



You Choose, We Do It
St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)

St. Joseph's Group of Institutions

OMR, Chennai - 119



JULY 2024

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE/HACKATHON	<i>Dr. R Pugalenti, Professor and Head of the Department and Mr. Senthil Kumar D, Assistant Professor have successfully participated in the Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)" organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024.</i>



**COMPETITIONS ATTENDED BY STUDENTS
/STUDENTS CERTIFICATION**

2.



Mr Guruprasath M, Final Year, has successfully completed all requirements and Criteria for “Certified Ethical Hacker”, a certification through examination administered by EC-Council, valid through 24 July 2027.



*Ms Jeevitha M, Final Year , has successfully completed her certification in “ **Business Intelligence Using Power BI eLearning**”*

AWARDS/PRIZE WON BY STUDENTS

3.




*Mr Dhanush Kumar R, Final Year, has earned a badge / certificate from **Microsoft MVP** and **Student Ambassadors Communities**, in recognition*

St. JOSEPH'S COLLEGE OF ENGINEERING
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OMM, CHENNAI - 119



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

ACHIEVEMENT

Congratulations to
our ADS student
Bhavana S for
publishing her first
book



III - A




<https://amzn.to/46yL6HV>

St. JOSEPH'S
OMM, CHENNAI - 119

*The Choice of
Disciplined Toppers*

*of leading a team in **Microsoft Student Learn
Ambassador Hackathon.***

		<p>Our <i>Third Year</i> Student, <i>Ms. Bhavana S</i> has published her first book of Short Stories and Poems "<i>My Creations</i>". The book has been available on Amazon <i>Link:</i>https://www.amazon.in/Poetry-book-My-Creations-Bhavana/dp/9360838152?source=ps-sl-shoppingads-lpcontext&ref_=fplfs&psc=1&smid=A15DBATYR506U3</p>
4.	INDUSTRIAL PROJECTS DONE BY STUDENTS/	

	<p style="text-align: center;">\ INTERNSHIP WITH STIPEND</p> 	<p style="text-align: center;"><i>Our Final Year Student Mr. Harisudhan S, has got an Paid Internship (Stipend: \$350) at VERCHOOOL HOLDINGS LTD as DATA SCIENTIST.</i></p>
<p>5.</p>	<p>PUBLICATIONS(ONLY PUBLISHED) DETAILS</p>	

Transfer Learning and Fine-tuned CNN Architecture for Dog Breed Classification

Publisher: IEEE [Cite This](#) [PDF](#)

K Gunaranjan ; K Vijay ; P Navaneethan **All Authors**

Abstract:
This study presents a comprehensive approach to dog breed classification, leveraging transfer learning algorithms and Convolutional Neural Networks (CNNs). The dataset utilized for training and evaluation is sourced from the Dog Breed Identification Dataset, encompassing 120 distinct breeds. A pre-trained CNN model is employed, and through the application of transfer learning, the proposed models achieve an impressive accuracy rate of 98%. The primary objective is to enable users to submit images of dogs, with the model accurately identifying the specific breed from the diverse dataset. The research underscores the efficacy of transfer learning and pretrained models in achieving exceptional accuracy for the nuanced task of dog breed classification, contributing to the advancements in image recognition within the context of diverse canine breeds.

Document Sections:
I. Introduction
II. Literature Survey
III. Proposed Methodology
IV. Results and Discussion
V. Conclusion

Published in: 2024 3rd International Conference on Artificial Intelligence For Internet of Things (AIIoT)

Authors: Date of Conference: 03-04 May 2024 **DOI:** 10.1109/AIIoT58432.2024.10574709

Figures: Date Added to IEEE Xplore: 02 July 2024 **Publisher:** IEEE

References: **ISBN Information:** **Conference Location:** Vellore, India

ML Model For Detection of Depression in Menopause Women

Publisher: IEEE [Cite This](#) [PDF](#)

Kasey Ann Britto ; D. T Varnikaa ; R Sathishkumar ; E Anita Dolorosa **All Authors**

Abstract:
Menopause, an inevitable milestone in a woman's journey, signifies not only the onset of physical transformations but also the potential emergence of mental health complexities. This study investigates the potential of machine learning to predict depression in menopausal women, aiming to improve their well-being. Depression is a prevalent concern during menopause yet limited specialist access and knowledge gaps hinder effective intervention. We have developed a supervised multi-class machine learning system to predict depression and its severity, evaluating various classification algorithms. Our findings demonstrate high accuracy (97%) using a Random Forest model, suggesting promise as an AI-powered tool in this domain.

Document Sections:
I. Introduction
II. Literature Review
III. Methodology
IV. Data Analysis
V. Experimental Results

Published in: 2024 3rd International Conference on Artificial Intelligence For Internet of Things (AIIoT)

Authors: Date of Conference: 03-04 May 2024 **DOI:** 10.1109/AIIoT58432.2024.10574652

Figures: Date Added to IEEE Xplore: 02 July 2024 **Publisher:** IEEE

References: **ISBN Information:** **Conference Location:** Vellore, India

K GUNARANJAN and Mr. K VIJAY, final year students, have presented their latest research work “Transfer Learning and Fine-tuned CNN Architecture for Dog Breed Classification” in “3rd International Conference on Artificial Intelligence For Internet of Things (AIIoT) - 2024” and their paper has been Published in IEEE Xplore.

Ms. KASEY ANN BRITTO and Ms. D. T VARNIKAA, final year students have presented their latest research work “ML Model for Detection of Depression in Menopause Women” in “3rd International Conference on Artificial Intelligence for Internet of Things (AIIoT) - 2024” and their paper has been Published in IEEE Xplore

6.	FUNDED PROJECTS	
7.	<p>STAFF CONFERENCE PRESENTATION /PATENT PUBLISHED/STAFF NPTEL ONLINE CERTIFICATION/ STAFF ACHIEVEMENT</p>  <p>The image shows a certificate from NPTEL (National Programme on Technology Enhanced Learning) recognizing Dr. M.P. Rajkumar, Professor at St. Joseph's College of Engineering. The certificate lists 11 awards: Domain Scholar (2), Enthusiasts (1), Believers (3), Evangelists (1), Motivated Learners (1), and Disciplined Stars (3). The awards are for the periods of January to April 2024 and July to December 2023/2022. The certificate also mentions the Department of Artificial Intelligence & Data Science and the institution's website, www.stjosephs.ac.in.</p>	<p><i>Dr. M.P. Rajakumar, Professor, has been recognized as NPTEL DOMAIN SCHOLARS for the Domains DATA SCIENCE and OPERATIONS for January - April - 2024 and also recognized as NPTEL BELIEVERS for January - April – 2024</i></p>

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application : 13/07/2024

(21) Application No: 20241105357 A
(43) Publication Date : 02/08/2024

(54) Title of the invention : MACHINE LEARNING-DRIVEN KIDNEY STONE DETECTION AND PREDICTION USING ULTRASONOGRAPHIC IMAGE PROCESSING

(51) International classification : A61B00080000, G06T00050000, A61B00010000,
A61P00312000, G01S00752000
(86) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional Application Number : NA
Filing Date : NA

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JDR. Sathishkumar Swaminathan
JPrasanth Pattnayak
SriHemangi Usharani
J.R. Sathishkumar
J.Sathishkar Rathala
JDr. K. Balu
JMr. Prasanna Ravindra Desale
JMahendra Govindrao Gadge
JProf. Akshay Ashok Mankajode
JDr. Dattaraya B. Nalawade
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JMr. Prasanna Ravindra Desale
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JMahendra Govindrao Gadge
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JProf. Akshay Ashok Mankajode
Address of Applicant : Assistant Professor, Department of Mechanical Engineering, Valsavakarma Institute of Information Technology Pune-411048, Maharashtra, India. -----
JDr. Dattaraya B. Nalawade
Address of Applicant : Assistant Professor, Department of Mechanical Engineering, Valsavakarma Institute of Information Technology, Pune 411048, Maharashtra, India. -----

(57) Abstract :
MACHINE LEARNING-DRIVEN KIDNEY STONE DETECTION AND PREDICTION USING ULTRASONOGRAPHIC IMAGE PROCESSING The method for the development of kidney stones (nephrolithiasis) is a frequent urological condition with a high recurrence rate. This is a progressive condition that causes kidney damage, resulting in a persistent and unresolved issue. As a result, detecting kidney stone illness early is critical to preventing irreparable harm. If the stone problem is detected early on, kidney disease can be efficiently addressed. As a result, stone detection is critical for both the therapy of renal disease and the management of recurring stone development. Hence, early identification of kidney stones is vital. Ultrasound imaging is one of the imaging modalities available for diagnosing kidney problems, which might include changes in form and location, as well as swelling of the lumen. During surgical procedures, it is critical to identify the real and accurate position of the kidney stones. Kidney stones are difficult to detect via ultrasonic imaging due to their poor contrast and speckle noise. This problem is solved by using appropriate image processing techniques. Medical imaging is the most important type of imaging since it is utilized in very sensitive fields and must be correct. In this project, we start by enhancing the image using the median filter, Gaussian filter, and anisotropic smoothing (ITC).

No. of Pages : 14 No. of Claims : 1

Mr. Sathishkumar R, Assistant Professor, has successfully published a *pattern* "MACHINE LEARNING-DRIVEN KIDNEY STONE DETECTION AND PREDICTION USING ULTRASONOGRAPHIC IMAGE PROCESSING" Publication Date: 02/08/2024

12) PATENT APPLICATION PUBLICATION (21) Application No:202441051952 A
19) INDIA
22) Date of filing of Application :07/07/2024 (43) Publication Date : 12/07/2024

54) Title of the invention : A SYSTEM AND METHOD OF SOCIAL MEDIA MARKETING INFLUENCES CONSUMER PERCEPTIONS AND BRAND LOYALTY

51) International Classification G06Q03/00(2000), G06N02/00(2000), G06F00/13(4000), G06N00/50(4000), G06Q01/00(2000)

86) International Application No : NA
Filing Date : NA

87) International Publication No : NA

61) Patent of Addition Application Number : NA
Filing Date : NA

62) Divisional Application Number : NA
Filing Date : NA

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2)Prof. (Dr.) Anila Rajput
3)V. Sathya
4)Ajajali Raj
5)Dr. Shardha Parvith
6)Dr. Anandh Puri
Name of Applicant : NA
Address of Applicant : NA


(72) Name of Inventor :
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Address of Applicant :Associate Professor, Career Development Centre, SRM Institute of Science and Technology, Kattankulathur-603203 -----
2)Prof. (Dr.) Anila Rajput
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5)Dr. Shardha Parvith
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6)Dr. Anandh Puri
Address of Applicant : Assistant Professor, Kanuru PG Mahila Mahavidyalaya, Japur, 502004 -----

57) Abstract:
This system and method leverage social media marketing to influence consumer perceptions and build brand loyalty through a multi-faceted approach. It integrates real-time data collection, advanced analytics, and predictive modeling to understand and anticipate consumer behavior. The system optimizes content distribution across platforms, engages consumers through personalized interactions, and collaborates with key influencers for authentic promotion. It incorporates dynamic loyalty programs, robust performance monitoring, and continuous optimization via A/B testing. The use of AI and machine learning enhances automation and personalization, while cloud-based infrastructure ensures scalability and flexibility. By seamlessly integrating with existing marketing tools and employing a feedback-driven improvement process, this system effectively enhances brand perception, increases consumer loyalty, and drives sales.

Mrs. Sathya V, Assistant Professor, has successfully published a **Pattern** "A SYSTEM AND METHOD OF SOCIAL MEDIA MARKETING INFLUENCES CONSUMER PERCEPTIONS AND BRAND"

Publication Date: 12/07/2024

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Sl. No .	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	 <p>Published a paper in SCI Indexed Paper.</p>	<p>Optimizing Energy Resources in WSNs: ARIMA Feature Selection Meets Adaptive Reinforcement Learning S Anslam Sibi and L Sherly Puspha Annabel.</p> <p>Abstract: Efficient energy management in WSNs is pivotal for prolonged network lifetime and sustained performance. This research introduces a novel approach to energy optimization through the integration of an ARIMA-driven feature selection process and an Actor-Critic Reinforcement Learning model. The Intel Lab dataset, encompassing data from 54 nodes distributed over a month, serves as the basis for experimentation. In the proposed methodology, the experimental setup ensures the validity of the study, leveraging the realism of the Intel Lab dataset. The data collection process captures the intricacies of WSN dynamics, with temperature records collected from strategically positioned nodes. The ARIMA-driven feature selection method refines the dataset, capturing temporal dependencies critical for energy prediction. The Actor-Critic model, a hybrid of policy and value-based reinforcement learning, dynamically adapts energy allocation strategies based on learned policies and offers a dynamic solution to the challenges posed by WSNs' ever-changing environments. Comparative analysis with methods reveals lower energy consumption of 0.32 mJ, an extended network lifetime of 1501 rounds, and higher prediction accuracy of 98%. The study's implications extend beyond the specific algorithms, suggesting a shift toward adaptive learning models in WSNs. The findings open avenues for future research in the integration of machine learning models for sustainable and efficient WSN deployments, emphasizing the growing importance of dynamic adaptation in sensor networks. Moreover, limitations, such as simulation realism and computational complexity, are acknowledged, prompting avenues for future research.</p>

2

Ms. K. Deepa
Published a design
patent

Office of the Controller General of Patents, Designs & Trade Marks
Ministry of Commerce and Industry, Government of India

Application Details

APPLICATION NUMBER: 202441045112
APPLICATION TYPE: INVENTIVE APPLICATION
DATE OF FILING: 11/06/2024
APPLICANT NAME: K. Deepa
INVENTOR NAME: 1. Dr. Kishore B. Vijaykumar N. Pawar, Dheeraj Namdev, Dr. Prasanna B T, Priyadharsini P, K. Deepa, Dr. Akhilesh A. Wao, Dr. Jnaneshwar Pai Maroor, Dr. M. Selvi, R Suresh
TITLE OF INVENTION: AI based Cyber Security intrusion detection system for data fusion in mobile clouds using deep learning
FIELD OF INVENTION: COMPUTER SOFTWARE
E-MAIL (Inventor): kdeepa01@gmail.com
ADDITIONAL E-MAIL (Inventor):
INVENTOR NAME:
REQUEST FOR EXAMINATION DATE:
PUBLICATION DATE (EPC): 21/06/2024

Application Status

APPLICATION STATUS: **Awaiting Request for Examination**

View Documents

Filed Under Examination Disposed

In case of any discrepancy in data, kindly contact us at ipd@ipc.gov.in

Title of the invention: AI based Cyber Security intrusion detection system for data fusion in mobile clouds using deep learning.

