



St. JOSEPH'S COLLEGE OF ENGINEERING

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(AN AUTONOMOUS INSTITUTION)

OMR, CHENNAI - 119



DEPARTMENT OF MECHANICAL ENGINEERING



NEWSLETTER

JUNE 2024



St. JOSEPH'S
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OMR, CHENNAI - 119



The Choice of
Disciplined Toppers



St. JOSEPH'S COLLEGE OF ENGINEERING

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OMR, CHENNAI - 119



VISION

To become a world class Educational center of the Nation for Engineering, Technology, Computer Applications and Management with moral and professional standards to serve the community at large.

MISSION

To achieve academic excellence in Engineering, Technology, Computer Application and Management Education.

To inculcate high moral and professional standards among our students.

To develop the overall personality of our students.

To promote Industry Institute Interaction through more number of collaborative programs with Industries, Research and Development centers.

To venture for sustained placement for our students through campus interviews.





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DEPARTMENT OF MECHANICAL ENGINEERING

VISION

To become a center of excellence in Mechanical Engineering, producing competent engineers, who are innovative, entrepreneurial and skilled to meet the global challenges.

MISSION

Excellence: To offer state-of-art education in Mechanical Engineering, by providing opportunity to students to enhance their knowledge base and develop core specific skills.

Research: Build a research capability that is recognized nationally and internationally as a leading source of technological innovation and explore core research.

Professional Integrity: To create opportunities and train students to build leadership qualities blended with entrepreneurial mindset and lead an ethical and environmentally responsible career.

PROGRAMME EDUCATIONAL OBJECTIVES

Engineering graduates will be able to:

PEO1: Profession - Practice manufacturing engineering in a broad range of industries both core engineering and non-engineering fields such as medicine, space, law or business.

PEO2: Continuing Education - Pursue advanced education, research and development, and other creative and innovative efforts in science, engineering, and technology, as well as other professional careers.

PEO3: Technophile - Conduct them in a responsible, professional, and ethical manner and attain professional maturity with deep understanding of the impact of the technological solutions in a societal and global context and a need for sustainable development.

PEO4: Service - Participate as leaders in their fields of expertise and in activities that support service and economic development nationally and throughout the world.

PROGRAMME OUTCOMES

Engineering graduates will be able to:

Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences. **Design/development of solutions:** Design solution for complex engineering problems and design systems components or process that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.



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Conduct investigations of complex problems: Use research- based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environmental and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-Long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAMME SPECIFIC OUTCOMES

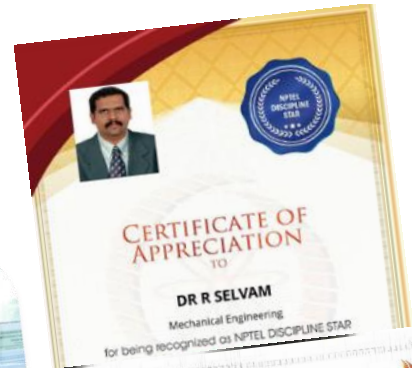
PSO 1: The students graduating in Manufacturing Engineering will have profound foundation in mathematical, scientific and engineering domains necessary to achieve professional and productive excellence in technical and non-technical problem solving and analyzing engineering problems.

PSO 2: The students graduating in Manufacturing Engineering will have the ability to synthesize the engineering data and apply scientific principles for applications involving manufacturing engineering using high end CAD/CAM/CAE computational packages such as CATIA, ANSYS and MATLAB.

PSO 3: The students graduating in Manufacturing Engineering will have the ability to pursue advanced careers and discharge his/her duties entrusted with high degree of commitment to address professional and ethical responsibilities, including a respect for diversity and provide cost effective engineering solutions.

EVENTS & ACHIEVEMENTS

JUNE 2024



CONTENTS

- Alumni Talk
- Industry Interaction
- Student Chapter Activities
- Students' Achievements
- Students' Activities
- Faculty's' Achievements




ALUMNI TALK

Mr. D. Hariharan, a distinguished alumnus from the batch of 2015-19 and currently employed at **Zoho Corporation**, gave an alumni talk on **“An Overview of Zoho Interviews”** for our department IV year students on 15th June, 2024.


