

IGNITE 2024



A WEEKLY NEWSLETTER

Editor in Chief

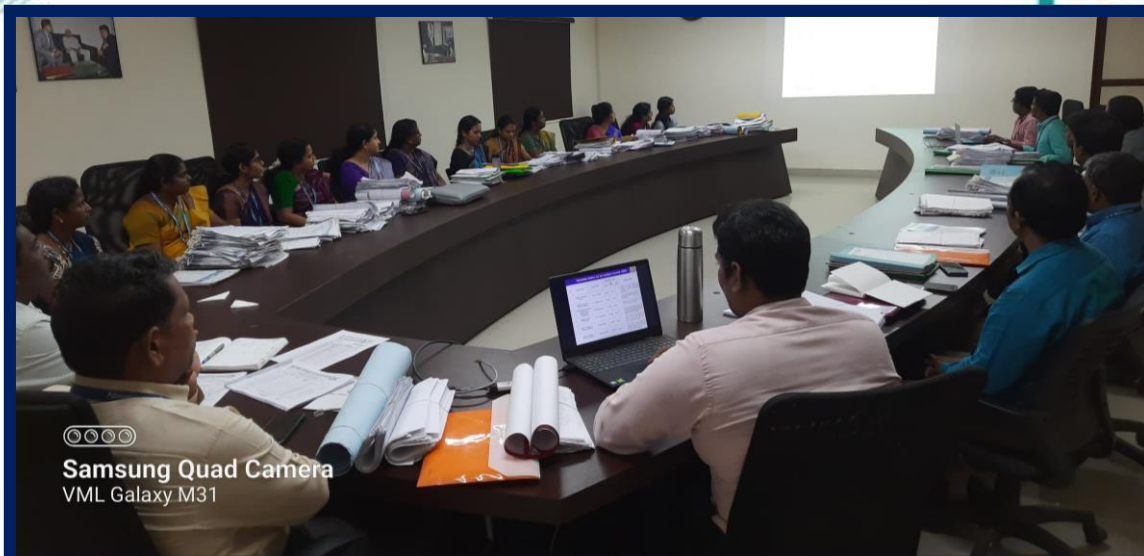
Dr. Srinivasan Alavandar
Principal, ACT

Editors

Ms N Dhivya, AP - S&H
Ms S Archana AP - EEE
Mr V Kothantapani - EEE II Year

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DEPARTMENT ACADEMIC REVIEW MEETING - I



The First DARM for Science and Humanities Department for the Even Semester 2023-24 was conducted on 3-06-2024 in the Boardroom. In the presence of Principal and Dean Academics, Dr. Arul Kulandaivel, HoD/S&H presented academic performance, student participation and achievements, faculty participation, contribution and achievements and the odd semester results of Anna University. Dean Academics reviewed the progress and appreciated the efforts of the faculty members towards the improvement and also gave suggestions for further improvement. The Principal appreciated the Head & faculty members for their excellence in departmental progress. He specifically appreciated the 70% record-breaking results in the recent Anna University examinations and also congratulated the team for the best academic performance in the ODD Semester. He also conveyed his best wishes for the upcoming semester results to the HoD & Faculty members. Finally HoD, thanked all the good hearts who had given wonderful support in all the aspects.

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FACULTY ACHIEVEMENT

Process Safety and Environmental Protection 188 (2024) 398–405

Contents lists available at ScienceDirect

Process Safety and Environmental Protection

journal homepage: www.journals.elsevier.com/process-safety-and-environmental-protection

Fabrication of SnO₂/NGO hybrid nanocomposite as an effective photocatalyst for binary dye degradation under sunlight illumination

Jothi Vinoth Kumar^{a,*}, Duraisamy Karthika^b, Pitcheri Rosaiah^c, Sandhanasamy Devanesan^d, R. Mythili^e, Merum Dhananjaya^{f,g}, Sang Woo Joo^h

