



St. JOSEPH'S INSTITUTE OF TECHNOLOGY

We Make You Shine

(AN AUTONOMOUS INSTITUTION)

OMR, CHENNAI - 119



DEPARTMENT OF MECHANICAL ENGINEERING



BEACON

**MARCH
2024**



Editorial Board

Dr.D.Elil Raja, Prof & Head-Mech

Dr.D.Arthur Jebastine Sunderraj, AP, Mech



St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119



The Choice of
Disciplined Toppers

CULTURAL

Our department III year students participated in various cultural events and won 2nd place in Dumb-C

Winners

1. Gurusarath R (312421114017)
2. Emayavaramban G (312421114015)

Date of Event 08-03-2024

Venue Drawing Hall – I & II

Session Duration 08:00am To 02:30pm

Participants 3rd Year Students

List of Events Light Music, Ranagoli, Drawing Pencil, Dumb-C, Creative Writing Tamil, Creative Writing English, Quiz, Paattukku Paattu, Oratorical English, Oratorical Tamil.



MOCK INTERVIEW

Our Alumni Mr. SAI SRINIVASAN & Mr. SARAN VISWA of batch 2018-22 has volunteered for conducting mock interview for 2nd year students on 3rd March 2024. They exhibited real time interview format and gave lot of insights for the students and briefed about various opportunity available in the market. Department feels proud and appreciates the effort taken by the alumni.

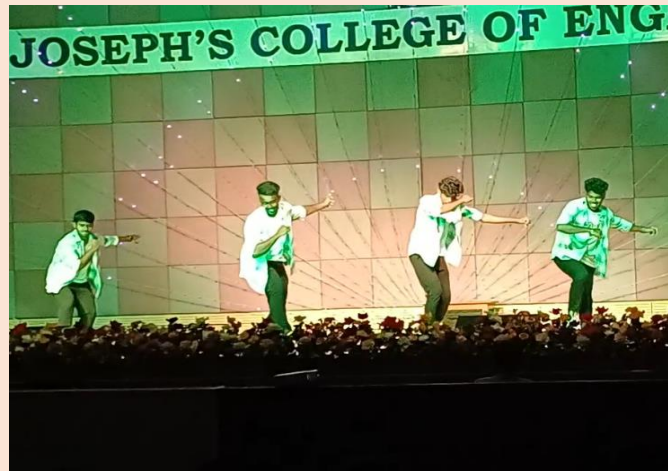
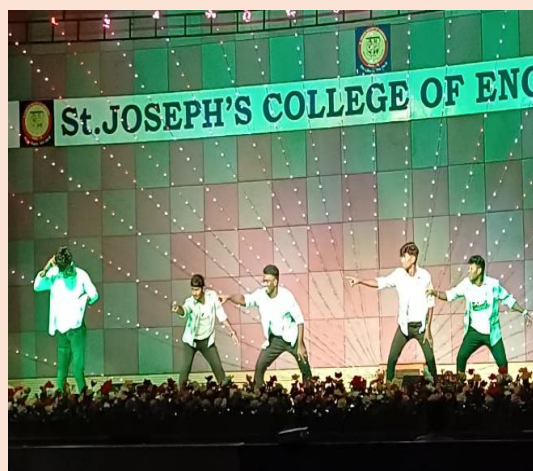
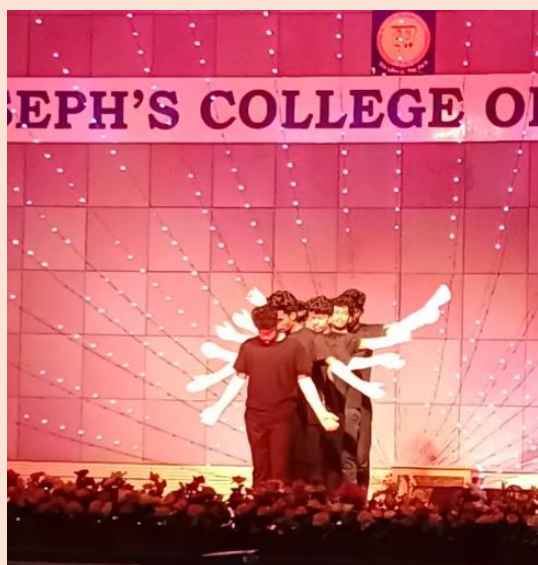


COLLEGE DAY

Our department IIIrd year students participated in COLLEGE DAY function held on 03rd March 2024 and our students performed 2 dance. They received a cash prize of Rs. 3000/- cash award for best performance for team Rodeos dance.