Dr. Kishore B.
Vijaykumar N. Pawar
Dheeraj Namdev
Dr Prasanna B T
Priyadharsini P
K. Deepa
Dr. Akhilesh A. Wao
Dr. Jnaneshwar Pai Maroor
Dr. M. Selvi
R Suresh

Patent Application Number: 202441045112

Date of filing of Application: 11.06.2024

Date of Issue: 21.06.2024


DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
1.	COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS	
2.	INDUSTRIAL VISIT	<p>Dr. S. Vinod Kumar and Dr. N. Magesh engaged in productive discussions regarding Industrial Institute Collaoboration with Mr. Manikandan, AGM, Aavin Dairy Corporation, Chennai.</p> <p>Dr. P. Renuka and Dr. S. Sujatha from the Department of Chemical Engineering at St. Joseph's College of Engineering recently held a productive meeting with Mr. Prasad, Vice President of Nippo Indo Pvt Ltd.</p> <p>Dr. S. Vinod Kumar and Dr. N. Magesh from the Department of Chemical Engineering at St. Joseph's College of Engineering recently met with Mr. Thiruvengadam, Senior Manager at Strides Pharma (Vivimed), Aalathur.</p>
3.	NGO	IIIrd Year Chemical Engineering Students had a NGO Visit to “Love Care center” Kanchipuram on 20.07.2024.
4.	NPTEL/COURSERA	Mr.Santhosh KJ of IIIrd Year Chemical has Succesfully Completed a course on “Introduction to Data Analysis using Microsoft Excel” certified by Coursera
5.	PUBLICATIONS(ONLY PUBLISHED) DETAILS	Mr.Dinesh Aravind and Mr. Ranjith of IV Year chemical has published a paper on topic “Sustainability considerations in bio-hydrogen from bio-algae with the aid of bio-algae cultivation and

		<p>harvesting: Critical review” in MRS Energy & Sustainability journal with an Impact factor of 3.3</p> <p>Mr.Sanjay S of IV Year chemical has published a paper on topic “Recent research progress on the removal of heavy metals from wastewater using modified zeolites: A critical review ” in Desalination and Water Treatment journal with an Impact factor of 1.0.</p>
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	<p>Alumni talk</p>  <p>The poster is for an 'ALUMINI TALK' event presented by the Department of Computer Science and Engineering. It features two speakers: S SUDHIR and Mohammed Taher R. The event is scheduled for 01 July, 2024, from 06:30pm to 07:30 pm. The meeting link is https://meet.google.com/imj-mqtt-ntf. The poster also includes a QR code and the text 'SCAN ME'.</p>	<p>Date: 1-7-24 Venue: online Nature of Event: Alumni talk Participants: Final year Students Organized by: Department of CSE Objective:</p> <ul style="list-style-type: none"> Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences. Alumni may share their career journeys, lessons learned and advice for navigating the job market. Alumni talks can facilitate networking opportunities between current students and alumni. <p>Outcome:</p> <ul style="list-style-type: none"> Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field. Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.

2

Alumni talk –ROOT QUOTIENT



The poster is for an Alumni Talk event organized by the Department of Computer Science & Engineering at St. Joseph's Group of Institutions. It features two speakers: Mohith Aakash G, a Software Development Engineer at RootQuotient, and B Tamilselvan, also a Software Development Engineer at RootQuotient. The event is scheduled for 19-07-2024 from 06:30 to 07:00 PM. The meeting link is <https://meet.google.com/imj-mqtt-ntf>. The poster includes logos for RootQuotient and St. Joseph's Group of Institutions, along with the motto 'The Choice of Disciplined Toppers'.

Department of Computer Science & Engineering
Organizes
ALUMNI TALK

Mohith Aakash G
Software Development Engineer
RootQuotient

B Tamilselvan
Software Development Engineer
RootQuotient

DATE: 19-07-2024 <https://meet.google.com/imj-mqtt-ntf> TIME: 06:30 - 07:00 PM

31 St. JOSEPH'S GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

The Choice of Disciplined Toppers

Date: 19-7-24

Venue: Virtual

Nature of Event: Alumni talk

Participant: IV-year Students

Organized by: Department of CSE

Objective:

- Alumni talks can facilitate networking opportunities between current students and alumni.
- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni may share their career journeys, lessons learned and advice for navigating the job market.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.

3

Alumni talk – KAAR Technologies

Date: 4.07.2024

Venue: Virtual

Nature of Event: Alumni talk

Participants: IV year Students

Organized by: Department of CSE

Objective:

- Alumni talks can facilitate networking opportunities between current students and alumni.
- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni may share their career journeys, lessons learned and advice for navigating the job market.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.

4

Alumni talk – Worldline



Date: 5.07.2024

Venue: Virtual

Nature of Event: Alumni talk

Participants: IV year Students

Organized by: Department of CSE

Objective:

- Alumni may share their career journeys, lessons learned and advice for navigating the job market.
- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni talks can facilitate networking opportunities between current students and alumni.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.

5

Alumni talk – Avasoft

Presents

**THE PLACEMENT RACE :
SENIORS GUIDE TO ACE
INTERVIEW**

6th JULY, 2024

<https://meet.google.com/imj-mqtt-ntf>

6:00 PM - 7:00PM

**Ms. Dharani Manne
AI/ML Engineer
Batch:2020-2024**

Date: 6.07.2024

Venue: Virtual

Nature of Event: Alumni talk

Participants: IV year Students

Organized by: Department of CSE

Objective:

- Alumni talks can facilitate networking opportunities between current students and alumni.
- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni may share their career journeys, lessons learned and advice for navigating the job market.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit

		attendees throughout their careers.
6	Alumni talk – Musigma	
	 <p>The poster is for an 'ALUMINI TALK' event presented by the Department of Computer Science and Engineering. It features a circular portrait of Mr. Srinivasa Seshadri K, a Trainee Decision Scientist. The event is scheduled for 16 July, 2024, from 06:00 pm to 6:30 pm. A QR code is provided for the meeting link. Logos for '@' and 'UOT' are visible, along with the text 'Mu Sigma'.</p>	<p>Date: 16.07.2024 Venue: Virtual Nature of Event: Alumni talk Participants: IV year Students Organized by: Department of CSE</p> <p>Objective:</p> <ul style="list-style-type: none"> • Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences. • Alumni may share their career journeys, lessons learned and advice for navigating the job market. • Alumni talks can facilitate networking opportunities between current students and alumni. <p>Outcome:</p> <ul style="list-style-type: none"> • Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field. • Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers

7

Alumni talk – Accenture



Date: 27.07.2024

Venue: Virtual

Nature of Event: Alumni talk

Participants: IV year Students

Organized by: Department of CSE

Objective:

- Alumni talks often aim to provide current students with valuable insights into various career paths, industries, and professional experiences.
- Alumni may share their career journeys, lessons learned and advice for navigating the job market.
- Alumni talks can facilitate networking opportunities between current students and alumni.

Outcome:

- Alumni talks create opportunities for attendees to connect with alumni who may serve as valuable mentors, advisors, or contacts in their desired field.
- Building relationships with alumni can lead to internships, job opportunities, and professional connections that can benefit attendees throughout their careers.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Events conducted:

The following events have been conducted during July 2024 at College Level

1. A) Alumni Talk 1	Report
	<p>TITLE : Pre Placement Talk for Multicoreware Recruitment</p> <p>DATE : 3rd July 2024</p> <p>Speaker: Arul Samuel I, C++ Optimization Engineer at Multicoreware</p> <p>On 3rd July 2024, our esteemed alumnus Arul Samuel I, currently working as a C++ Optimization Engineer at Multicoreware, conducted an insightful pre placement talk for our students. The online session, held from 6:00 PM to 7:00 PM, saw active participation from eligible students keen on pursuing a career at Multicoreware.</p> <p>Key Points Discussed:</p> <ul style="list-style-type: none">• Technical Proficiency: Strong C++ programming, algorithms, and system-level understanding.• Logical Reasoning: Critical for problem-solving and code efficiency.



St. JOSEPH'S COLLEGE OF ENGINEERING

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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**



PLACEMENT TALK

On
FROM CAMPUS TO MULTICOREWARE
for Batch 2021- 2025



ARUL SAMUEL I

Alumni : 2019 -2023 Batch
C++ Optimization Engineer



meet.google.com/niv-rgvm-mjv



3rd July



6.00 P.M -7.00P.M



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*The Choice of
Disciplined Toppers*

- Data Structures: Essential for optimized code development.
- Code Optimization: Improve code performance through various techniques.
- Array Mastery: Efficiently handle array-based tasks.



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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**



PLACEMENT TALK BY ELITE ALUMNI

On
FROM CAMPUS TO MULTICOREWARE



ARUL SAMUEL I

C++ Optimization Engineer
MulticoreWare

3rd July , 6.00 P.M -7.00P.M



KEY POINTS DISCUSSED

- The mandatory skills needed.
- Importance of logical thinking.
- Art of solving problems with your expertise.
- Applying data structure concepts.
- Code optimization concepts.
- Mastering tasks with arrays.
- Career in Multicoreware.



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*The Choice of
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B) Alumni Talk 2



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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**



PLACEMENT TALK

On

AVASOFT - ALUMNI INSIGHTS

for Batch 2021-2025



ANAND. E

Alumni : 2019 -2023 Batch
Mobile Application Developer



meet.google.com/niv-rgvm-mjv



6th July



6.00 P.M -7.00P.M



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TITLE : : Pre Placement Talk for AVASOFT Recruitment

DATE : 6th July 2024

The session received positive feedback from the participants, who appreciated the practical advice and real-world insights provided by Mr. Anand. Many students expressed their enthusiasm to implement the guidance received during the talk.

We look forward to organizing more such events in the future to continue supporting our students in their professional development.



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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**



PLACEMENT TALK

On

AVASOFT - ALUMNI INSIGHTS



ANAND. E

Alumni : 2019 -2023 Batch

Mobile Application Developer



6th July 6.00 P.M -7.00P.M



KEY POINTS DISCUSSED

- The mandatory skills needed.
- Importance of group discussions.
- Art of solving problems with your expertise.
- Importance of explaining concept behind solutions.
- Mastering tasks with arrays.
- Career in Avasoft.



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C) Alumni Talk 3

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PLACEMENT TALK
On
KAAR TECHNOLOGIES MASTERCLASS
for Batch 2021-2025

NOEL JULIANA TABERT JONES
Alumni : 2019 -2023 Batch
CPI Trainee
Kaar Technologies

meet.google.com/niv-rgvm-mjv

7th July 6.00 P.M -7.00P.M

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The Choice of Disciplined Toppers

TITLE : Pre Placement Talk for KAAR TECHNOLOGIES Recruitment

DATE : 7th July 2024

On July 7th, alumna Ms. Noel Juliana Tabert Jones, a CPI Trainee at Kaar Technologies, conducted a pre-placement talk for our students. She emphasized the importance of technical and soft skills, including programming, communication, and resume preparation. Ms. Jones also provided insights into Kaar Technologies, group discussion etiquette, and programming round preparation.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



PLACEMENT TALK
 On
KAAR TECHNOLOGIES MASTERCLASS



NOEL JULIANA TABERT JONES
 Alumni : 2019 -2023 Batch
 CPI Trainee
 Kaar Technologies

7th July, 6.00 pm -7.00 pm



KEY POINTS DISCUSSED

- The mandatory skills needed.
- About the company profile and business process.
- Importance of communication.
- Importance of knowing your Resume.
- Group Discussion etiquettes.
- Topics to refresh for Programming Rounds.
- Life in Kaar Technologies.