^a Bio Nanocomposite Research Center, Department of Food and Nutrition, Kyung Hee University, Seoul 03047, Republic of Korea
^b Department of Chemical Engineering, Agni College of Technology, OMR, Thashambur, Tamil Nadu 603103, India
^c Department of Physics, Savitribai Institute of Medical and Technical Sciences (SISMAITS), Thandivan, Chennai 602105, India
^d Department of Physics and Astronomy, College of Science, King Fahd University, P.O. Box 2455, Riyadh 11451, Saudi Arabia
^e Department of Pharmacology, Savitribai Dental College and Hospital, Savitribai Institute of Medical and Technical Sciences, Savitribai University, Chennai 600077, India
^f Department of Mechanical Engineering, Yonsei University, 260 Incheon-ro, Gyeonggi-do, Gyeonggi 05541, Republic of Korea

ARTICLE INFO

Keywords:
 Graphene oxide
 Methylene blue
 Methyl orange
 SnO₂/NGO nanocomposite

ABSTRACT

We successfully synthesized nitrogen-doped graphene oxide grafting tin oxide nanoparticles (SnO₂/NGO nanocomposite). To evaluate the surface, optical and morphology characterization of synthesized SnO₂/NGO nanocomposites was done using various analytical techniques. The XRD data indicate the crystallinity of a high-purity SnO₂/NGO nanocomposite in nature. The Raman spectra of the resultant SnO₂/NGO nanocomposite exhibit moderate graphitization with a I_G/I_D intensity of 0.98. Under sunlight irradiation, the photocatalytic activity of a produced SnO₂/NGO nanocomposite on the breakdown of toxic binary organic dyes (methylene blue/methyl orange) was examined. On MB and MO, the resultant SnO₂/NGO nanocomposite had a maximum degradation efficiency of 150 min and 89.4%, 93.7%, respectively. Furthermore, the simple and inexpensive hydrothermal-derived SnO₂/NGO nanocomposite exhibits rapid photocatalytic degradation on MB and MO when exposed to sunlight illumination.

1. Introduction

Environmental pollution is of great interest and deal with worldwide due to its harmful consequences on living beings and ecosystems. These issues become more prevalent as emerging countries industrialize (Kumar et al., 2024; Gago et al., 2022). Pollution causes various difficulties, including respiratory issues, cardiovascular disease, intestinal damage, increased global warming, seas or lakes, river drought, decreased quality of life, and the extinction of flora and animal classes (Chatterjee and More, 2023). Water scarcity affects a predictable 2 billion people, and 800 million do not have access to safe drinking water, resulting in major health consequences (Widelande et al., 2018). The textile sector, which uses more than 10,000 pigments and dyes in its staining methods, is the one that releases the most trash into the water of all the industries that pollute it. Most of these dyes and pigments are photostable and non-biodegradable (Kumar et al., 2023a, 2023b). A major environmental problem is the presence of dyes in marine effluents from the textile industry. Methylene Blue (MB), Methyl Orange (MO), and Rhodamine B (RhB) are the three most frequently used dyes in all industries (Tammim et al., 2018; Kurniawati et al., 2021). Ozone treatment, Activated carbon-assisted adsorption, enzyme treatments, and electrochemical approaches have been employed to eradicate or remove colors from contaminated waters (Skouretis et al., 2015; Oladaye et al., 2022; Kumar et al., 2022). However, these problems include high cost, harmful chemical composites to aquatic creatures, the inability to destroy dyes, and the formation of other poisonous and hazardous molecules. Because of these problems, photocatalysis is a multipurpose option solar and UV radiation can produce hydrogen, ammonia, water oxidation, drug degradation, heavy metal and dye reduction in water, and it also avoids using poisonous or hazardous materials (Gautam et al., 2020). Mn (II) complexes, Fe₃O₄@SiO₂@TiO₂@Ho, Nd₂Zr₂O₇-Nd₂O₃, HPW@UiO-66, CeO₂@BiFeO₃, and several types of metal-based nanoparticles have all been employed as photocatalytic systems (Ma et al., 2021; Moriazavi-Derazkola et al., 2017; Sachin et al., 2024; Zinatloo-Ajabshir et al., 2016; Mannigh et al., 2020).