Winners: TEAM RODEOS

- | | |
|----------------------------|--------------------|
| 1. Adlai Emmanuel Theo W P | 5. Ilamaran K N |
| 2. Sree Charan M | 6. Aravind E |
| 3. Sibi Silvesta A J | 7. Emayavaramban G |
| 4. Aswin Raj S | 8. Dhanesh R |
| | 9. Lavanesh M |



SPORTS DAY

Our department III year students participated in SPORTS DAY events on 02nd March 2023. They exhibited wonderful sportsmanship that fetched winner position in Kabbadi & Volleyball and Runner in Football.

Winner: Kabbadi 1. AJITH VS 2. ARIVAZHAGAN M 3. HARI BALAKRISHNAN S 4. JONNALAGADDA PARIPOORNAM Y 5. KEERTHAN S 6. SREE CHARAN M 7. SUDHARSANAN .R 8. MADESH.S	Winner: Volleyball 1. SUDHARSANAN .R 2. SENTHURVELAN 3. ASWIN RAJ.S 4. ILAMARAN.K.N 5. KEERTHAN S 6. MANIKANDAN.S 7. JONNALAGADDA PARIPOORNAM Y	Runner: Football 1. ELVISH J 2. R.DHANESH' 3. ASWIN RAJ.S 4. GNANESH M 5. GURUSARATH R 6. HARI BALAKRISHNAN Sv 7. KARNISH K 8. KEERTHAN A 9. KEERTHAN S
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PRIZE WINNERS

The Management, Principal, Staff members and students are proud to congratulate the following students for winning positions in **Science and Engineering Fair (Mentoring School Students)** held from 4th to 6th March 2024 at **Dr. Mahalingam College of Engineering and Technology, Pollachi.**

S. No	Name of the Students	Year	Position	Prize Amount
1	Ponraj Jeyavarman S	III Year	7 th position/35 teams	Rs 5,000
2	Joshua Jebaveeran J			



INDUSTRIAL VISIT

Industry visit organized by our Department for 29 second-year students.

The visit took place on March 13, 2024, at IGCAR. IGCAR likely refers to the Indira Gandhi Centre for Atomic Research, a nuclear research facility in Kalpakkam, India.

the industrial visit to IGCAR for the mechanical engineering students was likely to: Expose them to the applications of mechanical engineering in a nuclear research facility. IGCAR utilizes various mechanical engineering concepts in areas like reactor design, material handling, and building specialized machinery.

Provide practical insights into the field. Seeing these applications firsthand can be much more impactful than classroom learning. Students might have learned about reactor mechanics, remote handling equipment, or other specialized machinery. Interaction with scientists and engineers at IGCAR could inspire students to pursue careers in this field. the visit likely showcased how mechanical engineering principles play a crucial role in scientific research and development.



STUDENT WORKSHOP

On March 14th and 15th, 2024, a two-day workshop was organized for mechanical engineering students in their second and third years. The program focused on the subject of "Internet of Things (IoT) for Mechanical Engineers." The significance of the Internet of Things (IoT) for mechanical engineers and its industrial applications was introduced by Dr. Mohammed Abbas, the Director of Globesci Technologies. The initial session consisted of a concise exhibition of IoT, which was subsequently followed by a hands-on demonstration to students, divided into groups. The students enthusiastically engaged in the workshop and constructed their own IoT kits to operate autonomous vehicles. They gained a comprehensive understanding of remote equipment operation and control through the utilization of the Internet of Things.



SPORTS DAY (II Yr.)

Second-year Mechanical Engineering students spiked their way to victory in the department's intramural sports competition on March 16th, 2024! Meanwhile, the badminton crown was claimed by our students Srivatsav, Yugandar, showcasing the well-rounded athleticism within the department. And Volleyball was claimed by

Sampul, Yogesh Raja, Shoutout to all participants for bringing the competitive spirit!

PLACEMENT TRAINING (Alumni)

On March 16th, 2024, Ms. Nandhini, a proud alumna from the 2018-22 batch of Mechanical Engineering Department and a Project Engineer at SOLITON Technologies, generously offered her time and expertise to mentor our upcoming III MECH students. Ms. Nandhini's insightful session provided invaluable guidance to our students as they prepare to ace their SOLITON Technologies placement interview. Her industry knowledge and practical tips will undoubtedly equip them with the confidence and skills to shine during the selection process.



GUEST LECTURE

II and III year Mechanical Engineering students at our institution were introduced to a powerful career path at the intersection of engineering and technology! On March 18th, 2024, Mr. Parthasarathy, a Business Consultant from Techmax, Chennai, delivered a guest lecture titled "Awareness on SAP for Mechanical Engineers." This

session shed light on the exciting possibilities that SAP ABAP, a coding language, offers for mechanically inclined minds.

