

# THE PINNACLE

OFFICIAL NEWS LETTER OF DEPARTMENT OF MECHANICAL ENGINEERING  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY  
YEAR 2023, JULY - DECEMBER



## ABOUT us

The evergreen and ever growing mechanical industry witnesses an ongoing enormous development in its technology and application methodologies. It has proved its stability even during the economic recession and has also captured the attention of the whole world with some innovative products. The Department offers a full-time undergraduate course in the Mechanical Engineering, Automobile Engineering & Full-time Post Graduate Course in Manufacturing Engineering. The department also offers a part-time under graduate course in Mechanical Engineering, part-time post graduate course in Manufacturing Engineering and B.voc course in automotive manufacturing technology. Also the Department offers full-time undergraduate course in the Mechanical Engineering with below specialisation ,Automotive Engineering,Energy Engineering, Product Life Cycle, Manufacturing Engineering,Thermal Engineering, Materials Engineering, Industrial Engineering, 3D Printing & Design, Automated Design and Manufacturing Engineering.

The Department has well-equipped laboratories with state of the art facilities. The department has been organizing a cascade of seminars, guest lectures, workshops, Faculty Development Programs, symposia, conferences, industrial visits, in-plant training and inter collegiate programmes from time to time for the benefit of the faculty members and students through its Technical Association – "Association of Mechanical Engineers of AVIT", Engineering Design Collegiate Club (EDCC) and professional bodies like Indian Institute of Metals (IIM), ENFUSE, SAE Collegiate club, NIQR and IIPrE.

The department is entrusted with research Centres in Alternative Fuels testing and Bosch Automotive Research. The department has established TARG-Thrust Area Research Group in three major fields of Mechanical Engineering, viz. Materials and Manufacturing Technologies, CAD/CAM, Automotive Research. The Faculty members and students being members of these groups continuously engaged in the research of the recent developments in Mechanical Engineering domain.

## VISION & MISSION

### VISION:

The Department of Mechanical Engineering endeavours to be the globally recognized knowledge epicentre in education, to create the well qualified Society responsible engineers, entrepreneurs and to innovate successful advancements in the research.

### MISSION:

To provide quality and systemized education to enhance and enrich the skills of the mechanical engineers through the research facilities and learner friendly environment to disseminate the knowledge.

### QUALITY POLICY:

The department of mechanical engineering is committed to provide organizational support to achieve the quality in all the aspects of pedagogy.

The department is also committed to empower all the process of continual improvement and to motivate the young minds to perform in the best way as well to cater the needs of self, society, nation and the world of the recent developments in mechanical engineering domain.

**PRINCIPAL DESK**  
**Dr.G.SELVAKUMAR**

It is with great pleasure and gratitude that I announce the release of "THE PINNACLE," the newsletter of the Department of Mechanical Engineering. At AVIT, each department organizes numerous programs for the benefit of both students and faculty. This newsletter serves as a unified platform to celebrate these efforts, understand their significance, and analyze them for future growth. I am confident that the outcomes of these activities have greatly benefited every participant, bringing honor to both the institution and the department.

The Department of Mechanical Engineering is one of the most esteemed branches of engineering, known for its innovative advancements and continual rejuvenation. It is heartening to see that the Department of Mechanical Engineering at AVIT remains focused on its objectives and is steadily progressing towards the pinnacle of success.

I extend my best wishes to the students, faculty members, editorial team, and the Head of the Department of Mechanical Engineering for the successful release of this newsletter. With my best wishes to all concerned.



**HOD DESK**  
**Dr.M.PRABHAKAR B.E., M.E.,MBA.,PhD**

I am excited to welcome you to the latest edition of our departmental newsletter, spanning from January 2024 to June 2024. As the Head of the Department of Mechanical Engineering, it is my privilege to celebrate the outstanding accomplishments and notable contributions of our dedicated faculty and talented students. Our department remains committed to excelling in education, research, and innovation, and this newsletter is a true reflection of our shared dedication and hard work.

Within these pages, you will discover a wealth of insightful articles, research breakthroughs, and exciting advancements in the field of mechanical engineering. I invite you to delve into the diverse array of topics, which highlight the intellectual strength and creativity of our esteemed department members.

I would like to express my deepest gratitude to the editorial team and all contributors for their unwavering dedication in producing this informative and engaging publication. May this newsletter inspire and enlighten all who are passionate about the dynamic world of mechanical engineering.