ALUMNI TALKS

This event served as a Placement Preparatory Guidance Program for final-year students, aiming to equip them with essential skills and knowledge for upcoming placement opportunities. He shared insights into his career journey, the company culture, and detailed explanations of his roles and responsibilities. He provided valuable tips on the interview process, emphasizing thorough company research, practicing common interview questions, and preparing a strong resume. The session also included a Q&A segment, allowing students to seek advice on technical and soft skills necessary for success at Zoho Corporation. Overall, this event not only enhanced students' interview readiness but also provided a valuable networking opportunity with alumni.

DEPARTMENT OF MECHANICAL ENGINEERING
AN OVERVIEW ON ZHO INTERVIEW
ALUMNI TALK FOR
(BATCH 2021-25)

HARIHARAN D
BATCH 2015-19
SOFTWARE DEVELOPER
ZHO

SCAN ME 

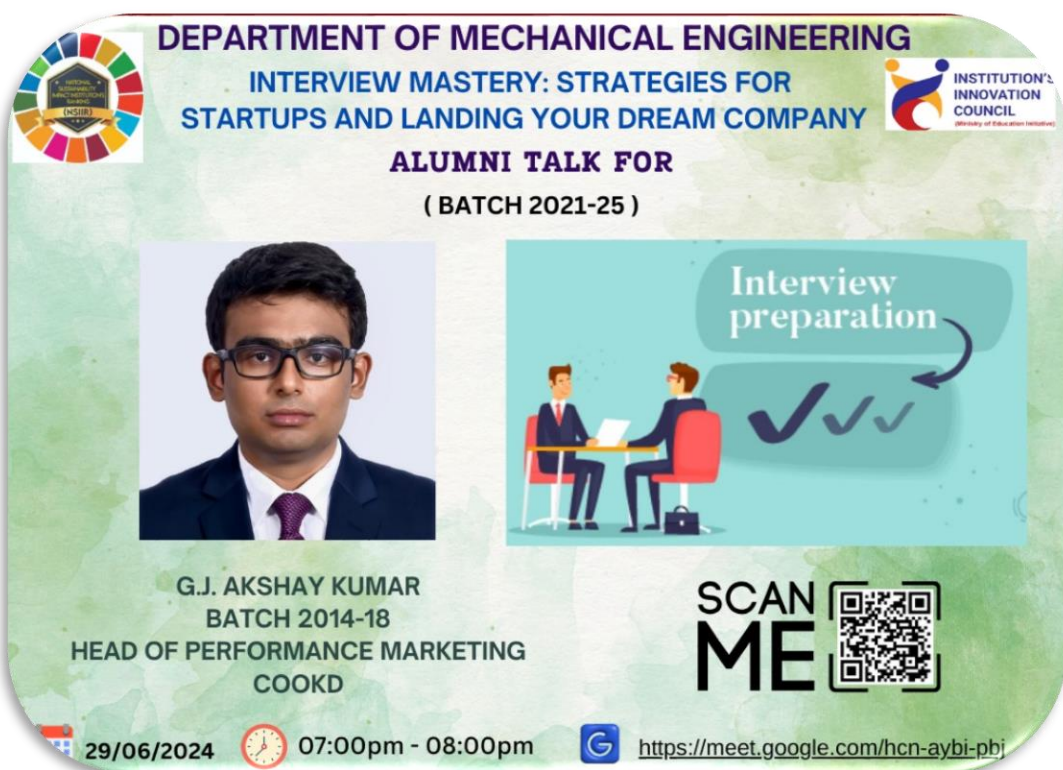
15/06/2024 08:00pm - 09:00pm <https://meet.google.com/dpz-fvpm-qrh>

ALUMNI TALK

Mr. G. J. Akshay Kumar, Head of Performance Marketing at COOKD a distinguished alumnus from the batch of 2014-18 who gave an alumni talk on **“Interview Mastery, Strategies for Startups and landing dream companies”** for our department IV year students on 29th June, 2024 .

ALUMNI TALKS

Approximately 60 students participated in the event and gaining clarity on choosing the right startup and preparing for interviews in both startup and core companies.