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D) Alumni Talk 4

TITLE : Placement Talk by Elite Alumni Mr. Lourdes Dinesh
DATE : 20th July 2024



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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**



PLACEMENT TALK BY ELITE ALUMNI

On

CRACKING A PROGRAMMING INTERVIEW
for Batch 2021- 2025



LOURDES DINESH

Batch : 2015-2019

Senior Software Engineer

Eka Care

The Hive, VR Bengaluru



20th July
1.00 P.M -3.00P.M



Venue
AV Hall, Library



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Disciplined Toppers

On July 20th, alumnus Mr. Lourdes Dinesh, a Senior Software Engineer at Eka Care, conducted a workshop on cracking programming interviews for 180 students. He shared insights on interview formats, preparation strategies, practical tips, and real-life experiences. The session was well-received, boosting students' confidence and providing valuable guidance.



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**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**
PLACEMENT TALK BY ELITE ALUMNI



On
CRACKING A PROGRAMMING INTERVIEW



LOURDES DINESH

Senior Software Engineer

📍 **Eka Care**

The Hive, VR Bengaluru

📅 **20th July**
🕒 **1.00 P.M - 3.00P.M**

📍 **Venue**
AV Hall, Library

KEY POINTS DISCUSSED

- Importance of mastering fundamental data structures and algorithms, such as arrays, linked lists, and dynamic programming.chnologies.
- Practical coding practice on platforms like HackerRank was recommended to improve problem-solving speed and accuracy.



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2. A) SEERA Activity -1 (Final year)

Report

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SEERA STUDENT EMPLOYABILITY ENHANCEMENT & RESEARCH ACTIVITY

HIGHER PACKAGE PLACEMENT
Dr. D. Lakshmi Asso. Prof.,
Dr. P. Latha Asso. Prof.,
📍 Room No:121

PLACEMENT
Mr. G. D. Vignesh Asst. Prof.,
Mr. P. Elaveni Asst. Prof.,
📍 Room No:122

HIGHER STUDIES
Dr. Shirley Selvan Asso. Prof.,
Mrs. G. Anitha Asst. Prof.,
📍 Room No:127

SPECIAL COACHING
Mrs. E. Malarvizhi Asst. Prof.,
📍 Room No:126

COMMUNICATION
Dr. P. Ezhilarasi Prof.,
Mrs. S. Devipriya Asst. Prof.,
📍 Room No:123 & 1st Floor Lab

📅 15.07.2024 ⌚ 3:30 PM TO 5:00PM

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The Choice of Disciplined Toppers

On 15^h July 2024 SEERA class was held for final year students. The following activities were conducted:-

- **Placement:** Led by Mr. M. Lingeswaran and Mr. G. D. Vignesh, the session focused on improving problem-solving skills through technical training.
- **Communication:** Students were divided into teams to discuss various topics, enhancing their communication abilities.
- **Skill Rack:** Students practiced coding in different languages to strengthen their technical knowledge.
- **Higher Studies:** Dr. Shirleyselvan and Dr. M. Suresh guided students interested in pursuing higher education.
- **High Package Placement:** Dr. P. Latha and Dr. D. Lakshmi motivated students to aim for high-paying jobs and provided interview preparation.
- **Special Class:** Mrs. E. Malarvizhi offered a foundational course in Digital Electronics for students requiring additional support.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



SEERA

STUDENT EMPLOYABILITY
ENHANCEMENT &
RESEARCH ACTIVITY



Batch 2021-25



PLACEMENT



SKILL RACK



HIGH PACKAGE PLACEMENT



COMMUNICATION



SPECIAL COACHING



HIGHER STUDIES

📅 15.07.2024



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B) SEERA Activity - 2 (Final year)

On 22th July 2024 SEERA class was held for final year students. The following activities were conducted:-

- **Placement:** Resume Building 101, handled by Mrs. P. Elaveni.
- **High Package Placement:** Directing Campus Hiring, conducted



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SEERA

STUDENT EMPLOYABILITY
ENHANCEMENT &
RESEARCH ACTIVITY



HIGHER PACKAGE PLACEMENT

Directing Campus Hiring:
Mock Interview



VISHAL S
312321106189

Staff Co-ordinator
Dr.D.Lakshmi Asso.Prof.,
Dr.P.Latha Asso. Prof.,
Room No:122

HIGHER STUDIES

Navigating Success: The Strategic Role of
Higher Education



DUSARI KAUSHIK RAGHAVA
312321106057

Staff Co-ordinator
Dr. Shirley Selvan Asso.Prof.,
Mrs.G.Anitha Asst. Prof.,
Room No:123

SKILL RACK

SKILL RACK Practice

Staff Co-ordinator
Dr.P.Ezhilarasi Prof.,
Mrs.S.Devipriya Asst. Prof.,
ECE Lab (Floor 1)

PLACEMENT

Resume Building 101 - Stand out
in the Job Market

Staff Co-ordinator
Mr.G.D.Vignesh Asst.Prof.,
Mr.P.Elaveni Asst. Prof.,
Room No:121

SPECIAL CLASS

Digital Electronics

Mrs.E.Malarvizhi Asst.Prof.,
Room No:126

COMMUNICATION

Ultimate Guide to Success : Mastering
the HR interview

Dr. Shirley Selvan Asso.Prof.,
Mrs.G.Anitha Asst. Prof.,
Room No: ECE Lab(Floor 1)



22.07.2024



3:30 PM TO 5:00PM



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The Choice of
Disciplined Toppers

by Mr. G. D. Vignesh.

- **ABHS:** Mock Interview, guided by Dr. P. Latha and Dr. D. Lakshmi.
- **Communication:** Navigating Success, facilitated by Dr. Shirley Selvan and Mrs. G. Anitha.
- **Skill Rack:** Mastering the HR interview, handled by Dr. P. Ezhilarasi and Mrs. S. Devipriya.
- **Slow Learner:** SKILL RACK Practice, conducted by Mrs. E. Malarvizhi.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



SEERA

STUDENT EMPLOYABILITY
ENHANCEMENT &
RESEARCH ACTIVITY



Batch 2021-25

OUTCOME



- Got awareness about the higher education opportunities.
- Got clear understanding of Ins and Outs of IELTS.
- Understood about the admission process across the horizons.
- Students defined their objectives for their resume.
- They understood the correct order of presenting their resumes.
- Every one's resumes were checked and updated

📅 22.07.2024



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C) SEERA Activity - 3(Final year)

On 29th July 2024 SEERA class was held for final year students. The following activities were conducted:-

- **Placement:** Resume Screening (Dr. Shirley Selvan, Mrs. P.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



SEERA

STUDENT EMPLOYABILITY
ENHANCEMENT &
RESEARCH ACTIVITY



COMMUNICATION

Gateway to Greater Opportunities



ABISHAI
312321106004
Staff Co-ordinator
Dr.P.Ezhilarasi Prof.,
ECE lab (Floor I)

HIGHER STUDIES

Interpersonal skills for Interviews:
Confidence building



A.KELCI
312321106096
Staff Co-ordinator
Mrs.G.Anitha Asst. Prof.,
Room No:123

SKILL RACK

SKILL RACK Practice

Mrs.S.Devipriya Asst. Prof.,
ECE Lab (Floor 1)

PLACEMENT

Resume Screening

Dr. Shirley Selvan Asso.Prof.,
Mr.G.D.Vignesh Asst.Prof.,
Mr.P.Elaveni Asst. Prof.,
Room No:121,122

SPECIAL CLASS

Sensors and Transducers

Mrs.E.Malarvizhi Asst.Prof.,
Room No:128

HIGHER PACKAGE PLACEMENT

Mock interview to get career
opportunities in core companies

Dr.D.Lakshmi Asso.Prof.,
Dr.P.Latha Asso. Prof.,
Room No: 126,127



29.07.2024



3:30 PM TO 5:00PM



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The Choice of
Disciplined Toppers

Elaveni)

- **High Package Placement:** Mock Interview (Mr. G. D. Vignesh)
- **ABHS:** Interpersonal Skills (Dr. P. Latha, Dr. D. Lakshmi)
- **Communication:** Gateway to Opportunities (Mrs. G. Anitha)
- **Skill Rack:** SKILL RACK Practice (Dr. P. Ezhilarasi, Mrs. S. Devipriya)
- **Slow Learner:** Sensors and Transducers (Mrs. E. Malarvizhi)



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SEERA

STUDENT EMPLOYABILITY
ENHANCEMENT &
RESEARCH ACTIVITY



Batch 2021-25

OUTCOME

- Enhanced Resume Quality.
- Improved Resume Building Skills.
- Increased Knowledge from Alumni Experiences.
- Guidance on GATE Exam Preparation.
- Exploring Higher Studies
- Studying in India vs. Abroad.
- Procedures for Getting into Top Universities.
- Social Life Abroad



29.07.2024



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3.A) SEERA Activity - 1(Third year)	Report	



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SEERA

ABHS



DHARUN KUMAR R

IV ECE-A
 Topic: Higher Education -
 Gateway to Greater
 Opportunities



DHARANI SHREE V

IV ECE-A
 Topic: Higher Education -
 Gateway to Greater
 Opportunities

Staff Coordinators

Dr. VICTORIA JANCEE B
 Mrs. J. JASMINE MYSTICA K

HIGH PACKAGE PLACEMENT



VISHAL S

IV ECE-C
 Topic: Navigating Campus Hiring -
 Essential Strategies for Success

Staff Coordinators

Dr. AGHALYA S
 Dr. THENMOZHI P

SPECIAL CLASS



Dr. VINAYAGAPRIYA S

PLACEMENT



Dr. NIRUBAN R
 Mrs. MADHUMITHA R
 Mr. LINGESHWARAN M

GROUP DISCUSSION



Dr. SIVAGURUNATHAN
 Dr. SURESH M

SKILL RACK



Dr. RAMACHANDRA REDDY K



18.07.2024
 THURSDAY



ECE
 BLOCK



03:30 PM
 to
 05:00 PM



III ECE
 STUDENTS



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On 18th July 2024 SEERA class was held for third year students. The following activities were conducted:-

- **Placement:** Pre-final year students, under the guidance of Dr. Niruban R and Mrs Madhumitha R, led a session focusing on enhancing problem-solving skills through various strategies and techniques.
- **Group Discussion:** Students participated in group discussions on topics like women entrepreneurship, online education, and youth in politics.
- **Skill Rack:** Students improved their coding skills by solving problems in different programming languages.
- **ABHS:** Dharunkumar R and Dharani Shree V, conducted a session on career development and higher studies.
- **Higher Package Placement:** Vishal M, a ZOHO employee, shared his interview experience and resume-building tips.
- **Special Class:** An overview of linear integrated circuits was provided by Dr Vinayagapriya S, focusing on foundational principles and applications.



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ABHS

HIGH PACKAGE PLACEMENT

PLACEMENT



GROUP DISCUSSION

SKILL RACK



B) SEERA Activity - 2 (Third Year)



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 SEERA**

ABHS



SAI RAVI GANESH V
 IV ECE C

Topic: Expanding Horizons -
 The Benefits of Pursuing
 Higher Education

Staff Coordinators

Dr. VICTORIA JANCEE B
 Mrs. JASMINE MYSTICA K

SLOW LEARNERS



Dr. THENMOZHI P

Course: Medical Electronics

HIGH PACKAGE PLACEMENT



SAFFRON DIONYSIUS
 IV ECE C

Topic: Software Dev &
 Interview Tips

Staff Coordinators

Dr. AGHALYA S
 Dr. VINAYAGAPRIYA S

SKILL RACK



Dr. RAMACHANDRA REDDY K

PLACEMENT



Dr. NIRUBAN R
 Mrs. MADHUMITHA R
 Mr. LINGESHWARAN M

Topic: Resume Building and
 Customisation for different
 Companies

GROUP DISCUSSION



Dr. SIVAGURUNATHAN
 Dr. SURESH M



24.07.2024
 WEDNESDAY



ECE
 BLOCK



03:30 PM
 to
 05:00 PM



III ECE
 STUDENTS



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On 24th July 2024 SEERA class was held for third year students. The following activities were conducted:-

- **Placement:** Resume Building (Dr. R. Niruban, Mrs. R. Madhumitha)
- **Communication:** Group Discussion (Dr. S. Aghalya, Dr. S. Vinayagapriya)
- **Skill Rack:** Practice (Dr. B. Victoria Jancee, Mrs. K. Jasmine Mystica)
- **ABHS:** Expanding Horizons (Higher Education) (Dr. Sivagurunathan, Dr. M. Suresh)
- **Slow Learners:** Medical Electronics (Dr. K. Ramachandra Reddy)
- **High Package Placement:** Software Dev & Interview Tips (Dr. P. Thenmozhi)



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SEERA

ABHS



HIGH PACKAGE PLACEMENT



PLACEMENT



SLOW LEARNERS



SKILL RACK



GROUP DISCUSSION



24.07.2024
 WEDNESDAY



ECE
 BLOCK



03:30 PM
 to
 05:00 PM



III ECE
 STUDENTS



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C) SEERA Activity - 3 (Third Year)



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SEERA



ABHS



Dr. VICTORIA JANCEE B
 Mrs. JASMINE MYSTICA K
 Topic: General Aptitude for Higher Studies



HIGH PACKAGE PLACEMENT



Mr. THARUN PARASATH J
 BATCH: 2019-23
 M.Tech in DSP,
 Indian Institute of Space Science and Technology,
 Trivandrum
 Topic: An insight on becoming an Electronic Engineer/ Scientist in Government and Public sector units
Staff Coordinators
 Dr. AGHALYA S
 Dr. VINAYAGAPRIYA S



PLACEMENT



Dr. NIRUBAN R
 Mrs. MADHUMITHA R
 Mr. LINGESHWARAN M
 Topic: Resume Building and Customisation for different Companies



SLOW LEARNERS



Dr. THENMOZHI P
 Course: Medical Electronics



SKILL RACK



Dr. RAMACHANDRA REDDY K



GROUP DISCUSSION



Dr. SIVAGURUNATHAN
 Dr. SURESH M

31.07.2024 WEDNESDAY | ECE BLOCK | 03:30 PM to 05:00 PM | III ECE STUDENTS



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The Choice of Disciplined Toppers

On July 31, 2024, the ECE department organized several SEERA activities for third-year students. These included sessions on competitive exam preparation, group discussions, coding practice using Skillrack, and a fundamentals class on medical electronics. The aim was to enhance students' overall development and prepare them for future careers.



