

OFFICE OF DEAN RESEARCH & INNOVATION 2023-24

R & I Newsletter

Sep - Nov 2023
Volume 1 ♦ Issue 2



EDITOR:
DR.S.RAMAKRISHNAN, DEAN R&I
CO-EDITORS:
Dr. B. Bala Vijaya Priya, AP, S&H
Ms. G. Keerthika, AP, IT
Dr. J. Thimmia Raja, AP(SS), IT

Dr. Mahalingam College of Engineering & Technology, Pollachi

Vision and Mission of the Institute

Vision

We develop 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.

Vision and Mission of the Office of Dean Research & Innovation

Vision

To become a globally recognized hub of pioneering research and innovation, driving transformative advancements in engineering and technology for the betterment of society.

Mission

- Foster research excellence and innovation, by identifying potential IPR, offering financial support for filing, facilitating revenue sharing from consultancy collaborations, and rewarding faculty through fair incentives.
- Strengthen research interest groups, empower the student research council, and publish the R&I newsletter to promote and celebrate achievements in the domain of research and innovation.
- Disseminate knowledge through the publication of research, knowledge-sharing sessions, seminars, faculty development programs, workshops, inter and intra-college technical symposiums, conferences, and open-house exhibitions.
- Offer state-of-the-art research facilities and resources to facilitate interdisciplinary research projects, secure research funding, conduct research with industry partners, and carry out PhD works.
- Review Ph. D. scholars' progress, department R&I activities, ongoing externally funded projects, in-house R&D projects, and institute innovation council.

CONTENTS

S.No.	TOPICS	Page. No.
1.	FORMATION OF STUDENT RESEARCH COUNCIL	3
2.	TECHNOFETE 2023 (INTRA COLLEGE SYMPOSIUM)	6
3.	FORMATION OF RESEARCH INTEREST GROUP	10
4.	KNOWLEDGE SHARING SESSIONS CONDUCTED	14
5.	DISTRIBUTION OF RESEARCH INCENTIVE AMOUNT	16
6.	PATENTS GRANTED/PUBLISHED/FILED	17
7.	CONSULTANCY ACTIVITIES CARRIED OUT	20
8.	RESEARCH PUBLICATIONS	21
9.	CITATIONS	26
10.	Ph.D. SCHOLARS & SUPERVISORS	29
11.	NAAC EXPERTS TEAM VISIT	31
12.	FACULTY AWARDS & RECOGNITIONS	33
13.	STUDENTS' ACHIEVEMENTS	35
14.	R&I REVIEW MEETINGS	38
15.	NPTEL CERTIFICATION COURSES	61
16.	R&I HANDBOOKS	64
17.	R&I INITIATIVES	66

FORMATION OF STUDENT RESEARCH COUNCIL INAUGURATION- 1st NOV 2023


DR. MAHALINGAM
COLLEGE OF ENGINEERING AND TECHNOLOGY
 Udumalai Road, Pollachi, Coimbatore District 642003
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Office of Dean - Research & Innovation



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"STUDENT RESEARCH COUNCIL"

WE ARE HONORED TO HAVE YOU ALL
FOR OUR
GRAND INAUGURATION

 **01/11/2023**
 **3:45 PM - 4:30 PM**
 **CC HALL**


We welcome you all !


Empowering Students to Make a Difference...



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STUDENT RESEARCH COUNCIL


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 IV Year - Mechatronics


VICE PRESIDENT

A. PRAVEENA
 IV Year - Civil


SECRETARY

S.R. MANICKA PRABU
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JOINT SECRETARY

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 III Year - CSE


TREASURER

R. PRANESH
 III Year - IT


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M. MOHAL NAFEESHA
 I Year - Civil

Empowering Students to Make a Difference...



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FORMATION OF STUDENT RESEARCH COUNCIL - 1st NOV 2023
List of SRC Office Bearers for the Academic Year 2023 - 2024

S.No.	Name	Department	Year	Position
1	S. B. Pranavkumar	Mechatronics	IV	President
2	A. Parveena	Civil	IV	Vice President
3	S. R. ManickaPrabu	Mechanical	III	Secretary
4	V. Subashini	ECE	III	Joint Secretary
5	G. Srihari	CSE	III	Joint Secretary
6	R. Pranesh	IT	III	Treasurer
7	R. Subhashini	Auto	II	Executive Member
8	P. Prajith	CSE	II	Executive Member
9	Mohamed Faizil	Mechanical	II	Executive Member
10	V. Uthayakumar	IT	II	Executive Member
11	K. Magudeshwaran	AIDS	I	Executive Member
12	M. Momalnafeesha	Civil	I	Executive Member



FORMATION OF STUDENT RESEARCH COUNCIL - 1st NOV 2023

The Student Research Council (SRC) is a student organization, partially run by students with the support of the SRC Coordinators and faculty advisors. The SRC encourages the students to organize Conferences, workshops, Exhibition, Innovative projects Expo, Hackathon and Industry Experts talk, also encourages the students to participate in external events like paper presentation, Innovative projects expo, Hackathon and consultancy.



TECHNOFETE 2023: Intra College Technical Symposium

Date: 06 November 2023 Time: 9:00 a.m. Venue: CC Hall, MCET



Day -1: Inauguration Day - 06 Nov. 2023

Welcome address : Dr. P. Govindasamy, Principal, MCET
Chief Guest : Mr. Hari Prasad, Founder & CEO, Beyond Sustainability

Program Description : Dr. S. Ramakrishnan, Dean R & I

Day - 2 Valediction Day - 07 Nov. 2023

Felicitations : Dr. C. Ramaswamy, Secretary, MCET
Chief Guest : Mr. M. Siddharth, Manager (Operations) TIME, Coimbatore

Special Awards

Best Emerging Association Award – IGNITE- First Year S&H
Outstanding Events Organizers Award - AVERA - EEE Dept.
Outstanding Performance Award - INVICTUS - AIDS Dept.

Total Events: 21

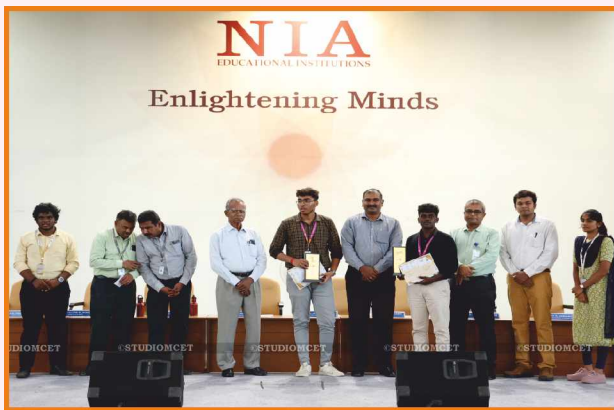
First Prize: Rs.1500/- Second Prize- Rs.750/- Third Prize- Rs.500/-

Total amount for Prize and Shields- Rs.1,05,700/-

TECHNOFETE 2023: Intra College Technical Symposium

Technofete '23 Schedule - 06 - 11 - 2023

S. No.	Event Title	Organizing Team	Venue	Timing	Date	Slot
1.	Civiathlon	Beavers (CIVIL)	Civil Lab	11:30 am - 4:30 pm	06.11.2023	1
2.	Techtales	Invictus(AIDS)	C - 318	11:30 am - 1:00 pm 3:00 pm - 4:00 pm	06.11.2023	1 & 2
3.	Technical Quiz	Ignite (S&H)	NPT HALL 12	11:30 am - 1:00 pm	06.11.2023	1
4.	Circuitry	Avera (EEE)	EEE Seminar Hall	2:00 pm - 4:30 pm	06.11.2023	2
5.	Codecluecrew	Infobee (IT)	A - 523	2:00 pm - 4:30 pm	06.11.2023	2
6.	Paper Presentation	Mechanical (MECH)	Dept. Library	2:00 pm - 4:30 pm	06.11.2023	2
7.	Paper Presentation	Digiflash (CSE)	Dept. Library	2:00 pm - 4:30 pm	06.11.2023	2
8.	Paper Presentation	Spectrum (ECE)	C - 308	2:00 pm - 4:30 pm	06.11.2023	2
9.	Product Pitching	ScuderiaAves (AUTO)	A - 413	2:00 pm - 4:30 pm	06.11.2023	2
10.	Paper Presentation	Ignite (S&H)	NPT HALL 1	2:00 pm - 4:30 pm	06.11.2023	2



TECHNOFETE 2023: Intra College Technical Symposium Technofete '23 Schedule - 07-11-2023

S. No.	Event Title	Responsible Team for Conducting	Venue	Timing	Date	Slot
1.	Project presentation	Avera (EEE)	Dept. Library	9:00 am - 12:00 pm	07.11.2023	3
2.	Project Presentation	Infobee (IT)	Dept. Library	9:00 am - 12:00 pm	07.11.2023	3
3.	Syntax smack down	Digiflash(CSE)	C-127	9:00 am - 12:00 pm	07.11.2023	3
4.	Mechmania	Mechanical (MECH)	Mechanical Seminar Hall	9:00 am - 12:00 pm	07.11.2023	3
5.	Ode To Code	Spectrum (ECE)	C - 432	9:00 am - 1:00 pm	07.11.2023	3
6.	Project Presentation	ScuderiaAves (AUTO)	A - 415	9:00 am - 12:00 pm	07.11.2023	3
7.	Treasure Heist	Clarentz (AIML &CYBER)	C - 302	9:00 am - 12:00 pm	07.11.2023	3
8.	Ideathon	IEEE	CS Hall	9:00 am - 12:00 pm	07.11.2023	3
9.	Poster presentation	Ignite (S&H)	NPT HALL 12	9:00 am - 12:00 pm	07.11.2023	3
10.	Case study		NPT HALL 1	9:00 am - 12:00 pm	07.11.2023	3
11.	TechnicalQuiz	EIE	A - 413	9.00 am - 12.00 pm	07.11.2023	3

TECHNOFETE 2023: Intra College Technical Symposium Snapshots of the Inauguration &Valediction programs



TECHNOFETE 2023: Intra College Technical Symposium Snapshots of the Inauguration & Valediction programs



TECHNOFETE 2023: Intra College Technical Symposium





TECHNOFETE 2023: Intra College Technical Symposium



FORMATION OF RESEARCH INTEREST GROUP(RIG) KEY FEATURES OF RIG

- Knowledge Sharing** : RIGs facilitate the exchange of knowledge and expertise among members through seminars, workshops, conferences, and publications.
- Research Meetings** : Members typically meet regularly to discuss research findings, share insights, and plan collaborative projects.
- Collaboration** : Members often engage in joint research projects, grant applications, and other collaborative activities related to their shared research interests.
- Networking** : RIGs provide opportunities for networking and building professional relationships within the field.
- Research Advancement** : These groups can help advance research in a particular area by pooling resources, sharing data, and promoting innovative ideas.
- Mentorship** : Some RIGs may offer mentorship opportunities, especially for early-career researchers, to support their growth and development in the field.

Research Interest Group - Single Point Coordinators

S.No.	Name of the Domain	SPoC
1.	Artificial Intelligence and Machine Learning	Dr. S. Ponni @ Sathya, AP(SG) / IT Dr. J. Bhavithra, AP(SG) / CSE
2.	Data Science	Dr. S. RajaRajeswari, AP / MCA Ms. C. Jayashree, AP(SS) /CSE
3.	Computer Network & IoT	Ms. R. Sherine Jenny, AP(SS) / ECE Mr. R. Muthubharathi R, AP(SS) / EEE
4.	Signal & Image Processing	Dr. S. Bharathi, AP(SG) / ECE Mr. T. Selvakumar, AP(SS) / AIDS
5.	Cryptography and Network Security	Mr. M. Sakthivadivel AP(SS) / Cy.Sec Ms.G.Saranya, AP / IT
6.	Power Electronics and Systems & Control and Automation	Dr. S. Anthony Jesudurai, AP(SG) / EEE Ms. V. Karpagam, AP(SS) / EIE
7.	RF & VLSI	Dr. R. S. Venkatesan, AP(SG) / ECE Mr. Sam Suresh. J, AP(SS) / EEE
8.	Materials, Design and Manufacturing	Dr. S. K. Ashok, AP(SG) / Auto Mr. M. Padmanaban, AP(SS) / Mech
9.	Energy Engineering & Alternative Fuels	Dr. S. Ayyappan, Asso. Prof. / Mech Mr. Ponmuruagan, AP(SS) / Auto
10.	Sustainability and Green Technologies	Dr. N. Natarajan, Asso. Pro / Civil Mr. Praveen Kumar AP / Civil
11.	Energy materials & Bio inspired materials	Dr. B.Saravanakumar,AP(SS)/Physics Dr. J. Johnson William, AP/Physics
12.	Fuzzy Mathematics - Applications	Dr. S. Monolisa, AP/Maths Dr. R. Premalatha, AP/Maths

Research Interest Group – 2023

S.No.	Name of the Domain	No.of Primary Members	No.of Auxiliary Members	No. of Interdisciplinary Members	Total
1.	Artificial intelligence and Machine Learning	30	27	24	81
2.	Data Science	21	20	17	58
3.	Computer Networks & IoT	14	26	28	68
4.	Signal & Image Processing	15	18	18	51
5.	Cryptography and Network Security	15	10	11	36
6.	Power Electronics and Systems & Control and Automation	25	4	15	44
7.	RF & VLSI	21	4	4	29
8.	Materials, Design and Manufacturing	31	12	5	48
9.	Energy Engineering & Alternative Fuels	8	6	5	19
10.	Geo-Environmental Engineering	5	2	4	11
11.	Energy materials & Bio inspired materials	7	4	11	22
12.	Fuzzy Mathematics - Applications	11	-	7	18
Total		203	133	149	485

Snapshots of the meeting with Research Interest Group - Single Point Coordinators - 31st OCT 2023



ACTIVITIES CONDUCTED BY RESEARCH INTEREST GROUP (RIG)

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Office of Dean - Research & Innovation
Artificial Intelligence and Machine Learning
Research Interest Group
Research Seminar



Ms. C. Devipriya,
Assistant Professor,
Department of CSE,
MCET, Pollachi

Research Seminar on "Privacy Preserving Data Mining
Analysis of Tools and Techniques"

Date and Time: 13.11.2023 Wednesday at 2.00pm
Venue: CSE Department Research Lab (C-102A)

All are cordially Invited !!!

Research Seminar



GPS Map Camera

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Office of Dean - Research & Innovation
Computer Network & IoT
Research Interest Group
Research Seminar



Ms. M Rajalakshmi
Assistant Professor
Department of AI&DS
MCET - Pollachi

Research Seminar on Cloud
Migration Strategies
24.11.2023 @ 2:30pm

Venue : C321A AI&DS Conference Hall

All are Cordially Invited !!!

