

Inside this Issue

FACULTY ACHIEVEMENT | STUDENTS ACCOLADES |
PLACEMENTS | INDUSTRIAL VISIT | EVENTS

About the Department

The department of Mechanical Engineering started its successful journey in 1985 and has been accredited by the NBA since 1998. It is recognized as a research center approved by Anna University, as well. The UG/PG courses offered by the department cover the thrust and Industrial areas such as Thermal, Design, Manufacturing Engineering supplemented by well - equipped laboratories, reputed research supervisors and dedicated faculty members. The department has the privilege of housing research cellsnamely the Fibre Reinforced Composite (FRP) Cell, Engine Testing and Bio - Fuel Research cell, Tribology research cell, Welding research cell which are used extensively for research and consultancy projects. The department has completed sponsored research projects for a worth of more than 1.5 crore and consultancy projects for more than 75 lakhs. The department has established a center of excellence in Additive Manufacturing and Computer Integrated Manufacturing, which houses the facilities such as Digital Manufacturing, Robotics and HMI based Automation and 3D printers. The department has published more than 150 papers in peer reviewed journals during the last 4 years.

The following programs are offered by the department

- 1. B.E. Mechanical Engineering
- 2. B.E. Mechanical and Automation Engineering
- 3. M.E. Industrial Automation and Robotics

Vision

To be a leader in Higher Technical Education and Research by providing the state of the art facilities to transform the learners into global contributors and achievers.

Mission

- 1. To be renowned for offering Programs in the field of Mechanical Engineering that imparts competent technical knowledge along with skill, research& innovation, leadership and life skills needed for the students to contribute and achieve at global level.
- 2. To provide quality education encompassing recent technological developments by continuously upgrading the academic infrastructure thereby enhancing the technical knowledge of students, teachers and supporting staff which facilitates technical assistance to industrial and societal needs.
- 3. To offer need based training to the students in tools relevant to mechanical engineering.
- 4. To continuously upgrade the research facility and provide a conducive environment leading to continuous learning, development and transfer of knowledge.
- 5. To inculcate in students minds about Professional ethics, Human Values and Environmental issues in Engineering.

"A Glimpse of Remarkable Achievements"

Patent Published: Dr. M. Prem Ananth, along with students Mr. Rohith Ram R (III Year, Mechanical and Automation Engineering), Mr. Adnan Khader, Mr. Hari Kiran M.G., and Mr. Harish Madhavan S (IV Year, Mechanical Engineering), has successfully published a patent titled "Smart Flood Barrier" under Application No. 202441080899. The patent was filed on 24th October 2024 and published on 1st November 2024. Congratulations to the team for this innovative contribution!





Office of the Controller General of Patents, Designs & Trade Marks Department for Promotion of Industry and Internal Trade Ministry of Commerce & Industry, Government of India

http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

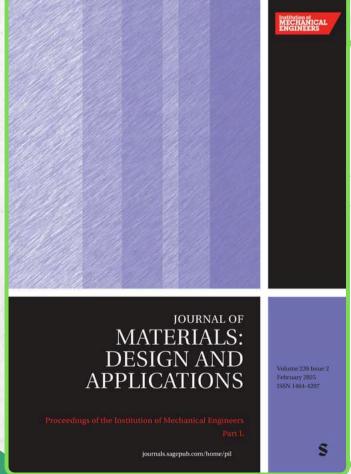
Application Details	
APPLICATION NUMBER	202441080899
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	24/10/2024
APPLICANT NAME	1 . SRI VENKATESWARA COLLEGE OF ENGINEERING 2 . PREM ANANTH M 3 . ROHITH RAM R 4 . ADNAN KHADER M 5 . HARI KIRAN M G 6 . HARISHMADHAVAN S
TITLE OF INVENTION	"SMART FLOOD BARRIER"
FIELD OF INVENTION	CIVIL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	*
PUBLICATION DATE (U/S 11A)	01/11/2024

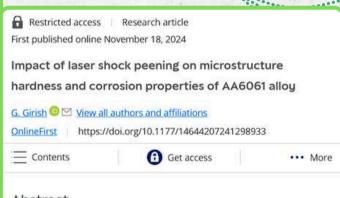
Annilossina Datalla

"A Glimpse of Remarkable Achievements"



Journal Published: Dr. G. Girish has published a research paper titled "Impact of Laser Shock Peening on Microstructure, Hardness, and Corrosion Properties of AA6061 Alloy" in the Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications. This SCIE-indexed journal has an impact factor of 2.5. Congratulations to Dr. Girish on this significant academic contribution!





