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St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions


Jeppiaar Educational Trust

OMR, Chennai - 119.



MARCH 2023

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p>FDP/WORKSHOP/CONFERENCE</p>  <p>SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING (An Autonomous Institution) Rajiv Gandhi Salai (OMR), Kalavakkam - 603110, India. DEPARTMENT OF CHEMICAL ENGINEERING</p> <p>CERTIFICATE OF APPRECIATION</p> <p>This Certificate is proudly presented to</p> <p><u>Ms. Yuwvaranni S.</u></p> <p><u>S.E. Joseph's College of Engineering,</u></p> <p><u>Chennai</u></p> <p>for his/her contribution as a participant in Faculty Development Programme on "Tips to Write Effective Research Papers for Quality Journals" organized by Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, held from 21st March 2023 to 30th March 2023.</p> <p><u>B. D. Senthil Kumar</u> <u>Dr. Kilaru Harsha Vardhan</u> <u>Dr. B. Chitra</u> Convener Convener Convener</p> <p><u>Dr. K. Sathish Kumar</u> <u>Dr. V. E. Annamalai</u></p>	<p>Ms. Yuwvaranni.S has attended a FDP on Tips to Write Effective Research Papers for Quality Journals 21-30th March 2023, organized by SSN college, Chennai</p>
2.	<p>PUBLICATIONS(ONLY PUBLISHED) DETAILS</p>	<p>Dr. M. Chamundeeswari published a paper on, 'Optimization</p>



Optimization of photo: active carbon dots for reactive dyes degradation by response surface methodology—an industrial approach

P. Kowsalya¹ · S. Uma Bharathi¹ · S. Sivasankar² · M. Chamundeeswari¹

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Abstract

Carbon Quantum Dots are stable photocatalyst which are synthesized from *Spirulina platensis* by microwave assisted technology. The synthesized CQDs contain rough surface and distributed in less than 10 nm size and exhibited strong blue fluorescence under UV transilluminator and PL spectra analysis. CQDs effectively degraded 150 ppm concentration of Reactive Blue MR, Reactive Orange M2A and Reactive Yellow M4G by the ratio of 1:10 (Catalyst and Dye) and required 4, 8 and 10 h for complete degradation, respectively. But in case of mixture of reactive dyes, 1:5 of catalyst and dye were used and it requires 10 h for complete degradation under sunlight. We also statistically studied optimized conditions for dye degradation using Response Surface Methodology for process parameters such as concentration, pH, volume, and time. The degradation reaction follows first order kinetics, and the removal of CQDs from treated water is attained by charcoal as an adsorbent. Modification of functional groups during dye degradation was analyzed by using FTIR. Various physico-chemical parameters such as BOD, COD, TOC, TIC and metal ions were studied to determine the quality of degraded water. 95% of various reactive dye can be effectively degraded by biosynthesized metal ion or chemical free natural CQDs. Hemolytic effect and cytogenetic effect of CQDs and treated water proved synthesized CQDs are non-toxic to living organism.

Keywords CQDs · Cytogenetic effect · Hemocompatibility · Photocatalyst · Reactive dyes

Introduction

Synthetic dyes are widely used in various industries such as textile, leather, food, paper and pharmaceutical industries for production of value-added products which can promote human welfare. The discharged industry effluent primarily changes the color, pH and odor of the water environment [1]. The low concentration of dye can cause severe changes of physical and chemical properties of water source, and it initially affects the living organism which is present in water sources [2]. Dyes are classified based on their source,

application characteristics, ionic nature and chemical structure of dyes. According to source of dye, it can be classified into natural and synthetic dyes. Acidic, basic, reactive, disperse, mordant, direct and vat dyes are grouped by based on application characteristics of dyes. Depending on the ionic nature of dye molecules, they can be categorized into anionic, cationic and non-ionic dyes. In addition, based on the chemical structure of dye molecules, it can be classified into azo, nitro, carotenoid, acridine, quinoline, anthraquinone, indamine, diphenyl methane, amino- and hydroxy ketone and xanthene sulfur etc.,. Acidic and reactive dyes are water soluble; hence, they are commonly used for cotton, nylon, silk, and wool. But disperse dyes are partially water soluble, and they are used for dyeing polyester fibers [3], [4], [5].