Research Seminar



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Office of Dean - Research & Innovation
Energy and Bio Materials Research Group
Research Seminar



Dr. B. Saravankumar
Asst. Prof (SS) Physics,
Dept. of S&H
Dr. Mahalingam College of
Engineering and Technology
Pollachi

Bismuth Based Nanostructured
Materials for Energy Storage Applications

25.11.2023 @ 02.00 pm
Venue: A322 - SH Seminar Hall

All are cordially Invited !!!

Research Seminar




ACTIVITIES CONDUCTED BY RESEARCH INTEREST GROUP (RIG)

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Office of Dean - Research & Innovation

Energy Engineering & Alternative Fuels
"Knowledge sharing session"

 **M. Prabhuraj**
Assistant Professor
Department of EEE
MCET - Pollachi

Importance of Energy Auditing
25.11.2023 @ 2:30PM
Venue: A15 Seminar Hall

All are cordially Invited !!!

Knowledge Sharing Session



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Office of Dean - Research & Innovation

Materials, Design and Manufacturing
Research Interest Group
Research Seminar

 **Dr. D. Nathan,**
Associate Professor,
Department of MECH
MCET - Pollachi

Research Seminar on Neural Networks as a
Prediction Tool
25.11.2023 @ 03:00 pm
Venue: Mechanical Department Conference Hall

All are cordially Invited !!!

Research Seminar



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Office of Dean - Research & Innovation

Power Electronics and Systems & Control and
Automation
Research Interest Group
Research Seminar

 **Dr. M. Kaliamoorthy**
Professor & Head
Department of EEE
MCET - Pollachi

Research Seminar on Understanding of IEEE
Transaction Papers on Power Electronics
25.11.2023 @ 2:30pm
Venue: C213 EEE Conference Hall

All are Cordially Invited !!!

Research Seminar



ACTIVITIES CONDUCTED BY RESEARCH INTEREST GROUP (RIG)

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Office of Dean - Research & Innovation
Sustainability and Green Technologies
Research Interest Group
Research Seminar



Dr. N. Natarajan
Associate Professor
Department of Civil Engineering
MCET, Pollachi

How to draft a journal paper?
23.11.2023 @ 2.30 pm
Venue: A222 Civil Engineering Conference Hall

All are cordially invited !!!

Research Seminar



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Office of Dean - Research & Innovation
Signal and Image Processing
Research Interest Group
Research Seminar



Mr. A. Puvirarasu
Assistant Professor ECE,
Sri Eshwar College of
Engineering
(Research scholar of
Dr.V.K.Sudha)

Defense Mechanism and Mitigation
Techniques for DoS & DDoS
Attacks in Wireless Sensor Network

25.11.2023 @ 02.00 pm
Venue: C30B- ECE Department office
All are cordially invited !!!

Research Seminar



Knowledge Sharing Sessions Conducted
Knowledge Sharing Session on Computational Mathematics

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OFFICE OF DEAN RESEARCH AND INNOVATION
DEPARTMENT OF SCIENCE AND HUMANITIES
KNOWLEDGE SHARING SESSION ON
COMPUTATIONAL MATHEMATICS



DATE: 16.09.2023
VENUE: IOT LAB (C 315)
TIME: 2.00PM

Resource person:
Mr.T. Muthukumar,
AP-Mathematics
Dr. MCET

Coordinators:
Dr. R. Ramesh, AP/Mathematics
K.Kalaiselvi, AP(SS)-Mathematics



STUDENT RESEARCH COUNCIL- INDUCTION PROGRAMME-19th SEP 2023



Knowledge Sharing Session on MATLAB - Signal & Image Processing Toolbox

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

Office of Dean Research & Innovation
MATLAB - SIGNAL & IMAGE PROCESSING TOOLBOX
Knowledge Sharing Session

 **SATURDAY**
23 September 2023

 **TIME**
2:30pm - 4:00pm

RESOURCE PERSON
Dr.R.Sudhakar
Hod/ECE



VENUE
Programming & IoT Project Lab (C315)



DISTRIBUTION OF RESEARCH INCENTIVE AMOUNT
Faculty R&I Consultancy Revenue Sharing Details

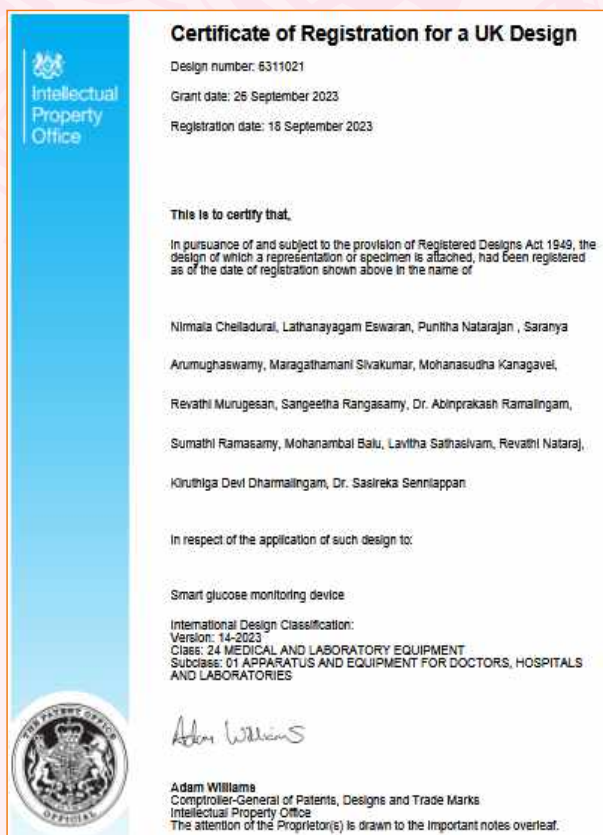
S. No.	Department	Amount Generated (Rs.)	Revenue Sharing to the Institution (60%) (Rs.)	Revenue Sharing (40%) (Rs.)			
				Faculty	Supporting Staff	MCET Office	Central Office
1.	Civil Engineering	1,25,200	75,120	37,560	7,512	2,504	2,504
2.	Electrical and Electronics Engineering	4,90,212	2,94,127	1,47,063	24,462	9,804	9,804
Total		6,15,412	3,69,247	1,84,623	31,974	12,308	12,308
Grand Total						Rs. 2,41,213	

NPTEL & NITTT – Department wise Reimbursement Details

S. No.	Department	Faculty Participation in NPTEL/NITTT		
		NPTEL	NITTT	Total (in Rs.)
1.	AI&DS	4,500	2,000	6,500
2.	AI&ML	1,000	3,000	4,000
3.	Automobile	5,000	8,000	13,000
4.	Civil	9,000	4,000	13,000
5.	CSE	7,500	7,000	14,500
6.	ECE	11,200	13,000	24,200
7.	EEE	7,100	1,000	8,100
8.	EIE	1,000	-	1,000
9.	IT	14,500	16,000	30,500
10.	Mechanical	12,500	5,000	17,500
11.	MCA	1,000	-	1,000
12.	S&H	9,500	10,000	19,500
Total		83,800	69,000	1,52,800

PATENTS GRANTED/PUBLISHED/FILED
Details of the Patent Rights Granted (SEP-NOV 2023)

S.No.	Application No.	Name of the Inventors & Department	Title of the Patent & Type of IPR
1.	6311021	N. Punitha & S. Saranya Assistant Professors, S & H	"Smart Glucose Monitoring device" International, SEP 2023
2.	202041039231	B. Saravanakumar, Assistant Professor (SS), S & H	Zinc oxide/carbon nanocomposite process of preparation and thereof.



DETAILS OF THE PATENTS PUBLISHED – (SEP-NOV 2023)

S. No.	Application No.	Name of the Inventors & Department	Title of the Patent, Type of IPR, Month &Year of Publication
1	202341052802 A	Mr. T. Vijayakumar, Assistant Professor, AI&DS	"Gripper Block For Coiled Tubing Injector With Variable Tubing Size Capability For Moving Elongated Objects", IPR, India, Sep 2023.
2	202341052055	S. Esther Nowroji, Assistant Professor, AI&DS	"Blockchain And Cloud Computing Based Criminal Digital Forensic Investigation And Prediction Using Artificial Intelligence And Machine Learning Algorithms" IPR, India, Sep 2023.
3	202341059794 A	Dr. K. Sakthi Vadivel, Assistant Professor, Automobile Engineering	"Internal Combustion Engine Using Alternative Fuel Injection System And Method Thereof" IPR, India, Sep 2023.
4	202341065484	Dr. J. Bhavithra, Ms. S.C. Lavanya Mr. T. Kanagasabapathy, Ms. C. Devipriya, Ms. B. Suganya Mr. P. BoopathiRajan, Ms. S. Devilavanya, Ms. J. Santhiya Assistant Professors, CSE	"Development and Implementation of a Smart Transportation Management System Based on IOT and the Cloud" International, OCT 2023.
5	202341055636 A	Dr. V. Lakshminarayanan Professor - EEE & HoD i/c - EIE	"Automated waste bin management Through IOT and AI for efficient waste Collection", IPR, INDIA, SEP 2023.
6	20202300000000	Dr. K. Umamaheswari Assistant Professor (SG) EEE	"A System and Method For Battery Management for Green Energy Storage", IPR, India, Sep 2023
7	202241000000	Mr. R. Muthubharathi, Assistant Professor (SS) Dr. L. Chitra Associate Professor & HoD i/c (First Year)	"Solar Based Portable Juice Maker", IPR, INDIA, SEP 2023
8	202341061619	Mr. R. Prabhu Assistant Professor, IT	"System for Dynamic Network Routing Optimization", IPR, INDIA, SEP 2023
9	202341064058	Dr. R. Ramesh Assistant Professor(SS), S&H	"Hybrid Fixed Point-Theoretic Models for Robust Differentiation and Integration in Multidimensional spaces", IPR, INDIA, OCT 2023
10	202341064057	Dr. R. Ramesh Assistant Professor(SS), S&H	"Mathematical Modelling of Bubbly Flow Surface Interactions in Multiphase System", IPR, INDIA, OCT 2023

S. No.	Application No.	Name of the Inventors & Department	Title of the Patent, Type of IPR, Month &Year of Publication
11	202341059004	Dr. R. Ramesh Assistant Professor(SS), S&H	"Method and system for Modeling Hesitant Bipolar-Valued Fuzzy Graphs in Mathematics" IPR, INDIA, OCT 2023
12	202321064054	Dr. R. Ramesh Assistant Professor(SS), S&H	"Real Time adaptive Stochastic Differential Equation inventory Model for supply chain management", IPR, INDIA, OCT 2023
13	202341042928	Dr. V. Umadevi Assistant Professor(SS), S&H & Dr. V. ReginaDelcy Assistant Professor, S&H	"An Arrangement for Detecting surface Defects of Engine Piston and Method Thereof" IPR, INDIA, SEP 2023
14	394424-001	Dr. M. Jayaraj / Mech Dr. N. Shanmuga Sundaram/Mech Mr. K. Vijayakkannan/ Mech Mr. S. V .Gurupranes/ Mech Mr. S. Gnanakumar/ Mech Dr. RamaThirumurugan / Mech	Coconut Deshelling Machine

DETAILS OF THE PATENTS FILED– (SEP-NOV 2023)

S.No.	Patent Title	Name of the Faculty	Department & Date of filing
1	Agricultural and Forestry Machinery Use	Ms. C. Devipriya & Mr. V .Eswaramurthy Assistant Professor	CSE DEC 2023
2	Three wheeled electric vehicle, Foldable keyboard for portable devices& Food and beverage serving trolley	Dr. J. Thimmia Raja Assistant Professor (SS)	IT OCT 2023
3	Portable Image And Text Recognizing Device	Dr. G. Anupriya, Professor & HoD Ms. C. Jayashree, AP(SS) Dr. M.L.Valarmathi, Professor Dr. J. Bhavithra, AP(SG) Ms. M. Gomathi, AP Ms. G.Deepa, AP Ms. A. Jayalakshmi, AP	CSE NOV 2023

CONSULTANCY ACTIVITIES CARRIED OUT DURING SEP-NOV (2023)

S. No.	Name of the Faculty/Consultants	Date	Department	Name of consultancy Project/Corporate Training Program	Consulting / Sponsoring Agency
1	Mr. A. Manikandan	01-Sep-23	Civil Engineering	Compression test of concrete cubes	Baya Constructions
2				Testing of Bricks	
3	Mr. P. S. Sathish Kumar Mrs. S. Suthaviji			Rebar Test	The Commissioner, Pollachi Municipality, Pollachi
4	Dr. M. Kaliamoorthy	02-Sep-23	Electrical and Electronics Engineering	Firmware for 5.5 kw PMSM motor with load testing in dyno setup.	Embdes Engineering Solutions Pvt Ltd
5	Mr. S. Krishnakumar Mr. A. Praveen Kumar	05-Sep-23	Civil Engineering	Inspection of Road and Drainage facilities.	Mr.D.Sundhararajan, Saralpuram Layout, Pollachi
6	Mr. S. Krishnakumar Ms. R. Anuja	09-Sep-23		Inspection of Road and Drainage facilities at Akilandapuram layout, Pollachi.	Mr.C.Selvaraj, Coimbatore Manager & Commissioner(I/c)
7	Dr. K. Srinivasan Ms. R. Anuja	11-Sep-23		Design of building structural drawings	The Commissioner, Pollachi Municipality, Pollachi
8	Mr. P. S. Sathish Kumar Mrs. S. Suthaviji	25-Sep-23		Compressive strength of concrete cubes.	
9	Mr. P. S. Sathish Kumar Mr.M. Sudharsanan	25-Sep-23		Field Inspection for Grade beam	
10	Mr. A. Manikandan	04-Nov-23			Testing of Bricks
11	Dr. L. Chitra Mr. Saravanraj	15-Nov-23	Electrical and Electronics Engineering	Energy Audit for the period 27.10.23-28.10.23	Mahindra Holidays & Resorts India Limited
12	Dr. L.Chitra Mr. Saravanraj	15-Nov-23		Energy Audit for the period 29.10.23	Mahindra Holidays & Resorts India Limited
13				Energy Audit for the period 31.10.23	
14	Mr. S. Syed Masoodhu Mr. A. Praveen Kumar	23-Nov-23	Civil Engineering	Laboratory Soil Investigation	Senior Section Engineer(P.Way), Southern Railway, Podanur
15	Mr. P. S. Sathish Kumar Mrs. S. Suthaviji	28-Nov-23		Compressive strength of concrete cubes	The Commissioner, Pollachi Municipality, Pollachi
16	Dr. M. Mariappan Mr. P. S. Sathish Kumar			Field inspection of Roof Beam & Slab	