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 ORGANIZES
STUDENT EMPLOYABILITY ENHANCEMENT RESEARCH ACTIVITIES SEERA



HIGH PACKAGE PLACEMENT



GROUP DISCUSSION



SLOW LEARNERS



SKILL RACK



31.07.2024
 WEDNESDAY



ECE
 BLOCK



03:30 PM
 to
 05:00 PM



III ECE
 STUDENTS



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3. A) IEEE Event -1 Election Day

Report

TITLE : IEEE Election Day

DATE :19th July 2024

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING
in association with

IEEE
presents

IEEE AP-S **ELECTION DAY** **IEEE ComSoc**
Antennas and Propagation Society IEEE Communications Society

POSITIONS

• CHAIR PERSON • VICE CHAIR PERSON • SECRETARY
• JOINT SECRETARY • TREASURER

19.07.2024 10:30 AM TO 12:00 PM

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The IEEE Election Day was conducted on July 19, 2024, at St. Joseph's College of Engineering. The event was organized by the Department of Electronics and Communication Engineering in association with IEEE. The election aimed to fill key positions within the IEEE student chapter, including Chair Person, Vice Chair Person, Secretary, Joint Secretary, and Treasurer.

The event commenced at 10:30 AM and concluded at 12:00 PM. Members of the IEEE student chapter participated actively in the voting process, ensuring a fair and transparent election. The election was overseen by faculty members and representatives from the IEEE societies involved, namely the IEEE Antennas and Propagation Society (AP-S) and the IEEE Communications Society (ComSoc).

Voting Process: The election followed a structured voting process where each member cast their vote for the respective positions. The candidates presented their manifestos before the voting began, highlighting their vision and plans for the IEEE student chapter

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
in association with








presents

ELECTION DAY



19.07.2024

Outcomes :

- A fair and transparent election was held
- New office bearers had been elected
- New initiatives had been taken


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B) IEEE Event 2

TITLE : Machine Learning to Autonomous Vehicles

DATE : 25th July 2024

The webinar successfully enhanced the understanding of participants about the integration of machine learning with autonomous vehicle technology. Attendees gained valuable insights into the current state and future prospects of autonomous vehicles, including the critical role of machine learning, the various sensors used, and the challenges that lie ahead. Additionally, practical knowledge about data preprocessing



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STUDENT BRANCH CHAPTER



INSTITUTION'S
INNOVATION
COUNCIL

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING

in association with

IEEE COMMUNICATION SOCIETY

Presents

ONLINE WEBINAR

on

**MACHINE LEARNING TO
AUTONOMOUS VEHICLES**

by

Dr. Satish Kumar Gudey

IEEE PES Chapter Advisor
Gayatri Vidya Parishad College of Engineering (Autonomous)
Visakhapatnam, Andhra Pradesh, India.



25-07-2024



06:30 to 07:30pm

<https://meet.google.com/ghb-pure-ao>



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and vehicle control systems was imparted, providing a comprehensive view of the field.



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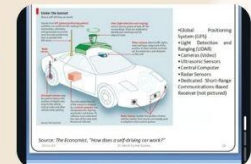
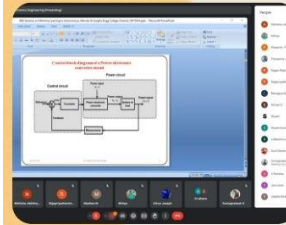
INSTITUTION'S
INNOVATION
COUNCIL

**MACHINE LEARNING TO
AUTONOMOUS VEHICLES**

by

Dr. Satish Kumar Gudey

IEEE PES Chapter Advisor
Gayatri Vidya Parishad College of Engineering (Autonomous)
Visakhapatnam, Andhra Pradesh, India.



Outcome :

- Overview of machine learning principles and how they apply to autonomous vehicles.
- Types of sensors used in autonomous vehicles (e.g., LiDAR, radar, cameras, GPS).
- Technical challenges in developing autonomous vehicles (e.g., edge cases, adverse weather conditions).
- Data collection and preprocessing techniques.
- Overview of vehicle control systems.



25-07-2024



06:30pm - 07:30pm



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C) IEEE Event 3

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IEEE Advancing Technology For Humanity
ST. JOSEPH'S COLLEGE OF ENGINEERING
STUDENT BRANCH CHAPTER

IEEE AP-S Antennas and Propagation Society
INSTITUTION'S INNOVATION COUNCIL

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
in association with
IEEE ANTENNAS AND PROPOGATION SOCIETY
Presents
ONLINE WEBINAR
on
RECENT TRENDS IN CYBER SECURITY

Mr. SANDEEP USHKEWAR
Branch Counselor IEEE,
Department of Electrical Engineering,
SVKM's Institute of Technology,
Dhule, Maharashtra

31-07-2024

06:30 to 07:30pm <https://meet.google.com/gbb-purc-aa0>

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TITLE : Recent Trends in Cyber Security

DATE : 31th July 2024

An online seminar on "Recent Trends in Cyber Security" was held on July 31st, 2024, featuring Mr. Sandeep Ushkeshwar. The session focused on the evolving cyber threat landscape and the potential of blockchain in enhancing security measures. Attendees gained insights into emerging threats, regulatory changes, and practical strategies for addressing cyber challenges.



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ENGINEERING

in association with



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COUNCIL



RECENT TRENDS IN CYBER SECURITY

by



Mr. SANDEEP USHKEWAR

Branch Counselor IEEE,
Department of Electrical Engineering,
SVKM's Institute of Technology,
Dhule, Maharashtra



Outcome :

- Enhancing transparency and reducing fraud with decentralized ledgers.
- Improving traceability and efficiency in logistics, Securing patient data and streamlining medical records.
- Creating clear and auditable records of energy transactions and grid operations.
- Ensuring transparent and real-time tracking of energy generation and consumption.



31-07-2024



06:30pm - 07:30pm



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5. A) OPTICA Event 1

Report

TITLE : DesignX

DATE :23th July 2024

The OPTICA Student Chapter and the ECE Department at St. Joseph's College of Engineering organized "DESIGNX" for third-year ECE students. Twenty teams of three participated, focusing on teamwork, innovation, and practical skills.

The event had two rounds: a pen-and-paper test on technical knowledge and aptitude, and a circuit simulation using Tinkercad. Ten teams advanced to the second round.

Participants appreciated the skill enhancement and collaboration. Winners will be announced after evaluating the simulations. Dr. R. Niruban, the Student Chapter Advisor, was crucial to the event's success. Future events may include more diverse challenges based on feedback



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PROUDLY PRESENTS

DESIGN X

Unleash your TinkerCAD designs

ONLY FOR 3RD YEAR

OPTICA MEMBERS



23.07.2024

TIME: 09:40 AM

VENUE: ECE LAB

Scan here to register !!!!



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5. B) OPTICA Event 2



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PROUDLY PRESENTS

DESIGN X



OUTCOMES OF THE EVENT

- The event fostered teamwork and collaboration among students
- Improved practical knowledge and proficiency in using Tinkercad software.
- Encouraged active participation and enthusiasm for future OPTICA Student Chapter events.



DATE 23.07.2024

VENUE: ECE LAB



PARTICIPANTS: 3RD
YEAR OPTICA MEMBERS



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 PROUDLY PRESENTS

THOUGHTSCAPE
 A Technical lecture on Ethical Hacking & Cyber Security
 EXCLUSIVE EVENT FOR OPTICA MEMBERS!

RAGAVENDER A G
 Senior Security engineer, Freshworks

VENUE : AV HALL
 TIME : 9:30 AM
 DATE : 26.07.2024

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TITLE : Thoughtscape

DATE :23th July 2024

The "THOUGHTSCAPE" guest lecture on "Ethical Hacking" was held on 26.07.2024 from 9:30 AM to 12:00 PM in the AV Hall at St. Joseph's College of Engineering. Organized by the ECE Department with the OPTICA Student Chapter, over 100 III and IV year ECE students attended. Dr. R. Niruban coordinated the event, and Kaitlyn, Vice President of OPTICA, gave the welcome speech. Dr. A. M. Balamurugan presented a memento to the guest speaker, Ragavender A G, who covered types of hacking, bug bounty programs, Capture The Flag (CTF) competitions, and live demonstrations. He also discussed cybersecurity job opportunities, the importance of cold emailing, and shared his personal journey. The session ended with a Q&A and tips for securing placements in product-based companies. Ebi Manuel, President of OPTICA, concluded with a vote of thanks. The lecture received positive feedback for being highly informative and engaging.

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 **INSTITUTION'S INNOVATION COUNCIL**
(Ministry of Education initiative)

PROUDLY PRESENTS

THOUGHTSCAPE

A Technical lecture on Ethical Hacking & Cyber Security

OUTCOMES OF THE EVENT

- The session highlighted common security vulnerabilities, raising awareness about the importance of securing devices.
- The event provided a platform for students to network with a professional in the cybersecurity field.
- The live demonstrations provided practical knowledge on phishing and how hackers exploit unsecured devices.



VENUE : AV HALL  **DATE : 26.07.2024** **GUEST: RAGAVENDER A G**
Senior Security engineer, Freshworks

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5. B) OPTICA Event 3

TITLE : School visit
 DATE :31th July 2024

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 INNOVATION
 COUNCIL

PROUDLY PRESENTS

SCHOOL VISIT' 24

TIME:
 09:40 am
 to
 02:00 pm

VENUE:
 Sri Ramakrishna Matriculation
 Higher Secondary School,
 West Tambaram

DATE:
 31.07.24
 Wednesday

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The OPTICA Student Chapter at St. Joseph's College of Engineering successfully conducted an outreach program on July 31st. Over 400 students from Sri Ramakrishna Matriculation Higher Secondary School were introduced to engineering concepts through hands-on projects. The event aimed to spark interest in engineering and was met with enthusiastic participation and positive feedback.



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STUDENT CHAPTER



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INNOVATION
COUNCIL
(Ministry of Education Initiative)

PROUDLY PRESENTS

SCHOOL VISIT' 24

OUTCOMES OF THE EVENT

Enhanced Student Engagement: The interactive and hands-on nature of the projects increased student engagement and enthusiasm for learning about engineering and industry 4.0 technologies.

Improved Knowledge Retention: The practical, hands-on approach to teaching allowed students to better retain and understand the engineering principles demonstrated.

Positive Publicity for OPTICA: The outreach program garnered positive publicity for the OPTICA Student Chapter, showcasing their commitment to education and community service.



TIME : 09:40 am
to
02:00 pm

VENUE:

Sri Ramakrishna Matriculation
Higher Secondary School,
West Tambaram

DATE: 31.07.24
Wednesday



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6.NGO visit	Report	
	<p>TITLE : NGO visit</p> <p>DATE :23th July 2024</p> <p>III ECE A: New Asia Jothi Social Service Trust, Redhills</p> <p>The students of III ECE A visited New Asia Jothi Social Service Trust in Redhills. They participated in various activities, including organizing educational sessions for children and helping with daily operations. The visit highlighted the importance of community service and gave students a deeper understanding of the challenges faced by underprivileged communities.</p>	



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NGO VISIT

III ECE A, B, C
20.7.24- SATURDAY

III ECE A :
New Asia Jothi Social Service
trust, Redhills.

III ECE B :
Our lady's Queen ship
home,
Koothavakkam.

III ECE C :
Dazzling Stone, Kundrathur.



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III ECE A
NGO VISIT
20.07.2024
SATURDAY



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III ECE B: Our Lady's Queenship Home, Koothavakkam

III ECE B students spent their day at Our Lady's Queenship Home in Koothavakkam. They engaged in activities such as providing companionship to the elderly, assisting with routine tasks, and organizing recreational activities. This visit underscored the value of empathy and the impact of even small acts of kindness on the lives of others.