The lecture highlighted how a passion for coding can complement a mechanical engineering background. By learning SAP ABAP, students can get involved in implementing Enterprise Resource Planning (ERP) systems specifically designed for manufacturing companies. This unique skillset bridges the gap between design and production, making them highly valuable assets in the industry. Mr. Parthasarathy not only introduced the concept but also emphasized the lucrative career options and competitive advantage SAP expertise provides. This session was a clear message: SAP ABAP can be a powerful tool for success for any ambitious mechanical engineering student



In a captivating session geared specifically for II MECH students, Dr. S. Senthil Murugan, a Post-Doctoral Fellow, National Institute of Technology, Kalkata, delved into the fascinating world of "Mechanical Methods for Processing Metals and Alloys" on March 18th, 2024. This guest lecture promised an enriching exploration of the very tools and techniques that breathe life into the metallic marvels we

encounter every day. It was undoubtedly an insightful journey for the budding mechanical engineers.



PROJECT EXPO

The project expo was conducted by our Department, to impart knowledge to 1st 2nd and 3rd Year students about the recent advancements and innovation in the field of mechanical engineering. To motivate them to carry out innovative projects to find solution to existing problems in the society. The Expo began On 21/3/24 around 11 am and continued till 2:45 pm. Around 20 projects in recent advancements were displayed by the IV-year students. The application, uses of the projects were explained by them to Ist, IInd and IIIrd year students and their queries were clarified. The students gained sufficient knowledge about the ongoing trends, innovation in the field of mechanical engineering and also were inspired to carry out projects in the upcoming semesters.



ALUMNI TALK

In an inspiring session held on 23.03.24 at Our Department, Mr. M. Krishnakanth, a recent graduate (Batch of 2018-22) with a Master's degree in Management from a prestigious UK university, returned to his alma mater to enlighten the III MECH students. Having thrived in his career and currently holding the position of Executive Business Developer at SOFTSUAVE Technologies in Chennai, Mr.M.Krishnakanth offered valuable insights on the exciting prospects of pursuing higher studies in the UK and the significance of a management degree for Mechanical Engineers. His visit undoubtedly served as a significant source of inspiration for the aspiring engineers.



ONLINE CERTIFICATION

Our Department students of 30 students from third year and 3 students from fourth year have finished the online certification course from various platforms such as udemy, prepinsta.



Thank You





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BORCELLE

DEPARTMENT OF MECHANICAL ENGINEERING

BEACON

April -2024



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Mrs. S. Jessie Priya M.Com.,
Executive Director,
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Vision Mission of the Department

VISION

To provide knowledge centered education and prepare students for meeting global mechanical engineering challenges thereby enabling them to contribute for the prosperity of the society.

MISSION

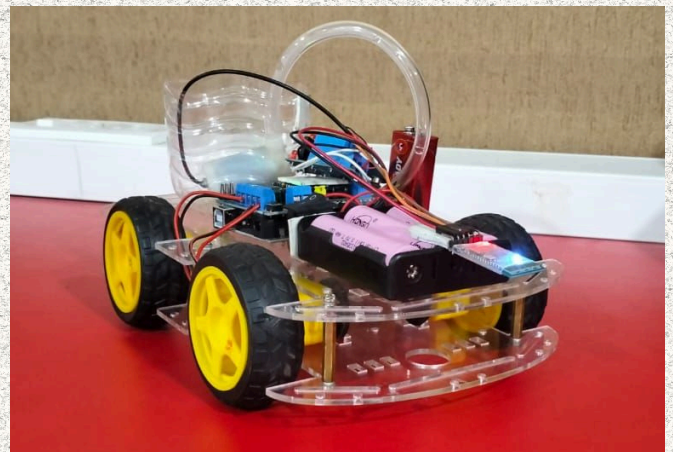
- To impart quality education in the field of mechanical engineering through teaching and learning process.
- To promote students awareness about the importance of professional ethical practices.
- To enrich the knowledge in mechanical engineering through research and innovation.
- To inculcate the spirit of entrepreneurship among students.

MAKEATHON

A one day hardware project competition 'MAKEATHON' was conducted in our college on April 5th, 2024. Two teams from our Mechanical department participated with innovative projects titled 'Overflow controller' and 'Fire extinguisher robot with multimode'. Both projects impressed the judges with their clever concepts. Students awarded with special mention award of Rs 5,000 cash award. Students gained valuable experience through this competition, and are motivated to participate in future events.