RESEARCH PUBLICATIONS

1. Balaganesh, P., Natarajan N., Vasudevan M., "Flow Behaviour Of Wastewater Contaminants In Compost With Manufactured Sand (M-Sand) Under Layered Conditions", *Ingenta Connect-Journal of Solid Waste Technology and Management*, ISBN: 1088-1697 Vol.144, October 2023, DOI: <http://doi.org/10.5276/jswtm/iswmaw/492/2023.231>, IF:0.174, Indexing: Scopus.
2. Balaganesh P., Natarajan N., Vasudevan M., "A Critical Overview On Recent Avenues In Co-Composting Of Animal Manure With Other Organics Of Varying Toxicity", *Ingenta Connect-Journal of Solid Waste Technology and Management*, ISBN:1088-1697, October 2023, DOI: <http://doi.org/10.5276/jswtm/iswmaw/492/2023.231>, IF:0.174, Indexing: Scopus.
3. Senthil Madasamy N., Eldho K J., Senthilnathan T., Deny J., "A Novel Back-Propagation Neural Network for Intelligent Cyber-Physical Systems for Wireless Communications", *Taylor & Francis-IETE Journal of Research*, ISBN:0377-2063, September 2023, DOI: <https://doi.org/10.1080/03772063.2023.2173669>, IF:1.87, Indexing: SCIE.
4. Varun Kumar T., Jayaraj M., Nagaprasad N., Jule Leta Tesfaye, Shanmugam R., Krishnaraj R., "An examining the static and dynamic mechanical characteristics of milled ramie root reinforced polyester composites", *Scientific Reports*, ISBN:2045-2322, October 2023, DOI: <https://doi.org/10.1038/s41598-023-44088-5>, IF:4.6, Indexing: Q1, SCIE.
5. Akhil U V., Radhika N., Ramkumar T., Pramanik A., "Effect of graphene on the tribological behavior of Ti6Al6V2Sn/Gn composite produced via microwave sintering", *Elsevier - International Journal of Lightweight Materials and Manufacture*, ISBN:25888404, October 2023, DOI:<https://doi.org/10.1016/j.ijmm.2023.10.001>, IF:5.59, Indexing: Q1, SCIE
6. Bharathiraja R., Ramkumar T., Selvakumar M., "Studies on the thermal characteristics of nano-enhanced paraffin wax phase change material (PCM) for thermal storage applications", *Elsevier-Journal of energy storage*, ISBN:2352152X, October 2023, DOI:<https://doi.org/10.1016/j.est.2023.109216>, IF:8.9, Indexing: Q1, SCIE.
7. Ramkumar T., Nathan D., Selvakumar M., Vigneshkumar V., Narayanasamy P., "Printing High Strength High Elongation Al4043 Alloy using UNS A94043 welding wires through wire arc additive manufacturing", *Springer-Journal of Material Engineering and Performance*, ISBN: 1059-9495, October 2023, DOI: <https://doi.org/10.1016/j.est.2023.109216>, IF:2.03, Indexing: SCIE.
8. Johnson William J., Manohara Babu I., Muralidharan G., "Microwave Energized Preparation and Electrochemical Performance of Ag added NiO/CeO₂ Ternary Nanocomposites for Energy Storage Applications", *Elsevier - Surfaces and Interfaces*, ISBN: 2468-0230, September 2023, DOI:10.1016/j.surfin.2023.103361, IF:6.13, Indexing: Q1, SCIE.
9. Saravanakumar B., Johnson William J., Manohara Babu I., Muralidharan G., "Microwave-aided fabrication of calcium-substituted DyMnO₃ nanocomposites as prospective battery-type electrode material for supercapacitors", *Elsevier - Materials Science & Engineering B*, ISBN: 0921-5107, October 2023, DOI: <https://doi.org/10.1016/j.mseb.2023.11684>, IF:3.40, Indexing: Q1, SCIE.
10. Vidhya R., "Feminizing The war Novel: A Study of Half of A Yellow Sun", *Journal of Language and Linguistic Studies*, ISBN: 0974-6846, September 2023, Indexing: UGC.
11. Muthukumar T., Jayakumar T., Prasantha Bharathi D., "Numerical Solution of Fuzzy Delay Differential Equations by Fifth Order Runge-Kutta Method", *Journal of University of Shanghai for Science and Technology*, ISBN: 1007-6735, October 2023, DOI: <https://www.jetir.org/papers/JETIR2310194.pdf>, IF: 7.95, Indexing: UGC.

12. Bhavithra Janakiramana, Prabu S., SenthilVadivu M., Dhineshkumar K., "Detection of ovarian follicles cancer cells using hybrid optimization technique with deep convolutional neural network classifier", *Journal of Intelligent & Fuzzy Systems*, ISBN: 1875-8967, September 2023, DOI: <https://doi.org/10.1016/j.mseb.2023.116684>, IF:2, Indexing: SCIE.
13. Uma Maheshwari G., Sathish Kumar G., Premalatha K., Rajesh Kanna P., Vijaya G., Nivaashini M., "Differential Privacy scheme using Laplace Mechanism and Statistical Method Computation in Deep Neural Network for Privacy Preservation", *Engineering Applications of Artificial Intelligence*, ISBN:1873-6769 November 2023, DOI: <https://doi.org/10.1016/j.engappai.2023.107399>, IF:8, Indexing: Q1, SCIE.
14. Saravanakumar N., Manivannan S., Rajalashmi K., "DDR Based PWM technique for fixed frequency three-phase to variable frequency K-phase power conversion using QZSDMC", *Journal of Engineering Research*, ISBN:2307-1877, November 2023, DOI: <https://doi.org/10.1016/j.jer.2023.11.003>, IF:1, Indexing: SCIE.
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16. Venkatesan R S., Manjunathan, Balamurugan, Lalitha Sekar, "Design of high efficient low power static logic circuit using SG FinFET", *International Journal of Electronics*, ISBN: 0020-7217, December 2023, DOI: <https://doi.org/10.1080/00207217.2023.2261081>, IF:1.2, Indexing: SCIE.
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18. PONNI P., Prabha D., "An Optimized Bagging Learning with Ensemble Feature Selection Method for URL Phishing Detection", *Journal of electrical engineering and technology*, ISBN:1975-0102 November 2023, DOI: <https://doi.org/10.1007/s42835-023-01680-z>, IF:1.9, Indexing: SCIE.
19. Jayaraj M., Sivakumar R., Shanmugasundram N., Hariharan K., Rama Thirumurugan, "Investigation of acoustic, mechanical, thermal, and moisture properties of milled alkali-treated coconut tree secondary flower leaf stalk fiber-reinforced polymer composite", *Polymer composites*, ISBN:0272-8397, December 2023, DOI: <https://doi.org/10.1002/pc.28054>, IF:3.53, Indexing: Q1, SCIE.
20. Selvakumar T., Thangavilou K., Hariharan R., "Breast Cancer Classification Using Synthesized Deep Learning Model with Metaheuristic Optimization Algorithm", *Diagnostics*, ISBN:2075-4418, September 2023, DOI: <https://www.mdpi.com/2075-4418/13/18/2925>, IF: 3.99, Indexing: SCIE.
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23. Karthic S., Suhana S., Yuvaraj N., Sumathi T., "Improving Performance of Intrusion Detection Using ALO Selected Features and GRU Network", *Springer-SN Computer Science*, October 2023, DOI: <https://link.springer.com/article/10.1007/s42979-023-02311-0>, IF:3.78, Indexing: Scopus.

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1. Selvanayakam A., "Design of an Intrusion Detection and Repellant System For Wild Animals", (ISBN: 9786206845195), LAMBERT Academic Publishing, United Kingdom, December 2023, DOI: <https://www.intechopen.com/books/11190>. Indexing: Scopus.
2. Selvanayakam A., Subhashini N., "Smart Industry Monitoring and Controlling System Using IOT", (ISBN: 9786207447930) LAMBERT Academic Publishing, November 2023, DOI: <https://www.morebooks.shop/shop-ui/shop/book-launch-offer/c198a364e3b79cc3224353658a19a4bde415b645> Indexing: Scopus.
3. Selvanayakam A., Loganathan N., Aarthi N., "Monitoring and Control of Smart Substations", (ISBN: 9786207447169), LAMBERT Academic Publishing, December 2023, DOI: <https://www.morebooks.shop/shop-ui/shop/book-launch-offer/c198a364e3b79cc3224353658a19a4bde415b646>, Indexing: Scopus.
4. Senthil Kumar L., Ramesh R., Muthukumar T., Monolisa S., "Matrices and Calculus", (ISBN 9788196404864), G. Balaji Publishers.
5. Vishalakshi K., Punitha N., B. Maheswari, Kalaiselvi K., "Linear Algebra and Infinite Series" (ISBN 9788196404857), G. Balaji Publishers.
6. Periasamy P. A., Chithra N., Shanmugapriya A., "Chemistry for Civil, Mechanical and Electrical Sciences", (ISBN 9789196636920), Arutchelvar N. Mahalingam Translation Institute.
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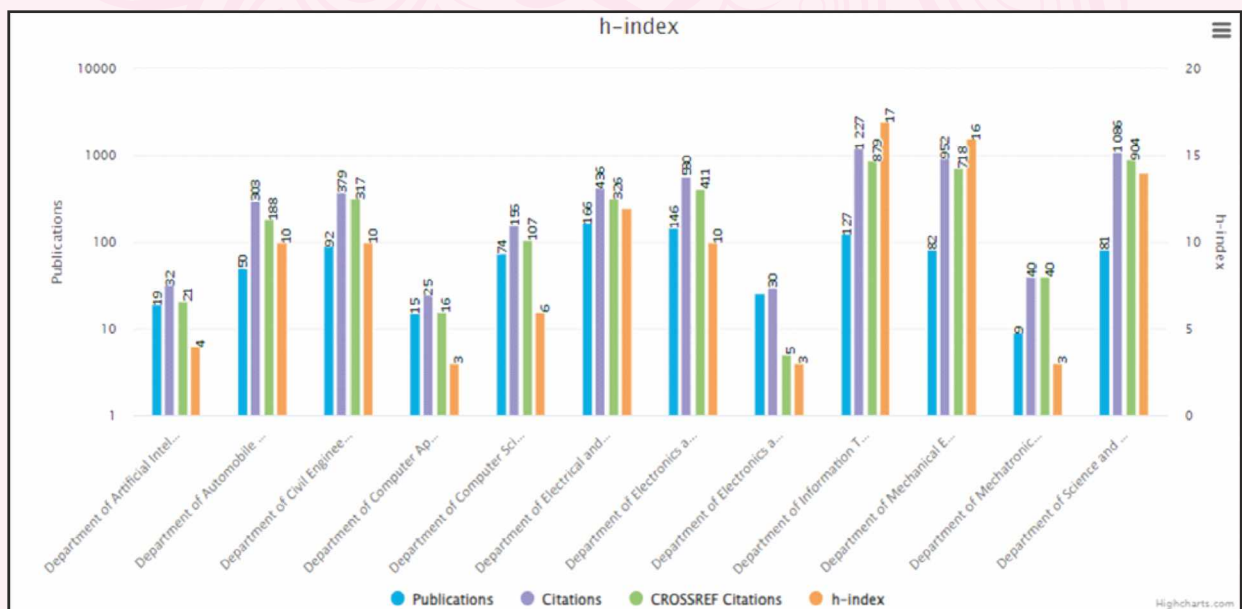
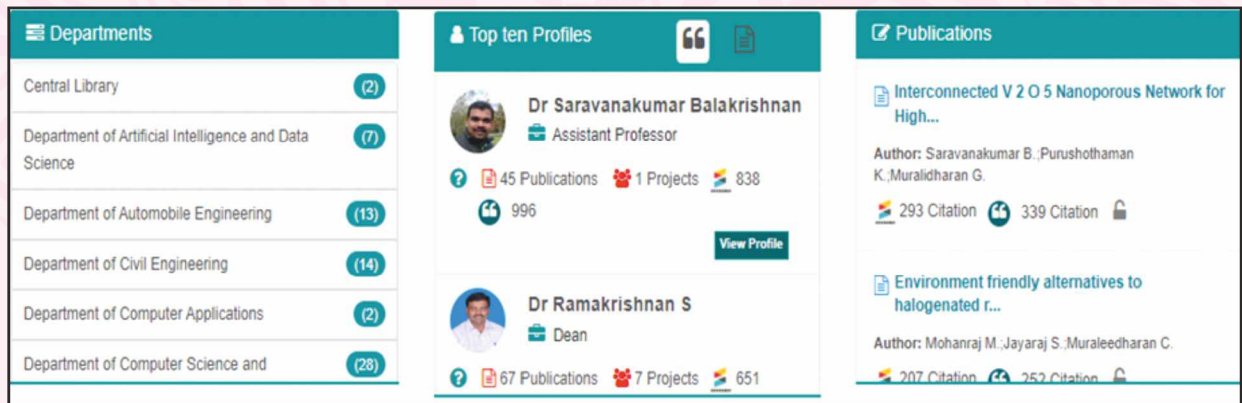
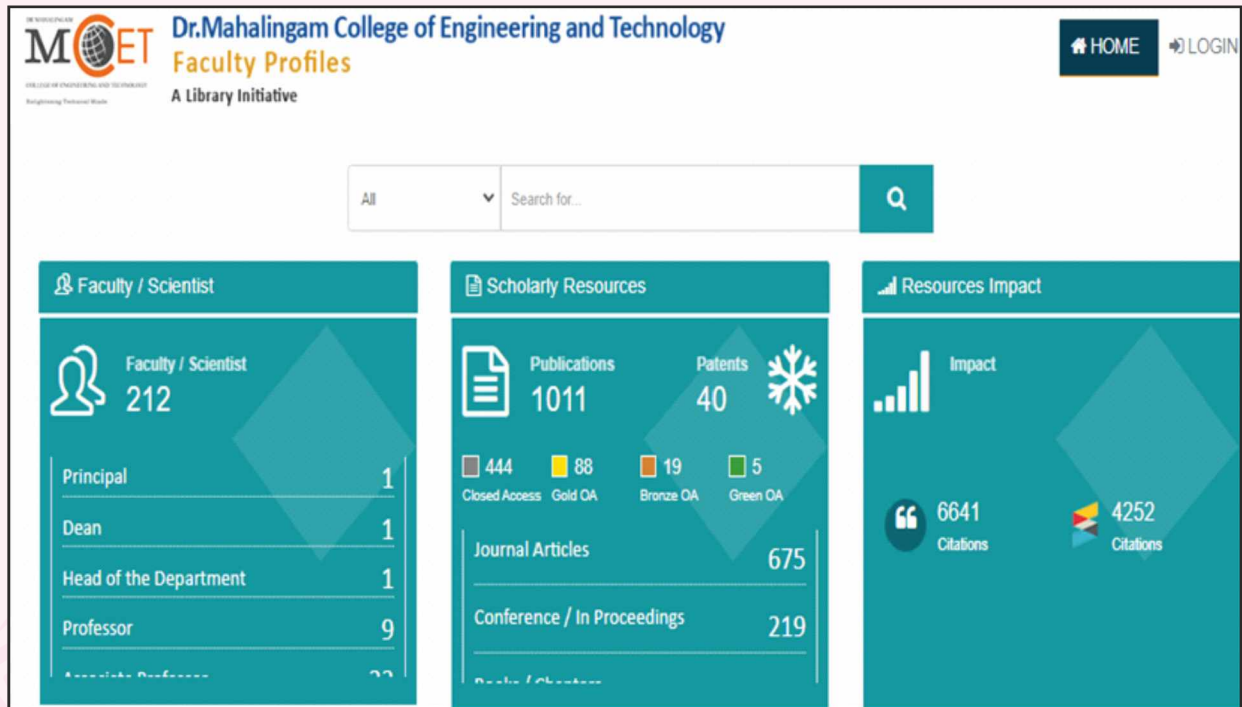
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3. RamPrasath J., Praveen Sundara Kumar N., Krishnaraj N., "Machine Learning-Based Malicious Threat Detection and Security Analysis on Software-Defined Networking for Industry 4.0", in the book titled "Wireless Communication in Cyber Security", John Wiley & Sons, pp. 79-104, Pages:25, ISBN: 9781119910435, October 2023. Indexing: Scopus.