^{*} Corresponding author.
 E-mail address: vinothb94@khu.ac.kr (J.V. Kumar), mdhansa@ysu.ac.kr (M. Dhananjaya), sejoo@ysu.ac.kr (S.W. Joo).
<https://doi.org/10.1016/j.psep.2024.05.088>
 Received 15 February 2024; Received in revised form 6 May 2024; Accepted 18 May 2024
 Available online 20 May 2024
 0957-5820/© 2024 Institution of Chemical Engineers. Published by Elsevier Ltd. All rights are reserved, including those for text and data mining, AI training, and similar technologies.

Mrs. C. D. Karthika, Assistant Professor, Department of Chemical Engineering has published a Research article entitled “Fabrication of SnO₂/NGO hybrid nanocomposite as an effective photocatalyst for binary dye degradation under sunlight illumination” in an International Journal, Process Safety and Environmental Protection-SCIE Journal (Impact Factor- 7.8) in the month of May 2024.

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FACULTY ACHIEVEMENT





CERTIFICATE

OF APPRECIATION

is awarded to

ANUJA PRASHANT DIWAN

AGNI COLLEGE OF TECHNOLOGY
CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

INTRODUCTION TO INTERNET OF THINGS

JAN - APR 2024





PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)					Toppers
		<40	40-59	60-74	75-89	>=90		
4	4	0	0	2	2	0	0	

Mrs. Anuja Prashant Diwan, AP / EEE has mentored 4 students from the Department of Electrical and Electronics Engineering (2 – Elite and 2 – Elite with SILVER) and was recognized for her role as mentor for the NPTEL Online Certification Course titled “INTRODUCTION TO INTERNET OF THINGS”.

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Dr. R. Arularasan, Assistant Professor, Department of Mechatronics Engineering, was recognized as an NPTEL BELIEVER by NPTEL during January – April, 2024.

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FACULTY ACHIEVEMENT



Mrs. D. Selvamarilakshmi, Assistant Professor, Department of Mechatronics Engineering has been awarded an **Elite Certificate** for successfully completing the **NPTEL** online course on **The Joy of Computing using Python** conducted in the month of April 2024.

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FACULTY ACHIEVEMENT




CERTIFICATE

OF APPRECIATION

is awarded to

T LEONILA

AGNI COLLEGE OF TECHNOLOGY

CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

THE JOY OF COMPUTING USING PYTHON

JAN - APR 2024






PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)					Toppers
		<40	40-59	60-74	75-89	>=90		
8	4	2	0	2	0	0		0

Mrs.T.Leonila, Assistant Professor, Department of Information Technology, has recognized as mentor for the NPTEL Online Certification Course **“The Joy of Computing Python”** during January –April, 2024.

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FACULTY ACHIEVEMENT




CERTIFICATE

OF APPRECIATION

is awarded to

RESHMA H

AGNI COLLEGE OF TECHNOLOGY

CHENNAI, TAMIL NADU




in recognition of his/her role as mentor for the
NPTEL Online Certification course

THE JOY OF COMPUTING USING PYTHON

JAN - APR 2024





PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
6	5	1	0	2	2	0	1

Mrs.H.Reshma, Assistant Professor, Department of Information Technology, has recognized as **Top Performing Mentor** for the NPTEL Online Certification Course “**The Joy of Computing Python**” during January-April 2024.

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FACULTY ACHIEVEMENT



CERTIFICATE
OF APPRECIATION
is awarded to



SINDUJA. M

AGNI COLLEGE OF TECHNOLOGY

CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

THE JOY OF COMPUTING USING PYTHON

JAN - APR 2024



PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
8	6	1	3	1	1	0	0

Ms.M.Sinduja, Teaching Assistant, Department of Information Technology, has been recognized as mentor for the NPTEL Online Certification Course “The Joy of Computing Python” during Jan-Apr 2024.