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**III ECE B
NGO VISIT
20.07.2024
SATURDAY**




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III ECE C: Dazzling Stone, Kundrathur

The students of III ECE C visited Dazzling Stone in Kundrathur. They assisted in various tasks, including helping with the care of children, organizing educational and recreational activities, and supporting the staff with their daily duties. This experience taught

	students the significance of giving back to society and the joy of making a difference in the lives of those in need.
7. Industry collaboration	Report
<p>A) Data Patterns (India) Pvt. Ltd., Siruseri</p> 	<p>Date of Visit: 9th July 2024</p> <p>we visited Datapatterns (India) Ltd., Chennai. Data Patterns is a vertically integrated Defence and Aerospace electronics solutions provider catering to the indigenously developed defence products industry.</p> <p>We had a detailed discussion with Mr. Karthick - HR Manager. about the following collaboration activities:</p> <ul style="list-style-type: none"> - Incubation Centre - MoU - Paid Internship - Core Placement Assistance <p>They had also shown interest towards our Industry Supported Course to be blended with our curriculum during the third year, and after continuous assessment offering internship with stipend during the final year and thereafter offering regular placement.</p>
B) Microchip Technology (India) Pvt. Ltd, Chennai.	<p>Date of the Microchip Technical Team Member's Visit to our Campus: 15th July 2024</p> <p>As a part of our ECE Industrial Collaboration Initiative, we had approached Microchip Technology(India) Pvt. Ltd, Chennai.</p>



Microchip Technology is a leading provider on delivering high-quality semiconductor designs and solutions to smart, connected and secure embedded control systems. After multiple level of discussions, Today four of Microchip Technologies (India) Pvt. Ltd have interacted with the Principal, Deans, and Students regarding the Campus Placement Initiative process. They were very much impressed with our PEP centers & Lab facilities and had given guidance to our students based on their recruitment process.



8. School Event

Report

TITLE : School Event

DATE : 2,4,9,11,16 July 2024

On 9th and 11th July 2024, the Department of Electronics and Communication Engineering hosted expertise-sharing sessions for XI and XII students from Madras Christian College Higher Secondary School (MCCHSS), Chetpet. The 9th July event, held in the ECE 3rd Floor

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2,4,9,11 JULY
 16,18,23,25 2024

EXPERTISE SHARING FOR THE STUDENTS OF XI & XII

31 YEARS OF ENGINEERING EXCELLENCE

LATEST TRENDING DOMAINS

- 3D PRINTING
- PCB FABRICATION
- EMBEDDED SYSTEMS
- VINYL PRINTING
- IoT IMPLEMENTATION
- ROBOTICS

Technology Extravaganza

PICKUP & DROP
 REFRESHMENTS &
 LUNCH
 CERTIFICATE WITH KITS

Learn Today! Lead Tomorrow!!!

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 YOU CHOOSE, WE DO IT
 St. Joseph's Institute of Technology
 WE MAKE YOU SHINE

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Lab, focused on Embedded Systems, featuring interactive quizzes and project demonstrations, which were well-received by 150 students. The 11th July event at the PEP Centre concentrated on Robotics, engaging 173 students with hands-on project displays and quizzes. Both events successfully enhanced students' understanding and interest in these fields. Additionally, on 16th July 2024, 196 students and 6 staff members visited St Joseph's College of Engineering, where they gained insights into electronics, electrical components, and Very-Large-Scale Integration (VLSI), further fueling their enthusiasm for engineering careers.

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EXPERTISE SHARING STUDENTS OF XI & XII LATEST TRENDING DOMAINS

31 YEARS OF ENGINEERING EXCELLENCE

STUDENTS FEEDBACK
Fruitful Information Recieved
Positive Surroundings
Experienced Faculties

04/07/2024 ECE LAB

Learn Today! Lead Tommorrow!!!

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9.Placement Empowerment Program-5G

Report

TITLE : Empower Your Skills: MATLAB Re-onboarding

DATE : 24th July 2024

- Enhance MATLAB Proficiency: Improve students' technical skills in using MATLAB software.
- Access to Resources: Provide students with updated tutorials, documentation, and real-world case studies.
- Networking Opportunities: Facilitate interaction between

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MathWorks® **INSTITUTION'S INNOVATION COUNCIL** **ARK**
 EMPOWERING LIVES

Empower Your Skills : MATLAB Re-onboarding

Objectives:

- Students will enhance their MATLAB proficiency, improving their technical skills.
- Students will gain access to updated tutorials, documentation, and real-world case studies.
- The session will create opportunities for students to network with industry experts, supporting their academic and professional growth.
- By familiarizing students with industry-standard tools and techniques, the session will better prepare them for internships and job opportunities where MATLAB skills are in high demand.
- Students will receive direct certification from MathWorks training services on various OTS courses.
- Enable students to participate in competitions/hackathons.

Mr. Subhajt Goswami
 Customer Success Specialist, Mathworks

24/07/2024
 1.40 PM to 2.40 PM (Online)

Meeting Link:
<https://bit.ly/MATLAB3YR>

• Exclusively for third year students

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students and industry experts for academic and professional growth.

- Industry Preparation: Familiarize students with industry-standard tools and techniques to enhance their employability.
- Certification and Skill Development: Offer MathWorks certifications and opportunities for participation in competitions and hackathons.

Essentially, the goal is to equip students with advanced MATLAB skills, industry knowledge, and practical experience to excel in their academic and professional careers.

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

MATLAB RE-ONBOARDING SESSION FOR III YEAR STUDENTS

MathWorks® **ARK**
 EMPOWERING LIVES

Date: 24/07/2024 **Time: 01:40 p.m. - 02:40 p.m.**
Speaker: Subhajt Goswami, Customer Success Specialist, MathWorks

Campus-Wide License Re-Onboarding

Campus-Wide License Summary

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10. FDP/Workshop:

The following staff member have participated in various FDP/Workshop conducted by other institutions during the month of July at National/International level.

S.NO	Name of the Faculty	Title of the professional development program	National / International	Workshop/ FDP/Conference/STP	Date and Duration (from – to)	No. of Days	Place of the Program/ Conducted by
1.	Mrs.R.MADHUMITHA	Effective AI tools for Enhancing Teaching, Learning and Research	National	FDP	July 1 to 6 2024	6 days	Xavier Engineering college
2.	Dr.S.Aghalya	R Programming for Budding Data Analysts	National	FDP	June 9 to 18	10 days	Research foundation of India
3.	Dr. J. MARTIN LEO MANICKAM	Effective AI tools for Enhancing Teaching, Learning and Research	National	FDP	1.7.24 to 6.7.24	6 days	Xavier Engineering college
4.	Mrs.M.Angelin Ponrani	OpenCV for Image and Video Processing Applications	National	FDP	22/07/2024 to 26/07/2024	5 days	NITTTTR, Chandigarh.

11. Patent Published

The following staff member have published patent during the month of July 2024.



S. No.	Country and Application No.	Name of the Applicants	Name of the Patentee	Patent Title	Date of Filing	Date of Publication	Date of Gra
1.	Indian Patent:202441050317 A	Dr. Ramachandra Reddy,	Dr. Ramachandra Reddy,	CHRONO-SEMANTIC WEAVING A SYSTEM FOR DYNAMIC NARRATIVE GENERATION WITH SELF-ADJUSTING TIMELINES	01/07/2024	05/07/2024	-
2.	Indian Patent: 202441052074	Dr. B Victoria Jancee	Dr. B Victoria Jancee	Internet of things based Smart Traffic signal monitoring and controlling system for city	08/07/2024	19/07/2024	-
3.	Indian Patent: 202441052101	S Vinayagapriya	S Vinayagapriya	Vehicle Safety System using Ultrasonic Sensor	08/07/2024	19/07/2024	-
4.	Indian Patent: 202441052075	Dr.S.Aghalya,	Dr.S.Aghalya,	FPGA Based Traffic Signal Monitoring System for Safety	08/07/2024	19/07/2024	-

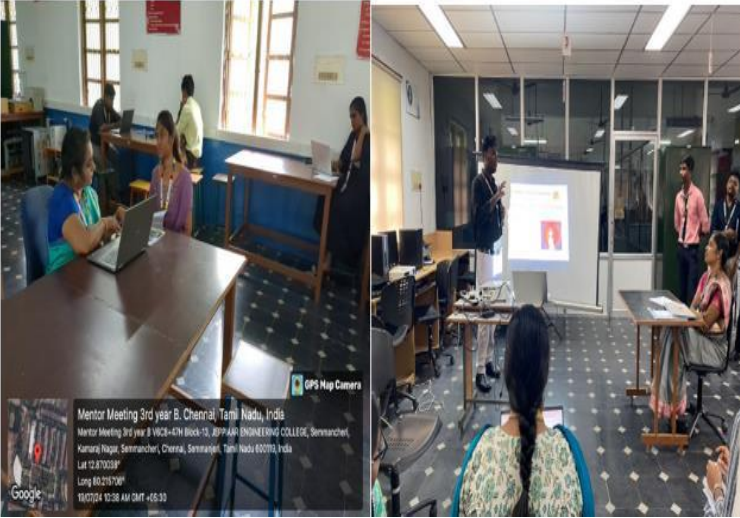
12.Publications

The following staff member have published the research papers in Journal/Conferences organized during the month of July at International/National Level.

1. A.M. Balamurugan,” Machine learning-Based Energy Efficient and Enhancing Communication Reliability for MANETs of Balanced Less Loss Routing Protocol”, Journal of Electrical systems, 20-2s(2024):777-783

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Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words)	Criterion								
1	<p align="center">NGO Visit</p>   <p align="center"><i>PIC: VISIT PHOTO</i></p>	<p>Our third-year students have visited orphanage and served food to children. They supported the children by providing groceries. They interacted with them and perform some activities for making them happy.</p> <table border="1" data-bbox="1104 699 1669 1008"> <thead> <tr> <th data-bbox="1104 699 1283 802">YEAR /SECTION</th> <th data-bbox="1283 699 1669 802">NGO PLACE DETAILS</th> </tr> </thead> <tbody> <tr> <td data-bbox="1104 802 1283 870">III/A</td> <td data-bbox="1283 802 1669 870">DMI Home, Ottandhantal</td> </tr> <tr> <td data-bbox="1104 870 1283 938">III/B</td> <td data-bbox="1283 870 1669 938">Annai Baratha Madha Trust, Redhills</td> </tr> <tr> <td data-bbox="1104 938 1283 1008">III/C</td> <td data-bbox="1283 938 1669 1008">Sri Sastha Charitable Trust, Kundrathur</td> </tr> </tbody> </table>	YEAR /SECTION	NGO PLACE DETAILS	III/A	DMI Home, Ottandhantal	III/B	Annai Baratha Madha Trust, Redhills	III/C	Sri Sastha Charitable Trust, Kundrathur	4
YEAR /SECTION	NGO PLACE DETAILS										
III/A	DMI Home, Ottandhantal										
III/B	Annai Baratha Madha Trust, Redhills										
III/C	Sri Sastha Charitable Trust, Kundrathur										

2	<p style="text-align: center;">Mentor Meeting</p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>On July 19th 2024, Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted Mentor meeting for the Pre-final and final year students. Around 172 students from pre final year and 194 students from final year attended the meeting with their respective mentors. Students were motivated to do NPTEL and other online courses on emerging Technology.</p>	4
3	<p style="text-align: center;">IEEE activities</p>	<p>The IEEE SJCE SB Office Bearers Half-Yearly Meet, held on 22nd July 2024, was a highly productive session that focused on reviewing past events, planning future initiatives, gathering feedback, and enhancing team collaboration. Key highlights included the success of international webinars, workshops, and hackathons, alongside strategic discussions on upcoming events like Conocithon 3.0 and new workshop series on emerging technologies. The feedback session provided valuable insights for improving communication and member engagement, while team-building exercises and clear role</p>	4



PIC: EVENT POSTER AND PHOTO

assignments strengthened the collaborative spirit among the office bearers.

OUTCOME: Reviewed past events and planned future initiatives, including Conocithon 3.0 & new workshops on emerging technologies.

Strengthened team collaboration through exercises and clear role assignments.

4

IEEE activities

On 16th July 2024, IEEE SJCE SB organized a successful goodies distribution event aimed at enhancing membership development and retention. The event saw enthusiastic participation from over 200 students, who were delighted to receive a variety of branded items, including tags, luggage holders, pens, pencils, stickers, and magazines. This initiative was part of our ongoing efforts to acknowledge and appreciate the contributions of our existing members while also encouraging new memberships. The distribution of these goodies not only served as a token of appreciation but also fostered a sense of belonging and community among the members. Positive feedback from the attendees highlighted their

4



PIC: EVENT POSTER & PHOTO

appreciation for the thoughtful gesture, reinforcing their commitment and loyalty to IEEE SJCE SB.

OUTCOME: Fostered a sense of belonging and community, strengthening member interaction and loyalty.