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2. Gokila C., "Coding of chipless RFID tag using multiresonator", IEEE-AICTE Sponsored International Conference on Information and Communication Engineering 2023, Care college Trichy, ISBN: 978-93-5915-670-5, 27.09.2023-28.09.2023.
3. Sherine Jenny R., Sudhakar R., "VLSI Implementation of Secured S-Box Design for Light-Weight Block Ciphers in Low Area Applications", 3rd International Conference on Intelligent Vision and Computing (ICIVC 2023), National Institute of Technology Agartala, 26-11-2023, Indexing: Scopus.
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6. Saranya K., "Facial Detection and Recognition-Based Smart System on Feature Extraction Using Raspberry Pi", 3rd International Conference on Innovation mechanisms for Industry Applications (ICIMIA- 2023)", Dayananda Sagar College of Engineering Bengaluru, 21-12-2023 to 23-12-2023, Indexing: Scopus.

CITATIONS



CITATIONS



Rankings for Scientist
University, Subject,
Country, Region, World

**World Scientist and
University Rankings 2024**


Dr Mahalingam College of Engineering and Technology

S Ramakrishnan

		In Dr Mahalingam College of Engineering and Technology (20)	In India (79,482)	In Asia (436,500)	World (1,443,825)
		Scores			
		Rankings			
	Total H	27	#1 🏆	#6,153	#47,490
	Last 6 year H	21	#1 🏆	#5,615	#46,734
	Last 6 year H / total H	0.778			
	Total i10	58	#1 🏆	#5,843	#40,999
	Last 6 years i10	45	#1 🏆	#4,836	#37,201
	Last 6 years i10 / Total i10	0.776			
	Total Citation	2,616	#1 🏆	#7,244	#55,477
	Last 6 years Citation	1,583	#1 🏆	#6,483	#53,247
	Last 6 years Citation / Total Citation	0.605			
	Others * Edit Form	-	-	-	-
Professor & Head of Information Technology, Dr. Mahalingam College of Engineering and Technology Texture Classification Image Watermarking Image Encryption Wavelets SVD					

www.adscientificindex.com

Date : 23.01.2024 * Source and Methodology: <https://www.adscientificindex.com/scientist/s-ramakrishnan/4351802>




Rankings for Scientist
University, Subject,
Country, Region, World

**World Scientist and
University Rankings 2024**

Dr Mahalingam College of Engineering and Technology


B Saravanakumar

		In Dr Mahalingam College of Engineering and Technology (20)	In India (79,482)	In Asia (436,500)	World (1,443,825)
		Scores			
		Rankings			
	Total H	19	#2	#12,913	#88,265
	Last 6 year H	18	#2	#8,614	#65,914
	Last 6 year H / total H	0.947			
	Total i10	24	#3	#16,498	#105,683
	Last 6 years i10	24	#3	#11,288	#78,881
	Last 6 years i10 / Total i10	1.000			
	Total Citation	1,573	#2	#12,440	#87,514
	Last 6 years Citation	1,069	#2	#10,513	#78,503
	Last 6 years Citation / Total Citation	0.680			
	Engineering & Technology	#1 🏆 (7) *	#3,719 (17,723) *	#25,851 (77,352) *	#85,587 (204,960) *
	Metallurgical & Materials Engineering *	#1 🏆 (1) *	#357 (1,014) *	#2,563 (5,284) *	#6,936 (14,083) *

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Date : 23.01.2024 * Source and Methodology: <https://www.adscientificindex.com/scientist/b-saravanakumar/4351803>

CITATIONS





Rankings for Scientist
University, Subject,
Country, Region, World

**World Scientist and
University Rankings 2024**

Dr Mahalingam College of Engineering and Technology

T RamKumar


		In <u>Dr Mahalingam College of Engineering and Technology (20)</u>	In <u>India (79,482)</u>	In <u>Asia (436,500)</u>	World (1,443,825)	
  <p>Dr.Mahalingam College of Engineering and Technology Powder Metallurgy Nano Composites Surface Engineering Tribology Corrosion </p>	Scores	Rankings				
	Total H	18	#3	#14,978	#99,632	#510,392
	Last 6 year H	17	#3	#10,010	#74,013	#359,446
	Last 6 year H / total H	0.944				
	Total i10	26	#2	#15,455	#99,770	#494,773
	Last 6 years i10	25	#2	#10,867	#76,340	#360,531
	Last 6 years i10 / Total i10	0.962				
	Total Citation	990	#5	#18,765	#123,154	#639,854
	Last 6 years Citation	946	#3	#12,037	#87,558	#433,569
	Last 6 years Citation / Total Citation	0.956				
Others * Edit Form		-	-	-	-	

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Date : 23.01.2024 *Source and Methodology: <https://www.adscientificindex.com/scientist/t-ramkumar/4351806>

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Profiles

- 


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Verified email at drmcet.ac.in
Texture Classification Image Watermarking Image Encryption Wavelets SVD

Cited by 2625
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... and Communication Engineering, Dr. Mahalingam college of engineering & technology ...
VLSI & Embedded system RF Communication Image processing

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- 

GURUNATHAN V
Assistant Professor, Dr. Mahalingam College of Engineering & Technology
Verified email at drmcet.ac.in

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Ph.D. SCHOLARS & SUPERVISORS



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**40 Scholars Registered for Ph.D.
January 2024 Session at Anna University**

							
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Ms.S. Devilavanya CSE	Ms.M.Gomathi CSE	Ms.S.Nandhini AI&DS	Mr.T.Vijaykumar AI&DS	Ms.S.Yamunadevi AI&ML	Ms.M.Kavitha AI&ML	Ms.J.Rini Angeline Vinshia/CYS	Mr.M.Vignesh ECE
							
Ms.S.Abirama sundari/ECE	Mr.A.Venkatesh EEE	Mr.J.Sam Suresh EEE	Ms.A.Suganya EEE	Ms.N.Aarthi EEE	Mr.K.Sasikumar Mech	Mr.S.Naveen Kumar Mech	Mr.J.Dinesh Kumar/Mech
							
Mr.M.Mahendran Auto	Mr.S.Mahalingam Auto	Ms.S.Suthaviji Civil	Mr.M.Sudharsanan Civil	Ms.S.Sharmila Civil	Ms.R.Anuja Civil	Ms.G.Kalpana Ext/AI&DS	Ms.A.Kousalya Devi Ext/ECE
							
Ms.P.Latha Ext/ECE	Mr.P.Sakthivel Ext/ECE	Ms.G.Sathya Ext/ICE	Ms.S.Kanagavalli Ext/ICE	Mr.S.P.Sundares waran,Ext/Mech	Mr.M.Navaneethan Ext/Mech	Mr.N.Kalingaraj Ext/Auto	Ms.T. Sankavai Ext/Civil-Full Time

Ext - External Scholar

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Ph.D. SCHOLAR & SUPERVISORS

Ph.D. Completed Scholar Details as on November 2023

S.No.	Name of the Department	No. of Completed Scholars
1.	Department of Automobile Engineering	4
2.	Department of Civil Engineering	3
3.	Department of Mechanical Engineering	7
4.	Department of Mechatronics	1
5.	Department of Information Technology	10
6.	Department of Computer Science and Engineering	8
7.	Master of Computer Applications	3
8.	Department of Electronics and Communication Engineering	8
9.	Department of Electrical and Electronics Engineering	19
10.	Department of Electronics and Instrumentation Engineering	2
11.	Department of Science and Humanities	12
Total		77

Ph.D. Ongoing Scholar Details as on November 2023

S.No.	Name of the Department	No. of Completed Scholars
1.	Department of Automobile Engineering	4
2.	Department of Civil Engineering	13
3.	Department of Mechanical Engineering	8
4.	Department of Mechatronics	2
5.	Department of Information Technology	13
6.	Department of Computer Science and Engineering	11
7.	Department of Artificial Intelligence and Data Science	3
8.	Department of Artificial Intelligence and Machine Learning	7
9.	Department of Electronics and Communication Engineering	16
10.	Department of Electrical and Electronics Engineering	14
11.	Department of Electronics and Instrumentation Engineering	4
12.	Department of Science and Humanities	14
Total		109

Ph.D. Supervisor Details as on NOV 2023

S.No.	Name of the Department	No. of Supervisors
1.	Department of Information Technology	6
2.	Department of Computer Science and Engineering	3
3.	Department of Electrical and Electronics Engineering	8
4.	Department of Electronics and Communication Engineering	5
5.	Department of Mechanical Engineering	7
6.	Department of Automobile Engineering	4
7.	Department of Civil Engineering	3
8.	Department of Artificial Intelligence and Data Science	2
9.	Department of Artificial Intelligence and Machine Learning	2
10.	Master of Computer Applications	1
11.	Department of Science and Humanities	5
Total No. of Supervisors		46

Research Centres and Supervisors

Research Particulars	Count
Number of Research centres	7
Number of Supervisors	46
Number of Completed Scholars	77
Number of Ongoing Scholars	109

NAAC Experts Team visit NAAC Experts Team visit to Office of Dean R&I



Criterion III: Research, Innovations and Extension Stall



FACULTY AWARDS & RECOGNITIONS

Participation of Faculty as Resource Person

S. No.	Name of the Faculty & Designation	Topic Delivered in the Event	Venue	Date of Guest Lecture program
1	Dr. S. Ramakrishnan, Dean R&I	Impacts of Homomorphic Encryption on the Past, Present and Future of Humanity	6 th Global Emerging Innovation Summit organized by International Innovation Research Network, Melbourne, Australia (Online) held during 29 th August- 2nd September 2023	31.08.2023
2	Ms.M.BhagavathiPriya, AP/CSE(AI ML)	Digital Image Processing	Online Guest Lecture - St. Mother Theresa Engineering College, Tuticorin	27.09.2023
3	Ms. C.Jayashree & Ms. G. Gayathri AP/CSE	Computational Thinking and Programming	One day Workshop - NGM College, Pollachi	13.09.2023
4	Ms. R.Vidhya, AP/S&H	Enunciate your thoughts	One day seminar for Secondary school students, TMT School, Senjerimalai	20.10.2023
5	Ms.N.Punitha, AP/S&H	Learn Math with Fun		
6	Dr. M. Mariyappan, AP/S&H	The successful landing of Chandrayan III on south pole of moon	Guest Lecture, GTN Arts College, Dindigul	13.09.2023
7	Dr. V. K. Sudha, Professor/ECE	"NBA Accreditation process for polytechnic" - "Criterion - IV Student's Performance "	FDP - Resource person, Govt. College of Tech., CBE - 641 013	20.12.2023 (AN)
8	Dr. B. Kannapiran Professor & Head - IQAC / ECE	"NBA Accreditation process for Polytechnic"- "Criterion -IV Student's Performance "		21.12.2023 (AN)

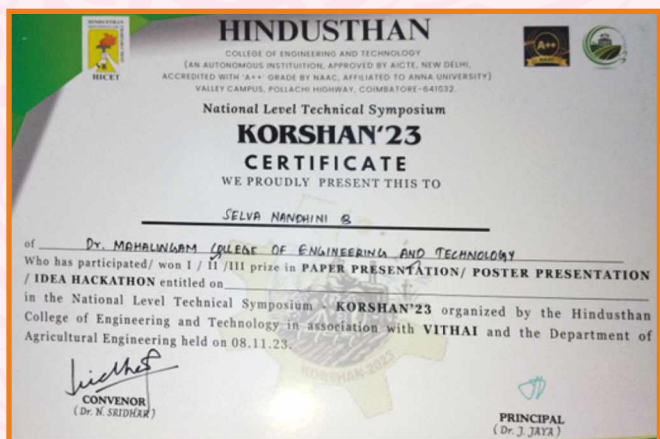
Details of Research Articles Reviewed by the Faculty

S. No.	Department	Name of the Faculty with Designation	Name of the Journal / Publisher	
1	ECE	Dr.R.Sudhakar Professor & Head	IEEE Access	
2			Journal of King Saud University - Computer and Information Sciences	
3			Biomedical Signal Processing and Control	
4			Internet of Things	
5			Fluctuation and Noise Letters	
6			Dr.S.Bharathi Assistant Professor (SG)	Multimedia Tools and Applications
7			Ms.S.Abiramasundari, Assistant Professor	IEEE International conference organised by sharanbasva university, Kalaburagi
8	IT	Dr.S.Ramakrishnan, Dean R&I	IEEE Access	
9			Journal of Expert Systems with Applications	
10			Journal of Journal of Intelligent & Fuzzy Systems	
11		Dr.L.Meenachi, Assistant Professor (SG)	Knowledge and Information Systems	
12			Knowledge-Based Systems-Elsevier	
13	MCA	Dr.R.Muthusami Assistant Professor (SG) & HoD i/c	Journal of Big Data	
14	Mechanical	Dr.M.Jayaraj Assistant Professor(SS)	Biomass and Biorefinery, Springer	
15	CSE	Dr.J.Bhavithra Assistant Professor (SG)	Journal of Intelligent & Fuzzy Systems	

STUDENTS' NOTABLE ACHIEVEMENTS – SEP-NOV (2023)

1. Department of B.E. AI&ML

- **Shwetha S & Selva Nandhini B** have presented paper and won Second Prize in National level Technical Symposium, KORSHAN '23, Hindusthan College of Engineering and Technology, Coimbatore - NOV 2023
- **Sowmiya P K** has presented paper in EKNA '23, and won First Prize in National level Techno Cultural Fest, Anna University Regional Campus, Coimbatore - NOV 2023



STUDENTS' NOTABLE ACHIEVEMENTS – SEP-NOV (2023)

2. Department of B.E. Civil Engineering

- **Jeetha R** has presented paper in International Conference on RASTEMS - 2023 and published paper in the conference proceedings – “Analysis of Passive Cooling Techniques Using Ecotect Simulation Software for Residential Building Sector” – Karpaga Vinayaga College of Engineering and Technology, Chengalpattu, OCT 2023.