Abstract

In recent times, laser shock peening (LSP) has emerged as a pioneering technique to modify the surface properties of various aluminium-based alloys. In this study, AA6061 was treated by single and multi-pass LSP, and its microstructure, hardness, and corrosion behaviour were investigated. Microstructural studies were performed using X-ray diffraction, electron back-scattered diffraction, and transmission electron microscopy methods. Texture studies were conducted using the neutron diffraction method, while hardness measurements were carried out using a Vickers hardness tester. Corrosion studies were conducted using the potentiodynamic method, and surface examination was performed using scanning electron microscopy. The results

"A Glimpse of Remarkable Achievements"



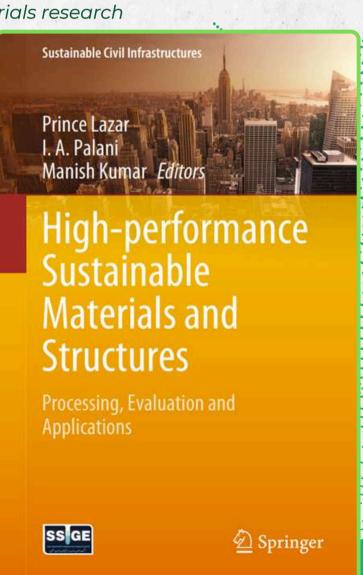
Prize Won: Dr. S. Gopinath and Mr. Bhaskar (Instructor, Department of Mechanical Engineering) won the Gold Award in the KAIZEN (Continuous Improvement) Competition organized by the Quality Circle Forum of India (QCFI), Chennai Chapter. Congratulations to both for this outstanding achievement!



"A Glimpse of Remarkable Achievements"

Bookchapter Published: Dr. S. Muniraj and Mr. A. Kumaraswamy, along with students Mithun Aravind O and J. Madhava Rajan, published a chapter titled "Prediction of Improved Surface Quality by Optimized Influential Milling Process Parameters with Different Cutters on Magnesium Alloy". Their chapter is featured in the book "High-Performance Sustainable Materials and Structures" and highlights advancements in milling process optimization for enhanced surface quality on magnesium alloys. Congratulations to the team for their contribution to sustainable materials research



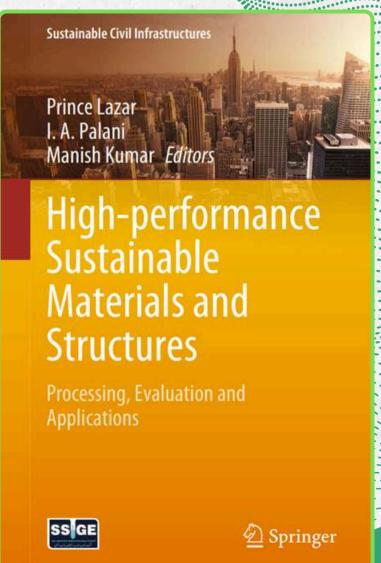


"A Glimpse of Remarkable Achievements"

Bookchapter Published: Mr. Arulkumar M. and Dr. Prem Ananth M. published a book chapter titled "Predictive Modelling of Wear and Friction in Surface Textured TiAIN Coated Ti6AI4V Alloy Using Artificial Neural Networks" in the High-Performance Sustainable Materials and Structures Book Series under the Sustainable Civil Infrastructures series. The chapter, spanning pages 131–142, was published by Springer Nature Switzerland in 2024. Congratulations to the authors on their significant contribution to sustainable materials

research!





"A Glimpse of Remarkable Achievements"

International Conference on Advanced Materials,



Conference Presentation: Mr. Arulkumar M. along with Krithik Raj A. final year student, Participated and Presented a paper Titled: Artificial Intelligence-based Autonomous Pesticide Spraying Drone Management for Sustainable Agriculture in the International Conference on Advanced Materials, Manufacturing and Sustainable Development (ICAMMSD-2024) organized by the Mechanical Engineering Department during 22-23 November 2024 at G.Pulla Reddy Engineering College (Autonomous), Kurnool, Andra Pradesh - 518007.India.





"A Glimpse of Remarkable Achievements"



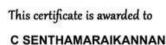
NPTEL course completion: Dr. C.
Senthamaraikannan successfully completed
the NPTEL 12-week course on "Automation in
Manufacturing" with a consolidated score of
82% during the July-October 2024 session.
Congratulations on this accomplishment!



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



for successfully completing the course



Automation in Manufacturing

with a consolidated score of 82

Online Assignments 25/25 Proctored Exam 57/75

Total number of candidates certified in this course: 1559

Jul-Oct 2024

(12 week course)









Indian Institute of Technology Guwahati

FREE ONLINE EDUCATION SWAYAM DEM. SWAYAM THE PROPERTY WILL BE SHOWN WILL

Roll No: NPTEL24ME139S1056310007

To verify the certificate



No. of credits recommended: 3 or 4

"A Glimpse of Remarkable Achievements"



NPTEL course completion: Dr. R Ramesh successfully completed the NPTEL 12-week course on "Automation in Manufacturing" with a consolidated score of 67% during the July-October 2024 session. Congratulations on this accomplishment!