DEPARTMENT OF MECHANICAL ENGINEERING
 INTERVIEW MASTERY: STRATEGIES FOR
 STARTUPS AND LANDING YOUR DREAM COMPANY
 ALUMNI TALK FOR
 (BATCH 2021-25)

G.J. AKSHAY KUMAR
 BATCH 2014-18
 HEAD OF PERFORMANCE MARKETING
 COOKD

Interview preparation

SCAN ME

29/06/2024 07:00pm - 08:00pm <https://meet.google.com/hcn-aybi-phj>

INDUSTRY INTERACTION

On *29th June, 2024* the Department of Mechanical Engineering invited **Mr. Arun Nehru Subramani**, to our campus for an interaction. He is an Aerospace Critical Process Auditor in “*NADCAP*” (National Aerospace and Defense Contractors Accreditation Program) administered by PRI (Performance Review Institute), USA constituted by Aerospace OEMs. He is the only auditor in India, one among the two auditors in Asia and one among the 20 auditors across the Globe in his specialization.



INDUSTRY
INTERACTION

The fruitful outcome of the meeting is as follows,

- ❖ Planned to *sign an MOU*
- ❖ Provide technical *support for framing industry oriented curriculum and syllabus*,
- ❖ Give *career guidance*, Deliver *guest lecture*,
- ❖ Conduct *workshops and trainings*,
- ❖ Get *internships and projects* for students in aerospace and other industries,
- ❖ Help in *placement* for the students.

He has also agreed to refer industries for *setting up industry sponsored centre of excellence* in our college through his contacts.

STUDENT CHAPTER ACTIVITIES

Indian Institute of Welding (IIW) student chapter of Department of Mechanical Engineering Conducted a **Online Welding Quiz** "*Knowledge Knockout*" on **29th June, 2024**, for our mechanical IIW student members as a monthly event. 30 students participated in the quiz program and the answers were circulated to the participated students with necessary explanation.

IIW -
INDIA

St.JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING



THE INDIAN INSTITUTE OF WELDING
(A Member Society of the International Institute of Welding)