3. Department of B.E. Electronics and Communication Engineering

- **Jeevana M** has received cash prize with special appreciation for presenting paper in Technovista '23 – Sri Eshwar College of Engineering, Coimbatore - SEP 2023.



STUDENTS' NOTABLE ACHIEVEMENTS – SEP-NOV (2023)

4. Department of B.E. Electrical and Electronics Engineering

- **M. Devadharshini** has presented paper and secured first prize in National Level Technical Symposium - Sri Ramakrishna Engineering College, Coimbatore - OCT 2023



5. Department of Mechanical Engineering

- **Selva Natheya R**, has presented paper and won First Prize in MEQUEST 2023 – Sri Ramakrishna Engineering College, Coimbatore- OCT 2023



R&I REVIEW MEETINGS

Review Meeting of Ongoing Extramural Research Projects Schedule

Venue: Principal Conference Hall

S. No.	Name of the Investigators & Project Staff	Title of the Project	Date	Timing
Ongoing External Projects (Sanctioned by external funding agency)				
1	Dr. S. Parveen	Nanostructured bi-functional metal Schiff base complexes and its spinel oxides for biological and energy storage applications	29.11.2023	9.30 am-10.15 am
2	Dr. K. N. Vijeyakumar Dr. R. Sudhakar Dr. N. Saravanakumar Dr. B. Vinoth Kumar Dr. K. Saranya Mr. Talluri Vineel Jessy	Design of 16 channel High gain, Low Power, Low Noise Neural Signal Amplifier Front End Using SCL's 180nm CMOS Fabrication Technology for EEG Monitoring System		10.15 am-11.00 am
3	Dr. K.N.Vijeyakumar Dr. N.Saravanakumar Mr. TalluriVineel Jessy	Design of High Slew Rate, Low Offset and Low Drift Operational Amplifier in 180 nm SCL's Technology.		11.15 am -12.00 pm
4	Dr. K. N. Vijeyakumar Dr. N. Saravanakumar Mr. TalluriVineel Jessy	Development of electric vehicle -fiber rotavator for coir industries		12.00 pm-12.45 pm
5	Dr. Ramathirumurugan	Self- Recharging internal frame Electric Bicycles		2.00 pm -2.45 pm



R & I REVIEW MEETINGS

Review Meeting of Ongoing Extramural Research Projects

Dr. S. Parveen - “Nanostructured bi-functional metal Schiff base complexes and its spinel oxides for biological and energy storage applications”



Project sanction reference no with date	SR/WOS-A/CS-147/2021
Funding agency	DST-WOS(A)
Project Duration	3 years
Budget Sanctioned (Rs.)	Rs.33,02,620/-
Total amount utilized (Rs.)	Rs.9,91,681/-
Percentage of project completion	15%

Photographs of Equipment Purchased



Muffle Furnace



Hot Air Oven with Vacuum pump

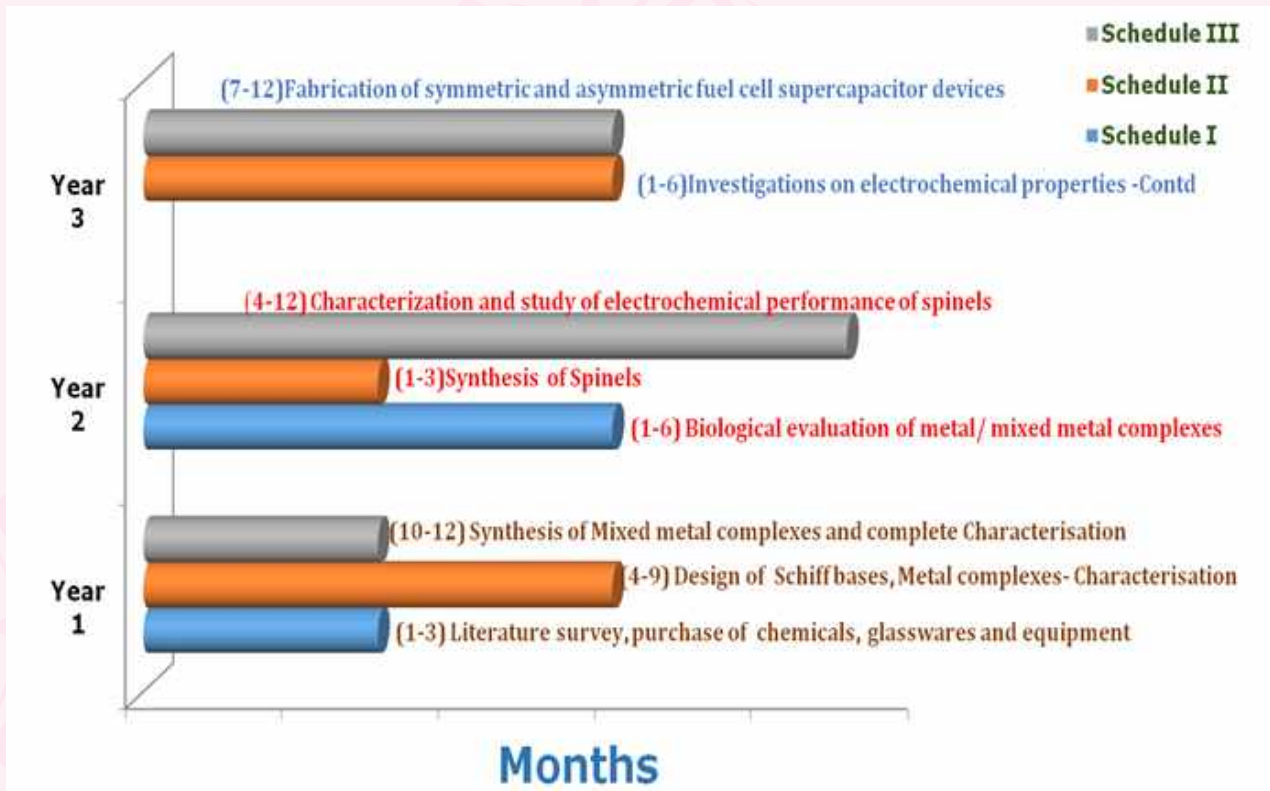


Electronic Analytical Balance

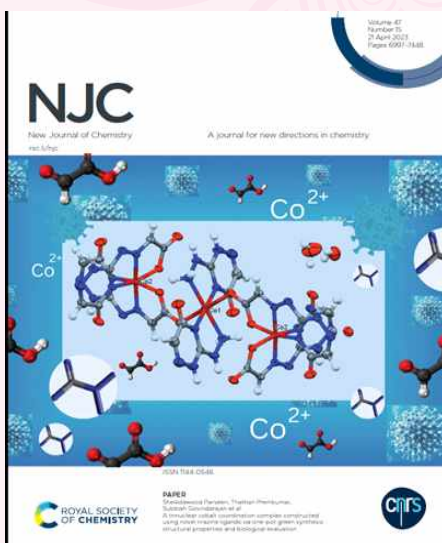
REVIEW MEETING OF ONGOING EXTRAMURAL RESEARCH PROJECTS

“Nanostructured bi-functional metal Schiff base complexes and its spinel oxides for biological and energy storage applications”

Work done as on date



Publications - R&D project



Chemical Papers
2023, 77, 7725-7736.
IF-2.2

First article as in journal cover page
New J. Chem., 2023,
47, 7041 IF-3.3



REVIEW MEETING OF ONGOING EXTRAMURAL RESEARCH PROJECTS

Dr.M.Selvakumar – “Development of electric vehicle - fiber rotavator for coir industries”

Project sanction reference no. with date	Roc.No.II-01/44/2022/EDII/2022
Funding agency	EDII IVP A
Project Duration	1 Year
Budget Sanctioned (Rs.)	3.2 lakhs
Total amount utilized (Rs.)	Rs. 80,000 (In progress)
Percentage of project completion	40%

PURCHASED ITEM DETAILS WITH PHOTOGRAPHS



PMSM MOTOR
OPERATING VOLTAGE = 60V
RATED POWER = 1500W
RATED SPEED = 3000RPM



PMSM CONTROLLER
RATED TORQUE = 5.44 NM
MAXIMUM TORQUE = 31 NM
EFFICIENCY = 97%

Review Meeting of Ongoing Extramural Research Projects

Dr.M.Selvakumar – “Development of electric vehicle -fiber rotavator for coir industries”



THROTTLE
ELECTRONIC THROTTLE
OPERATING VOLTAGE = 5V



FORWARD & REVERSE SWITCH
DIRECTION CONTROL SWITCH WITH
HANDLEBAR MOUNT
AC = 16A/250V
6POLE – 3 POSITION



FRONT e-RICKSHAW SHOCKER
FRONT SHOCKER
LENGTH = 31”



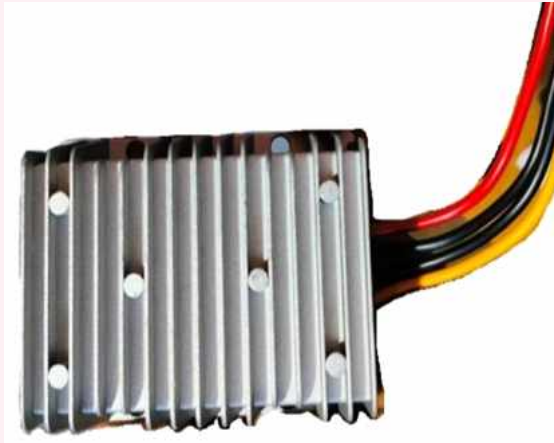
REAR AXLE
42” AXLE WITH COSTANT MESH GEAR
BOX2 SPEED (1:15.4 & 1:31)
DIFFERENTIAL SPEED DIFF = 0.6

1) DC TO DC CONVERTER
INPUT VOLTAGE = 48 TO 90 V
OUTPUT VOLTAGE = 12 V
OUTPUT AMPS = 15 A

2) PMDC MOTOR
OPERATING VOLTAGE = 60 V
RATED POWER = 2000 W
RATED SPEED = 2500 RPM

Review Meeting of Ongoing Extramural Research Projects

Dr.M.Selvakumar – “Development of electric vehicle -fiber rotavator for coir industries”



Work done as on date



PROBLEM IDENTIFICATION

IDENTIFY CUSTOMER NEED

SOLUTION IDENTIFICATION

DETAILED DESIGN

DETAILED DESIGN & BOM

SUPPLIER IDENTIFICATION

MATERIAL PROCUREMENT

FABRICATION (VEHICLE)

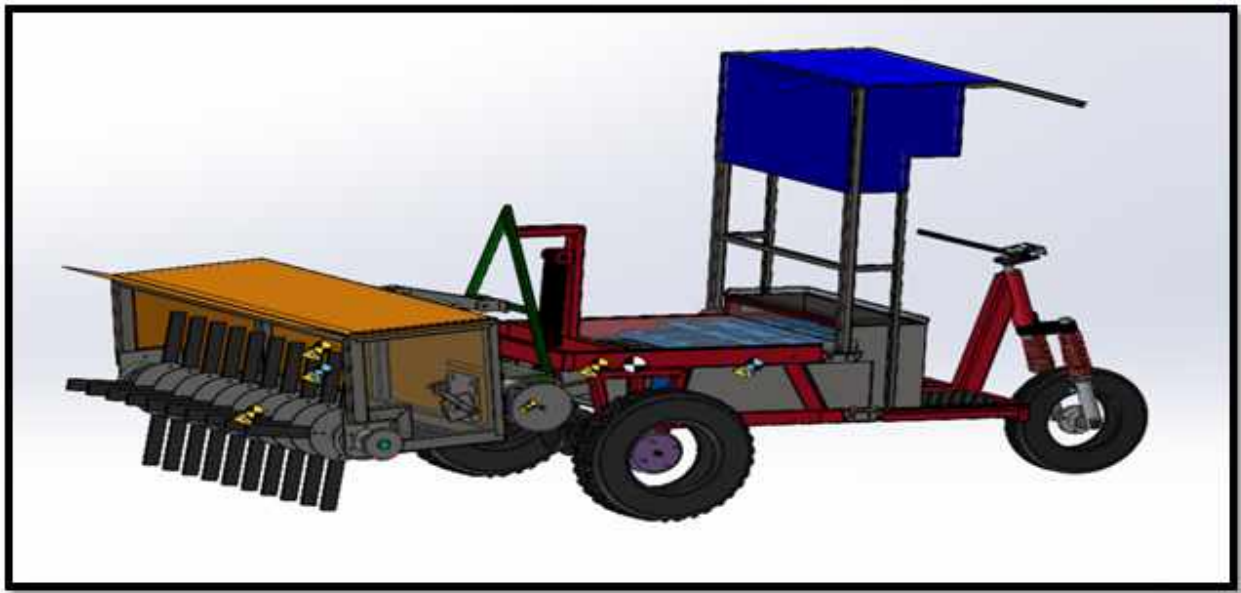
TEST & VALIDATION - A

DESIGN CHANGE

TEST & VALIDATION - B

PRODUCTION

CAD MODEL OF E-ROTO



Review Meeting of Ongoing Extramural Research Projects

Dr.K.N.Vijeyakumar- Design of High Slew-rate, Low-offset,
Low Drift Operational Amplifier using SCL 180nm CMOS Fabrication Technology