Reactive dyes are commonly used in the textile industry because they give bright colors, stable in their structures and operate at mild conditions [6]. Reactive dyes are typically azo-based chromophores with various reactive groups, and they linked by an azo bridge. The general structure of reactive dye is:



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of photo:active carbon dots for reactive dyes degradation by response surface methodology - an industrial approach', Journal of the Iranian Chemical Society, https://doi.org/10.1007/s13738-023-02776-z, Impact factor : 2.271

Dr. M. Chamundeeswari published a paper on, 'Photocatalytic treatment of textile effluents by biosynthesized photo-smart catalyst: an eco-friendly and cost-effective approach', Environment, Development and Sustainability, https://doi.org/10.1007/s10668-023-03172-6, Impact factor : 4.080



Photocatalytic treatment of textile effluents by biosynthesized photo-smart catalyst: an eco-friendly and cost-effective approach

P. Kowsalya¹ · S. Uma Bharathi² · M. Chamundeeswari³

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Abstract

Worldwide, textile industry provides strong financial support for several countries because it provides more employment without any special training skills. Nevertheless, in the textile industry, various chemicals and large volumes of water are mainly used for the dyeing process and discharged effluents are toxic to living organisms if released without treatment. We have prepared an efficient photocatalyst carbon quantum dots (CQDs) from *Spirulina platensis* by microwave-assisted method. The powder form of CQDs is distributed in 10 nm in size studied by transmission electron microscope (TEM) and atomic force microscope (AFM). An optical and functional properties of CQDs were examined by photoluminescence (PL) spectrophotometer, Fourier transform infrared (FT-IR) and X-ray diffraction (XRD). It also exhibits a strong cyan blue fluorescence under UV transilluminator. Scavenging activity of CQDs was studied by 2,2-diphenylpicrylhydrazyl (DPPH) assay. 1 mg/mL of CQDs effectively degraded textile effluents under optimized conditions. The pro-

Copy of paper published by Dr.M.Chamundeeswari

3. FUNDED PROJECTS

Ms.K.R.Preethy was Sanctioned TNSTC project on the title “Synthesis of reduced graphene oxide using modified hummers method for cancer treatment” for amount Rs.7500



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)
Directorate of Technical Education Campus, Chennai – 600 025.
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Dr.R.SRINIVASAN, M.Sc., Ph.D., F.I.C.S., M.A.C.S.(USA)
Member Secretary

Lr.No.TNSCST/SPS/BS/2022-2023

To
The Principal
St.Joseph's College of Engineering,
OMR, Semmancheri,
Chennai - 600 119



03.03.2023

Sir/Madam,

Sub: TNSCST – Student Project Scheme – 2022-2023 – approval intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and Seminar Paper on Time.

1.	Ms .S.P.Vedavalli, Assistant Professor, Department of ECE, St.Joseph's College of Engg., Chennai-600 119	Non-isolated dc-dc power converter with high gain for ev applications	N.Vaidhyanathan, K.Vigneshwaran,	EEE-1998	The Principal	Rs 7500/-
2.	Ms.K.Deepa, Assistant Prof., Department of IT St.Joseph's College of Engg., Chennai-600 119	Deep learning based cyclone intensity estimation using insat-3D IR imagery	Dharshini.N, Jane Ann Elson,	CSE-1728	The Principal	Rs 7500/-
3.	Ms.Preethy.K.R, Assistant Professor, Department of Biotechnology, St.Joseph's College of Engg., Chennai-600 119	Synthesis of reduced graphene oxide using modified hummer's method for cancer treatment	Theebika B, Gayathri S,	MS-0755	The Principal	Rs 7500/-

Copy of Project sanctioned for Ms.K.R.Preethy

4. STAFF CONFERENCE PRESENTATION

Ms.Yuwvararanni.S has Presented a paper titled "Comparative Studies on Synthesis and Characterization of Calcium Oxide Nanoparticle from Chemical and Natural Source" in an International conference embracing biotechnology for a sustainable future held on March 10-11th, 2023. Organized by Department of Biotechnology, Rajalakshmi Engineering College, Thandalam, Chennai.