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FACULTY PARTICIPATION

Mrs. Kalaiselvi D., AP/ EEE has attended five days Short Term Training Program on “ **Advanced Approaches and Insights on Signal Processing in Health Care**” , conducted by the Department of Electronics and Communication Engineering, SVCE from May 27th,2024 to May 31st,2024.

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FACULTY PARTICIPATION



NPTEL-AICTE

Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SWATHI S

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **67 %**





Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Feb-Apr 2024)

Roll No: NPTEL24HS26S353405810

Duration of NPTEL course : 8 Weeks

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 16th Nov, 2023, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2023

Dr. S. Swathi, Assistant Professor, Department of Science and Humanities (Physics), has participated in 8 weeks Faculty Development Programme on **“Enhancing Soft Skills and Personality”** conducted by NPTEL-AICTE during the February –April, 2024.

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FACULTY PARTICIPATION



Mr. K.Ganesh Kumar, Assistant Professor, Department of Mechatronics Engineering has completed two Days free certified program on **Industrial CAD using NX** (Next Generation) conducted and certified by **SKYY SKILL ACADEMY**.

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FACULTY PARTICIPATION



Certificate of Presentation

This is to certify that

Senthil G A

has successfully presented the paper entitled

Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision

at the

3rd International Conference on

Applied Artificial Intelligence and Computing (ICAIC 2024) organized by

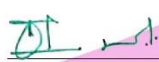
R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.




Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan

Dr.Senthil G A, Associate Professor, Department of Information Technology, attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision**” on 6th June 2024.

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FACULTY PARTICIPATION



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

NIVI V

for successfully completing the course

Cloud Computing

with a consolidated score of 86 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2024)

Roll No: NPTEL24CS17S453408467

Duration of NPTEL course : 12 Weeks

Ms.V.Nivi, Assistant Professor, Department of Information Technology, has participated in 12 weeks Faculty Development Programme on “**Cloud Computing**” conducted by **NPTEL – AICTE** during the month of January-April, 2024.

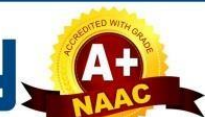
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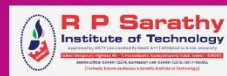
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FACULTY PARTICIPATION



Certificate of Presentation

This is to certify that

Geerthik S

has successfully presented the paper entitled

Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision

at the

3rd International Conference on

Applied Artificial Intelligence and Computing (ICAIC 2024) organized by

R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.




Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan

Dr. Geerthik S, Head of the department, Department of Information Technology, attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled **“Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision”** on **6th June 2024**.

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FACULTY PARTICIPATION



Dr.Geerthik S, Head of the department, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled **“Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision”** on 6th June 2024.

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FACULTY PARTICIPATION



Certificate of Presentation

This is to certify that

Lakshmi Priya R V

has successfully presented the paper entitled

Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision

at the

3rd International Conference on

Applied Artificial Intelligence and Computing (ICAIC 2024) organized by

R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.


Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan



Mrs.Lakshmi Priya R V, Assistant Professor, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision**” on 6th June 2024.

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FACULTY PARTICIPATION



Certificate of Presentation

This is to certify that

Senthil G A

has successfully presented the paper entitled

Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision

at the

3rd International Conference on
Applied Artificial Intelligence and Computing (ICAIC 2024) organized by

R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.




Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan

Dr.Senthil G A, Associate Professor, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision**” on 6th June 2024.

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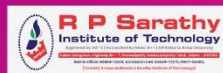
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STUDENT PARTICIPATION



Certificate of Presentation

This is to certify that

Lavanya R

has successfully presented the paper entitled

Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision

at the

3rd International Conference on

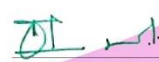
Applied Artificial Intelligence and Computing (ICAIC 2024) organized by

R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.


Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan



Lavanya R, IV Year Student, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision**” on 6th June 2024.

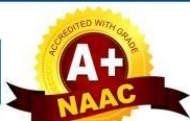
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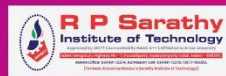
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STUDENT PARTICIPATION



Certificate of Presentation

This is to certify that

Karthick G

has successfully presented the paper entitled

Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision

at the

3rd International Conference on

Applied Artificial Intelligence and Computing (ICAIC 2024) organized by

R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.




Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan

Karthick G, IV Year Student, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Safe Road AI: Real-Time Smart Accident Detection for Multi-Angle Crash Videos using Deep Learning Techniques and Computer Vision**” on 6th June 2024.

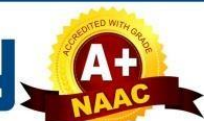
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STUDENT PARTICIPATION



Karthikeyan R, IV Year Student, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision**” on 6th June 2024.

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STUDENT PARTICIPATION



Certificate of Presentation

This is to certify that

Keerthana G

has successfully presented the paper entitled

Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision

at the

3rd International Conference on

Applied Artificial Intelligence and Computing (ICAAIC 2024) organized by

R P Sarathy Institute of Technology, Salem, India

on 5-7, June 2024.




Session Chair


Organizing Chair
Dr. R. Vasanthi


Conference Chair
Dr. Munusami Viswanathan

Keerthana G, IV Year Student, Department of Information Technology had attended the **IEEE International Conference** at **R P Sarathy Institute of Technology**, and presented their projects titled “**Face Recognition based Automated Smart Attendance using Hybrid Machine Learning Algorithms and Computer Vision**” on 6th June 2024.

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STUDENT PARTICIPATION



Ranjith Kumar M, II Year Student, Electronics and Communication Engineering has completed one month of internship training at **Lucas-TVS Ltd**, Padi , Chennai from 22.04. 2024 -21.05.2024.

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STUDENT PARTICIPATION



Magic Menporul Software Solutions Private Limited
1/2 Tranquil Nest, Kamakoti Nagar,
Pallikaranai, Chennai-600100

June 5, 2024

TO WHOM SO EVER IT MAY CONCERN

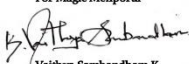
This is to certify that **Manoj M** has completed his internship as a Robotics and IoT Trainer. The internship period was from 2.05.2024 to 30.05.2024.

As a Robotics and IoT Trainer, he trained a class of 40 first-year Polytechnic students in the basic concepts of Robotics, Electricals, Electronics, Programming, and Arduino.

This training was conducted on behalf of Magic Menporul Software Solutions Private Limited for the students of RKM Students Home Polytechnic College, Mylapore.

A remuneration of INR 10000 was given to him for his work.

With Best Wishes,
For Magic Menporul



Vaithya Sambandham K
Director





Magic Menporul Software Solutions Private Limited
1/2 Tranquil Nest, Kamakoti Nagar,
Pallikaranai, Chennai-600100

June 5, 2024

TO WHOM SO EVER IT MAY CONCERN

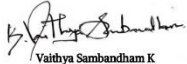
This is to certify that **Vignesh S** has completed his internship as a Robotics and IoT Trainer. The internship period was from 2.05.2024 to 30.05.2024.

As a Robotics and IoT Trainer, he trained a class of 40 first-year Polytechnic students in the basic concepts of Robotics, Electricals, Electronics, Programming, and Arduino.

This training was conducted on behalf of Magic Menporul Software Solutions Private Limited for the students of RKM Students Home Polytechnic College, Mylapore.

A remuneration of INR 10000 was given to him for his work.

With Best Wishes,
For Magic Menporul



Vaithya Sambandham K
Director



Vignesh S and Manoj M, II Year Students, Electronics and Communication Engineering have completed one month internship training at Magic Menporul Software Solutions Private Limited, Mylapore, Chennai from 02.05.2024 - 30.05.2024.