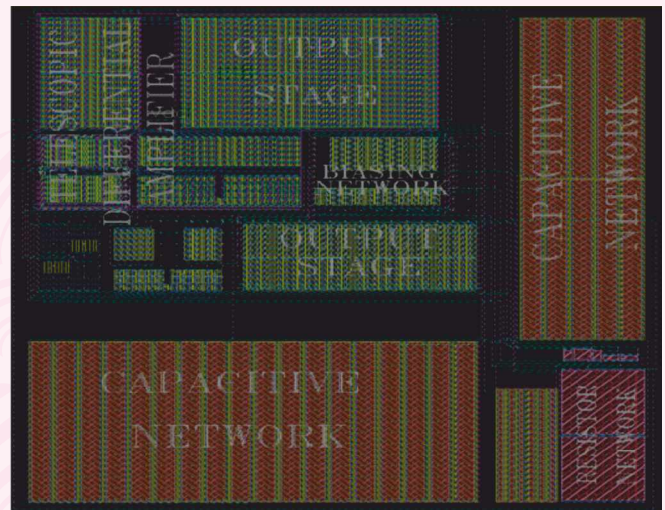
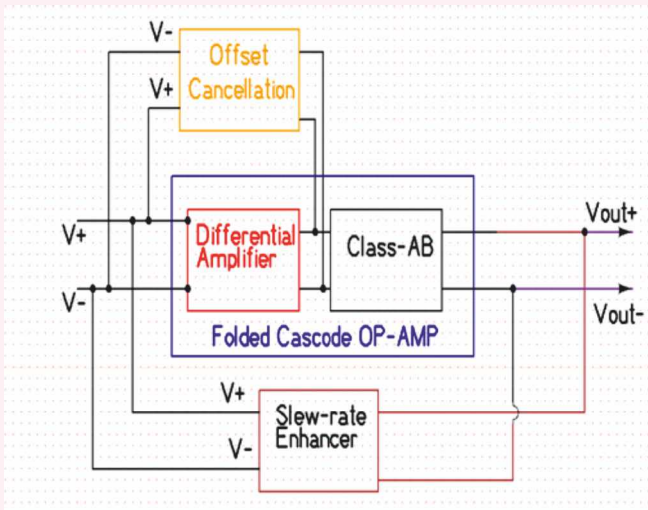
Funding agency	ISRO
Project Duration	2 Years
Budget Sanctioned (Rs.)	Rs. 17,58,410/-
Total amount utilized (Rs.)	Rs. 17,58,410
Percentage of project completion	90%

Targeted Specifications:-

To design a High Slew Rate, Low Offset and Low Drift OPAMP with:

- Slew rate $> 1200V/\mu\text{sec}$.
- UGB $> 200\text{MHz}$.
- Input offset $< 100\mu\text{V}$.
- Open Loop gain $> 80\text{dB}$.
- Low Drift $-1.3\mu\text{V}/^\circ\text{C}$.

Block Diagram Of Proposed Architecture & Layout:



Results / Comparison:

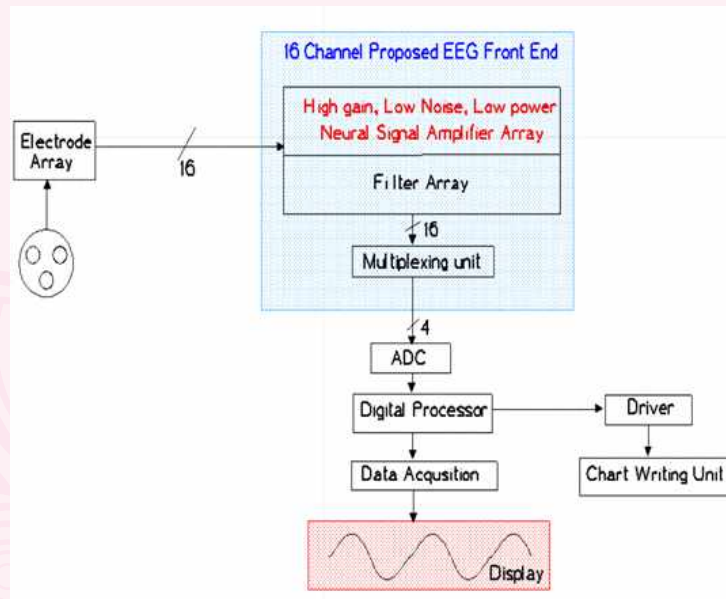
Specification	Target	Obtained
Slew Rate	1200V/ μ sec	1206V/ μ sec
UGB	>200MHz	1.4GHz
Input Offset	<100 μ V	30 μ V
Open Loop Gain	>80dB	91dB

Review Meeting of Ongoing Extramural Research Projects

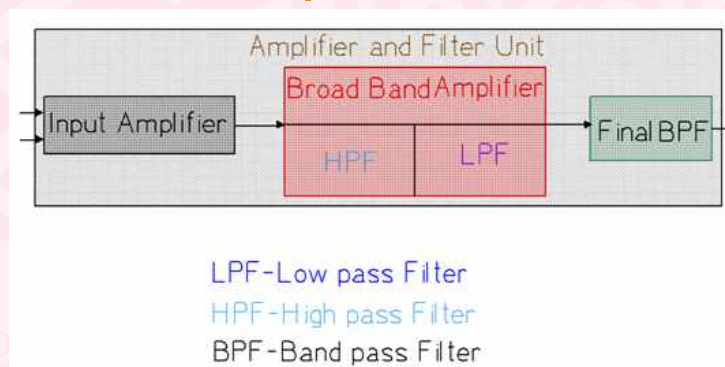
Dr. K. N. Vijeyakumar- Design of 16 Channel High Gain, Low Power, Low Noise Neural Signal Amplifier Front End
Using SCL's 180 nm CMOS Fabrication Technology for EEG Monitoring System

Funding agency	MieTY
Project Duration	3 Years
Budget Sanctioned (Rs.)	Rs. 3,29,375
Total amount utilized (Rs.)	Rs. 2,61,836
Percentage of project completion	10%

Block Descriptions of the Outcomes:



Block Descriptions of Submodule:



Real-time System Development



Gaining knowledge from the doctor's perspective for design of accurate model



Review Meeting of Ongoing In-house R&D Projects Schedule Venue: Principal Conference Hall - 28.11.23

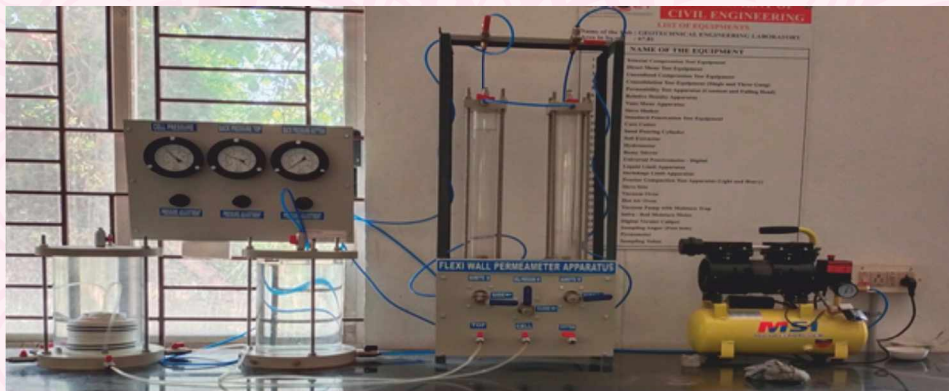
S. No.	Name of the Faculty provided with seed money	Title of the Project	Timing
1	Mr. S. Syed Masoodhu, Civil Rs. 1,10,000	Hydraulic Performance of Geosynthetic Clay Liner with Modified Clay by Polymeric Hydrogels	9.30 am – 10.00 am
2	Dr. A. Noble Mary Juliet, CSE Rs. 1,15,000	Web/Mobile Application for Multi modal Mark entry and Hall booking service automation	10.00 am – 10.30 am
3	Mr. K. R.Gokul Anand, ECE Rs. 1,04,551	Customized Cultivation using Smart Aeroponics System	10.30 am – 11.00 am
4	Dr. K. Rameshkumar, EEE Rs.1,15,000	Design and Development of Solar Photovoltaic fed Electric Vehicle Charging Station with Improved Power Quality using Virtual Active Power Filter	11.15 am – 11.45 am
5	Mr. M. Gideon Ganesh, Mech Rs. 1,10,000	Design and fabrication of polymer-based 3D printing	11.45 am – 12.15 pm
6	Dr. T. Ramkumar, Mech Rs.1,15,000	Design and Development of PCM-Nano Composite for Solar Water Heater Application	12.15 pm – 12.45 pm
7	Mr. C. Radhakrishnan, MCT Rs. 1,10,000	Experimental Investigation of Bio-oil Produced from continuous Flash Pyrolysis of Biomasses	2.00 pm – 2.30 pm
8	Dr. A. Shanmugapriya, S & H, Rs.1,07,654	Synthesis and anticancer activity of binuclear Ni(II) & Pd (II) complexes	2.30 pm – 3.00 pm
9	Dr. J. Johnson William, S & H Rs.1,15,000	Microwave Engineering of Binary Metal Compounds and its carbon composites as Electrode Materials for Energy Storage and Photocatalytic Applications	3.00 pm – 3.30 pm
10	Dr. M. Mariyappan, S & H, Rs. 1,14,400	Silver Nanoparticles Embedded Rare Earth Doped Borophosphate Glasses for Lasers, Wleds and Amplifiers	3.30 pm – 4.00 pm

Review Meeting of Ongoing In-house R&D Projects

“Hydraulic Performance of Geosynthetic Clay Liner with Modified Clay by Polymeric Hydrogels”
- Mr. S. Syed Masoodhu, Assistant Professor, Civil Engineering

Project sanction reference no. with date	In House R&D/2022-2023/01
Project Duration	Year
Budget Sanctioned (Rs.)	Rs. 1,10,000.00
Total amount utilized (Rs.)	Rs. 1,06,200.00
Percentage of project completion	70%

Photograph of Equipment Purchased



Work done as on date



GEOSYNTHETIC CLAY LINER



BENTONITE



BLACK COTTON SOIL



POLYMER

SOIL PREPARATION:

For preparation of soil sample 'B'.

First take mechanical stirrer and assemble the required items.

Next for 200 grams of soil sample making take,

Bentonite = 180 grams
Black cotton = 20 grams
Water = 300 ml
CMC = 16 grams

Now pour the water in the mixing jar and slowly add the CMC powder with same constant time period. After preparation of CMC solution add it to the black cotton soil and mix it through without any lumps. Now add the bentonite soil to it, mix until it completely spread over all evenly. Now keep in oven for 24 hours at $100^{\circ} \pm 6^{\circ}$ Celsius to make it dry soil sample.

SI No	BENTONITE SOIL	BLACK COTTON Soil (replacement in %)	POLYMER (Addition in %)
1.	100%	0%	8%
2.	95%	5%	8%
3.	90%	10%	8%
4	80%	15%	8%
5.	75%	20%	8%
6.	75%	25%	8%
7.	70%	30%	8%

Review Meeting of Ongoing In-house R&D Projects

“Hydraulic Performance of Geosynthetic Clay Liner with Modified Clay by Polymeric Hydrogels” - Mr. S. Syed Masoodhu, Assistant Professor, Civil Engineering

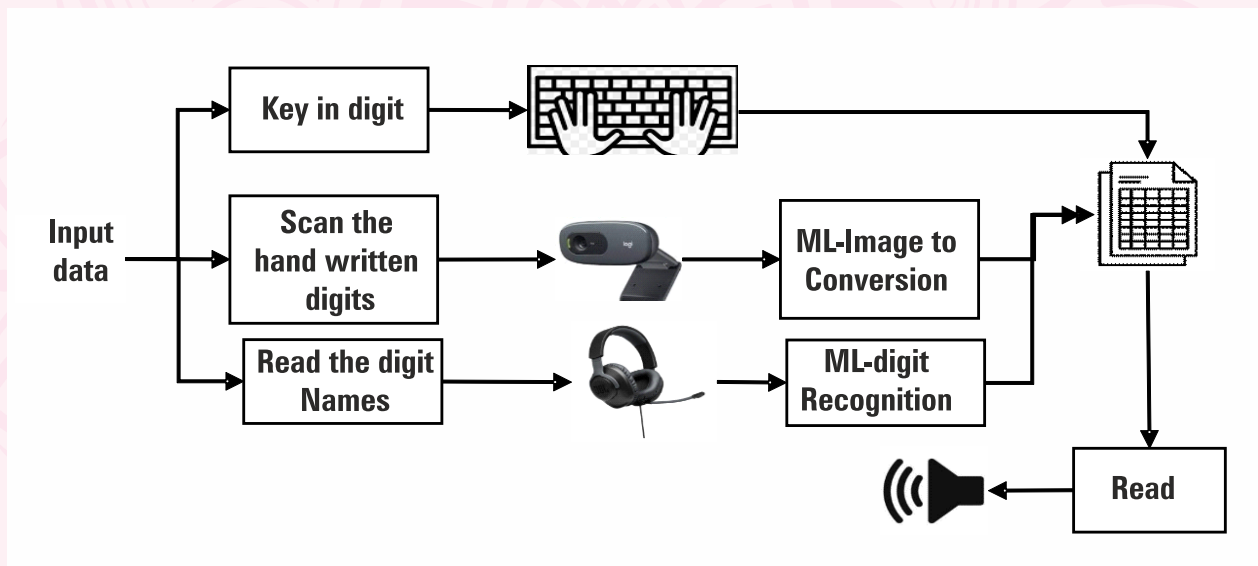
SPECIMEN PREPARATION



2. Web/Mobile Application for Multi modal Mark entry and Hall booking service automation- Dr.A.Noble Mary Juliet,Associate Professor, CSE

Project sanction reference no with date	In-house R&D 2022-23/02
Project Duration	18 Months
Budget Sanctioned (Rs.)	Rs.1,15,000
Total amount utilized (Rs.)	-
Percentage of project completion	30%

Methodology- Mark entry system



Review Meeting of Ongoing In-house R&D Projects

“Web/Mobile Application for Multi modal Mark entry and Hall booking service automation”

Work done as on date

Hall Booking Module

- Back end created
- Working with UI

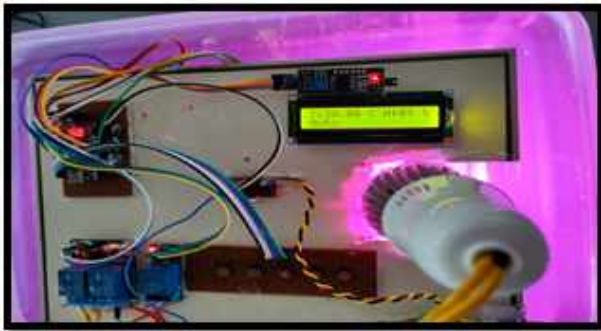
Mark Entry System

- Literature review completed.
- Convolutional Neural Network and Recurrent Neural Network algorithms identified for implementation of Handwriting to text conversion and speech to text conversion.
- Over all 30% of work completed