Mentors : Dr.D.Elil Raja

Mr. S.A.Muhammed Abraar



ALUMNI TALK

**DEPARTMENT OF MECHANICAL ENGINEERING
ALUMNI ASSOCIATION**

**ORGANISED
ALUMNI TALK ON**

OPPORTUNITY FOR MECHANICAL ENGINEERS IN MARITIME



**EXCLUSIVELY FOR
II YEAR STUDENTS**

22-04-2024



MR. FERDIN VAZ
MARINE ENGINEER OFFICER
SYNERGY MARINE GROUP

2016-2020



Mr. FERDIN VAZ shared his insights about the opportunity for the students available to immerse themselves in a new culture, gain a global perspective, and access top-notch technology in marine sector.

On April 22, 2024, Mr. Ferdin, a Marine Engineer Officer at Synergy Group, delivered an alumni talk for mechanical engineers interested in maritime careers. The topic of the discussion was "The Future of Marine Engineering". Positive feedback from attendees suggests that the talk was informative and engaging. Mr. Ferdin likely shared valuable insights into the future of marine engineering, which would be beneficial for mechanical engineers considering this career path.

PLACEMENTS

Ashwin D & Rohith R P Has been selected in GEA BGR Tech Ltd in the package of 3.6 LPA

Placement Training has been conducted for the II Year students from 1st April to 6th April 2024. Two batches has been splitted one batch has 23 students were trained with C- Programming by Top Fresher and another batch of 6 students were trained with Java Programming by Six pharase

ONLINE CERTIFICATION BY STUDENTS

S.NO	NAME OF THE STUDENT	TITLE OF THE COURSE	DURATION	MARKS
1.	JAWAHAR RAJ B	MANUFACTURING AUTOMATION	4 Weeks	71% Elite
2.	ARUN KUMAR S	MANUFACTURING AUTOMATION	4 Weeks	67% Elite
3.	RENIMON ROY	MANUFACTURING AUTOMATION	4 Weeks	50%
4.	GOPIKA M	MANUFACTURING AUTOMATION	4 Weeks	50%
5.	SHRIVATSAV T	MANUFACTURING AUTOMATION	4 Weeks	56%
6.	KISHORE KUMAR	MANUFACTURING AUTOMATION	4 Weeks	50%
7.	SIVA KUMAR V	STEAM AND GAS POWER SYSTEMS	4 Weeks	48%

ONLINE CERTIFICATION BY STAFF

SNO	FACULTY NAME	TITLE OF THE COURSE	DURATION	STATUS	MARK OBTAINED	DATE OF CERTIFICATION
1.	Dr.M.Chris pin Das	Effective Engineering Teaching In Practice	4 Weeks	Completed	71	01.04.2024
2.	Mr.A.Sathish Kumar	Manufacturing Automation	4 Weeks	Completed	71	01.04.2024

CASH REWARDS FOR STAFFS & STUDENT

Our Department staff of 14 Members received Cash rewards as Rs 2,00,460 for 2023 and Rs 25,000 for 2024

Barath G from III Year Mechanical has been awarded with cash prize of Rs 2000 for completing NPTEL Course

PATENT PUBLISHED BY FACULTY

Dr.N.Thangapandian & Mr. S. A Muhammed abraar has published 2 Indian Utility Patents

HIGHER STUDIES

HIGHER STUDIES JOINED IN THE YEAR 2023-2024



Jaibharath
ARIZONA STATE
UNIVERSITY, USA



ABHISHEK SRIRAM
NORTHEASTERN UNIVERSITY
USA



BATCH
2019-2023

Congratulations.....!

We Feel Proud.



Mohamed Danish
University of DUNDEE
SCOT LAND



JIJ
KARUNYS INSTITUTE
OF TECHNICAL SCIENCES
INDIA



Hastin Rhenius
SSN COLLEGE
INDIA

PUBLICATION BY STAFF

S. No	Staff Name	Month and Year	Name of Journal	All Authors Name, Paper Title, volume, month, year of publication	DOI
1	Dr. D. Elil Raja	April 2024	Advances in Materials Science and Engineering	C. Devanathan, D. Elil Raja, Tushar Sonar, Mikhail Ivanov, "Effect of Friction Coefficient in Friction Stir Welding of B4C Reinforced AA5083 Metal Matrix Composites and Use of Fuzzy Clustering Technique for Weld Strength Prediction", Advances in Materials Science and Engineering, vol. 2024, Article ID 9880686, 13 pages, 2024.	https://doi.org/10.1155/2024/9880686
2		April 2024	Silicon	Velmurugan, G., Chohan, J.S., Velumayil, R. et al. Driving into the Future: Nano Graphene and Silicon Dioxide Enriched Kevlar Composites for Automotive Applications. Silicon (2024).	https://doi.org/10.1007/s12633-024-02977-y