5

IEEE activities



IEEE Industry Applications Society SJCE SB in association with IEEE INDUSTRY APPLICATIONS SOCIETY MADRAS CHAPTER conducted a webinar session “SPARKLE (IGNITE TO INNOVATE)” on 24-07-2024. The topic for the session was "Data analytics in IOT System" presented by Mr. Samul Tensingh, Associate Lecturer at University of Sydney, Australia. Drive into the next generation of IOT systems and security level and Data Management System in our exclusive webinar. Approximately 50+ students took part in this event over Google meet. The participants were rewarded

PIC: EVENT POSTER & PHOTO

with E-certificates. Appreciation Certificate and E- Memento was award to the speaker by the end of the session.

OUTCOME: Enhanced understanding of IoT systems and data management, Improved knowledge of advanced technologies in IoT operations

IEEE activities



PIC: EVENT POSTER & PHOTO

On the Occasion of WIE Day 2024 , IEEE Women in Engineering, in association with the IEEE St. Joseph's College of Engineering student chapter, Organized a webinar Breaking Barriers on the topic of "OVERCOMING ANXIETY AND CAPTIVATING AUDIENCES " on July 09, 2024 from 5:00 pm – 6:00pm. The session was presented by Ms Kavitha Anbarasu, App Developer, Story teller, Public Speaker. Students from the final, pre-final year and second year from Department of EEE Were participated. In this session students gain knowledge about strategies to Overcoming anxiety and speaking in front of others. We hope this session is beneficial in both academic and professional settings and build confidence among the young minds. Approximately 25 students took part in this event via google meeting. Participants were rewarded with e-certificates as a token of appreciation, and

e-Memento was awarded to the speaker at the end of the session as a gesture of gratitude.

Outcome: Participants would likely feel more confident in their ability to manage their anxiety and perform well in front of an audience.

IEEE activities



PIC: EVENT POSTER & PHOTO

IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter proudly hosted the "WE CAPTURE" event on 11th July 2024, a unique photo shoot event celebrating the creativity and achievements of women in engineering affinity group. This event brought together talented women engineers from diverse fields to celebrate their achievements and showcase their unique perspectives. Participants engaged in a series of creative photo sessions, highlighting their individuality and professional prowess. The vibrant atmosphere was filled with camaraderie and inspiration, as members shared stories, networked, and captured memorable moments. WE CAPTURE not only fostered a sense of community but also empowered women in engineering to embrace their identities and shine in their respective disciplines. With over 20+ enthusiastic participants and 20 dedicated workers, the event

aimed to celebrate and highlight the diversity and talent within the engineering community.

8

IEEE activities



PIC: EVENT POSTER & PHOTO

On the Occasion of WIE Day 2024, IEEE Women in Engineering, in association with the IEEE St. Joseph's College of Engineering student chapter, Organized a webinar Breaking Barriers on the topic of "PLACEMENT PREPARATION" on July 12, 2024 from 6:00 pm – 7:00pm. The session was presented by Ms.Jeyashri R, Associate Software Engineer, AI&ML enthusiasts, Public Speaker. Students from the Final, pre-final year and second Year from Department of EEE Were participated. In this session students gain knowledge about the strategies to crack interviews, and keys points to build good resume. She explained about technical topics and aptitude topics that usually asked in job interviews. she shares her insights about job opportunities in IT, government sectors etc. Approximately 15 students took part in this event via google meeting. Participants were rewarded with e-certificates as a token of appreciation, and e-Memento was

awarded to the speaker at the end of the session as a gesture of gratitude.


IEEE and Club activities



PIC: EVENT POSTER

The “CHOPPERS CLUB” in association with IEEE Power Electronics Society, specializing in the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering organized a technical event named "GATE WAY TO SUCCESS" on July 26, 2024, from 1:40PM to 3:00 PM. The event focused on power electronics, providing participants with an overview of regulations. Top scorers advanced to subsequent rounds, and the top three winners received certificates of appreciation. GATE, through skill enhancement and career exploration, inspires confidence and clear goals for participants.

OUTCOME: Provided an overview of power electronics regulations. Inspired confidence and clear goals through skill enhancement and career exploration.

1	<p style="text-align: center;">Placement club activities</p>  <p style="text-align: center;"><i>PIC: EVENT PHOTO</i></p>	<p>Our department conducted the SEERA training program on 15/07/2024 for final-year students through the Bright Byte Coders Club. The speakers, who are also final-year students, included Rakshit Roshan V (IV EEE C Sec) presenting on Data Structures and Algorithms; Harish Gautham K (IV EEE A Sec) discussing Java Programming; Jasmine J (IV EEE A Sec) covering Enhancing Professional Networking and Communication Skills, Nikith Jude S (IV EEE B Sec), focusing on GRE/TOEFL Preparation. The program aimed to enhance students' knowledge of data structures, improve their professional communication skills, and provide insights into placement drive procedures for various companies.</p>	4
1	<p style="text-align: center;">Placement club activities</p>	<p>Department of EEE has conducted the SEERA training program for Pre-final year students through Bright Byte Coders Club on 18/07/2024. The speakers of the event are also from Pre-final year students Jayaram, III EEE B Sec on the topic “Basics In C Programming”, Mouli, III EEE B Sec on the topic “Problem Solving in 2D Array Using C Language”, Naveen Chandar S III EEE B Sec on the topic “Problems On Number” & Aravind R, IV EEE A Sec on the topic “Career Guidance for Higher Studies”. The program is organized to enrich the C programming skills, Data structure</p>	4



PIC: EVENT PHOTO

knowledge & various topics on aptitude for the students.

Placement club activities

Our department of Electrical and Electronics Engineering (EEE) organized a group discussion on recent trends, featuring several final-year students on **22/07/2024**. **Shabana Asmeen MJ** (IV EEE C) led a group discussion on recent trends, **Pradeish Misara R** (IV EEE B) presented on **Programming with LeetCode**, **Nikith Jude** (IV EEE B) discussed **Higher Studies Abroad**, and **Ram Praveen M** (IV EEE C) provided insights on **How to Build a Quality Resume**. The discussion aimed to provide students with valuable insights into current industry trends, programming challenges, opportunities for higher education abroad, and effective resume building. This



PIC: EVENT PHOTO

initiative enriched students' knowledge and preparedness for their future careers.

Placement club activities

Department of EEE has conducted the SEERA training program for Pre-final year students through Bright Byte Coders Club. The speakers of the event are also from Pre-final year students Ms. Esther Abraham, III EEE A SEC on the topic “Basics In C Programming”, Aadhi Vigneshwar P S, III EEE A SEC on the topic “Error Rectification in Python”, Harshavardhan M, III EEE A SEC on the topic “Problems On Time And Work” & ARAVINDR, IV EEE A SEC on the topic “Career Guidance For Higher Studies” on 24/07/2024. This program is organized to enrich the C programming skills, Data structure knowledge &



PIC: EVENT PHOTO

various topics on aptitude for the students and also provides the placement drive procedures for various companies.

Placement club activities



Our department of Electrical and Electronics Engineering (EEE) conducted Seera training for final-year students on 29/07/2024. Jasigo Krifi S (IV EEE A) presented on Solving Interview Questions in C Programming, Saran P (IV EEE C) discussed Java Programming, Nikith Jude (IV EEE B) talked about Higher Studies Abroad, and Shamrutha J A (IV EEE C) covered Quantitative Aptitude. This session aimed to enhance students' technical skills, provide insights into higher education opportunities abroad, and improve their quantitative aptitude. The initiative successfully prepared students for interviews and future career challenges.


PIC: EVENT PHOTO

Placement club activities



PIC: EVENT PHOTO

Department of EEE has conducted the SEERA training program on 31/7/2024 for Pre-final year students through Lingual Club. The speakers of the event are also from Pre-final year students Rohith R, III EEE C SEC on the topic Basics Coding, Vishalini R, III EEE C Sec on the topic Data Strucures in C, Shree Dharshan P, III EEE C Sec on the topic “Problems On Blood & Relation” & Harshavardhan M, III EEE A Sec on the topic “Career Guidance for Higher Studies” (GRE & GATE - Aptitude Questions) . The program is organized to enrich the C programming skills, Data structure knowledge & various topics on aptitude for the students and also provides career guidance for GRE & GATE aspirants.

<p style="text-align: center;">Alumni Activities</p>  <p style="text-align: center;"><i>PIC: EVENT POSTER</i></p>	<p>On July 4th & 5th 2024, the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted an event “Excelling at Kaar technology, A seniors perspective towards success,” presented by Ms. Dharani V, 2024 batch alumni. Approximately 28 Students from the final year attended the event on G-meet at 5.30 pm to 7.00 pm. The event ended with the clarifications and discussions based on presidio placement.</p> <p>OUTCOME: Comprehension of present prerequisites of recruitment in KAAR Technologies.</p>	4
<p style="text-align: center;">Alumni Activities</p>	<p>On July 6th 2024, the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted an event “Preparation guidelines for Avasoft, A seniors perspective towards success,” presented by Mr. Kathiravan M, 2024 batch alumni. Approximately 22 Students from the final year attended the event on G-meet at 6 pm to 8.00 pm. The event ended with the clarifications and discussions based on presidio placement.</p>	4



PIC: EVENT POSTER

OUTCOME: Placement preparation guidance for getting placed in Avasoft Company.

Alumni activities

On July 14th 2024, the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted an event **“Cracking the code landing: A job in musigma,”** presented by **Mr. Harry Jackin, 2024 batch alumni**. Approximately 50 Students from the final year attended the event on G-meet at 11am to 12.00 pm. The event ended with the clarifications and discussions based on presidio placement.



PIC: EVENT POSTER

OUTCOME: Understanding of present requirements of musigma Company.

Alumni activities

On July 26th 2024, the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted an event **“How to crack Accenture,”** presented by Ms. Swetha B, 2023 batch alumni. Approximately 22 Students from the final year attended the event on G-meet at 4 pm to 5.00 pm. The event ended with the clarifications and discussions based on presidio placement.

OUTCOME: Understanding of present requirements of Accenture Company.



PIC: EVENT POSTER

2

Alumni activities

On July 26th 2024, the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted an event **“How to crack Accenture,”** presented by **Ms. Akshaya, 2022 batch alumni**. Approximately 22 Students from the final year attended the event on G-meet at 6 pm to 7.00 pm. The event ended with the clarifications and discussions based on presidio placement.

OUTCOME: Understanding of present requirements of Accenture Company.

4



PIC: EVENT POSTER

2

Alumni activities

On July 27th 2024, the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering, conducted an event **“How to crack HCL embedded,”** presented by **Mr. Mugundhan B , 2024 batch alumni.** Approximately 39 Students from the final year attended the event on G-meet at 6 pm to 7.30 pm. The event ended with the clarifications and discussions based on presidio placement.

OUTCOME: Understanding of programming skills required by HCL Embedded Company.

4



PIC: EVENT POSTER

2

Faculty Development Program



Pic. FDP photo

•Mr.T.Srianada Ganesh and Mr. H.UmeshPrabhu attended AICTE-QIP- PG Certificate Program on “Wireless Technology and IoT” at Indian Institute of Technology Roorkee. from July 12, 2024, to July 22, 2024 at the Continuing Education Center (CEC) of IIT Roorkee.

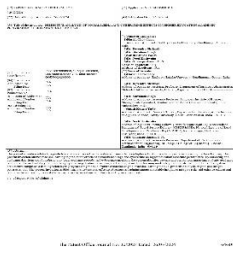
•Around 25 faculties from department of EEE attended faculty development program on “Electric Vehicle Design and Analysis” by TANSAM from 25.06.2024 to 05.07.2024 at 9th block PEP – EV Domain, St. Joseph’s College of Engineering.