3. "Customized Cultivation Using Smart Aeroponics System" - K. R. Gokul Anand, AP/ECE, Dr. MCET,

Project sanction reference no with date	In-House R&D / 2022 - 23 / 03
Project Duration	1 yr
Budget Sanctioned (Rs.)	1,04,551
Total amount utilized (Rs.)	Nil
Percentage of project completion	30 %

Work done as on date



"Customized Cultivation Using Smart Aeroponics System"



Outcomes

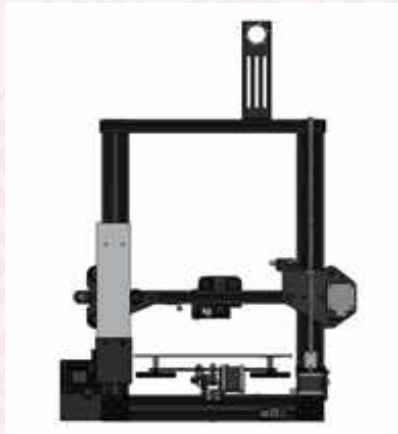


Review Meeting of Ongoing In-house R&D Projects

4. Design and Fabrication of polymer based 3D printing - M.Gideon Ganesh, AP(SS), Mech

Project sanction reference no with date	In-House R&D/2022-23/05
Project Duration	1 Y
Budget Sanctioned (Rs.)	1,10,000
Total amount utilized (Rs.)	0
Percentage of project completion	20%

Work done as on date



Back side view



Side view



Top view

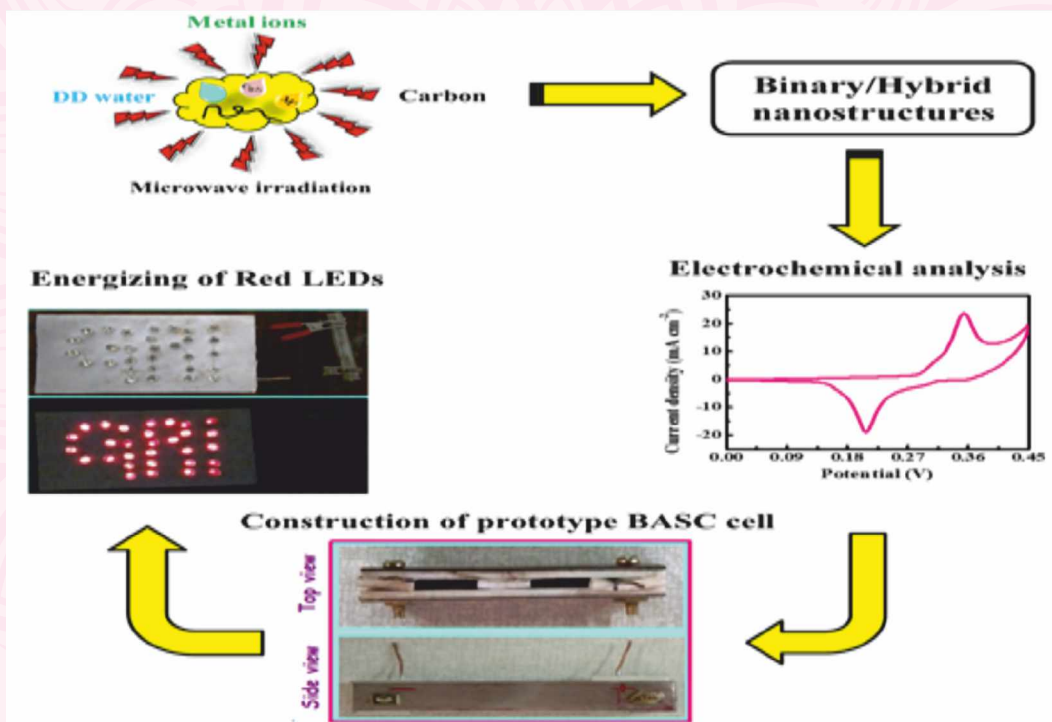
Outcomes

- To make a customized 3D printer that can print polymer components.
- To spread knowledge of the advanced technology among the students, and they can print their ideas with the help of a CAD file to feel the real-time experience.
- Research ideas can be printed with the help of CAD data.
- To print functional components
- To print high-complexity components

5. Microwave Engineering of Binary Metal Compounds and its Carbon Composites as Electrode Materials for Energy Storage and Photocatalytic Applications - Dr. J. Johnson William, Assistant Professor, S&H

Project sanction reference no with date	In-House R&D/2022-23/9
Project Duration	1 Year
Budget Sanctioned (Rs.)	1,15,000/-
Total amount utilized (Rs.)	19,000/-
Percentage of project completion	40%

Work done as on date



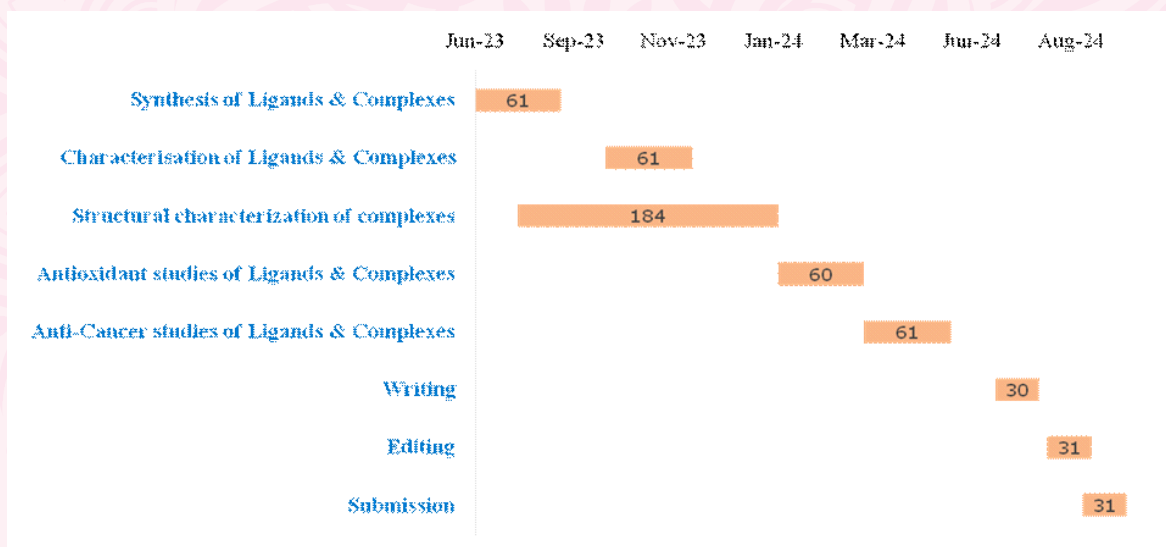
Photograph of the equipment purchased



**6. Synthesis and anticancer activities of binuclear Ni(II) & Pd(II) complexes –
Dr. A. Shanmugapriya, AP, S&H**

Project sanction reference no with date	In-House R&D/2022-23/8; 03.05.23
Project Duration	1.5 Y
Budget Sanctioned (Rs.)	Rs.1,07,654/-
Total amount utilized (Rs.)	-
Percentage of project completion	30%

Work done as on date



Outcomes

- Chosen ligands having excellent coordination sites were expected to form complexes.
- Synthesized pure metal complexes of superior quality at low temperature.
- Chelation agents have a broad range of biological activities including antioxidant and anticancer activities.

7. **Silver Nanoparticles Embedded Rare Earth Doped Borophosphate Glasses for Lasers, Wleds and Amplifiers - Dr. M. Mariyappan, AP, S & H**

Project sanction reference no. with date	In HouseR&D/2022-2023/10
Project Duration	1 Year
Budget Sanctioned (Rs.)	Rs. 1,14,400.00
Total amount utilized (Rs.)	Rs. 78,682.00
Percentage of project completion	50%

Photograph of equipment purchased

Chemicals purchased for the synthesis of glasses:



Work done as on date

Fabrication of Europium, Dysprosium doped Boro-phosphate glasses to confirm the glass forming ability

- Europium activated boro - phosphate glasses have been prepared and their luminescence studies have been studied and reported.
- Dysprosium activated boro-phosphate glasses have been prepared and their luminescence studies were analyzed.
- Tried for silver particle embedded glasses on the above host and still difficult to fabricate transparent glass samples.

Conference Presentations:

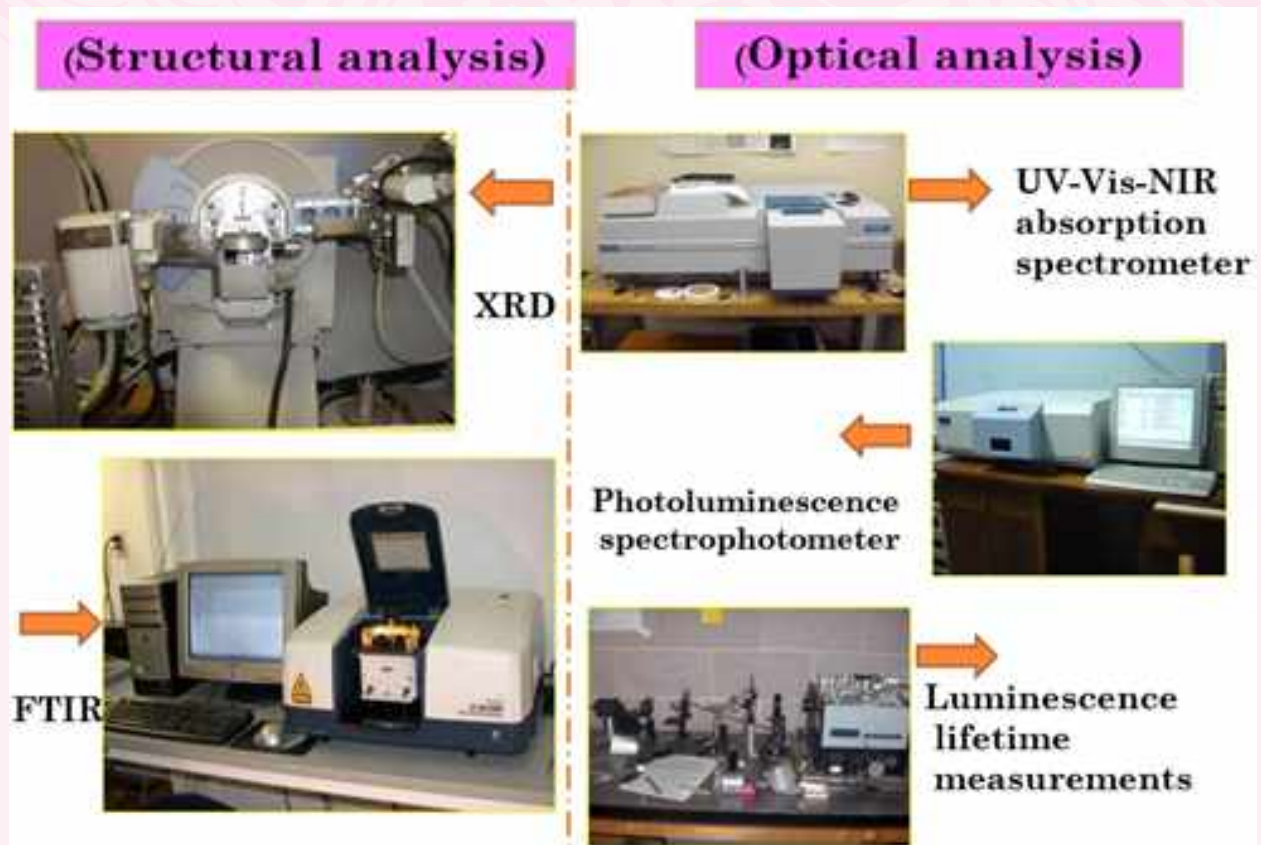
- **Luminescence properties** of Europium activated borophosphate glasses presented in the 67th DAE Solid State Physics Symposium on 24.12.2023 at GITAM University, Andhra Pradesh.
- **Abstract** about the Influence of Silver Nano particles on Structural and Optical characteristics of Dy³⁺ ion doped alkaline boro-phosphate glasses has been presented in the 7th International Conference on Recent Innovations in Modern Science and Technology (ICRIMST – 2024) organized by KPR institute of Engineering and Technology, Coimbatore during January 11, 2024.