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**MAY
2024**

DEPARTMENT OF MECHANICAL ENGINEERING **BEACON**

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-

ALUMNI MEET

Our Mechanical department alumni Mr. B. Saisaran, an Internal IT officer at JSW cements, conducted an alumni talk on May 8th, 2024, aimed at raising awareness among second-year students about the benefits of joining core companies. The program's title was "Awareness to freshers to join in the core company". While the specific outcomes aren't mentioned, it likely helped students gain valuable insights into the advantages of pursuing careers in core industries.



INSTITUTION'S INNOVATION COUNCIL (IIC)

Our Mechanical Department has conducted an workshop on May 8th, 2024, with the Institution's Innovation Council (IIC) focused on the Business Model Canvas (BMC). This workshop likely equipped students with the framework and tools to design, analyze, and refine business models. By understanding the BMC's components, students can develop strong foundations for future entrepreneurial endeavors or simply gain valuable business acumen.



TECHNOLOGY EXTRAVAGANZA

Our Mechanical department has conducted Summer Internship program as “Technology Extravaganza” for school students from 15th April to 24th May 2024. 120 students from 10 different schools like Bethel matriculation higher secondary school, Zigma Matriculation Higher Secondary School , St.Antony’s Matriculation Higher Secondary School , SJNS Jain Matriculation Higher Secondary School , Zion Sri Sankara Matriculation Higher Secondary School, Velammal Bodhi Campus, St. Peter's matriculation Higher secondary school, Peniel matriculation Higher secondary school Infant Jesus Matriculation School, students were taught in the recent trending topics like Design that defined everything, Machines that transformed the world, Robotics everywhere, Reverberating recent trends, Heart of the automobile. Students who were attended this program has gained many knowledge and praised about the college and its environment.



CONVOCATION

Our College has conducted an 8th Convocation for 2018-2022 batch on 18th May 2024, 116 Graduated from mechanical Department has awarded Degree on that day. Mr.C.Vibin roy has rewarded with Shield for Best outgoing student award his CGPA is 8.7. On the same day Alumni talk was conducted Dr.Elil Raja Hod of Mechanical has addressed with students .



has been
company
ence to

RANK HOLDERS

Our Students have excelled in their academics and have secured 2 University Ranks in the Anna University Examinations.

Nandhini V - 9th Rank- 9.20 CGPA

Anil Thapa - 12th Rank- 9.16 CGPA

The above students is honoured by Shied and Cash Award Rs 15,000



STAFF ACHIVEMENTS

Publications

S. No	Staff Name	Month and Year	Name of Journal	All Authors Name, Paper Title, volume, month, year of publication
1	Dr. D. Elil Raja	May 2024	International Journal on Interactive Design and Manufacturing	Selvan, S.P., Raja, D.E., Muthukumar, V. et al. Optimization of process parameters and predicting surface finish of PLA in additive manufacturing-a neural network approach. <i>Int J Interact Des Manuf</i> (2024).
2	Dr. N. Thangapandian		International Journal of Metalcasting	Rino, J.J., Vivekananda, A.S., Thangapandian, N. et al. Mechanical and Wear Behavior of Al-Si5Cu3/ZrB ₂ In-Situ Reinforced Metal Matrix Composite. <i>Inter Metalcast</i> (2024).

NPTEL

S.NO	FACULTY NAME	TITLE OF THE COURSE	DURATION	STATUS	MARK OBTAINED
1.	Dr.D.Elil Raja	Product Design and Manufacturing	12 Weeks	Completed	Elite+Silver 85
2.	Dr.N.Thangapandian	NBA Accreditation and Teaching Learning in Engineering	12 Weeks	Completed	Elite 63
3.	Mr.T.Prabhuram	Manufacturing Process Technology I & II	12 Weeks	Completed	Elite+Silver 85
4.	Mr.S.Prathapsingh	Product Design and Manufacturing	12 Weeks	Completed	Elite 81

STUDENT ACHIVEMENTS

Placements

Our Student Mr. Venkatesh B got placed in Ashok Leyland as Quality inspector in the Package of 2.0 Lakh per Annum.