on



QUIZZ

for IIW Chapter Members

"KNOWLEDGE KNOCKOUT"
An Online Quiz Competition

DATE: 29.06.2024

TIME: 7.00 P.M - 8.00 P.M

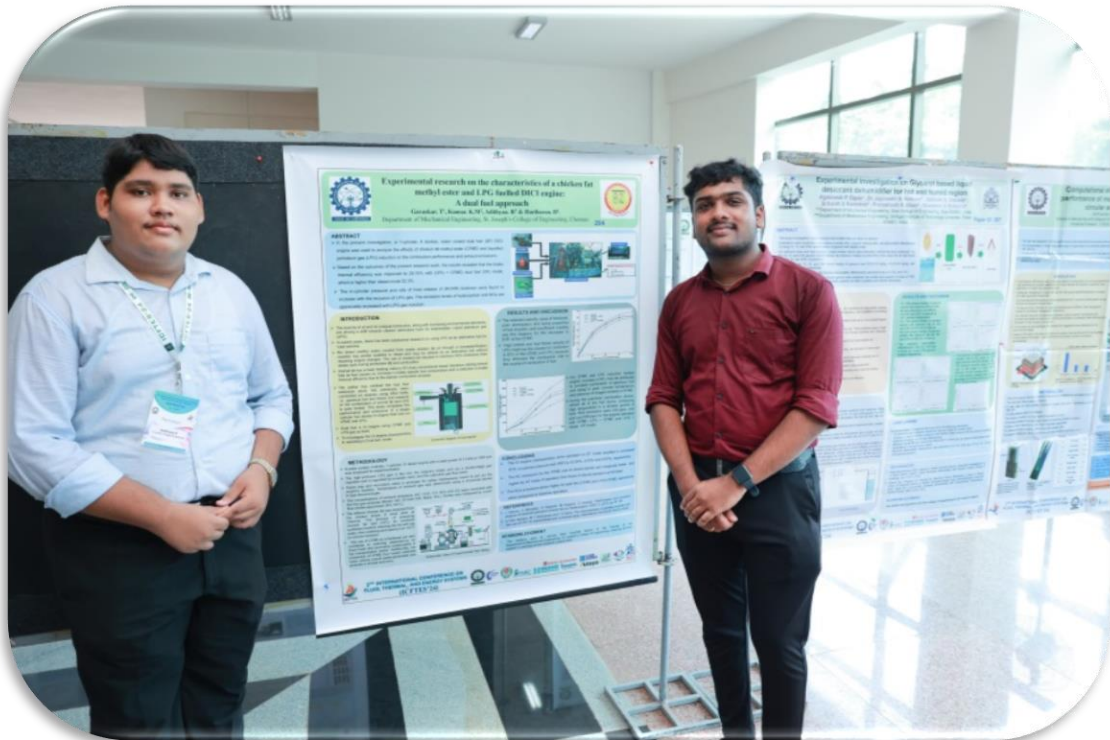


STUDENTS' ACHIEVEMENTS

Mr. R. Adithyaa and **Mr. B. Hariharan** of final year 'A' Section presented a paper titled *“Experimental research on the characteristics of a chicken fat methyl ester and LPG fueled Direct injection compression ignition(DICI) Engine: A Dual Fuel Approach”* in **NIT CALICUT** on 6th June, 2024 .



International Conference



STUDENTS' INTERNSHIP

S.No	Register.No	Name	Company
1	312321114001	Aarsath Crisple B	NLC INDIA LIMITEDIL, Neyveli
2	312321114002	Abdul Rahman	Neyveli Lignite Corporation India Limited, Neyveli
3	312321114003	Abishek K	Axles India Ltd, Sriperumbudur
4	312321114004	Abishek N	TVS Motor Company, Hosur 635109
5	312321114005	Abishek R B	Lenovo Pvt. Ltd, Puducherry
6	312321114006	Abiuth Xavier F	Hyundai Motors India Limited
7	312321114007	R Adithyaa	IGCAR, Kalpakkam-603102
8	312321114008	M.Agasthiya Praveen	Danieli India Pvt. Limited, Sri City, Tada
9	312321114010	Akash E	NLC INDIA LIMITED India Limited
10	312321114011	Akash Kumar G	Lenovo (India) Private Limited
11	312321114012	Akilan R	NLC INDIA LIMITED
12	312321114013	Akshay VR	RYAN ENGINEERING
13	312321114014	Amirdhavarshini U	Hyundai Motor Private Limited
14	312321114015	Anbarasan M	TVS Hosur
15	312321114017	Aravinth CI	Cooper Elevators Ind Pvt. Ltd, Chennai.
16	312321114018	Arivarasu M	Indian Oil Petronas Pvt. Chennai, 600102
17	312321114019	Aswanth Singh R	NLC INDIA LIMITED Tamilnadu Power Limited, Thoothukudi, 628004
18	312321114023	Balaji S	RYAN ENGINEERING, Tirunelveli - 627006
19	312321114023	Balaji S	India Cements, Chennai - 600028
20	312321114024	Balaji Siva R.S	RYAN ENGINEERING, Tirunelveli - 627006
21	312321114025	Baluchander P	Cooper Elevators Ind Pvt. Ltd, Chennai, 600122
22	312321114026	Barani Kumar R	Rane Brake Lining Limited, Sethurapatti Village, Trichy
23	312321114030	P Bivin Prabhu	RYAN ENGINEERING, Tirunelveli - 627006
24	312321114031	Boopathiraja K B	IM Gears Private Limited, Chennai, Tamil Nadu 600073
25	312321114032	Chinta Vasu	Lenovo India Private Limited, Puducherry 605007
26	312321114033	Deepak K	Inox Air Products Ltd
27	312321114034	Dhaneshwaran V	Wheels India, Krishna Nagar, Sriperumbudur, Tamil Nadu 602105
28	312321114035	Dhanush J.	Cooper Elevators India Private Limited, Chennai - 600122
29	312321114036	Dhanush Kumar S B	RAAVANGUARD Private Limited, Ducktail
30	312321114037	S.Dhanushik	TVS, Hosur
31	312321114039	Dinesh J T	Wheels India Limited, Sriperumbudur, Chennai
32	312321114041	Gokul R	Salem Steel Plant, Salem-30
33	312321114042	Gokul Saravana Prabhu	Wheels India Limited, Sriperumbudur, Chennai

