

Dr. MAHALINGAM



COLLEGE OF ENGINEERING AND TECHNOLOGY

Enlightening Technical Minds

Dr. MAHALINGAM

COLLEGE OF ENGINEERING AND TECHNOLOGY

Affiliated to Anna University, Chennai. Approved by AICTE. Accredited by NBA and NAAC with Grade A++
Udumalai Road, Pollachi - 642 003.

DEPARTMENT OF AUTOMOBILE ENGINEERING

NEWSLETTER



Future Automobile

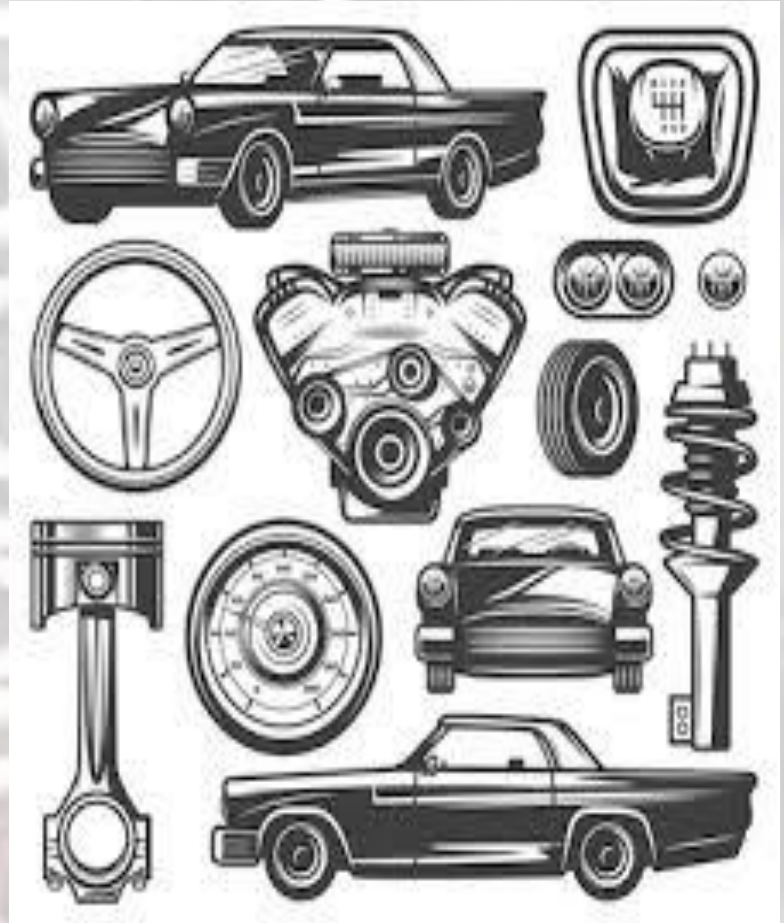
Institution Vision and Mission

Vision:

We develop a globally competitive workforce and entrepreneurs.

Mission:

Dr. Mahalingam College of Engineering and Technology, Pollachi endeavors to impart high quality, competency based technical education in Engineering and Technology to the younger generation with the required skills and abilities to face the challenging needs of the industry around the globe. This institution is also striving hard to attain a unique status in the international level by means of infrastructure, state-of-the-art computer facilities and techniques.



Department Vision & Mission

DV: To offer cutting-edge technology in the broad area of automobile engineering and develop globally competitive engineers

DM1: To develop automobile engineering graduates for a successful career in global automotive industry through effective teaching-learning and training.

DM2: To develop the capability of graduates for creating innovative products / systems to enhance the quality of life.

DM3: To inculcate in them the ability to solve societal problems through engineering and professional skills.

PEOs, POs & PSOs

PEO1: Technical Expertise: Actively apply technical and professional skills in engineering practices to face industrial challenges around the globe

PEO2: Higher studies and Research: Own their professional and personal development by continuous learning to create new knowledge

PEO3: Ethical Knowledge: Conduct themselves in a responsible, professional and ethical manner supporting sustainable economic development, which enhances the quality of life.