NPTEL

NO	STUDENT NAME	TITLE OF THE COURSE	DURATION	MARKS
1.	Keerthan A	Understanding design	4 Weeks	Elite 43
2.	Jonathan A	Introduction to Internet of Things	12 Weeks	Elite 68



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June 2024

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.....**Vision Mission of the**..... **Department**

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- To enrich the knowledge in mechanical engineering through research and innovation.**
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Seminar



DEPARTMENT OF MECHANICAL ENGINEERING
IN ASSOCIATION WITH
The Institution of Engineers (India)
Kanchepuram Local Centre

ORGANIZES A MOTIVATIONAL TALK
**"ENVIRONMENTAL AWARENESS
FOR SUSTAINABLE
DEVELOPMENT"**

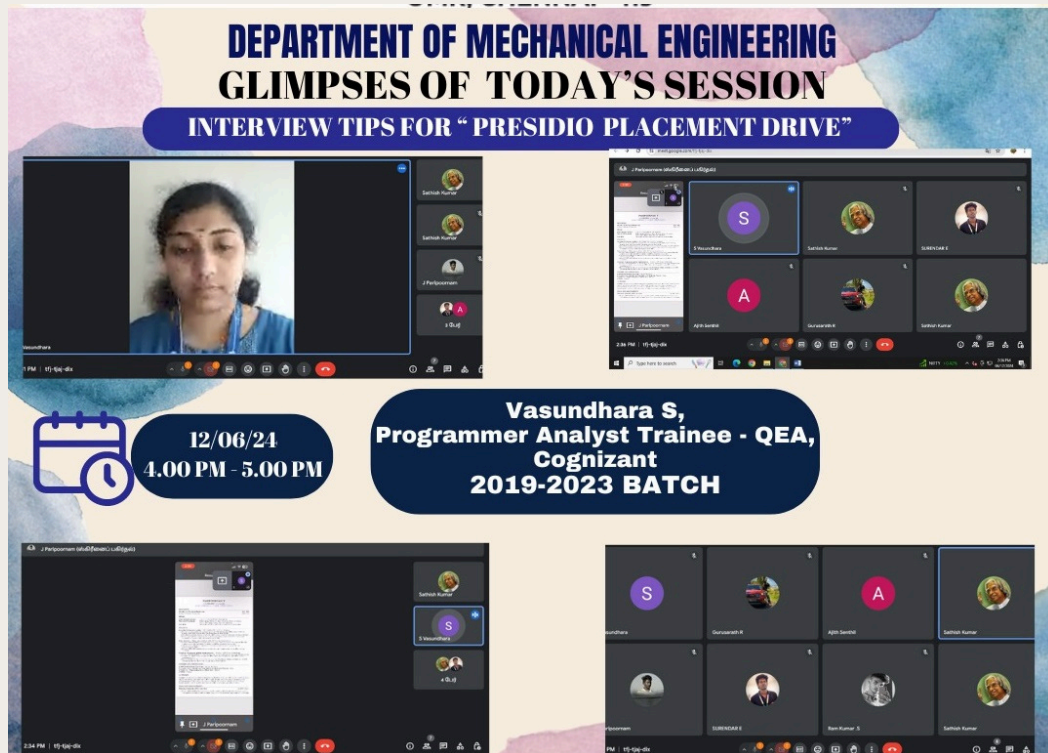
 **05th June 2024**
9.30 am to 11 .00 am