STUDENTS' INTERNSHIP

S.No	Register.No	Name	Company
34	312321114043	Gurumoorthi M S	Wheels India Limited, Sriperumbudur, Chennai
35	312321114044	Hariharan B	Lenovo India Pvt. Ltd, Puducherry 605007
36	312321114045	Hariharan B	IGCAR, Chengalpattu, 603102
37	312321114046	Harini Jv	Hyundai, Kanchipuram District.
38	312321114047	Harlan Rhodicson G	RYAN ENGINEERING, Tirunelveli - 627006
39	312321114050	Imayavaramban A	Hyundai, Kanchipuram
40	312321114051	Jazin Jeba G	CVRDE, Avadi.
41	312321114052	Jeffrey Nelson S	Scientific Impulse
42	312321114053	Jerome M V	Chennai Petroleum Corporation Ltd, Manali Refinery, Chennai 600068
43	312321114054	Jesu Antony Austeen R	Wheels India Limited, Sriperumbudur, Chennai
44	312321114055	Jesu Nicholas Filbert	RIBO Industries Private Limited, Mandaiyur, Trichy, Tamil Nadu 622515
45	312321114056	Jeyasuriya J	Brakes India Private Limited
46	312321114057	Jones Rojar Pc	Lenovo India Private Limited, Pondy
47	312321114058	Joshua C	Hyundai
48	312321114060	Kailash Kumar G	Srimathi Machine Works, Manikkampalayam,
49	312321114061	Kaniamudhan S	Knitwell Needles
50	312321114062	Karthi R	NLC INDIA LIMITED India Ltd
51	312321114063	Karthik Kumar S	Hyundai Motor India
52	312321114067	Kavikumar K	NLC INDIA LIMITED India Ltd
53	312321114067	Kavikumar K	NLC INDIA LIMITED India Limited, Neyveli
54	312321114071	Krishna Kumar V N	NLC INDIA LIMITED India Ltd
55	312321114073	Logesh S	Sakthi Auto Component Limited Factory, Tirupur District, 638056
56	312321114080	Mohammed Akram K	Same Deutz-Fahr, SIPCOT Phase II Industrial Complex, Ranipet
57	312321114081	Mukesh M	BHEL
58	312321114083	Muthu Kumar	Siemens Centre of Excellence, MIT Campus, Anna University, 600044
59	312321114083	Muthu Kumar S	National Small Industries Corporation, Chennai, Tamil Nadu 600032
60	312321114082	Muthu Selvan M	RYAN ENGINEERING, Tirunelveli.
61	312321114084	Nandhakumar S	Super Auto Forge, Chennai-600048
62	312321114086	Naveen K	Chennai Port Trust, Chennai - 600001
63	312321114086	Naveen K	BHEL, Trichy
64	312321114089	Naveen Krishna	Chennai Airport
65	312321114090	Nelson K	Bright Metal Finishers, Sriperumbudur.
66	312321114091	Nirmal Kumar	Airport
67	312321114091	Nirmal Kumar	BHEL, Trichy