Copy of certificate Ms.Yuwvaranni





Copy of certificate Ms.B.Sangeetha

Ms.B.Sangeetha, participated in the International Conference on "Embracing Biotechnology for a Sustainable future" organized by Rajalakshmi Engineering College, Chennai on 10th and 11th March 2023.

DEPARTMENT OF CHEMICAL ENGINEERING

S.No.	Title of the Events and Photographs	Details of the Event
	COLLABARATIVE QUALITY INITIATIVES WITH OTHER INSTITUTIONS	- Dr.Senthil Rathi.P, Assistant Professor , has received an Offer as a Research Fellow International at UNITEN, Malaysia
	COMPETITIONS ATTENDED BY STUDENTS	i. Mr.Muthu Aravindh.M and Mr.Osama Ali.A of Illrd Year Chemical has Participated in National Level Technical Symposium (AAVISHKAR- 2K23) conducted by Department of Chemical Engineering, Coimbatore Institute of Technology on 11.03.2023
	AWARDS/PRIZE WON BY STUDENTS	i. Mr.Muthu Aravindh.M and Mr.Osama Ali.A of Illrd Year Chemical has Won 2nd place in <i>Poster Presentation on National Level Technical Symposium (AAVISHKAR- 2K23)</i> conducted by Department of Chemical Engineering, Coimbatore Institute of Technology on 11.03.2023
	PUBLICATIONS(ONLY PUBLISHED) DETAILS	- Dr.Venkatesh.N, Professor has published “ <i>Oleic acid-rich waste fleshing oil as a secondary carbon source for the synthesis of sophorolipids</i> ” in Environmental Progress and Sustainable Energy