**EVENTS ORGANIZED BY THE DEPARTMENT**



DEPARTMENT OF MECHANICAL ENGINEERING  
 in association with  
**NATIONAL INSTITUTION FOR QUALITY AND RELIABILITY (NIQR) – STUDENT CHAPTER**

**ONE DAY SEMINAR ON POKA YOKE**

**DATE : 24.08.2023**

**Resource Person**  
**Mr.C.V.GOWRI SANKAR**  
 National Secretary, NIQR



DEPARTMENT OF MECHANICAL ENGINEERING  
 INSTITUTIONAL SOCIAL RESPONSIBILITY CELL

**WORKSHOP ON LATEST TROUBLESHOOTING TECHNOLOGIES USING BOSCH STATE OF THE ART EQUIPMENTS**

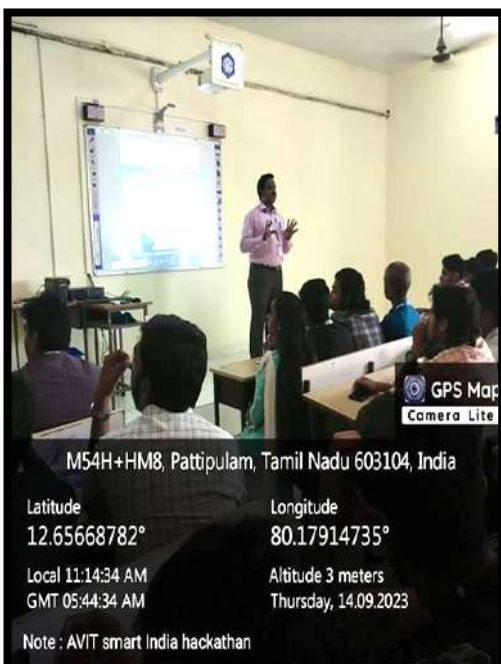
**DATE : 11.09.2023**

**Activity Carried Out By:**  
**Dr M PRABHAKAR, HOD/MECH**  
**Dr S SANGEETHA, Professor,**  
**Dr M SARAVANAKUMAR & Mr A IMTHIYAS,**





DEPARTMENT OF MECHANICAL ENGINEERING  
 ENGINEERING DESIGN COLLEGIATE CLUB (EDCC)  
 association with  
 KRIATEC SERVICES PRIVATE LTD (MOU PARTNER)  
 ORGANIZES  
**ONE DAY SEMINAR ON FUTURE-PROOFING YOUR CAREER: SHARPENING YOUR  
 EMPLOYABILITY SKILLSETS FOR SUCCESS IN CORE INDUSTRIES**  
  
 DATE : 12.09.2023  
Resource Person  
**Mr.G. AJITHA PRABU**  
 Director, Kriatec Services Pvt. Ltd, Chennai



DEPARTMENT OF MECHANICAL ENGINEERING  
 in association with  
 ASSOCIATION OF MECHANICAL ENGINEERS OF AVIT(AMEA)  
 ORGANIZED ONE DAY KNOWLEDGE SESSION ON SMART INDIA HACKATHON  
 2023  
  
 DATE : 14.09.2023  
Resource Person  
**Mr.LAKSHMINARAYANAN**  
 Associate Professor,MECH, AVIT



**DEPARTMENT OF MECHANICAL ENGINEERING  
 IN ASSOCIATION WITH  
 ASSOCIATION OF MECHANICAL ENGINEERS OF AVIT (AMEA)  
 ORGANIZED SKILL DEVELOPMENT PROGRAM ON**

**“ENGINEER TO ENTREPRENEUR”**

**DATE -22.09.2023**

**Resource Person**  
**A.SANTHOSH, M.MANIKANDAN, P.GOVARTHAN,**  
**IV YEAR MECHANICAL ENGINEERING.AVIT**



**DEPARTMENT OF MECHANICAL ENGINEERING & AVIT ALUMNI ASSOCIATION  
 ALUMNI LECTURE SERIES ON "HIGHER STUDIES OPPORTUNITIES IN ABROAD"**

**DATE-02.11.2023**

**Resource Person**  
**Mr. AKSHIT NR**  
**Batch: 2018-2022 (MECH)**  
**Maters in Business Analytics Northumbria university Newcastle, England.**