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. 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.

PO5. 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.

PO6. 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.

PO7. Environment 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.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. 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.

PO11. 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.

PO12. 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.

PSO1. Analyze the systems behaviour and optimize for the results using modelling, simulation and experiments.

PSO2. Design automotive components with due considerations of environment and sustainability.

Journal Publication

S.No	Name of the Faculty	Title of the Paper	Name of the Journal	Volume No., Issue No., Page No., and ISSN number	Month & Year of Publication
1	Mr. R. Vishnu Ramesh Kumar	Effects of emission and performance characteristics study of rubber seed biodiesel fueled DI diesel engine fumigated with methanol	Materials Today: Proceedings	ISSN: 2214-7853	01/04/2023
2	Dr. D Shanmugam	Experimental investigation on the mechanical, thermal and acoustic characteristics of cellulose/synthetic fiber/nano clay hybrid composites: Influence of treatment, moisture and layering pattern	Composites Part A: Applied Science and Manufacturing	107497	01/05/2023

Conference Publication

S.No	Name of the Faculty	Title of the Paper	Name of the Conference	Organizer & Venue	Month & Year of Publication
1	Dr. Calvin S King	Future Readiness Through Capstone Project	2nd International Conference On Best Innovative Teaching Strategies	BITS, Pilani	09-11 February, 2023
	Dr. Calvin S King	Developing industry ready engineering graduates in collaboration with industry and other stakeholders	2nd International Conference On Best Innovative Teaching Strategies	BITS, Pilani	09-11 February, 2023

Online Courses by Faculty

Name of Faculty who attended the programme	Course Name	MM-YYYY of course started	Platform
R.Vishnurameshkumar	Effective Writing	Jan-23	NPTEL
S.mahalingam	Effective Writing	Jan-23	NPTEL
R.B.Rajeshkumar	Innovation By design	Jan-23	NPTEL
Dr.M.Selvakumar	Patent drafting - Certificate	Jan-23	NPTEL
Dr.S.K.Ashok	Patent Drafting for Beginners	Jan-23	NPTEL



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
DR ASHOK S K
 for successfully completing the course
Patent Drafting for Beginners
 with a consolidated score of **60** %

Online Assignments	17.5/25	Proctored Exam	42.5/75
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Total number of candidates certified in this course: **298**


Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Feb 2023
(4 week course)


Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras


Indian Institute of Technology Madras



Roll No: NPTEL23HS43544375110

To validate the certificate 

No. of credits recommended: 1 or 2



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
VISHNURAMESHKUMAR R
 for successfully completing the course

Effective Writing
 with a consolidated score of **62** %

Online Assignments	24.08/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **3804**

Sanjeev Manhas
Prof. Sanjeev Manhas
 Coordinator, Continuing Education Centre
 IIT Roorkee

Jan-Feb 2023
 (4 week course)

Priti Maheshwari
Prof. Priti Maheshwari
 NPTEL Coordinator
 IIT Roorkee

Indian Institute of Technology Roorkee

Roll No: NPTEL23HS19S14372271 To validate the certificate No. of credits recommended: 1 or 2



Elite
NPTEL Online Certification
 (Funded by the MoE, Govt. of India)

This certificate is awarded to
M SELVA KUMAR
 for successfully completing the course

Patent Drafting for Beginners
 with a consolidated score of **65** %

Online Assignments	12.08/25	Proctored Exam	52.5/75
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Total number of candidates certified in this course: **298**

Devendra Jalihal
Prof. Devendra Jalihal
 Chairperson,
 Centre for Outreach and Digital Education, IITM

Jan-Feb 2023
 (4 week course)

Andrew Thangaraj
Prof. Andrew Thangaraj
 NPTEL, Coordinator
 IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23HS43S34372747 To validate the certificate No. of credits recommended: 1 or 2



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
R B RAJESHKUMAR
for successfully completing the course

Innovation by Design

with a consolidated score of **64** %

Online Assignments	15.92/25	Proctored Exam	47.82/75
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Total number of candidates certified in this course: **313**

