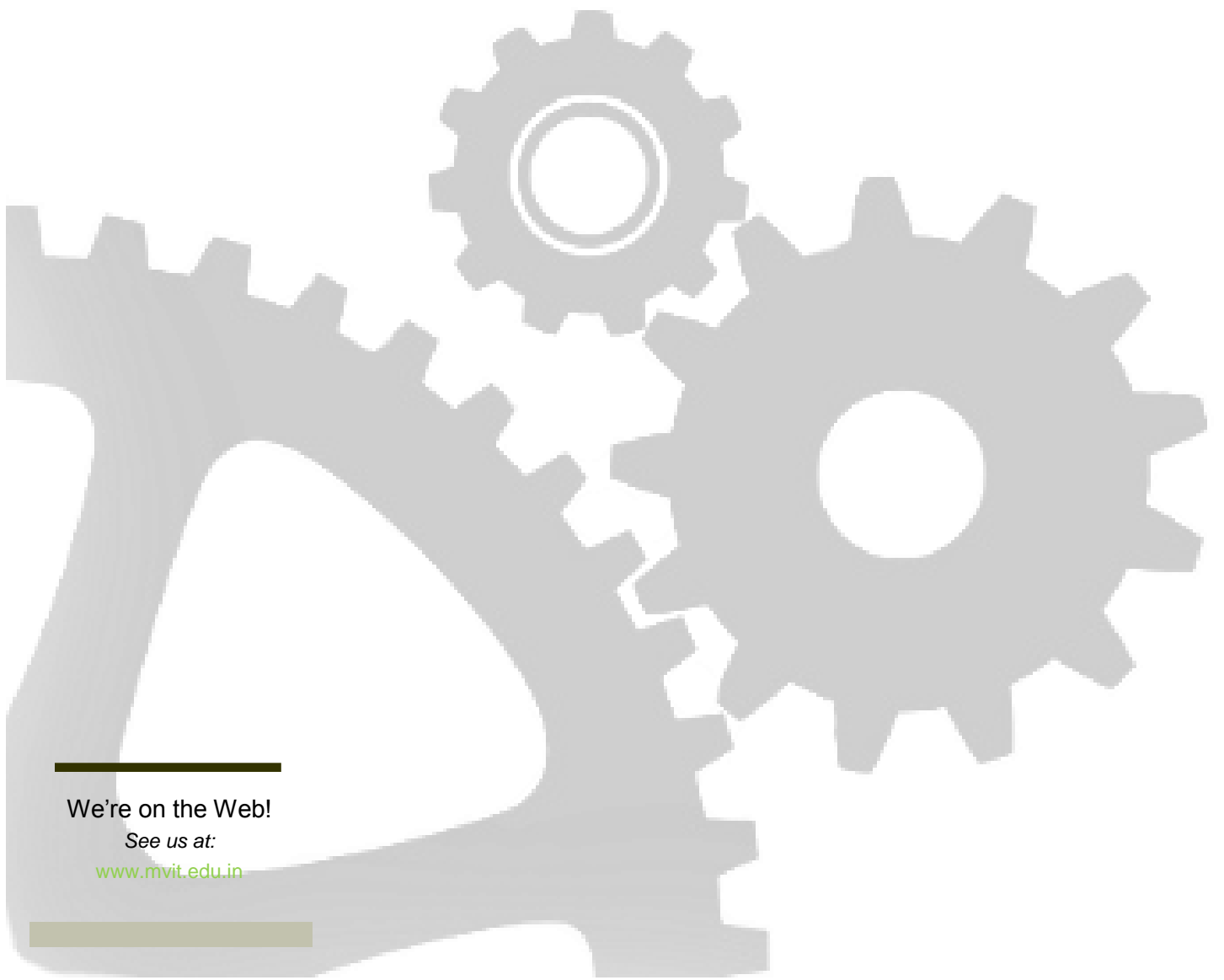
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