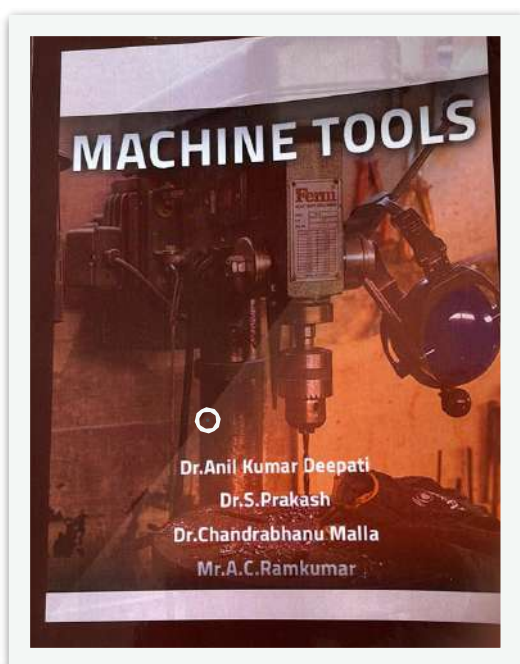
# PATENT DETAILS

S.NO	INVENTORS- NAME	PATENT COPY RIGHT NUMBER	TITLE OF THE PATENT / COPY RIGHT	DATE OF FILED/ AWARDED
PATENT FILED				
1	Dr. L Prabhu	396570-001	Hybrid Cycloidal And Planetary Radial Vector Gear Drive	04.10.2023
2	Dr. L Prabhu	396564-001	Pellet Extruder For Direct Drive 3d Fdm Printer	04.10.2023
3	Dr.M Saravana kumar	397853-001	Electric Gyro Monowheel Scooter	18.10.2023
4	Dr. S Sangeetha	398735-001	Robotic Joint Hydraulic Vane Rotary 360 Degreeactuator	30.10.2023
5	Mr. J Senthil	400249-001	Ergonomic Manual Bearing Extraction Andinstallation Tool	20.11.2023
6	Mr M Saravanan	400879-001	User friendly fan cleaning system for all ages	29.11.2023
PATENT AWARDED				
7	Dr. S Sangeetha	383232-001	lot Based Robot For Air Conditioner Duct Cleaning	08.06.2023
8	Dr. L Prabhu	381142-001	Machine Learning based robot for face mask and sanitizer dispensing.	24.07.2023



ONGOING SEED MONEY PROPOSAL				
S.NO	PI NAME	NAME OF THE PROPOSAL	DURATION IN MONTHS	RECOMMENDED FUND IN (Rs.LAKHS)
1	Mr.A Elanthiraiyan	Influence of fuel chemical properties on emission and performance of DICI engine using naturally aged biodiesel	18 months	3.5
2	Mr. R Mahesh	Analysis and testing of fluidity of lubricating oils in low temperatures	18 months	3.8
3	Mr. S Ashokkumar	Design and fabrication of an experimental setup to evaluate stress corrosion cracking(SCC) resistance of magnesium-based composites	24 months	3.95

BOOKS AND CHAPTERS IN EDITED VOLUMES / BOOKS PUBLISHED BY FACULTY					
S.NO	NAME OF THE FACULTY	TITLE OF THE BOOK / CHAPTER	NAME OF THE PUBLISHER	ISSN No.	INTERNATIONAL / NATIONAL
1	Dr. S Prakash	Machine Tools	Jayalakshmi Publication	ISBN NO-978-93-90 203-28-4	National





FACULTY MEMBER PARTICIPATED AS GUEST / RESOURCE PERSON IN & OUT SIDE OF AVIT

S.NO	NAME OF THE FACULTY	NATURE OF EVENT	TITLE OF THE PROGRAMMES	NAME OF THE ORGANISING BODY/ INSTITUTION	DATE	NATURE OF PARTICIPATION
1	Dr.M Saravanakumar Mr. A Imthiyas	Workshop	Latest trouble shooting technologies using BOSCH state of the Art equipments	Mech/AVIT	11.09.2023	Guest Speaker
2	Mr. N Lakshminarayanan	Knowledge Session	Smart India Hackathon 2023	AMEA/AVIT	14.09.2023	Guest Speaker
3	Dr. L Prabhu	Symposium	Ardorcomm Education Leadership Symposium	Ardorcomm Media Group	13.12.2023	Guest Speaker



FACULTY AWARDS AND RECOGNITIONS

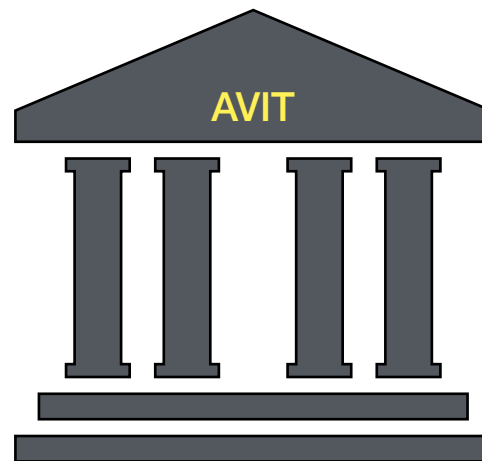
S.NO	NAME OF THE FACULTY	DESIGNATION	TITLE OF THE AWARD	NAME OF THE AGENCY / AGENCIES THAT AWARDED	NAME OF THE AWARD, FELLOWSHIP, RECEIVED FROM GOVERNMENT OR RECOGNIZED BODIES	PURPOSE
1	Dr.Prabhakar M	Professor	Chancellor's Research Award	VMRF	Chancellor's Research Award & Appreciation Certificate	Highest number of Indexed publications and Highest cumulative impact factor publications
2	Dr.Prabhu L	Professor	College SPOC	KAVACH 2023	Appreciation certificate	Exceptional contribution as a college SPOC in KAVACH 2023
3	Mr.Imthiyas A	Assistant Professor(G-II)	Certificate for Organiser	Spoken Tutorial ,IT Bombay	Certificate of Appreciation	Organised IT Skill courses for training for the students of AVIT