5


		<p>•Mr.S.Nishant has attended FDP on “EV Simulation with SIMSCAPE” organized by Loyola –ICAM College of Engineering and Technology (LICET) Chennai jointly in collaboration with ARK Infosolutions Pvt Ltd & Mathworks on 15th AND 16th July 2024.</p>	
2	<p>Faculty awards and recognitions</p>	<p>Dr.T.V.Narmadha has reviewed 3 papers for ICEES2024. Also Acted as resource persons in the FDP EE3014 – Power Electronics for renewable energy systems conducted by Department of EEE, St. Joseph’s Institute of Technology on 03.07.2024.</p> <p>Dr.M.Venmathi has reviewed 5 papers for ICEES2024.</p> <p>Dr V Krishnakumar has reviewed 2 papers for ICEES2024. Also Acted as resource persons in the FDP EE3014 – Power Electronics for renewable energy systems conducted by Department of EEE, St. Joseph’s Institute of Technology on 05.07.2024.</p> <p>Dr V Chamundeeswari has reviewed a paper for COMPEL: International Journal for Computation and Mathematics in Electrical and Electronics Engineering. Also Acted as resource persons in the FDP EE3014 – Power Electronics for renewable energy systems conducted by Department of EEE,</p>	5

		St. Joseph's Institute of Technology on 02.07.2024.	
2	<p style="text-align: center;">PLACEMENT DETAILS FOR THE MONTH OF JULY 2024</p>	<p>2020-2024 Batch</p> <p>Total No of students placed = 111 Students Total No of Offers = 131 Offers Total No of Students (UG) = 150 Total No of Eligible Students (UG) = 128 (All Clear) % of students Placed (UG) = $111/150 = 74\%$ No of students having single offers = 96 No of students having Double offers = 13 No of students having Triple offers = 03</p> <p>2021-2025 Batch</p> <p>Total No of students placed = 05 Students Total No of Offers = 05 Offers Total No of Students (UG) = 194 No of students having single offers = 05</p>	4

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING


Sl. No.	Title	Detail					
I	Patent	S.No	Faculty Name	Published date	Title	Type (patent Or copyrights)	Proof
		1.	Dr.Gnanaprakasam C N	26/07/2024	Predictive Analysis of Social Media and Cybercrime Effects on Higher Education Academic Performance using Machine Learning	Patent	

II	FDP					
S. No.	Faculty Name	Title	Conducted By	Date	Proof	
1.	Dr.P.Deepa	OpenCV for Image and Video Processing Applications	St Josephs College of Engineering (Teaming together NITTTR, Chandigarh)	22/07/2024 to 26/07/2024		
2.	Mr.D.Sankaran	OpenCV for Image and Video Processing Applications	St Josephs College of Engineering (Teaming together NITTTR, Chandigarh)	22/07/2024 to 26/07/2024		

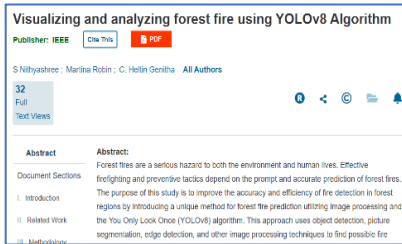
II	Webinar						
		S. No.	Faculty Name	Title	Conducted By	Date	Proof
		1.	Mr.D.Sankaran	AI and Google tools in Education	Dynamic Minds Group	31-7-2024	 <p>The image shows a certificate titled 'CERTIFICATE OF PARTICIPATION' issued to participants of a webinar on 'AI and Google Tools in Education' held on 31 July 2024. The certificate is signed by Asha Singhal, Director, and features the logo of Dynamic Minds Group (DMG).</p>

1. [Dr.S.Meena]

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event/Screenshot	Corresponding remarks in regarding the status of activity execution
1.	 <p align="center">Author</p> <p align="center">Dr.A.Tamizhselvi</p> <p align="center">Published a paper in SCIE Journal</p>	<p align="center"><u>Staff Paper Publication</u></p> <p>Kavitha vellore pichandi, Vijayaraj Janarthanan, Tamizhselvi Annamalai, Mahendran Arumugam, “Enhancing healthcare in the digital era: A secure e-health system for heart disease prediction and cloud security, Expert Systems with Applications”, Volume 255, Part A, 2024, 124479, ISSN 0957-4174, https://doi.org/10.1016/j.eswa.2024.124479. (Q1, Indexed in Scopus, Impact factor:7.5)</p> <p>Abstract: In the modern world, due to changing lifestyles, more people are infected by deadly diseases, especially heart disorders. An early prognosis is the only possible way of increasing <u>survival rate</u>. One of the key elements of this context is the healthcare <u>digitalization</u> that is carried out through <u>Internet of Things (IoTs)</u> and <u>cloud computing</u>. However, main issue in cloud with IoT is false diagnosis, which leads to cause a major impact on patient’s life. Moreover, data communication through cloud servers can be compromised by attackers due to security issues. Therefore, to overcome these issues, this paper proposes a novel secure e-healthcare system with dual objectives- accurate disease prediction and improved <u>cloud security</u>. A novel diagnosis approach ‘Hybrid Binary Particle Firefly Optimized <u>Extreme Learning Machine</u> classifier (HybBPF-ELM)’ to predict HD is designed, that recognize the subject with HD abnormality from the normal ones. The prediction accuracy and time efficiency of training process are improved by the adoption of a Hybrid Binary Particle Firefly Optimizer (HBPFO) through fine-tuning weight and bias of <u>Extreme Learning Machine (ELM)</u> classifier.</p>

2.



Co-Author

Dr.C. Heltin Genitha

Published a paper in Scopus
indexed Conference

Student – Staff Conference Publication

S. Nithyashree, M. Robin and C. Heltin Genitha "Visualizing and analyzing forest fire using YOLOv8 Algorithm" 2024 International Conference on Communication, Computing and Internet of Things (IC3IoT), pp. 1-5, Electronic ISBN:979-8-3503-5268-9, Print ISBN:979-8-3503-5269-6, DOI: 10.1109/IC3IoT60841.2024.10550227. **(Indexed in Scopus)**

Abstract: Forest fires are a serious hazard to both the environment and human lives. Effective firefighting and preventive tactics depend on the prompt and accurate prediction of forest fires. The purpose of this study is to improve the accuracy and efficiency of fire detection in forest regions by introducing a unique method for forest fire prediction utilizing image processing and the You Only Look Once (YOLOv8) algorithm. This approach uses object detection, picture segmentation, edge detection, and other image processing techniques to find possible fire zones in satellite images. The outcomes of the experiments show that the suggested method predicts forest fires with a high degree of accuracy. In addition to early fire detection, the suggested approach reduces false alarms and boosts the effectiveness of fire prevention initiatives as a whole.

3.

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

Office of the Controller General of Patents, Designs & Trade Marks, Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

APPLICATION NUMBER	202421042089
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	20/02/2024
APPLICANT NAME	1. Dr. Ritesh Pravinbhai Mahurkar 2. Arthi A 3. T.Chitrakala 4. Dr. Yogesh Khandelwal 5. Mr. Vedansh Sahu 6. Utthirakumari R 7. Sarthak Tyagi 8. Dr. Vijay Kumar Dwivedi 9. Anubhavan D 10. Dr. Bharanika C 11. Anthony Jose Hermeno Da Paedre Fernandes 12. Divydeepa
TITLE OF INVENTION	AI-DRIVEN REVENUE OPTIMIZATION: TRANSFORMING E-COMMERCE WITH DYNAMIC PRICING STRATEGIES
FIELD OF INVENTION	COMPUTER SCIENCE

Mrs. Utthirakumari R
Published an India Patent

Patent Published

Title of the invention: AI-DRIVEN REVENUE OPTIMIZATION: TRANSFORMING E-COMMERCE WITH DYNAMIC PRICING STRATEGIES

Name of Inventor:

1. Dr. Ritesh Pravinbhai Mahurkar
2. Arthi A
3. T. Chitrakala
4. Dr. Yogesh Khandelwal
5. Mr. Vedansh Sahu
6. Utthirakumari R
7. Sarthak Tyagi
8. Dr. Vijay Kumar Dwivedi

Patent Application Number: 202421042089

Date of filing of Application: 27/01/2024

Publication Date: 09/02/2024

4.

Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

Office of the Controller General of Patents, Designs & Trade Marks, Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

APPLICATION NUMBER	202431051142
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	04/07/2024
APPLICANT NAME	1. Pravin Kumar Samanta 2. Dr. K. Logesh 3. Dr. Subhashini Swaminathan 4. Dr. Rashmi Mohapatra 5. Dr. V. Sivakumar 6. K Sai Krishna 7. Dr A Tamizhselvi 8. Amutha N 9. Ranjeet Kumar 10. Vemulapati Pavani 11. Thida Jyothi Kumari 12. Henshoni
TITLE OF INVENTION	INNOVATIVE APPROACHES TO ENHANCE BREAST CANCER DETECTION USING MACHINE LEARNING AND IMAGE PROCESSING
FIELD OF INVENTION	COMPUTER SCIENCE

Dr A Tamizhselvi
Published an India Patent

Title of the invention: INNOVATIVE APPROACHES TO ENHANCE BREAST CANCER DETECTION USING MACHINE LEARNING AND IMAGE PROCESSING

Name of Inventor:

1. Pravin Kumar Samanta
2. Dr. K. Logesh
3. Dr Subhashini Swaminathan
4. Dr. Rashmi Mohapatra
5. Dr. V. Sivakumar
6. K Sai Krishna
7. Dr A Tamizhselvi
8. Amutha.N
9. Ranjeet Kumar
10. Vemulapati Pavani

Patent Application Number: 202431051142

Date of filing of Application: 15/05/2024

Publication Date: 31/05/2024

5.

The screenshot shows the 'Application Details' page from the Indian Patent Office. It includes the following information:

- Office of the Controller General of Patents, Designs & Trade Marks, Department for Protection of Intellectual Property, Ministry of Commerce & Industry, Government of India.
- INTELLECTUAL PROPERTY INDIA logo.
- Application Number: 202431052525
- Application Type: ORDINARY APPLICATION
- Date of Filing: 09/07/2024
- Applicant Name: 1. Dr. Kousik Roy, 2. Dr. Bala Dhandayuthapani V, 3. Dr. Vijayakumar Adaickalam, 4. Mr. Gnanakumar Ganesan, 5. Dr. S MP Qubeb, 6. Mr. Brahmaiah Battula, 7. Prof. Roshan Vegas, 8. Mr. D. Dinesh Kumar, 9. Dr. M. Charles Arockiaraj, 10. Prof. M. S. Padmapriya
- Title of Invention: PREDICTIVE MAINTENANCE REDEFINED: HARNESSING MACHINE LEARNING FOR INDUSTRIAL IOT SYSTEMS
- Field of Invention: COMPUTER SCIENCE
- E-MAIL (As Per Received): ipatent@30@gmail.com

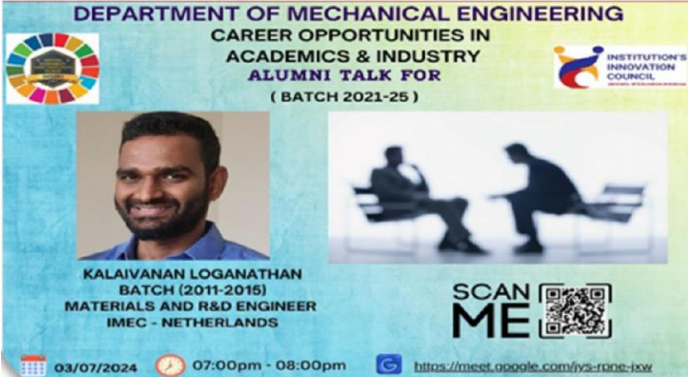

Mr. D. Dinesh Kumar
Published an India Patent

Title of the invention: PREDICTIVE MAINTENANCE REDEFINED: HARNESSING MACHINE LEARNING FOR INDUSTRIAL IOT SYSTEMS

Name of Inventor:

1. Dr. Kousik Roy
 2. Dr. Bala Dhandayuthapani V
 3. Dr. Vijayakumar Adaickalam
 4. Mr. Gnanakumar Ganesan
 5. Dr. S MP Qubeb
 6. Mr. Brahmaiah Battula
 7. Prof. Roshan Vegas
 - 8. Mr. D. Dinesh Kumar**
 9. Dr. M. Charles Arockiaraj
- Patent Application Number:** 202431052525
Date of filing of Application: 30/05/2024
Publication Date: 07/06/2024

DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	<p>Alumni Talk</p>  <p>DEPARTMENT OF MECHANICAL ENGINEERING CAREER OPPORTUNITIES IN ACADEMICS & INDUSTRY ALUMNI TALK FOR (BATCH 2021-25)</p> <p>KALAIVANAN LOGANATHAN BATCH (2011-2015) MATERIALS AND R&D ENGINEER IMEC - NETHERLANDS</p> <p>SCAN ME</p> <p>03/07/2024 07:00pm - 08:00pm https://meet.google.com/rys-r0ne-pxw</p>	<p>The Department of Mechanical Engineering recently organized an alumni talk titled ‘Career Opportunities in Academics Industry’ on 3rd July 2024 The guest speaker was Dr Kalaivanan Loganathan, a Materials and Research Design Engineer at IMEC in the Netherlands. Dr Kalaivanan an alumnus of our college from the batch of 2011 2015 shared invaluable insights on industry expectations and interview preparation. He emphasized the pivotal role of LinkedIn in networking and job searches, urging students to create strong profiles to enhance professional visibility</p>
2	<p>ALUMNI TALK</p> <p>STRATEGIES TO ACE THE KAAR TECHNOLOGIES PLACEMENT DRIVE</p>  <p>SARAVANA KUMAR E BATCH (2014-2018) SENIOR ENGINEER IN DESIGN MAHINDRA & MAHINDRA</p> <p>Kaar In Pursuit of Excellence</p> <p>FOR FINAL YEAR STUDENTS</p>	<p>The Department of Mechanical Engineering recently organized an alumni talk titled ‘Strategies to Ace the KAAR Technologies Placement Drive’ on 6th July 2024 The guest speaker was Mr E Saravana Kumar Senior Engineer in Design Mahindra & Mahindra. Mr Saravana Kumar an Proud alumnus of our college</p>