DEPARTMENT OF MECHANICAL ENGINEERING

SI No	Name of the Activity	Remarks
1	<p>Paper Published:</p>  <p>Journal of the Brazilian Society of Mechanical Sciences and Engineering (2023) 45:195 https://doi.org/10.1007/s40430-023-04123-y</p> <p>TECHNICAL PAPER</p> <p>Deep hole drilling of AISI 1045: effect on hole quality & tool wear under flood, emulsion, and mist cooling technique</p> <p>N. Arunkumar¹ · M. Ganesh¹ · M. Rajaram¹ · E. Saravana Kumar¹</p> <p>Received: 11 November 2022 / Accepted: 24 February 2023 © The Author(s), under exclusive license to The Brazilian Society of Mechanical Sciences and Engineering 2023</p> <p>Abstract In recent times, the move towards sustainable manufacturing is guiding industries to adopt a low-impact manufacturing methodology that can boost productivity and reduce environmental impact. In this novel study, an evaluation of Deep Hole Drilling on AISI1045 under three different cooling techniques Flood, Emulsion, and Mist cooling was carried out. Traditionally, the flood cooling technique is used as the cooling and lubricating method, in which an increased amount of coolant is supplied with high pressure to remove chips from the machined surface. But it has negative effects on the environment, health, and machining cost. To overcome these constraints mist cooling is used as the lubricating technique which has shown promising results in many machining processes. To carry out the experimentation, three input process parameters Spindle Speed, Cutting Feed, and Pressure of the coolant were taken and Surface roughness, circularity, cylindricity, Hole wall Temperature, and tool wear were considered as output parameters to measure the hole quality. Among all the cooling techniques, mist cooling proved to be worthy in terms of attaining sustainability and produced good results in terms of Surface Finish, Tool Wear, and Hole Profile. Tool wear under mist cooling was reduced by 13–28% and 25–35% when compared with Cutting oil and emulsion, respectively, which may be attributed to reduced abrasion and adhesion under mist cooling. The surface finish was improved by 42–50% and 20–32% improved under mist cooling when compared with cutting oil and emulsion, respectively.</p> <p>Keywords Deep hole drilling · Mist cooling · Hole wall temperature · Circularity · Tool wear</p> <p>1 Introduction</p> <p>AISI 1045 Steel serves as one of the most often used grades of steel which has the quality of good machinability and is available at a cheap cost. This material finds its application in areas where deep hole drilling is to be done on them. High wear rate, high roughness, and difficulty, temperature generation are some of the common reasons that make machining a challenging activity. The goal of present-day machining technology is to combine lower costs with higher quality. Among the various machining processes, the Deep Hole</p> <p>Drilling (DHD) process is one of the precision machining processes where the hole's depth is larger than its diameter (D>L). DHD process is characterized by high mechanical loads on the tool, problem in chip evacuation, variation in hole form, etc. In response to these difficulties, deep borehole production is made possible by DHD technology [1]. When compared with the other drilling process, DHD which uses the asymmetrical tool structure is found to be very effective at higher length-to-diameter ratios [2]. The velocity is found to be increased at the outer periphery of the tool which gets propagated from the drill center point which helps in carrying out the cutting process more efficiently [3]. In the deep hole drilling process, two types of tools are used: namely single tip gun drill which has a single cutting point, and the BTA drill tool which has multiple cutting points [4]. In machining processes like turning, milling, and surface finishing the machining takes place externally but in DHD the process takes place internally [5]. Chip evacuation is the most important process which is to be focused on in DHD as it comes under internal machining. As the tool advances</p> <p>Technical Editor: Liviochi Carlson Britesim. M. Ganesh ganeshm@ gmail.com N. Arunkumar anarunkumar72@ gmail.com</p> <p>¹ Department of Mechanical Engineering, St. Joseph's College of Engineering, 604 Mahalingapuram Road, Chennai 600119, India</p> <p>Published online: 09 March 2023 </p>	<p>➤ Arunkumar, N., Ganesh, M., Rajaram, M., Saravana Kumar, E. (2023), Deep hole drilling of AISI 1045: effect on hole quality & tool wear under flood, emulsion, and mist cooling technique. J. Braz. Soc. Mech. Sci. Eng. 45, 195 (2023). https://doi.org/10.1007/s40430-023-04123-y</p>

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. Publications:

The following staff members have published the research papers during March in Journal at International Level

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Lakshmi D	Prediction of Age, Gender and Ethnicity using Haar Cascade Algorithm in Convolutional Neural Networks	World Conference on Artificial Intelligence: Advances and Applications 2023, 18-19 March 2023	Proceedings to be published in Springer Book Series "Algorithms for Intelligent Systems" Scopus Indexed	Presented and Yet to be indexed

DEPARTMENT OF MATHEMATICS

Events	Remarks
Publications(only published) details	<ol style="list-style-type: none"> 1. P. Agilan, K. Julietraja, Mohammed M. A. Almazah, and Ammar Alsina, Stability Analysis of a New Class of Series Type Additive Functional Equation in Banach Spaces: Direct and Fixed Point Techniques. Mathematics , February 2023, Volume 11, No 4, pp: 1-19, https://doi.org/10.3390/math11040887 , SCIE 2. Annmaria Baby, K. Julietraja and D. Antony Xavier, On Molecular Structural Characterization of Cyclen Cored Dendrimers. Polycyclic Aromatic Compounds, February 2023, pp: 1-23 , https://doi.org/10.1080/10406638.2023.2179641 , SCIE 3. D. Antony Xavier, K. Julietraja and Theertha Nair A, Distance Based Structural Descriptors of Nonconjugated Ethylene Oxide Dendritic Core Decorated with Tetraphenylethylene. Polycyclic Aromatic Compounds, February 2023, pp: 1-18, https://doi.org/10.1080/10406638.2023.2179642 , SCIE 4. G.Venkat Narayanan, M. Saravanan, Simple Graphoidal Cover on Bicyclic Graphs. Indian Journal of Natural Sciences, February 2023, Vol. 13, No. 56, pp: 53647- 53657 , WOS

DEPARTMENT OF MBA

GUEST LECTURE:



Mr. Ponnarasu,
Assistant Vice President – Kotak Securities

Department of MBA organized an Guest Lecture on “Sales as Career – An Alumni Interactive Session” organized on 16.03.2023, Around 125 students participated in this session.