*Congratulations to All* 

## TOPPERS OF ODD SEM 2023-2024

S.NO	NAME OF THE STUDENT	YEAR / DEPARTMENT	GRADE OBTAINED (SGPA)
1	Mr.Sukumar Ray	II Year/ Mechanical	9.38
2	Mr.J.Vasanth kumar	III Year/ Mechanical	9.49
3	Mr.R.Vignesh	IV Year/ Mechanical	9.48



Mr. Sukumar Ray  
2nd year / Mechanical



Mr. J.Vasanth Kumar  
3rd year / Mechanical



Mr.R.Vignesh  
4th year / Mechanical

*Congratulations to All*

FACULTY PARTICIPATION IN WORKSHOP/ SEMINARS/CONFERENCES AND SYMPOSIA						
S.NO	NAME OF THE FACULTY	DATE/ NO. OF DAYS	NATURE OF THE PROGRAM	TITLE OF THE PROGRAM	ORGANISED BY	INTERNATIONAL / NATIONAL / STATE / LOCAL LEVEL
1	Senthil J	01.7.2023/1 day	Webinar	Role of Extension & Outreach Activities to improve Healthcare in Teaching Hospitals	Vinayaka Mission's Kirupananda Variyar Medical College and Hospitals, Salem	National
2	Thiagarajan C	10.07.2023/1 day	Seminar	Universal Human Values and professional Ethics	Dr MGR Educational and Research Institute	National
3	Sangeetha S	15.07.2023/1 day	Webinar	Ensuring quality in documentation of learning-Role of E Portfolio	VMCC,Karaikal	National
4	Thiagarajan C					
5	Senthil J					
6	Elanthiraiyan A					
7	Senthil kumar A					
8	Vijayakumar K					
9	Selva babu B					
10	Kalyana Kumar S					
11	Sathiyaraj S					
12	Senthil J	28.7.2023 & 29.7.2023/ 2 days	Workshop	Two day Workshop on Data Integration for NAAC, NIRF, AISHE, UGC and UTSAH	Vinayaka Mission's Research Foundation (Deemed to be University), Salem	National
13	Prabhakar M	19.08.2023/1 day	Webinar	Role of IQAC in Quality Higher Education	Vinayaka Missions College of Physical Education,Salem	National
14	Sangeetha S					
15	Thiagarajan C					
16	Senthil J					
17	Elanthiraiyan A					
18	Ashokkumar S					
19	Mahesh R					
20	Senthil kumar A					
21	Kumaran P					
22	Prakash S					
23	Antony Casmir G					
24	Saravana Kumar M					
25	Samuvel Michael B					
26	Sathiyaraj S					
27	Vijayakumar K					
28	Kalyana Kumar S					
29	Selva babu B					
30	Saravanan M					
31	Sangeetha S	02.09.2023/1 day	Webinar	Quality Initiatives-A way forward in post Accreditation	VMCN, Puducherry	National
32	Surendra Babu K					
33	Senthil J					
34	Elanthiraiyan A					
35	Mahesh R					
36	Senthil kumar A					
37	Samuvel Michael B					
38	Vijayakumar K					
39	Sathiyaraj S					
40	Senthil J	08.9.2023/1 day	Workshop	One-day training programme for Hols and IQAC Coordinators	Vinayaka Mission's Research Foundation (Deemed to be University), Salem	National

FACULTY PARTICIPATION IN WORKSHOP/ SEMINARS/CONFERENCES AND SYMPOSIA						
S.NO	NAME OF THE FACULTY	DATE/ NO. OF DAYS	NATURE OF THE PROGRAM	TITLE OF THE PROGRAM	ORGANISED BY	LEVEL OF THE EVENT (STATE/ NATIONAL / INTERNATIONAL)
39	Sathiyaraj S	02.09.2023/1 day	Webinar	Quality Initiatives-A way forward in post Accreditation	VMCN, Puducherry	National
40	Senthil J	08.9.2023/1 day	Workshop	One-day training programme for Hols and IQAC Coordinators	Vinayaka Mission's Research Foundation	National
41	Surendra Babu K	09.09.2023/1 day	Seminar	First aid in the Digital world	Excel Engineering College	National
42	Sangeetha S	16.09.2023/1 day	Webinar	IQAC in new education policy era	IQAC, School of Arts and Science	National
43	Senthil J					
44	Selva babu B					
45	Vijayakumar K					
46	Saravanan M					
47	Kumaran P					
48	Sangeetha S	06.10.2023 -07.10.2023/2 days	Workshop	NAAC Assessment	IQAC-AVIT	National
49	Prabhahar M	07.10.2023/1 day	Webinar	Promoting Quality research and Innovation in Higher Educational Institutions	VMCN, Salem	National
50	Prakash S					
51	Kalyana Kumar S					
52	Imthiyas A					
53	Kumaran P					
54	Selva babu B					
55	Prabhahar M	04.11.2023/1 day	Webinar	Quality Enhancement in Campus Placement	IQAC-VMRF DU	National
56	Prakash S					
57	Senthil J					
58	Prakash S	04.11.2023 to 08.11.2023/5 days	Workshop	Data Visualization and Analysis with	Scholars Gate-Research Training	International
59	Prabhahar M	18.11.2023/1 day	Webinar	The Role of management in Quality assurance	IQAC-VMSDC-DU	National
60	Senthil J					
61	Prakash S					
62	Kalyana Kumar S	July 23 to Oct 23/12 weeks	Workshop	Manufacturing Systems Technology I & II	NPTEL-SWAYAM	National
63	Prabhu L	01.12.2023/1 day	Regional Meet	IIC MOE's Innovation Cell	Crescent Institute of Science and Technology	State
64	Bubesh Kumar D					
65	Vijayakumar K					
66	Prabhahar M	02.12.2023/1 day	Webinar	Quality Initiatives & Sustenance in Higher Education Institution	Internal Quality Assurance Cell (IQAC), SAHS, Puducherry Campus, VMRF-DU	State
67	Sangeetha S					
68	Prakash S					
69	Sathiyaraj S					
70	Selva Babu B					
71	Prabhu L	18.12.2023 to 20.12.2023/3 days	Workshop	Career in Intellectual Property Rights	Turnip Innovations DPIIT IPR Chair, NALSAR University	State