		<p>from the batch of 2014 2018 shared invaluable insights on industry expectations and interview preparation</p>
<p>3</p>	 <p>The banner for the placement drive features a portrait of Shri Yokesh, a member of the Institution's Innovation Council, and the AVASOFT logo. It includes the text: 'PLACEMENT DRIVE ALUMNI TALK FOR (BATCH 2021-25)', 'SHRI YOKESH BATCH (2019-23) LEAD SOLUTION ARCHITECT - AI R&D AVASOFT', 'INSTITUTION'S INNOVATION COUNCIL', 'AVASOFT SHAPING NEXT GEN', 'EXCLUSIVELY FOR FINAL YEAR', and a QR code with the text 'SCAN ME'.</p>	<p>The Department of Mechanical Engineering recently organized an alumni talk titled “Preplacement talk for AVASOFT” on 9th July 2024. The guest speaker was Mr Sri Yokesh Lead Solution Architech AI R&D Sri Yokesh an alumnus of our college from the batch of 2019 2023</p>
<p>4</p>	<p>Papers Published:</p>	<p>Dr G M Lionus leo Associate Professor from Mechanical Department published a article titled Impact of ammonia energy fraction on improving thermal efficiency and emissions of ammonia/biodiesel in dual fuel diesel engine”, in Process Safety and Environmental Protection, Elsevier with an Impact Factor of 7 8</p> <ul style="list-style-type: none"> • Dr N Arunkumar Professor and Dean Industrial Affairs, Mr M Siva, Mr M

Ganesh Mr N Sathishkumar Assistant Professors, Department of Mechanical Published an paper titled **Optimization of Process Parameter in**

Micro Electrochemical Machining using Topsis Technique with Analytical

Hierarchy Process (Engineering Research Express DOI 10 1088 2631

8695 /ad 63 f 7

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Mr M Subramanian Assistant Professor from Mechanical Department has

authored a chapter titled **A Novel Approach for Optimizing Wire Electric**

Discharge Machining of Mg Cu RE Zr Alloy Using Machine Learning

Algorithm" in the book "Metaheuristics Algorithm and Optimization of

Engineering and Complex Systems," published by IGI Global (Scopus

Indexed) DOI 10 4018 979 8 3693 3314 3

Mr M Subramanian, Assistant Professor, from Mechanical Department has

authored a chapter titled "**Securing Healthcare Systems**

Integrating AI for

Cybersecurity Solutions and Privacy Preservation" in the book

"Cybersecurity and Data Management Innovations for

Revolutionizing

Healthcare" published by IGI Global (Scopus Indexed) DOI 10

4018 979 8

Mr M Subramanian, Assistant Professor, from Mechanical

Department has

authored a chapter titled "**Advancing Precision Medicine**

Integrating AI and

Machine Learning for Personalized Healthcare Solutions" in the

book

"Artificial Intelligence Transformations for Healthcare

Applications Medical

Diagnosis, Treatment, and Patient Care" published by IGI Global

(Scopus

Indexed) DOI 10 4018 979 8 3693 7462 7

•

Mr M Subramanian, Assistant Professor, Department of



Mechanical


Engineering has published an article titled **Multiresponse**

optimization and


network based prediction modelling for the WEDM of AM 60 B

		<p>biomedical material in the journal "Proceedings of the Institution of Mechanical Engineers, Part C Journal of Mechanical Engineering Science" published by SAGE PUBLICATIONS (SCIE and Scopus Indexed) DOI 10 1177 09544062241264939 May</p>
5	Patents Published	<p>Mr G Ashwin Prabhu Assistant Professor from Mechanical Department Published a Indian utility patent Titled "Shock Absorber power generation system using suspension" Application no 202441049883</p> <ul style="list-style-type: none"> • Dr R Selvam, Dr K M Kumar, Associate Professors and Mr G Ashwin Prabhu Assistant Professor from Mechanical Department jointly published a Indian utility patent titled "Analysis of Bride and Groom Activities on Social Media using Artificial Intelligence 202441048176 • Mr G Ashwin Prabhu Assistant Professor, Department of

		<p>Mechanical Engineering has published a patent on “Development of fabrication and characterization of saw dust polymer composite for mechanical applications” published date 12 07 2024 Application no 202441051506</p>
		<p>Mr M Siva and Mr N Sathish Kumar Assistant Professor, Mechanical Department have finished their initial two weeks offline training program on 3 D Printing in IIT Palakkad sponsored by AICTE QIP PG Certification program from 8 th July to July 2024</p>
		<p>On 16 th July 2024 the Department of Mechanical Engineering organized a guest lecture on Crafting an Effective Resume’ for our third year and final year students Industry experts Mr Ramprasad Ramasamy, Portfolio Delivery Head at HCLTech, and Mr Navin Yogesh V Service Delivery Manager at HCLTech, shared</p>

		valuable insights during the session
		<p>On 18 th July 2024 the Department of Mechanical Engineering organized a guest lecture on 'Solar Power Technology in Energy Sector for our third year students Industry experts Dr K Pushpathan Director, TIAS Energy Pvt Ltd Chennai shared valuable insights during the session And he brief about Revolutionizing the Energy Sector with Solar Power Technology</p>

DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks
	Dr. G. Meena Devi delivered a guest lecture on "Applications of Statistics in Artificial Intelligence" at Meenakshi Academy of Higher Education and Research on July 3, 2024
Publications(only published) details	1. T. Abirami, V. Maanini Jayal, Lourdes Antoinette Shalini, A. Greeni, G. Arun, B. Bairavi,. P. Jayakumar , "Unveiling New Feminist Insights into the Inspiring Narrative of Women Pioneering India's Accomplished Mars Mission in the Film Mission Mangal" World Journal of English Language, Volume 14, Issue no. 4, 2024: Pages 366-371, ISSN 1925-0703.

DEPARTMENT OF MBA

FDP / STTP / WORKSHOP ATTENDED:



Dr.K.Sampath and 21 Integrated MBA Students have participated in the Five Days Awareness Training Programme on Agricultural Engineering Technologies for attracting educated youths for Agriculture at SAMIDC from 22 to 26 July 2024.



Dr.L. Rajeshkumar, Dr.K.Sampath and Dr.Angelin S.Kirupa have attended Ten Days International FDP on "Power of AI Tools for enhanced research" from 09 – 19 July, 2024.



Dr.K.Sampath has attended 7 Days Online FDP on "Essential Skills for Professional Development in Higher Education" from 01 – 07 July, 2024.




Journal of Engineering Research and Reports awarded Certificate of Excellence in Reviewing to Dr.K. Jawahar Rani in recognition of an outstanding to the quality of the journal.

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<p>1. Dr. P. Saravanan presented a paper titled “Multi-functional Nanocellulose-Based Nanocomposites for Biodegradable Food Packaging: Hybridization, Fabrication, Key Properties, and Application” in “Conference - 10th Ankara International conference” Organized by “International Congress on Scientific Research held in Ankara, Turkey” held between 25.6.24 to 27.06.24, (certificate received on July Month)</p> <p>2. Dr. K. Sathesh Kumar attended six days online Faculty Development Program on “Recent Advancements in Chemistry” organized by “Easwari Engineering College, Chennai-600089” conducted between 24.06.24 and 29.06.24. (Certificate received July month)</p> <p>3. Dr. N. Punitha attended seven days Faculty Development Program on “Essential Skills For Professional Development In Higher Education” organized by “Star International foundation for Research and Education , Thiruchengode” held between 01.07.24 and 07.07.24</p> <p>4. Dr. S. Suresh , Dr. J. Sharmila attended a workshop on “Quantum Mechanical calculations through Computational Techniques” organized by “ SRM Institute of Science and Technology, Ramapuram Campus, Chennai – 600089” held on 27.7.24.</p> <p>5. Dr. P. Saravanan, Dr. G. Murugan, Dr. S. Kiruba, Dr. A. Mahalakshmi, Dr. A. Arulmozhi, Ms. S. Savitha, Dr. S. Suresh, Dr. N. Punitha, Dr. P. Krishnan, Dr. S. Manikandan, Mr. S. Kaleel Mohamed Ibrahim, Dr. S. Rama, Dr. S. Sathisk Kumar, Dr. V. Swarnalatha, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. J. Sharmila, Dr. B. Subash, Dr. G. Sasikumar, Dr. K. Jayamoorthy, Dr. S.M. Prakash attended workshop on “Energy Literacy Training of the Energy Swaraj Foundation” on 10.07.24.</p>

		6. Dr.G. Sasikumar attended a webinar on “Latest research on additive manufacturing and organic polymers” organized by “Educare Taiwan” on 26.7.24
2	Publications(only published) details	<p>Journals:</p> <ol style="list-style-type: none"> 1. Dr. V. Swarnalatha published an article titled “Effect of Shocked Impact of 50 Scaling on the Structural,Morphological, Optical, and Electrical Properties of MMTC Crystals for Correlated Sensor, Photonic, and Piezoelectric Functionalities” in the “Journal of Electronics materials” 53 (2024) 5411-5420. {https://doi.org/10.1007/s11664-024-11273-9} <p>Patents:</p> <ol style="list-style-type: none"> 1. Dr. N. Punitha published a patent titled “Patent - Ecofriendly and biocomposite ZnO nanoparticle production for sun screen and therapeutic formulations- in the “Patent Journal” – Application Number 202441048923 dt 05.07.24 2. Dr. N.R. Rajagopalan published a patent titled “Advanced electrodeposition method for the controlled growth of ZnO nanorods and ZnO / CuO hybrid nanostructures” in the “Patent Journal” – Application number - 202441051451 dt 12.07.24. 3. Dr. N.R. Rajagopalan published a patent titled “Fe₃O₄@SiO₂-PMA-CU Nanoparticles: A green catalyst for triazole synthesis” in the “Patent Journal” – Application number - 202441051457 dt 12.07.24. <p>Reviewer:</p> <ol style="list-style-type: none"> 1. Dr. N.R. Rajagopalan acted as reviewer for the Journal of Peptides - July 2024. 2. Dr. B. Subash acted as reviewer for the International Journal of Hydrogen energy – July 2024

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p>FDP/WORKSHOP/CONFERENCE</p>  <p style="text-align: center;"><i>Copy of certificate by Dr. M. Chamundeeswari</i></p>	<p>Dr. M. Chamundeeswari participated in a workshop on "Recent advances in Nanotechnology" at Chettinad Academy of Research and Education, Kelambakkam.</p>
2.	<p>PAPER PUBLICATIONS</p>	<p>1. Dr. M. Chamundeeswari published a paper on, "Development of bio sheet using nanoparticles and the confederation of protein for casting wound", International Journal of</p>



Development of bio sheet using nanoparticles and the confederation of protein for casting wound

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ARTICLE INFO

Keywords:
Bio sheet
Wound dressing
Therapeutic application
Biocompatibility
Biomedical engineering

ABSTRACT

This research pioneers a sustainable approach to wound healing by developing a bio sheet for dressings. It ingeniously incorporates healing properties of reduced graphene oxide synthesized via an eco-friendly method, using phytoextracts to eliminate toxic chemicals. Collagen extracted from fish waste and fibrinogen from post-animal waste contribute to the bio sheet's green profile. The study emphasizes the global shift towards utilizing natural materials in therapeutic applications for efficient wound healing while minimizing toxic side effects. The formulation involves a simple muffle treatment for the conversion of carbon to graphene oxide, followed by a greener reduction technique to synthesize rGO. Characterization by peaks that obtained at 255 nm, 240 nm, 280 nm, 360 nm using UV-Vis analysis were confirmed the presents of desired carbon and glycoproteins. In X-ray diffraction (2θ value) we found peaks at 24.37°, 27.84°, 17.43° which indicated the presents of rGO, Fibrinogen, and Collagen, and FT-IR methods confirms the functional groups like —OH, —CH²—, —C=C—, —CHO and N—C in the derived materials and Zeta potential distribution were done for Compounds. To add up purity and efficiency analysis via GCMS were done for proteins. The resulting bio sheet, created in a controlled environment

Copy of paper published by Dr.M.Chamundeeswari

Biological Macromolecules, Volume 274, Part 1,
June 2024, **IF: 8.2**

2. **Dr. M. Chamundeeswari** published a book chapter on, "Potentialities of zero-dimensional fullerenes in designing biosensing modalities in crop, food toxin, and biomedicines" Carbon-Based Nanomaterials in Biosystems Biophysical Interface At Lower Dimensions Progress in Biochemistry and Biotechnology 2024, Pages 417-446, Academic Press



Carbon-Based Nanomaterials in Biosystems

Biophysical Interface At Lower Dimensions

Progress in Biochemistry and Biotechnology

2024, Pages 417-446

Chapter 15 - Potentialities of zero-dimensional fullerenes in designing biosensing modalities in crop, food toxin, and biomedicines

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Abstract

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3.

STAFF CONFERENCE PRESENTATION

1. **Dr. M. Chamundeeswari** presented paper titled - "Multi-Functional Nanocellulose Based Nanocomposites for Biodegradable Food Packaging: Hybridization, Fabrication, Key Properties and Application" ANKARA International Congress on Scientific Research held on June 25th-27th, 2024 AnkaraM, Turkiye



Copy of certificate by Dr. M. Chamundeeswari