Elite

(Funded by the MoE, Govt. of India)



RAMESH R

for successfully completing the course

Automation in Manufacturing

with a consolidated score of

Online Assignments | 24.69/25 | Proctored Exam

42/75

Total number of candidates certified in this course: 1559

Jul-Oct 2024

(12 week course)

Prof. T. V. Bharat





Indian Institute of Technology Guwahati



No. of credits recommended: 3 or 4

"A Glimpse of Remarkable Achievements"



NPTEL course completion: Dr. S PONNUVEL successfully completed the NPTEL 12-week course on "Automation in Production Systems and Management" with a consolidated score of 86% during the July-October 2024 session. Congratulations on this accomplishment!



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



S PONNUVEL

for successfully completing the course



Automation in Production Systems and Management

with a consolidated score of 86

Online Assignments | 23.44/25 | Proctored Exam | 63/75

Total number of candidates certified in this course: 317

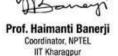
Jul-Oct 2024

(12 week course)











Indian Institute of Technology Kharagpur

Swayam

Inflor unce, 3000 miner

Roll No: NPTEL24MG117S1056309983

To verify the certificate



No. of credits recommended: 3 or 4

"A Glimpse of Remarkable Achievements"



Guest lecture: On 15th November 2024, Dr. M.
Gajendiran delivered a webinar lecture on Fluid
Mechanics and Machinery for the Department
of Mechanical Engineering at DMI College of
Engineering, Chennai. The session began at
10:45 AM, providing valuable insights into core
mechanical engineering concepts.



"A Glimpse of Remarkable Achievements"

Rev.Sr.M.K.TERESA

CORRESPONDENT

Guest lecture: Mr. J. Sivaramapandian served as a resource person for a webinar titled "Design Concepts of Springs and Bearings" organized by the Department of Mechanical Engineering, DMI College of Engineering, on 17th November 2024. His session provided valuable insights into the design and applications of springs and bearings.





Dr.SUJATHA JAMUNA ANAND

PRINCIPAL

Dr.A.AMALA MITHIN

MrDr.V N ANBAZHAGAN Coordinator

HOD/MECH

"A Glimpse of Remarkable Achievements"

Workshop attended: Dr. P. Raghu, Dr. G. Girish, and Mr. M. Maheswaran attended a PALS program as representatives of the Partner Institute for PALS 2024–25. As part of the program, they visited Shibaura Machine India Private Limited, Chennai, on 25th October 2024, gaining insights into advanced manufacturing processes and machinery.



CERTIFICATE OF PARTICIPATION

IS AWARDED TO

Mr.MAHESWARAN. M



Dr.G.Girish

ASSISTANT PROFESSOR, MECHANICAL ENGINEERING, from SRI VENKATESWARA COLLEGE OF ENGINEERING



S AWARDED TO

Dr.Raghu

ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING, from **SRI VENKATESWARA COLLEGE OF ENGINEERING**, a Partner Institute of PALS 2024 – 25.

Faculty visited the

SHIBAURA MACHINE INDIA PRIVATE LIMITED, Chennai

on 25th October 2024.



Chandastron

C N Chandrasekaran

Chairman, PALS

PALS an initiative of volunteers from Alumni fraternity of IIT's , focussed an auamenting engineering aducation . Details in www.palsoom.co

25th Oct 2024 - IV-SHIBAURA-028

"A Glimpse of Remarkable Achievements"

FDP attended: Dr. C. Senthamaraikannan and Mr. A. Kumaraswamy successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on "IoT Enabled Techniques for Industrial Processes" held at M. S. Ramaiah Institute of Technology from 25th to 30th November 2024. Congratulations to both for their active participation and achievement!



"A Glimpse of Remarkable Achievements"



FDP attended: Dr V Sridharan and Mr. Aravindan M, participated in a Five-Day Online Faculty Development Program (FDP) on "Metal Additive Manufacturing: From Advances to Adaptability" organized Department Mechanical Engineering, St. Joseph's Institute of Technology, from 4th to 8th



Dr. SRIDHARAN V

Associate Professor, Department of Mechanical Sri Venkateswara College of Engineeri for participating in a Five days online FDP on "ME MANUFACTURING: FROM ADVANCES TO ADAPTABILIT Department of Mechanical Engineering from 4th to 8th





(Le * Introvate * [115]

Dr. D. Elil Prof Mecha



ARAVINDAN M

Assistant Professor, Department of Mechanical Engineering Sri Venkateswara College of Engineering for participating in a Five days online FDP on "METAL ADDITIVE MANUFACTURING: FROM ADVANCES TO ADAPTABILITY" organized by the Department of Mechanical Engineering from 4th to 8th, November 2024.