# FACULTY PARTICIPATION CERTIFICATES



## STUDENTS PARTICIPATION IN WORKSHOP / SEMINARS / CONFERENCES AND SYMPOSIA

S.NO	NAME OF THE FACULTY	YEAR/DEPT	NATURE OF THE PROGRAM	TITLE OF THE PROGRAM	DATE/ NO. OF DAYS	LEVEL OF THE EVENT (STATE/ NATIONAL / INTERNATIONAL)
1	Vijayakumar A	IV/Mech	Seminar	First Aid in the Digital world	09.09.2023 /1 day	National
2	Govarathan P	IV/Mech	Co curricular event	Scrap Sculpting-I Place	15.09.2023 /1 day	National
3	Santhosh A	IV/Mech		Scrap Sculpting-I Place		
4	Ranjan Kumar Mandal	IV/Mech		Scrap Sculpting-II Place		
5	Akash kumar	IV/Mech		Scrap Sculpting-II Place		
6	Vignesh R	IV/Mech		Scrap Sculpting-III Place		
7	Tharun Kumar S	IV/Mech		Scrap Sculpting-III Place		
8	Vasanth Raj	IV/Mech		Fun with Electronics-I Place		
9	Balaji A	IV/Mech		Fold and fly-II Place		
10	Mohamed al Ashim	III/Mech		Fold and fly-III Place		
11	Ranjith V	III/Mech		Mind Bender-III Place		
12	Dhanush	II/Mech		Quantum Enigma-III Place		
13	Anand Kumar Ram	III/Mech		NPTEL		
14	Mohammed Asarafali S	III/Mech				
15	Ranjith V	III/Mech				
16	Subham Mal	III/Mech				
17	Vasanth Kumar J	III/Mech				
18	Santhosh A	IV/Mech				
19	Ponnarasu S	IV/Mech				
20	Madhan Raj L	IV/Mech				
21	Sanjay Krishnan K	IV/Mech				
22	Vignesh V	IV/Mech				
23	Ankit Kumar	II/Mech	IIT Bombay Spoken Tutorial	QCAD	20.11.2023	National
24	Dhanush M	II/Mech				
25	James Andrew P	II/Mech				
26	Krishna Kumar	II/Mech				
27	Nilesh Kumar Mauraya	II/Mech				
28	Prabhat Kumar Ram	II/Mech				
29	Sukumar Ray	II/Mech				
30	Surya R	II/Mech				
31	Gundati Charan	II/Mech				
32	Iyyappan S	II/Mech				
33	Mukilan G	II/Mech				
34	Praveen V	II/Mech				
35	Ranjith Kumar	II/Mech				
36	Sugumaran G	II/Mech				
37	Anand Kumar Ram	III/Mech	IIT Bombay Spoken Tutorial	OpenFOAM version 7	09.11.2023	National
38	Sanjeev Kumar	III/Mech				
39	Sujeet Kumar	III/Mech				
40	Dhanushkumar R	III/Mech				
41	Vasanth Kumar J	III/Mech				
42	Muhammed Aman M	III/Mech				
43	Akash Kumar	IV/Mech				
44	Chandan Kumar	IV/Mech				
45	Ponnarasu S	IV/Mech				