STUDENTS' INTERNSHIP

S.No	Register.No	Name	Company
68	312321114092	Nithinraj N S	Neyveli Lignite Corporation India Limited
69	312321114094	Nitinshiva S	Chennai Petroleum Corporation Ltd, Manali Refinery, Chennai - 600068
70	312321114095	Nivedha S	Rane (Madras) Limited, Varanavasi, Kanchipuram 631604
71	312321114096	Noorulthameem	Concur Web
72	312321114097	Parasuram S	CRP India Pvt. Ltd, Mudichur
73	312321114098	Peter Allan Robustian	KL Hi-Tech, IDA Bollaram, Hyderabad, Telangana - 502328
74	312321114099	Pragadeesh.D	Bright Metal Finishers
75	312321114100	Prakriti Harith	Kaashiv Infotech
76	312321114102	S Praveenkumar	Bright Metal Finishers, Sriperumbudur,
77	312321114103	Praveenkumar S	YSI Automobile
78	312321114105	Rahul Senthil Kumar	Lenovo India Private Limited
79	312321114106	Rahul K	Steel Plant, Salem
80	312321114107	Rahul R	Koodankulam Nuclear Power Project
81	312321114108	Rajendhira Prasath S	Tidel Park
82	312321114109	Rakesh.R	Salem Steel Plant
83	312321114110	Raphael Joshua A	Salem Steel Plant
84	312321114111	Reniban R	TNSTC Bus Depot
85	312321114112	Rishwin A	Mahindra Research Valley (MRV)
86	312321114114	Ram Alagappan S	Ultravelox, Thirumudivakkam
87	312321114115	Saishankar A R	Wheels India, Sriperumbudur
88	312321114116	Sanjai Sriram K	Axis Global Automation, Guindy, Chennai.
89	312321114118	Sanjay	Steel Authority of India Limited, Salem - 636013
90	312321114119	Santhosh Kumar C	Lenovo India Private Limited
91	312321114121	Sarathi R	IGP
92	312321114123	Senkavi	Neyveli Lignite Corporation India Limited
93	312321114124	Sharan Shibi S	Neyveli Lignite Corporation India Ltd
94	312321114126	Sivapathi M	Lenovo India Private Limited, Pondicherry
95	312321114127	Sivasubramanian A	Schwing Stetter, Sriperumbudur,
96	312321114128	Sowmiya	Neyveli Lignite Corporation Limited
97	312321114129	Sree Harish M V	NLC INDIA LIMITED India Limited
98	312321114130	Sriram Karthick	Lenovo India Private Limited
99	312321114131	Subramanian V	NLC INDIA LIMITED India Limited
100	312321114132	Sudharsan S	Salem Steel Plant, Salem, 636013
101	312321114133	Sujith Kumar Ds	SIPCOT Industrial Estate, Irungattukottai, Sriperumbudur
102	312321114134	Sujithkumar S	Bridge Green Upcycle
103	312321114135	Suman S	L&T, Hebbal, Bengaluru
104	312321114136	Sundar P	Thoothukudi Thermal Power Plant (TTPS)
105	312321114137	Suresh.G	Lenovo India Private Limited
106	312321114140	Syed Seeni Mohamed S	Kudankulam Nuclear Power Station
107	312321114141	Tarun Prasad R	Koodankulam Nuclear Power Project
108	312321114142	Tejaswin S	Hyundai Motors India Limited, Sriperumbudur

STUDENTS' INTERNSHIP

S.No	Register.No	Name	Company
109	312321114143	Thamizhselvan S	Lenovo, Puducherry-7
110	312321114145	Thejeshwaran S	NLC INDIA LIMITED
111	312321114146	Thirumalai Kumaran S	Lenovo, Puducherry - 605007
112	312321114147	Tusshar S	Neyveli Lignite Corporation India Limited
113	312321114148	Udhayan Jacob S	NLC INDIA LIMITEDIC, Neyveli, Tamil Nadu
114	312321114149	Vikash K	Cooper Elevators Private Limited, Chennai
115	312321114150	Waseem Ali R.M.	Suhail Industrial Holding Group, Doha, Qatar
116	312321114151	Winnarasan W	Atomic Power Station, Kudankulam 627106
117	312321114152	Yuvapraveen S	Astro Zen Technologies Pvt. Limited, Karapakkam, Chennai, 600100
118	312321114153	Yuvaraj M	L&T, Hebbal, Bengaluru
119	312321114302	Bollapragada Ram Sai Manas	Lenovo India Private Limited, Pondicherry
120	312321114303	Dhanushkumar T	Whirlpool of India Private Limited, Thirubuvanai, Pondicherry, 605107
121	312321114304	Elumalai S	FRFCF-Fast Reactor Fuel Cycle Facility, Kalpakkam, Chengalpattu-603102
122	312321114306	S Iruthaya Agastin	Kudankulam Nuclear Power
123	312321114307	Jeevanesan D	NLC INDIA LIMITED India Limited
124	312321114310	Mathan Kumar M	SEPC Power Plant
125	312321114311	Matthew Philips.S	Faurecia Automotive Seating India Pvt. Ltd
126	312321114312	Naveen J	IL&FS Power Station, Perangipettai, Cuddalore
127	312321114315	R.Shanmugaarivan	L&T. Hebbal. Bangalore