Jan-Feb 2023
(4 week course)

Sridhar
Prof. Sridhar Iyer
Head CDEEP & NPTEL Coordinator
IT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL23DE05544375098 To validate the certificate  No. of credits recommended: 1 or 2



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
S MAHALINGAM
for successfully completing the course

Effective Writing

with a consolidated score of **49** %

Online Assignments	13.08/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **3804**

Jan-Feb 2023
(4 week course)

Pm
Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IT Roorkee

Priti Maheshwari
Prof. Priti Maheshwari
NPTEL Coordinator
IT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23HS19524372537 To validate the certificate  No. of credits recommended: 1 or 2

Consultancy Work by Department

Name of the Faculty	Name of the collaboration partner	Status
Dr. Calvin S King	L&T Defence , Coimbatore	Completed
Dr. M.Selvakumar		
Dr. S.K.Ashok		
Mr.R.Vishnurameshkumar		
Mr. M.Mahendran		
Dr. M.Selvakumar	Erbatech Ltd, Kinathukadavu, Coimbatore	Completed
Mr. M.Mahendran		

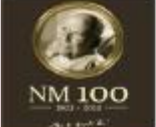



Funded Projects

Name of the Faculty	Name of the collaboration partner	Funding Agency	Amount in Rs
Dr. D.Shanmugam	Student Project Scheme,	TNSCST	7500
Dr. M.Selvakumar	Innovation Voucher Program	EDII - TaarkEquipmentsPvt Ltd-	321000

Events Organized by the Department

S.No	Title of the Event	No of Days	Date of the Event	No of Participants
1	Intellectual Property Rights	1	12-04-2023	77
2	Challenges and Opportunities in Electric Vehicles and Automotive Telematics	2	09-02-2023 & 10-02-2023	18
3	Workshop	2	17-02-2023 to 18-02-2023	43
4	Conference	1	15-03-2023	14



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Udumalai Road, Pollachi, Coimbatore District 642003
Estd. 1998 | AICTE Approved | Affiliated to Anna University
An Autonomous Institution


NAAC A++ GRADE
Cycle 2 (2018-2023)
The Highest Grade

**Departments of Information Technology and
Automobile Engineering**

Jointly organizing workshop on

"Intellectual Property Rights - Knowledge session"

12th April 2023 | Wednesday | 9.00 am to 1.00 pm



Dr. S. P. Subramaniyan
Deputy Controller of Patents & Designs, Chennai

Venue: Hall No.12

Conveners

Mr. N. Praveen Sundra Kumar, AP/IT
9003350577

Dr. M. Selvakumar, ASP/Auto
7358272521

Students Participation

Name of the student	Name of the event	Seminar, Workshop, training	Date of Participation (DD-MM-YYYY)
Gokul T	Refuel Recharge Reinvent	Project presentation	15-02-2023 to 18-02-2023
Anton Andrick F	Refuel Recharge Reinvent	Project presentation	15-02-2023 to 18-02-2023
Sellakumar M	Refuel Recharge Reinvent	Project presentation	15-02-2023 to 18-02-2023

Sellakumar M	M Baja 23	Project presentation	12-02-2023 to 18-02-2023
M.M. Kavin	Electric Hybrid vehicle	Workshop	28-01-2023
V. Vasanth Mani	Electric vehicle	Workshop	27-01-2023
Sanjeev T K	Electric vehicle	Workshop	27-01-2023
M.Dineshkumar	Electric Hybrid vehicle	Workshop	28-01-2023
Gowthamraj P	Electric vehicle	Workshop	27-01-2023
Elladurai S	Electric vehicle	Workshop	27-01-2023
Pranavan B	Electric vehicle	Workshop	27-01-2023
Pranavan B	Electric vehicle	Workshop	27-01-2023
Sivakumaran G	Electric vehicle	Workshop	27-01-2023
Joel Bevin S	Electric vehicle	Workshop	27-01-2023
V. Vasanth Mani	Build your own electric vehicle	Internship	20 Days
Sanjeev T K	Build your own electric vehicle	Internship	20 Days
Gowthamraj P	Build your own electric vehicle	Internship	20 Days
Elladurai S	Build your own electric vehicle	Internship	20 Days
M Mehul Krishna	Build your own electric vehicle	Internship	20 Days
Alagaraja P K	Electric Vehicle Work Shop 2023	Workshop	27-01-2023
MathavaRaj D			
Allwin M			
Mohaneshswar K			
Satyaprakash N			
Pravin M			
Alagaraja P K			
MathavaRaj D			
Gowtham A R			
Sivaprakash D	Fiestaa 23	CAD Design contest	16-02-2023 to 17-02-2023