STUDENTS PARTICIPATION IN WORKSHOP / SEMINARS / CONFERENCES AND SYMPOSIA

S.NO	NAME OF THE FACULTY	YEAR/DEPT	NATURE OF THE PROGRAM	TITLE OF THE PROGRAM	DATE/ NO. OF DAYS	LEVEL OF THE EVENT (STATE/ NATIONAL / INTERNATIONAL)
46	Ranjan Kumar Mandal					
47	Tharun Kumar S					
48	Udhayam K					
49	Vignesh V					
50	Deekeswar Y R					
51	Balaji A					
52	Balaji P					
53	Govarthan P	IV/Mech	IIT Bombay Spoken Tutorial	OpenFOAM version 7	09.11.2023	National
54	Madhan Raj L					
55	Manikandan M					
56	Mohamed Riyaskhan S					
57	Tharun R					
58	Vijayakumar A					
59	Yugendran S					
60	Sourav Sreejith K M					

STUDENTS PARTICIPATION CERTIFICATES





# STUDENTS PARTICIPATION CERTIFICATES

**Certificate for the Completion of QCad Training**

This is to certify that **KLESH KUNAR NAIRAYA** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 75.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **KRISHNA KUNAR** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **YUJESHWAN S** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 90.00%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **R KIRYA** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **AMIT KUNAR** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **MOHAMMED RIYAZKHAN S** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 70.00%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **MUNISHKAR ANAN M** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **SHAMSER KUNAR** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **SHALAJ A** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 75.00%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **RIYAZKHAN S** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **SUDHANAR S** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **MURALEE S** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **SOHANSRI P** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 47.50%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **RAJATHANAR S** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **M CHAIRESH** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of QCad Training**

This is to certify that **SURJANARAY S** has successfully completed QCad training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 80.00%

November 20th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate of Appreciation**

This is to certify that **Dr. Rajes Kumar Mondal** has participated in the event **1st year Mechanical Day** on **11th** position during the **10th Annual Day Celebrations - "EXPLORING INNOVATION, FOSTERING PROGRESS AND INSPIRING DREAMS"** held on **09 September 2023** at Aarapadi Veedu Institute of Technology, Palayamkottai, Chennai.

*Dr. Rajes Kumar Mondal*  
Principal, AVIT

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate for the Completion of OpenFOAM version 7 Training**

This is to certify that **SHALAJ P** has successfully completed OpenFOAM version 7 training organized at Aarapadi Veedu Institute of Technology by Intelligo A through Google Meet with course material provided by the Sponser Tutorial Project, IT Bombay. Passing an online exam, conducted weekly from IT Bombay, is a prerequisite for completing this training.

Pa.Surya through Google Meet from Aarapadi Veedu Institute of Technology registered this association. This training is offered by the Sponser Tutorial Project, IT Bombay.

Credits: 1 Score: 40.00%

November 09th 2023

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**Certificate of Appreciation**

This is to certify that **Dr. Vijayalakshmi S** has participated in the event **1st year Mechanical Day** on **11th** position during the **10th Annual Day Celebrations - "EXPLORING INNOVATION, FOSTERING PROGRESS AND INSPIRING DREAMS"** held on **09 September 2023** at Aarapadi Veedu Institute of Technology, Palayamkottai, Chennai.

*Dr. Vijayalakshmi S*  
Principal, AVIT

*Pa.Surya*  
Prof. Sponser & Mentors  
IT Bombay

**EXCEL ENGINEERING COLLEGE (AUTONOMOUS)**  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai. Accredited by NBA and NAAC 'A++' and Recognized by UGC/Council for Technical Education - CTE, India.

**DEPARTMENT OF SAFETY AND FIRE ENGINEERING**

**CERTIFICATE OF PAPER PRESENTATION**

This certificate declares that **VIJAYAKUMARA**

has participated in **"World Fire Alarm Day"** Seminar on **"Fire Aid in the Digital World"** Organized by the Department of Safety and Fire Engineering, Excel Engineering College (Autonomous), Valluvar, Tiruvallur - 601103, on 09th September 2023.

*Dr. S. Sathya Narayan*  
Principal, AVIT

*Dr. S. Sathya Narayan*  
Principal, AVIT


*Dr. S. Sathya Narayan*  
Principal, AVIT

**OUTREACH ACTIVITES**




FACULTY DEVELOPMENT PROGRAMMES (FDP)				
S.NO	NAME OF THE FACULTY	TITLE OF THE PROGRAMME	DATES	ORGANIZED BY
1	Mr.Saravanan M	Frontiers in multidisciplinary research	16.08.2023 to 22.08.2023	Galgotias University
2	Mr.Vijayakumar K	Digital Prototyping using CATIA (Online FDP)	25.09.23 to 30.09.2023	ICT Academy
3	Mr.Kumaran P		26.09.2023 to 4.10.2023	
4	Mr.Bubesh Kumar D	Research methodology	26.09.2023 to 04.10.2023	Dr MGR. Educational And Research Institute
5	Mr.Surendra Babu K	Inculcating Universal Human Values in Technical Education	06.11.2023 to 10.11.2023	AICTE-New Delhi
6	Mr.Senthil kumar A			
7	Mr.Prakash S	Digital Prototyping using CATIA (Online FDP)	27.11.2023 to 01.12.2023	ICT Academy
8	Mr.Antony casmir Jayaseelan			
9	Mr.Prabhahar M			
10	Mr.Surendra Babu K			
11	Mr.Sangeetha S			
12	Mr.Senthil J			
13	Mr.Thiagarajan C			
14	Mr.Ashokkumar S			
15	Mr.Elanthiraiyan A			
16	Mr.Mahesh R			
17	Mr.Antony casmir Jayaseelan			
18	Mr.Saravana Kumar M	Research methodology	Aug 23 to Oct 23	NPTEL
19	Dr.Prakash S			
20	Mr.Vijayakumar K			
21	Mr.Kalyanakumar S			
22	Mr.Selva babu B			
23	Mr.Saravanan M			
24	Mr.Samuvel Michael B			
25	Mr.Senthil kumar A			
26	Mr.Kumaran P			
27	Mr.Imthiyas A			
28	Dr.Prabhu L	AICTE Evaluated 2 week Patent Course		Turnip Innovations
29	Dr.Sangeetha S	NEP 2020 Orientation and Sensitization Programme	13.12.2023 to 22.12.2023	MM-TTP-UGC
30	Mr.Thiagarajan C			