WORKSHOP/FDP/STTP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:



NPTEL-AICTE
Faculty Development Programme
(Funded by the H.O.T., Govt. of India)

This certificate is awarded to
K JAWAHAR RANI
for successfully completing the course
Business Law for Managers
with a consolidated score of **82 %**

Prof. Andrew Thangaraj
NPTEL Coordinator
IT Madras

Duration of NPTEL course: 8 Weeks

Roll No: NPTEL23MG40524347335

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is however acceptable for promotions under CAS as per AICTE regulations dated 29.09.2019, hence is other relevant / certification courses.
F.No. AICTE / R/FD / FDP through MOOCs / 2017-18

THE NEW COLLEGE, CHENNAI-600014
(An Autonomous Institution affiliated to the University of Madras & Recognized by the Government of India)
PG & RESEARCH DEPARTMENT OF ECONOMICS
ACADEMIC ACTIVITY CLUB

CERTIFICATE OF PARTICIPATION

XAIFEE-CE000323

This is to certify that **Dr.Lekshmi.R.S, Professor, MBA, St.Joseph's College of Engineering**, participated in the International level Workshop on **"Treatment of Time Series and Panel Data: An application of Econometric Model"** organized by Academic Activity Club, Post Graduate and Research Department of Economics, The New College, Chennai - 600014, on **21st March 2023**.

Dr. M. Abdul Jamal Coordinator
Dr. A. Abdul Raheem Coordinator (Shift-II)
Dr. S. Kareemulla Basha Head of Department
Dr. S. Baskere Ahamed Principal

Made for free with Certify'em

Dr.K. Jawahar Rani has successfully completed the NPTEL Course on Business Law for Managers

Dr.Lekshmi RS has participated in the International Level workshop on Treatment of Time series and panel data: An application of Econometric model organised by The New College, Chennai on 21.03.2023.



Dr.Lekshmi RS has acted as the International Session Chair in ICEABM 2023 organised by SRM Institute of Science and Technology, Vadapalani on 30 & 31 March 2023.



Dr.RS.Lekshmi, Dr.K.Sampath, Dr.L. Rajeshkumar and Dr.U.Madhanrajan have participated in the International FDP on Essentials of Research and Publication organised by Easwari Engineering College, Chennai from 13.03.2023 to 17.03.2023.

STUDENTS ACHIEVEMENTS:

S.NO.	EVENTS	NAME OF THE STUDENT	YEAR	POSITION	CASH PRIZE
1.	PAPER PRESENTATION	MS. V. HEMAVANI MS.C.KALAIVANI	I – MBA	I	₹.1000/-
2	BUSINESS QUIZ	Mr. JABIN SAMUEL RAJ Mr. KARTHICK	I – MBA	II	-