FACULTIES' ACHIEVEMENTS

Publication / Conference

- **Mr. M. Ganesh**, Assistant Professor & **Dr. N. Arunkumar**, Professor, Mechanical Department, published a paper titled, “*A sustainable approach in deep hole drilling of Ti6Al4V: Effect of cryogenic cooling on hole parameters and its evaluation*” in **Journal of Manufacturing Processes**, Volume 121 , 2024 , Pages 343 – 360 , ISSN 1526 6125 with **impact factor of 6.3**.
- **Mr. G. Kasirajan**, Assistant Professor, Mechanical Department published a paper titled “*Evaluation of the mechanical performance and durability of concrete using reinforced cement concrete in the partial replacement of coarse and fine aggregates*” in **Materials Today Proceeding**.
- **Dr. R. Sathish**, Professor, Mechanical Department published a paper titled “*The influence of tool shoulder size and plate position on the characteristics of friction stir welded different aluminum alloys*” in **The Chinese Institute of Engineers**, volume47, issue5, page 589- 595.
- **Dr. M. Arun**, Associate Professor, Mechanical Department published a paper titled “*Development of Biocomposite Food Packaging Coating Material with Silane-treated Nanosilica and Grape Seed Oil Blended Vinyl Ester*” in **Silicon Journal Springer** edition.



FACULTIES' ACHIEVEMENTS

Patent

- **Dr. G.M. Lionous Leo**, Associate Professor & **Mr. G. Ashwin Prabhu**, Assistant Professor, Mechanical Department Published a patent Titled “*Development of Low cost Parallel and counter Flow heat Exchanger*” Application no: 202441044179.
- **Mr. G. Ashwin Prabhu**, Assistant Professor, Mechanical Department Published a patent Titled “*Development of Low Cost Solar Fertilizer Sprayer*”, Application no: 202441040919.
- **Mr. G. Ashwin Prabhu**, Assistant Professor, Mechanical Department Published a patent Titled “*Development of Low Cost Floor Cleaner Machine*”, Application no: 202441041557.




FACULTIES' ACHIEVEMENTS

Mr. M. Siva and Mr. N. SathishKumar, Assistant Professor, Mechanical Department has been shortlisted for the *AICTE - QIP PG Certification program* from July 2024 to December 2024 on “3D Printing” in IIT Palakkad.




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DEPARTMENT OF MECHANICAL ENGINEERING




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(Ministry of HRD Initiative)

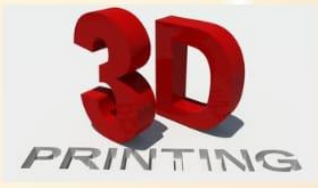




Congratulations

Faculty Selected for AICTE Sponsored QIP PG Certification Program




Mr. N. SATHISHKUMAR
Assistant Professor



Indian Institute of Technology Palakkad
भारतीय प्रौद्योगिकी संस्थान पालक्काड
Nurturing Minds For a Better World

IIT PALAKKAD



MR. M. SIVA
Assistant Professor

DURATION- July'24 to December'24



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The Choice of Disciplined Toppers



FACULTIES' ACHIEVEMENTS

Mr. D. Sakthivel, Assistant Professor, Mechanical Department attended a Two weeks training program on "*Drone Aerodynamics, Assembly and Testing of Drones*" organized by **National skill Training Institute (NSTI)**, Guindy from 18.06.2024 to 28.06.2024.



Training program covers many aspects like introduction about drones, *Digital sky platform*, *Components of drone*, *sensors* during the training period. Exposure given regarding rules and regulations to fly in a particular region. The special feature of this program is, more importance given to hands on sessions rather than theory sessions. Each trainee has to assemble, calibrate and operate one Quadcopter drone in open field at the end of training period. Vast opportunities are there in drone technology domain. With the knowledge acquired during this period will be useful to train our students who are all having interest in drone technology.





FACULTIES' ACHIEVEMENTS

Notable Awards



- **Dr. R. Selvam**, Associate Professor of Mechanical Department has been provided with **Certificate of Appreciation** for being Recognized as **NPTEL Disciple Star Jan -Apr 2024**.



- **Mr. N. Sathishkumar**, Assistant Professor Mechanical Department, has been honored with the prestigious **IOP (Institute of Physics) Trusted Reviewer** status, recognizing his exceptionally high level of peer review competency.



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Mr. Pravinkumar kamatchi M.E. , (Ph.D) , Assistant professor

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Mr. Adithyaa R MECH III- A