FDP CERTIFICATES




**CERTIFICATE OF PARTICIPATION**  
 ICTACADEMY  
 VJAYAKUMAR K  
 Aarupada Veda Institute of Technology (AVIT)  
 has participated in 4th State of Kerala, Teacher Training Program on Digital Fracturing using CAESA (October 2023) conducted by ICT Academy on 23 Aug 2023 to 29 Aug 2023




**CERTIFICATE OF PARTICIPATION**  
 ICTACADEMY  
 KUMARAN P  
 Aarupada Veda Institute of Technology (AVIT)  
 has participated in 4th State of Kerala, Teacher Training Program on Digital Fracturing using CAESA (October 2023) conducted by ICT Academy on 23 Aug 2023 to 29 Aug 2023




**CERTIFICATE OF PARTICIPATION**  
 ICTACADEMY  
 DR. S. PRAKASH  
 Aarupada Veda Institute of Technology (AVIT)  
 has participated in 4th State of Kerala, Teacher Training Program on Digital Fracturing using CAESA (October 2023) conducted by ICT Academy on 23 Aug 2023 to 29 Aug 2023




**CERTIFICATE OF PARTICIPATION**  
 ICTACADEMY  
 MR. G. ANTONY CASIMIR JAYASEELAN  
 Aarupada Veda Institute of Technology (AVIT)  
 has participated in 4th State of Kerala, Teacher Training Program on Digital Fracturing using CAESA (October 2023) conducted by ICT Academy on 23 Aug 2023 to 29 Aug 2023




**CERTIFICATE OF PARTICIPATION**  
 Dr. D. Babesh Kumar of Aarupada Veda Institute of Technology has participated in the One week Faculty Development Program Research Methodology organised by The Internal Quality Assurance Cell and Academic Staff College, De.M.G.R. Educational and Research Institute from 26-09-2023 to 04-10-2023.




**Certificate of Participation**  
 NEP 2020 Orientation & Sensitization Programme  
 This is to certify that SANGEETHA KRISHNAMOORTHY from Aarupada Veda Institute of Technology has completed the NEP 2020 Orientation & Sensitization Programme under Malaya Muslim Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Indian Institute of Information Technology, Design and Manufacturing, Kanchipuram, Chennai during December 15-22, 2023.




**Certificate of Participation**  
 NEP 2020 Orientation & Sensitization Programme  
 This is to certify that THIAGARAJAN C from Aarupada Veda Institute of Technology has completed the NEP 2020 Orientation & Sensitization Programme under Malaya Muslim Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) organized by Indian Institute of Information Technology, Design and Manufacturing, Kanchipuram, Chennai during December 15-22, 2023.




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to DR. K. GANATHI for successfully completing the course Research Methodology with a consolidated score of 85 %




**CERTIFICATE OF PARTICIPATION**  
 Mr. SARAVANAN M, Aarupada Veda Institute of Technology



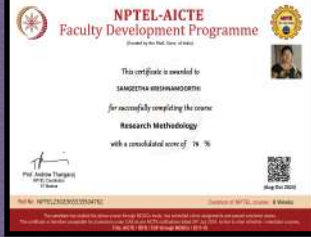
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 Certificate of Participation  
 This is to certify that Mr. Babesh Kumar from Aarupada Veda Institute of Technology, Chennai has participated and successfully completed the 3 day Online FDP on the theme "Empowering Internal Human Talent in Technical Education" organized by All India Council for Technical Education (AICTE) from 06 November to 08 November 2023.




**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 Certificate of Participation  
 This is to certify that Dr. K. Ganathi from Aarupada Veda Institute of Technology, Chennai has participated and successfully completed the 3 day Online FDP on the theme "Empowering Internal Human Talent in Technical Education" organized by All India Council for Technical Education (AICTE) from 06 November to 08 November 2023.