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<p><u>Resource Person:</u> 1. Dr. P. Krishnan has delivered a lecture as resource person in one day faculty development programme on “Advanced Materials” conducted by “Saveetha University , Chennai” held on 24.03.2023.</p> <p><u>Participated</u> 1. Dr. S. Kiruba, Dr. N. Punitha, Dr. A. Arulmozhi, Dr. A. Mahalakshmi, Ms. S. Savitha, Dr. S. Rama, Dr. C. Abinaya, Dr. T.L. Ajeesha attended International Faculty Development Program on “Advanced Functional Materials Energy, environment and Sustainable Development” conducted by “SRM TRP Engineering College, Trichy” held between 28.02.23 and 09.03.23 2. Dr. K. Jayamoorthy and Dr. B. Subash attended International Faculty Development Program on “Recent Advancements in Science and Technology” conducted by “Alliance University,” held between 06.03.23 and 10.03.23. 3. Dr. S. Kiruba attended National faculty development program on “Tools for Research Paper Preparation and Indexing” conducted by “Scientific Research Reports, Chennai, India” held between 15.03.23 and 19.03.23. 4. Dr. N.R. Rajagopalan and Dr. S. Manikandan attended National faculty development program on “Tamils and Technology” conducted by “Anna University, Chennai” held between 20.03.23 and 25.03.23. 5. Dr. S. Rama attended National webinar on “Essentials of effective Technical Writing and project proposal framework” conducted by “Methodist College of Engineering and Technology, Hydrabad” held on 18.03.23. 6. Dr. G. Murugan attended National webinar on “Smart Nano sensor Technology for Medical Diagnostics” conducted by “Sri Ramakrishna Engineering College, Coimbatore” held on 24.03.23.</p>
2	Awards/Prize won by students / Staff	1. Dr. K. Jayamoorthy has been awarded Best paper award for his conference paper titled “Fluorescence quenching of mercaptobenzimidazole derivative with ZrO ₂ nanoparticles” presented in the “International Conference on Materials” conducted by “Dr.R.K.Shanmugam College Of Arts And Science, Kallakurichi” held between 2.3.23 and 3.3.23. He also


		<p>presented totally 7 conference articles in the event.</p> <p>Reviewers:</p> <p>2. Dr. K. Jayamoorthy has acted as reviewer for the following reputed journals.</p> <ol style="list-style-type: none"> 1. Arabian Journal of Chemistry – March 2023 2. Current Organic Chemistry – March 2023 3. Journal of fluorescence – March 2023 <p>3. Dr. A. Arulmozhi has acted as reviewer for Journal of Material Science: Materials in Electronics - March 2023</p> <p>4. Dr. N. Punitha, Dr. S.M. Prakash, Dr. K. Sathesh Kumar, Dr. S. Rama have obtained their Anna university Research guideship.</p>
3	Publications(only published) details	<ol style="list-style-type: none"> 1. Dr. G. Sasikumar published a paper titled “Catalytic, Theoretical, and Biological Investigations of Ternary Metal (II) Complexes Derived from L-Valine-Based Schiff Bases and Heterocyclic Bases” in the journal “Molecules”. 2023, 28(7), 2931 2. Dr. N. Punitha and Dr. K. Jayamoorthy published a paper titled “Effect of MPA capping on the structural, optical and thermal properties of Zn_{0.96}Ni_{0.04}S nanoparticles” in the journal “Inorganic and Nano-Metal Chemistry”. (doi: https://doi.org/10.1080/24701556.2023.2188453) 3. Dr. K. Satheshkumar and Dr. S.M. Prakash published a paper titled “Spectral studies and non-linear optical properties of an organic crystal: Piperazine-1,4-Diiumbis(4-aminobenzenesulfonate)” in the journal “Journal of non linear optical physics and materials”.(doi: https://doi.org/10.1142/S0218863523500558) <p>Patents:</p> <ol style="list-style-type: none"> 1. Dr. S. Kiruba, Dr.A. Arulmozhi, Dr. V. Swarnalatha, Dr. S.M. Prakash published a patent titled “Analysis and strategic management of nanoproducts with regard to their sustainability potential” in the journal issue 11/2023 dated 17.03.23. 2. Dr. N. Punitha published a patent titled “An Evaluation on Ecological Consequences of Nano Technology in Agriculture” in the journal issue 11/2023 dated 17.03.23.
4	Funded Projects	<p>The following staff members have applied for funded projects.</p> <ol style="list-style-type: none"> 1. Dr. S. Suresh – SERB 2. Dr. P. Saravanan – SERB 3. Dr. B. Subash – SERB 4. Dr. S. Rama - SERB 5. Dr. K. Jayamoorthy – TN Chief Minister Grant

DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	Guest Lecture / Webinar Organized	<ul style="list-style-type: none"> ● Dr.S.Thenmozhi and Dr.V.Gowri has organized an AICTE Recognized FDP on “ Low Cost Housing Techniques and Practice” from 13-03-2023 to 17-03-2023 by online mode in collaboration with NITTTR, Chandigarh.
2.	FDP/Workshop/Conference attended	<ul style="list-style-type: none"> ● Dr.S.Thenmozhi, Dr.V.Gowri, Mrs.S.Banupriya & Mrs.R.Ruthra have attended 5 days FDP "Environmental Engineering & Sustainability - Research, Technologies & Challenges" organised by Department of Civil Engineering, NMIT in association with Skill Council for Green Jobs, Govt. of India & Prakruthi Institute of Environmental Studies from 27-02-2023 to 03-03-2023 ● Dr.S.Thenmozhi, Dr.K.Vijai, Dr.V.Gowri, Mr.S.P.Senthil Kumar, Mrs.S.Banupriya, Ms.R.Adlin Rose and Ms.R.Ruthra have attended online AICTE Recognized FDP on “ Low Cost Housing Techniques and Practice” conducted by NITTR, Chandigarh, from 13-03-2023 to 17-03-2023 at St.Joseph’s College of Engineering, Chennai-119. ● Mrs.R.Ruthra and Mrs.S.Banupriya attended 5 days Virtual FDP on “Sustainable Repair and Rehabilitation of Constructed Facilities “organized by the School of Civil Engineering, from 06-03-2023 to 10-03-2023 at VIT, Chennai ● Dr.S.Thenmozhi Presented a paper titled, “Stabilization of Expansive Soil Using Agro Wastes and Plastic Bottle Strips” in 4th International Conference on Sustainable Environment and Civil Engineering (ICSECE 2023) on 30.03.2023 organized by Department of Civil Engineering, Easwari Engineering College, Chennai-89. Engineering College, Chennai-89. ● Dr.V.Gowri and Dr.S.Thenmozhi Presented a paper titled “Stabilization of Compressed Fly ash Brick with Meta kaolin” in 4th International Conference on Sustainable Environment and Civil Engineering” (ICSECE 2023) on 30.03.2023 organized by Department of Civil Engineering, Easwari Engineering college, Chennai-89.

		<ul style="list-style-type: none">● Mr.S.P.Senthil Kumar Presented a paper titled “Enhancing the strength of Thermally affected concrete by Retrofitting using Carbon Fiber Reinforced polymer Wrapping” in 4th International Conference on Sustainable Environment and Civil Engineering” (ICSECE 2023) on 30.03.2023 organized by Department of Civil Engineering, Easwari Engineering college,Chennai-89● Mrs.R.Ruthra presented a paper titled “Spatial Temporal Landuse and Landcover changes in Pulicat Lake using Remote Sensing and GIS Analysis” in 4th International Conference on Sustainable Environment and Civil Engineering” on 30-03-2023 organized by Department of Civil Engineering, Easwari Engineering college,Chennai-89.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p>The poster is for the 'ZEN ACTUATOR' event organized by the IEEE Robotics and Automation Society in association with the Department of Electrical and Electronics Engineering at St. Joseph's College of Engineering. The event is scheduled for March 22, 2023, from 6-7 PM. It features a digital clock and a small robot. The poster lists several organizers and coordinators, including Mrs. S. Jessie Priya as the Chief Patron, and Dr. B. Babu Manoharan as the Chairman. It also mentions that E-certificates will be provided to participants.</p>	<p>Zen Actuator was organized by IEEE SJCE SBC under IEEE Robotics and Automation Society for the college students. The event was conducted in Google meet It is a amazing quiz event Conducted for students to make them to know about science and technology,conducted on on 22th march 2023. Over 20 students participated in it and are benefited. E-Certificates are distributed to the participants. Student Coordinators G.Aparnaa, R.Gokul Kumar, V.Rakshit Roshan, B.Santhosh, N.Rupesh, M.N.Pragadeesh, Sujitha, somsudha, soundharya, Sanjay kumar coordinated the event with Mr. R. Sreekanth, IEEE SB Counselor."</p>

PIC: IEEE EVENT POSTER

2.