Mr.P.Shabin Raj
Category Analyst
Synergy Marine Group



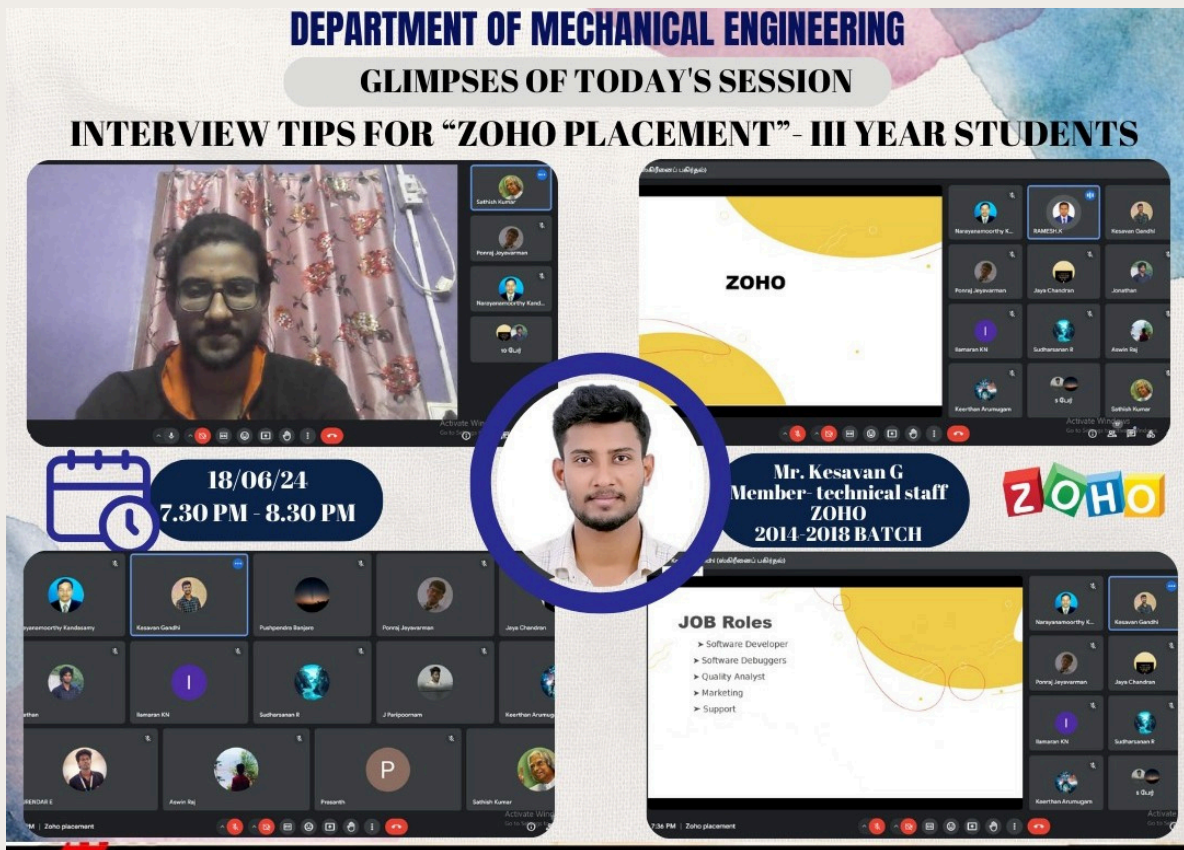
On June 5th, 2024, the Institution of Engineers India (IEI) student chapter of the mechanical department organized an awareness program on "Environmental Sustainability for Development." The program featured Mr. P. Shabin Raj, a Category Analyst with Synergy Marine Group, as the guest speaker. Mr. Raj likely shed light on the crucial connection between environmental protection and sustainable development. This event would have been a valuable opportunity for engineering students to gain insights into how their future careers can contribute to a balanced approach that meets the needs of society without jeopardizing the environment for future generations.

Placement Talk



Mrs. Vasundhara S, a Programmer Analyst Trainee at QEA, Cognizant, conducted a pre-placement motivation and training session for shortlisted Presidio our department students on June 12th, 2024, from 4:00 PM to 5:00 PM. The session aimed to equip students with the necessary skills and knowledge to excel in their upcoming placement interviews.

The program's outcome is not explicitly stated, but it can be assumed that the students gained valuable insights from Vasundhara's experience in the industry. The session likely covered topics such as resume writing, interview skills, and technical knowledge relevant to the mechanical engineering field. By participating in this program, the students would have hopefully increased their confidence and preparedness for their upcoming placements.



This event "Interview tips for Zoho Placement" Conducted by our Department on 18th June 2024 by Mr.G.Kesavan Member technical staff Zoho" is aimed at helping students prepare for the upcoming Zoho recruitment process. Mr. G. Kesavan, a technical staff member at Zoho, will be sharing insights and advice on how to succeed in the interview. The objective is to equip students with the knowledge and strategies needed to impress interviewers and land a job at Zoho. By attending this session, students can expect to gain valuable information about the Zoho interview process, learn about common technical questions asked, and receive tips for effective communication and presentation during the interview. The desired outcome is for students to feel confident and prepared when they interview for a position at Zoho.

Staff Achievements

Publications

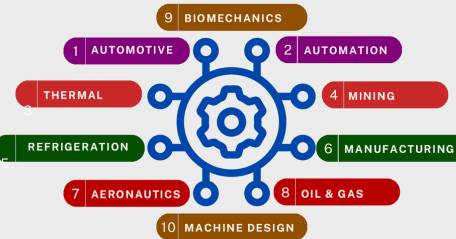
Prathap Singh, S., Ananthapadmanaban, D., Venkateshwaran, N. et al. Effect of Ageing Temperature on the Hardness, Microstructural and Dry Sliding Wear Performance of the Functionally Graded A356 Alloy. Inter Metalcast (2024).