Students Participating the Event at IITM



Certificate of Participation in Workshop



Certificate of Participation in Workshop



Certificate of One Day Seminar

Industrial Visit

S.No	Industry Name	Date	Participants
1	Sakthi Auto Component, Tiruppur	28-02-2023	56
2	SakthiSugars, Erode	15-03-2023	46



Industrial Visit at Sakthi Auto Component

Students Conference Presentation

Name of Student(s) who attended the programme	Title of paper presented	Level of Conference (National/International)
K.KavinPrabhu	Simulation Of Automobile Braking System Based On Pid Controller	International
S.Mugeshwaran		
P.Venuvasanth		
K.Manikandan	Traffic Sign Recognition System Using CNN	International
S.Thamaraiselvan		
R.Thulasiram		
K.Surendarapradeep	Development Of Low Cost Ball Milling Machine	International
S.VishnuPrakash		
S.Vasanth		
M.Vimal	Experimental Investigation On Two-Wheeler Chassis Dynamometer	International
S.Gajendran		
R.SelvaVignesh		
S.Kumarasan	CFD Analysis Of Quadcopter Drone Spray Distribution System	International
P.NaveenRaju		
S.Manovasanth		

K.Nallasenathipathi	Intelligent Valet Parking Finder	International
T.Ajithkumar		
S.Sabarinath		
T.Dhsrun	Heat Transfer Agumentation And Thermal Management With Nano Embedded Pcms In A Li-Ion Battery Cell For Electric Vehicles Application	International
P.Sanjay		
S.Gowtham		
R.Pawn Kumar	Button Operated Gear Changing System In Two Wheeler	International
P.Manoj		
T.Ganesh Murthy		
T.Rubakeswaran	Prepartinadndthema conductivity Enhancemnt of faty Acid /SIO2 Nano pcm for passive thermal production	International
P.Prasanna Kumar		
Y Mohammed Nalifudeen		
M.Vishal	Machine Learning Based Automatic Detection On Vehicle Battery And Diesel Lifespan Prediction System	International
B.Abishekraja		
A.Rubaneshwaran		
D.AsirvathSekar	Efficent Auditing Scheme Forsecure Data Storage And Decentralisation Using Fog Cloud Computing	International

Alumni Reflections



Mr. Manobalaji S
BATCH 2007-2011
Managing Director
Sri Balaji Industries

I am grateful and satisfied to have been a student at MCET. Our Automobile Engineering department boasts excellent laboratories equipped with state-of-the-art machines and models, facilitating easy comprehension of the subject matter for students. The staff, with their nurturing care and active involvement, played a pivotal role in shaping us into successful engineers.



Mr. Sivakumar.V
BATCH - 2008-2012
Deputy Manager
Mahindra and
Mahindra, Chennai

The phrase "College is what you make of it" suggests that individuals bear full responsibility for the outcome of their college experience, whether it be success or failure. However, in my case, MCET provided immense support, empowerment, and emphasized the development of a diverse range of skills crucial for becoming a successful Automobile Engineer. Throughout my time at MCET, I had the opportunity to learn from every member of the department, and I cherished every moment of it.

Editorial Board :

Editor : K R Ranjith Assistant Professor/Auto

Student Coordinator:Mr.G.Sivakumaran (21BAU304)

S Dhanush Narayanan (727621BAU009)

S Mathesh(727621BAU012)