Dr. D. Elil Raja, M.E, Ph.D., Professor and Head, Mechanical Engineering

STUDENTS ACCOLADES

"Diverse Talents, One Campus Spirit"

Third-year Mechanical Engineering students Mr. Akash K (Reg. No. 2127221001301) and Mr. Mohana Sundaram V.R (Reg. No. 2127221001302) secured the Best Paper Award for their paper titled "Adopting IoT in Agriculture for Irrigation Systems" at "KRIDA-YANTHRIK'24", a National Level Technical Symposium organized by the Department of Mechanical Engineering, Rajalakshmi Engineering College, Chennai, on 28th October 2024. They were awarded a cash prize of ₹1,000, and the work was guided by Dr. A. Saravanan, Assistant Professor, Department of Mechanical Engineering. Congratulations to the team!





STUDENTS ACCOLADES

"Diverse Talents, One Campus Spirit"

Sports Achievements:

Mithun Aravind O (IV Year, Mechanical Engineering) represented the college basketball team and secured the Runners-Up position in the



State-Level Inter-Collegiate

Basketball Independence

Day Cup 2024, organized

by Shiv Nadar University

on 28th & 29th October

2024, and received a cash

award of ₹7,000.

Sri Ramana Kishore (I Year, Mechanical Engineering) secured the Third Prize in the Handball Tournament 2024-25.



Jeeva Karuna S (II Year, Mechanical Engineering) secured the Third Prize in the Hockey Tournament 2024-25.



INDUSTRIAL VISIT

"Factory Chronicles: Where Learning Takes Shape"

Industrial visit was organized for **50 students** from the 3rd year Mechanical (25 students) and Final Year A Section (25 students) on 7th October 2024 to **M/s Indwel Precision Gears Pvt. Ltd.**, located in Sriperumbudur. The students were accompanied by **Dr. S. Ponnuvel** and **Mr. M. Arulkumar**, faculty members from the Department of Mechanical Engineering. The visit provided valuable insights into precision gear manufacturing and its industrial applications.



INDUSTRIAL VISIT

"Factory Chronicles: Where Learning Takes Shape"

Industrial Visit to ACE Designers Limited, Bengaluru

Dr. C. Senthamarai Kannan and Mr. A. Kumaraswamy visited ACE Designers Limited, Bengaluru, on 29th November 2024. The visit was arranged through M. S. Ramaiah Institute of Technology, providing valuable industry exposure to advanced manufacturing and CNC machining technologies.





INDUSTRIAL VISIT

"Factory Chronicles: Where Learning Takes Shape"

Industrial visit was organized for **48 students** for 2nd year Mechanical and Automation engineering students on 8th November 2024 to **M/s Delphi-TVS.** Ltd., located in Sriperumbudur. The students were accompanied by **Dr. S. Natrajan** and **Mr. A. Ranjith Raj**, faculty members from the Department of Mechanical Engineering. The visit provided valuable insights into precision gear manufacturing and its industrial applications.



PLACEMENT

"Opening Doors to Career Opportunities"





BINU N (2127211001010)



Expedit Joe L (2127211001017)



Gokul P (2127211001018)



Gokulakrishnan S (2127211001019)



Gowshick Sugin I M (2127211001020)

Congratulations to **Binu N, Expedit Joe L, Gokul P, Gokulakrishnan S,** and **Gowshik Sugin I M** on their placement at M/S **Infosys** as **System Engineers.** Wishing them great success in their professional journey!

PLACEMENT

"Opening Doors to Career Opportunities"



Congratulations to **Dharun Prakash M** (2127211001014) for securing placement at M/S **Rishab Enterprises** as a **Graduate Engineering Trainee**. Wishing him success in his new role!

EDITORIAL TEAM



Dr. S. RAMESH BABU
Professor & Head
Mechanical Engineering



Dr. M. Mohandass
Associate Professor
Mechanical Engineering



Dr. S. MUNIRAJ
Assistant Professor
Mechanical Engineering



Mr. A. Ranjith Raj Assistant Professor Mechanical Engineering

STUDENT EDITORIAL TEAM



Mr. Kiran Kumar D P IV Year Mechanical Engineering



Mr. Mithun Aravind O IV Year Mechanical Engineering



Mr. G Bharath Kumar III Year Mechanical Engineering



Mr. Lokesh P III Year - Mechanical and Automation Engineering



Mr. M Sanjay II Year Mechanical Engineering



Mr. Lithesh C II Year - Mechanical and Automation Engineering