FDP Attended

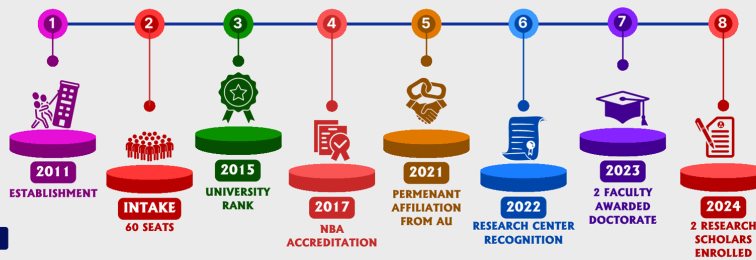
Dr.D.Arthur Jebastine Sunderraj, Mr.S.Prathapsingh, Mr.K.N.Narayanamoorthy, Mr.S.A.Muhammed Abrrar has attended a six days faculty development program on “Recent advances in sustainable materials and Developments in 3D Printing Technologies” Conducted by Rajalakshmi Engineering College, Chennai from 20 May-26th May,2024

DEPARTMENT OF MECHANICAL ENGINEERING

MULTIVERSE OF MECHANICAL



GENESIS OF THE DEPARTMENT



FACULTY STRENGTH

TOTAL NUMBER OF FACULTY 17
06 NUMBER OF DOCTORATES
NO OF FACULTY DOING PhD 11
07 YRS MINIMUM EXP OF FACULTY
FACULTY WITH GUIDESHIP 03

DEPARTMENT SPECIFIC INDUSTRY VISITS

SREE BALAJI CASTING PVT LTD
CASTING DOMIAN
GUMMIDIPOONDI

CUMI MURUGAPPA LTD
GRINDING TOOLS DOMIAN
MARAIMALAINAGAR

ASHOK LEYLAND
AUTOMOBILE DOMIAN
HOSUR

TVS MOTOR COMPANY
AUTOMOBILE DOMIAN
HOSUR

NORTH CHENNAI THERMAL POWER PLANT
POWER PLANT DOMIAN
ENORE

ELITE ALUMNI



HIGHER STUDIES



ESTEEMED RECRUITERS



Pay Package ranges from 3.5 lakhs to 15 lakhs

PROFESSIONAL BODIES



MOU



MoUs with CADD India, Shri SAI NDT, Goodwin Motors, CADD Centre & CADDAM Technologies has played a key role in technological upgradation, innovation and a sense of competitiveness amongst our students.

LABS THAT SHAPES AN ENGINEER



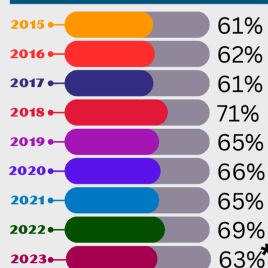
VALUE ADDING COURSES FOR STUDENTS



PATENT, PUBLICATION, FUNDED PROJECTS

CONFERENCES BY FACULTY & STUDENTS	JOURNALS BY FACULTY & STUDENTS	PATENT	CONSULTANCY	FUNDED PROJECTS
625	554	60	30	20 LAKHS

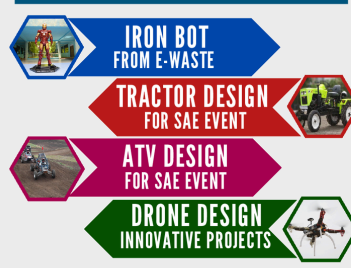
PLACEMENTS RECORD



ALUMNI INTERACTIONS & CONTRIBUTIONS



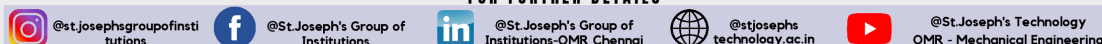
MANAGEMENT FUNDED PROJECTS



BEST PRACTICES OF DEPARTMENT

- PLACEMENT TRAINING FROM 1st SEMESTER ONWARDS
- ENHANCED LEARNING THROUGH PEP, HOPE & SEERA
- DEPARTMENT SPECIFIC INDUSTRY VISITS SKILL DEVELOPING WORKSHOPS
- INDUSTRIAL INTERNSHIPS VALUE ADDING COURSES
- TECHNICAL EVENTS, GUEST LECTURES INTERACTIVE TEACHING LEARNING METHOD
- STUDENT WORKSHOPS INNOVENTION CELL FOR INNOVATIVE IDEAS
- IDEA LAB TO LEARN NEW TECHNOLOGIES LASER CUTTING, 3-D PRINTING

FOR FURTHER DETAILS



St. Joseph's College of Engineering
YOU CHOOSE, WE DO IT
St. Joseph's Institute of Technology

The Choice of Disciplined Toppers