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to THIAGARAJAN C for successfully completing the course Research Methodology with a consolidated score of 75 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to SANGEETHA KRISHNAMOORTHY for successfully completing the course Research Methodology with a consolidated score of 78 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to ANITHYAS for successfully completing the course Research Methodology with a consolidated score of 80 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to K. SARAVANANAN for successfully completing the course Research Methodology with a consolidated score of 86 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to DR. S. PRAKASH for successfully completing the course Research Methodology with a consolidated score of 75 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to SANGEETHA KRISHNAMOORTHY for successfully completing the course Research Methodology with a consolidated score of 76 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to ANITHYAS for successfully completing the course Research Methodology with a consolidated score of 80 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to ANTONY CASIMIR JAYASEELAN for successfully completing the course Research Methodology with a consolidated score of 88 %




**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to SANGEETHA KRISHNAMOORTHY for successfully completing the course Research Methodology with a consolidated score of 84 %



**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to SANGEETHA KRISHNAMOORTHY for successfully completing the course Research Methodology with a consolidated score of 81 %



**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to ANITHYAS for successfully completing the course Research Methodology with a consolidated score of 80 %



**NPTEL-AICTE Faculty Development Programme**  
 This certificate is awarded to ELAKSHANATHAN A for successfully completing the course Research Methodology with a consolidated score of 85 %

## RESEARCH ARTICLE PUBLICATION DETAILS

- 1 **Dr Prabhakar M** Combustion and Performance Characteristics of a Lanthanum-Cerium Oxide Coated DI Diesel Engine Fueled with Lemon Grass Oil Methyl Ester and Di- Ethylene Glycol as Additives  
*International Journal of Mechanical Engineering* 2023 2587-0963 WOS
- 2 **Dr Prabhakar M** Performance, Combustion and Emission Characteristics of a Diesel Engine with the Effect of TiO<sub>2</sub> Nano Additives in Diesel-Tamarind Oil Blends *SSRG International Journal of Mechanical Engineering* 2023
- 3 **Dr Prabhakar M** Experimental Analysis and Investigation on Enhanced Combustion and Reduced Emissions of Diesel Engines Using Emulsified Biodiesel *SSRG International Journal of Mechanical Engineering* 2023
- 4 **Dr Prakash S** PCM-Enhanced Ceilings in Hot Humid Climates: Experimental and Numerical Analysis of Single and Double-Layer Systems for Energy Savings *SSRG International Journal of Civil Engineering* 2023
- 5 **Dr Prabhu L** Prediction of the Engine Performance and Emission Characteristics of Glycine Max Biodiesel Blends With Nanoadditives and Hydrogen *ASME Journal of Energy Resources Technology* 2023 0195-0738 WOS.
- 6 **Dr Prabhu L** Effects of Scenedesmus dimorphus, spirulina biodiesel, hydrogen and nanoparticles fuel blends on mass burn fraction, emission, noise and vibration characteristics *Fuel* 2023 0016-2361 WOS
- 7 **Mr Antony Casmir G** Assessment of solar thermal monitoring of heat pump by using zeolite, silica gel, and alumina nanofluid *Clean Technologies and Environmental Policy* 2023 1618-954X WOS
- 8 **Mr Senthilkumar A** Mechanical Interlocking Approaches to the Prediction of Mechanical and Tribological Behavior of Natural Fiber-Reinforced Polymer Hybrid Nanocomposites or Automotive Applications *Hindawi Advances in Polymer Technology* 2023 1098-2329 WOS
- 9 **Mr Kumaran P** Optimization of Diesel Engine Performance and Emissions Characteristics with Tomato Seed Blends and EGR Using Response Surface Methodology *International Journal of Automotive Science and Technology* 2023 2587-0963 Scopus
- 10 **Mr Senthil J.** Experimental Analysis on Performance and Emissions of Mahua Pyro Oil Biodiesel Blends as a Fuel for DI-CI Diesel Engine: A Sustainable Alternative for Reducing Engine Emissions *SSRG International Journal of Mechanical Engineering* 2023 2348-8360 Scopus
- 11 **Mr Thiagarajan C.** Evaluating Diesel Engine Performance with Blended Fuels from Low-Density Plastic Pyrolysis Oil: A Sustainable Approach to Diesel Engine Operation *SSRG International Journal of Mechanical Engineering* 2023 2348-8360 Scopus

# INDUSTRIAL VISIT

DATE: 25.8.2023

Department of mechanical engineering and association of mechanical engineers of AVIT(AMEA) arranged a industrial visit to ICF, Chennai & Rail museum. Manufacturers of LHB and Vande Bharat train at Perambur. Around 46 students of III and IV year B.E Mechanical engineering students visited the factory and had a thorough knowledge of methods of manufacturing of LHB coaches. Mr.C.Thiagarajan & Mr G.Antony casmir Assistant professor (G-II) accompanied the students during the visit.





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# THE PINNACLE

OFFICIAL NEWS LETTER OF DEPARTMENT OF MECHANICAL ENGINEERING