Methodology

Preparation:



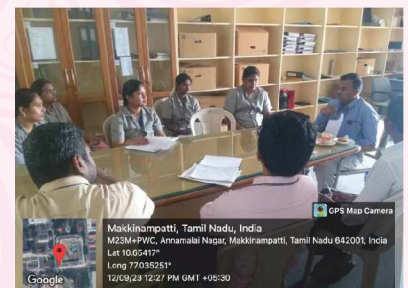
Characterization:



2nd Cycle Department R&I Review Meeting Schedule

S.No	Date	Department	Time	R&I Coordinator
1.	12-09-2023 (FN)	CSE	9:30 am - 11:00 am	Mr. S. Syed Masoodhu
		AIDS	11:30 am - 1:00 pm	Dr. A. Shanmugapriya
2.	12-09-2023 (AN)	Automobile	3:30 pm - 5:00 pm	Dr. J. Thimmia Raja
3.	13-09-2023 (AN)	IT	3:30 pm - 5:00 pm	Dr. M. Jayaraj
4.	14-09-2023 (FN)	AIML & CYS	11:00 pm - 12:30 pm	Dr. B. Bala Vijaya Priya
5.	14-09-2023 (AN)	MCA	2:00 pm - 3:30 pm	Dr. B. Bala Vijaya Priya
6.	15-09-2023 (AN)	ECE	2:00 am - 3:30 pm	Mr. S. Syed Masoodhu
7.		EEE & EIE	3:30 am - 4:30 am	Dr. A. Shanmugapriya
8.	19-09-2023 (AN)	Mechanical & Mechatronics	2:30 pm - 4:00 am	Ms. A. G. Priyavarshini
9.	22-09-2023 (FN)	S&H	9:30 am - 11:00 am	Dr. J. Thimmia Raja
10.		Civil	11:15 am - 12:45 pm	Ms. N. Sumathi

Snapshots during the 2nd Cycle Department Review Meeting



Snapshots during the 2nd Cycle Department Review Meeting



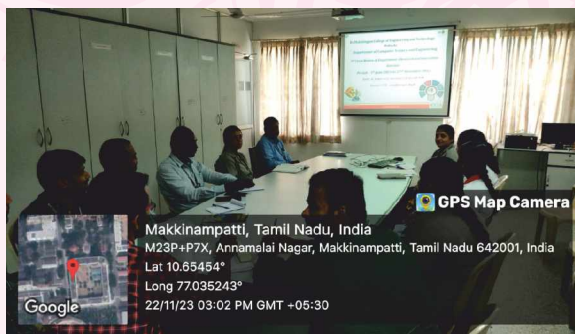
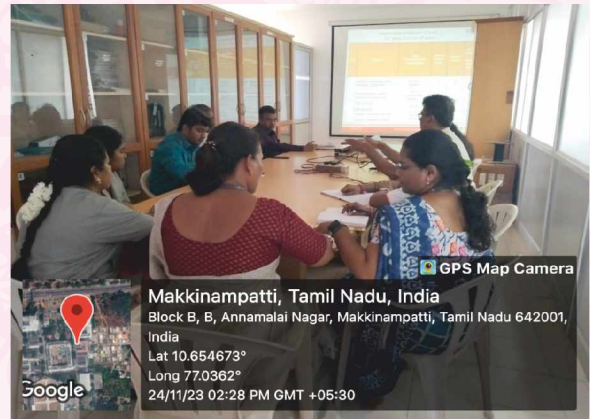
3rd Cycle Department R&I Review Schedule

S.No	Date	Department	Time	R&I Coordinator
1.	22-11-2023 (FN)	Mechanical & Mechatronics	9:30 am - 11:00 am	Dr. B. Bala Vijaya Priya
2.		Civil	11:30 am - 1:00 pm	Ms. N. Sumathi
3.	22-11-2023 (AN)	CSE	2:00 pm - 3:30 pm	Dr. K. Rameshkumar
4.		AIDS	3:30 pm - 5:00 pm	Dr. A. Shanmugapriya
5.	23-11-2023 (AN)	MCA	2:00 pm - 3:30 pm	Dr. B. Bala Vijaya Priya
6.	24-11-2023 (FN)	EEE & EIE	9:30 am - 11:00 am	Dr. J. Thimmia Raja
7.		ECE	11:30 am - 1:00 pm	Dr. K. Rameshkumar
8.	24-11-2023 (AN)	AIML & CYS	2:00 pm - 3:30 pm	Mr. S. SyedMasoodhu
9.	25-11-2023 (FN)	S&H	9:30 am - 10:30 am	Dr. J. Thimmia Raja
10.		IT	10:30 am - 11:30 am	Dr. M. Jayaraj
11.		Automobile	11:30 am - 12:30 pm	Dr. A. Shanmugapriya

Snapshots during the 3rd Cycle Department R&I Review Meeting



Snapshots during the 3rd Cycle Department R&I Review Meeting



NPTEL – R&I Course Registration and Completion Details of Faculty

Sl. NO.	Course Name	No. of Faculty members registered for JAN- MAR 2024 session (*Course in Progress)	No. of Faculty members completed during AUG-OCT 2023 session (*previous batch)
1	Innovation by Design	2	-
2	Research Methodology in Natural Sciences	2	-
3	Introduction to Research (New: Research Methodology)	3	-
4	Patent Drafting for Beginners	7	2
5	Design, Technology and Innovation	4	6
6	Introduction On Intellectual Property To Engineers and Technologists	4	-
7	Effective Writing	4	-
8	Patent Search for Engineers & Lawyers	-	1
9	Research Methodology	-	7
	TOTAL	26	16

NPTEL CERTIFICATION COURSES (Faculty)

Elite

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

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

Effective Writing

with a consolidated score of **70** %

Online Assignments	23.33/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: **3804**

Prof. Sanjiv Manhas
Coordinator, Continuing Education Centre
IT Roorkee

Jan-Feb 2023
(4 week course)

Prof. Prii Maheshwari
NPTEL, Coordinator
IT Roorkee

Indian Institute of Technology Roorkee

Roll No: NPTEL23HS19514376053

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
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
IT 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
MAHENDRAN M
for successfully completing the course

Research Methodology

with a consolidated score of **87** %

Online Assignments	20.83/25	Proctored Exam	66/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **3794**

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

Aug-Oct 2023
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23GE365533804264

To verify the certificate

No. of credits recommended: 2 or 3

Elite

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

This certificate is awarded to
SARAVANA KUMAR N
for successfully completing the course

Research Methodology

with a consolidated score of **83** %

Online Assignments	23.33/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **3794**

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

Aug-Oct 2023
(8 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23GE365544500992

To verify the certificate

No. of credits recommended: 2 or 3

NPTEL CERTIFICATION COURSES (Faculty)



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)




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

Patent Drafting for Beginners

with a consolidated score of **90** %

Online Assignments	23.25/25	Proctored Exam	67.01/75
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Total number of candidates certified in this course: **768**


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

Jul-Aug 2023
(4 week course)


Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras


Indian Institute of Technology Madras


Roll No: NPTEL23HS04S45510134
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
RAJARAJESHWARI K C
for successfully completing the course

Introduction to Research

with a consolidated score of **80** %

Online Assignments	24.38/25	Proctored Exam	55.25/75
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Total number of candidates certified in this course: **1826**


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

Feb-Apr 2023
(8 week course)


Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras


Indian Institute of Technology Madras


Roll No: NPTEL23GE05S73390589
To validate the certificate 
No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to
PRIYA VARSHINI A G
for successfully completing the course

Design, Technology and Innovation

with a consolidated score of **70** %

Online Assignments	17.38/25	Proctored Exam	53.02/75
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Total number of candidates certified in this course: **1279**


Prof. Sridhar Iyer
Head CSEEP & NPTEL, Coordinator
IIT Bombay

Jan-Mar 2023
(8 week course)


Indian Institute of Technology Bombay




Roll No: NPTEL23DE06S34376459
To validate the certificate 
No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)


This certificate is awarded to
RAJALAKSHMI K
for successfully completing the course

Effective Writing


with a consolidated score of **75** %


Online Assignments	24.17/25	Proctored Exam	50.51/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3804**


Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Feb 2023
(4 week course)


Prof. Priti Maheshwari
NPTEL, Coordinator
IIT Roorkee


Indian Institute of Technology Roorkee


Roll No: NPTEL23HS19S24374954
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
NATHAN D
for successfully completing the course

Roadmap for Patent Creation

with a consolidated score of **66** %

Online Assignments	12.08/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **716**


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Jan-Mar 2023
(8 week course)


Indian Institute of Technology Kharagpur


Roll No: NPTEL23GE22S34375043
To validate the certificate 
No. of credits recommended: 2 or 3



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)




This certificate is awarded to
SUDHISHNA K S
for successfully completing the course

Effective Writing

with a consolidated score of **78** %

Online Assignments	22.5/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **3804**


Prof. Sanjeev Manhas
Coordinator, Continuing Education Centre
IIT Roorkee

Jan-Feb 2023
(4 week course)


Prof. Priti Maheshwari
NPTEL, Coordinator
IIT Roorkee


Indian Institute of Technology Roorkee


Roll No: NPTEL23HS19S14370599
To validate the certificate 
No. of credits recommended: 1 or 2

NPTEL CERTIFICATION COURSES (Faculty)

Elite

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

This certificate is awarded to
R SHERINE JENNY
for successfully completing the course

Introduction on Intellectual Property to Engineers and Technologists

with a consolidated score of **79** %

Online Assignments	21.88/25	Proctored Exam	57/75
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Total number of candidates certified in this course: **1198**

Feb-Apr 2023
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23HS15573390657 To validate the certificate  No. of credits recommended: 2 or 3

Elite

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

This certificate is awarded to
P A PERIASAMY
for successfully completing the course

Effective Writing

with a consolidated score of **80** %

Online Assignments	24.17/25	Proctored Exam	55.5/75
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Total number of candidates certified in this course: **3804**

Jan-Feb 2023
(4 week course)

Prof. Priya Maheshwari
NPTEL Coordinator
IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL23HS19514372083 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
K DURGALAKSHMI
for successfully completing the course

Roadmap for Patent Creation

with a consolidated score of **63** %

Online Assignments	11.96/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **716**

Jan-Mar 2023
(8 week course)

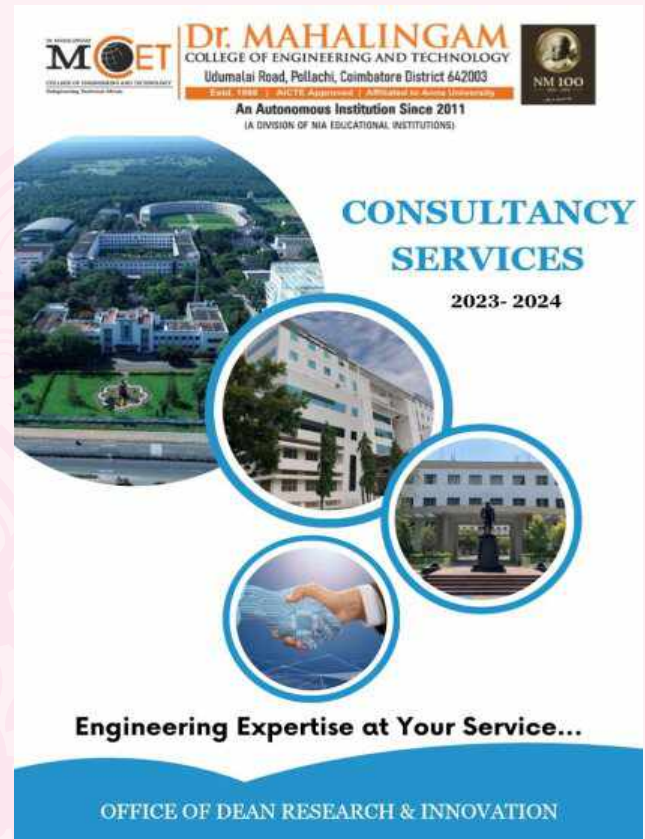
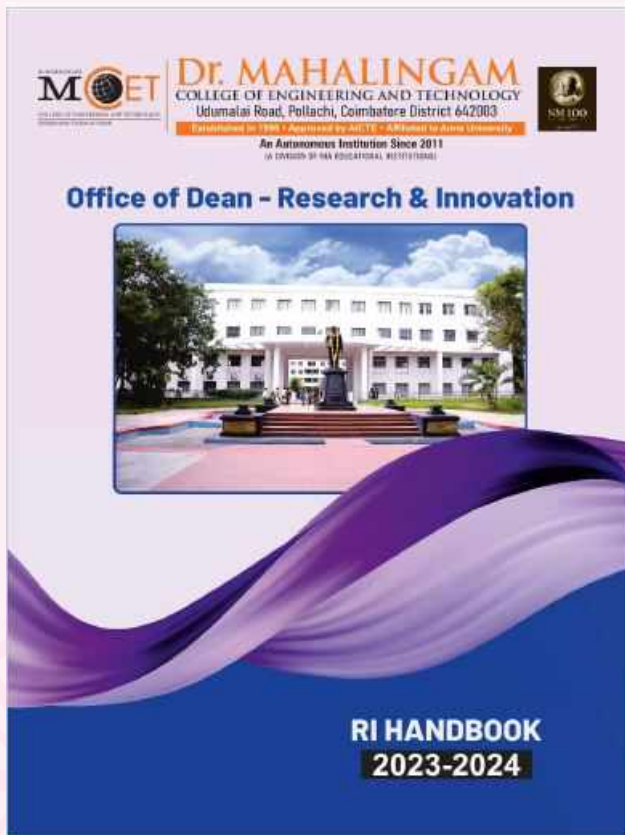
Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

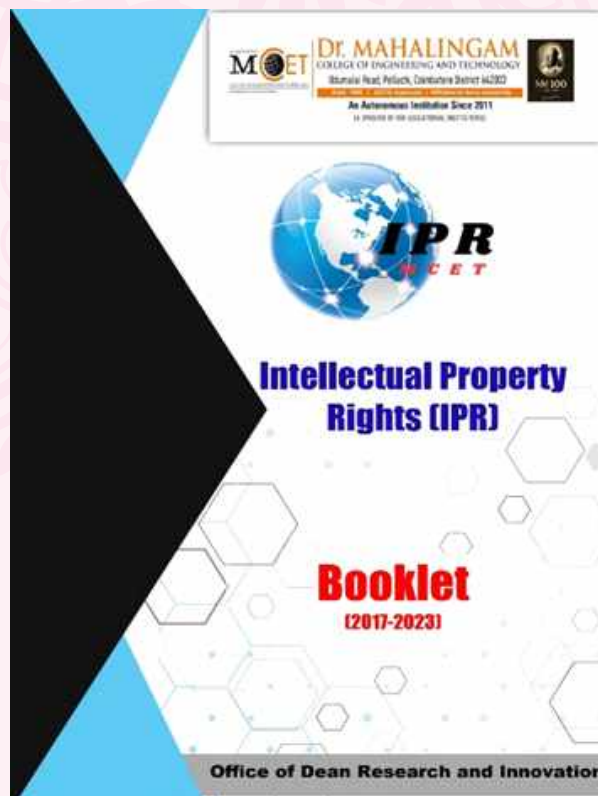
swayam

Roll No: NPTEL23GE2544372869 To validate the certificate  No. of credits recommended: 2 or 3

R&I Handbooks



R&I Handbooks



Initiatives of the Office of Research and Innovation

1. Facilitating the hosting of International Conferences
2. Conduction of Open House Exhibition
3. Identifying potential IPR and providing financial support for filing
4. Facilitating Revenue Sharing of Consultancy work
5. Managing the activities of the Institution's Innovation Council(IIC)
6. Convening meetings, Controlling and Monitoring NIRF data analysis
7. Periodic review of Ph.D. Scholar Progress
8. Periodic review of Department R&I activities
9. Periodic review of Ongoing External Funded Projects
10. Periodic review of Ongoing In-house R&D Projects
11. Periodic review of Ongoing Consultancy Works
12. Ph.D. Guide Identification and Allocation
13. Periodic Circulation of Calls for Proposals
14. Identifying and Sanctioning In-house R&D Projects for Faculty members
15. Identifying and Sanctioning In-house R&D Projects for Students
16. Formation of Research Interest Group
17. Formulation of Student Research Council
18. Publication of the R&I Newsletter
19. Incentive distribution to faculty for Research Contribution
20. Conducting Knowledge Sharing Sessions & Organizing Research Seminars
21. Facilitating faculty for attending Faculty Development Programs and workshops
22. Facilitating faculty for attending Online Certification Courses
23. Purchasing R&I Tools for checking Plagiarism and Grammar
24. Facilitating Students' participation in Seminars and Workshops
25. Facilitating Subscriptions for Printed and E-Journal



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