BE AN ACTIONEER, ASPIRE TO BE THE BEST

ONLINE COURSE COMPLETION



Dr. Balaji Madhavan, Head, Department of **Computer Science & Engineering**, has completed an online course on, **“Data Structures in C”** provided by **Great Learning** during **June 2024..**

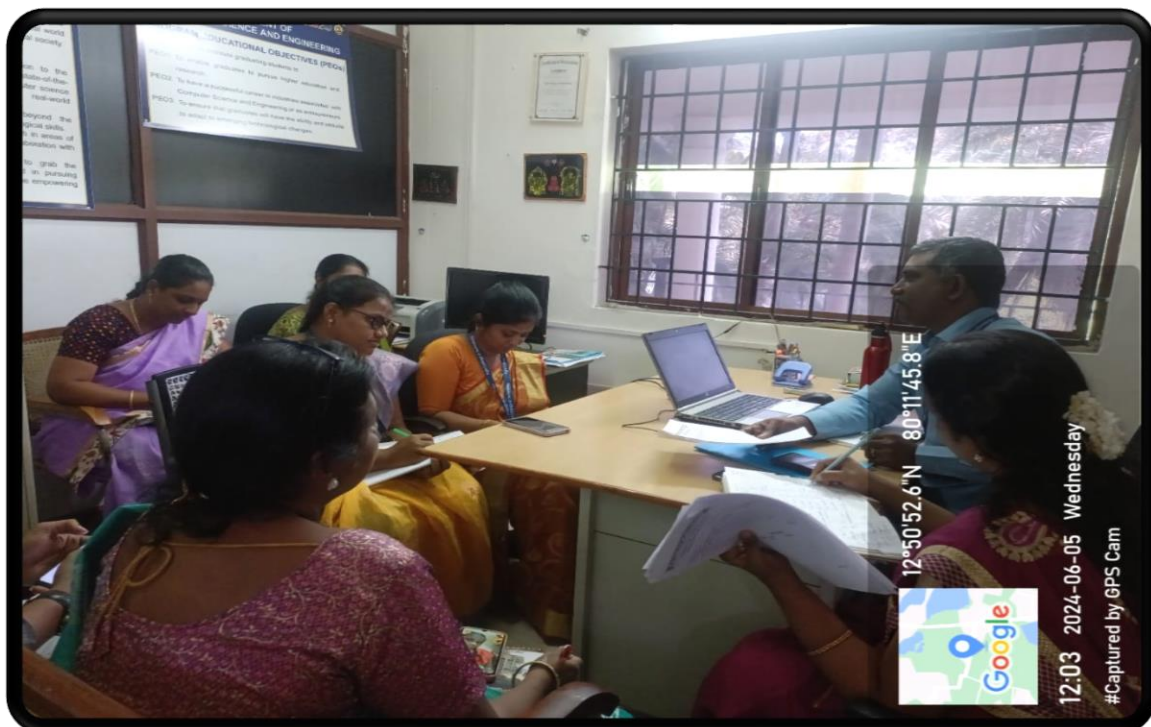
FAREWELL DAY



The **CSE Faculty Members** and **III rd Year students of CSE Department** conducted the **“Farewell Function”** on **1st June 2024** between **2pm -3:45pm**. Guidance and advice to the outgoing students were given by our **Principal, Dr. Srinivasan Alavandar** and the farewell address was given by **Dr. Balaji Madhavan, HoD of CSE department**. The vote of thanks was given by **Mrs. G. Uma devi** , Assistant Professor of CSE Department.

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DEPARTMENT MEETING



Dr. Balaji Madhavan, Head, Department of **Computer Science & Engineering**, convened a department meeting on **JUNE 5th,2024**. The agenda included discussions on Subject Allocation based on the willingness and competency of the faculty members.

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