You Choose, We Do It!
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மின் மற்றும் மின்னணு பொறியியல் துறை
உடன் இணைந்து
IEEE SJCE SB மாணவர் மன்றம்
பெருமையுடன் வழங்கும்
சிந்தனை அருவி
---ஒரு வெற்றிடங்களை நிரப்பும் போட்டி---





தேதி: 31.03.2023
நேரம்: 7.00pm - 8.00pm

பதிவு செய்ய
https://bit.ly/சிந்தனை_அருவி

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
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Patrons

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Dr. A. Chandra Sekar M.E., Ph.D.
Dean (Research), St. Joseph's College of Engineering

Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.
Dean (Academic), St. Joseph's College of Engineering

Convenor **SBC Advisor** **Staff Coordinator**
Dr. T.V. Narmadha M.E., Ph.D. **Dr. Jayarama Pradeep** M.E., Ph.D. **Mr. R. Sreekanth** M.A., Ph.D.
Professor & Head - L&E Affairs Professor & Head - Soft Skills Assistant Professor

Student Coordinators
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

*For Admissions: visit www.stjosephs.ac.in / www.stjosephscollegeofengineering.ac.in or contact: +91 99401 04881 / +91 99401 04882.

PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a tamil quiz "சிந்தனை அருவி" which is related to tamil fill in the blanks on 31 st March 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 35 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Anitta , Ajay and Nandhini and the others were provided with participation certificates. The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D, Sunil Kumar M.

3.

You Choose, We Do It!
St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119










மின் மற்றும் மின்னணு பொறியியல் துறை
உடன் இணைந்து
IEEE SJCE SB மாணவர் மன்றம்
பெருமையுடன் வழங்கும்
வினாடி வினா
---ஒரு தமிழ் வினா விடை போட்டி---





தேதி: 31.03.2023
நேரம்: 6.00 pm - 7.00pm

பதிவு செய்ய
https://bit.ly/வினாடி_வினா

-- பங்கேற்பாளர்கள் அனைவருக்கும் சான்றிதழ்கள் வழங்கப்படும் --

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Dean (Research), St. Joseph's College of Engineering

Dr. C. Sreekumar M.Sc., M.Tech., Ph.D.
Dean (Academic), St. Joseph's College of Engineering

Convenor **SBC Advisor** **Staff Coordinator**
Dr. T.V. Narmadha M.E., Ph.D. **Dr. Jayarama Pradeep** M.E., Ph.D. **Mr. R. Sreekanth** M.A., Ph.D.
Professor & Head - L&E Affairs Professor & Head - Soft Skills Assistant Professor

Student Coordinators
Deepika U | Jayavarshini M J | Abinaya Priya R A | Shiva D | Sunil Kumar M

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PIC: IEEE EVENT POSTER

The IEEE SJCE SB Maanavar Mandram of St. Joseph's College of Engineering conducted a tamil quiz event "வினாடி வினா" on 31st March 2023. The event was conducted in online mode. The rules of the event were explained before each round. Overall, 30 people submitted their response for the event and the best three were given winners' certificates. The winners of the event are Navina, Bharath, Abinaya and the others were provided with participation certificates. The student coordinators for this event are Deepika U ,Jayavarshini M J , Abinaya Priya R A , Shiva D Sunil Kumar M.

4.



PIC: IEEE EVENT POSTER

The IEEE Power Electronics Society of St Joseph's College of Engineering Student Branch Chapter organized a technical workshop on 9 March 2023 on the topic, "DESIGN AND FABRICATION OF ELECTRIC VEHICLE". The resource person of the workshop session were Dr.A.Bharathi Sankar, Assistant Professor Senior Grade 2, School Of Electronics Engineering, VIT University Chennai Campus and Dr.R.Seyezhai, Professor, Department Of Electrical and Electronics Engineering, SSN College of Engineering, Chennai. The resource person gave a brief explanation about electric vehicles and the need and importance of electric vehicles to start off the session. The session was extremely beneficial to the budding engineers who are interested to learn regarding electric vehicles. The resource person covered the concepts in fundamentals, aerodynamics of EV, its benefits, working of Electric vehicles etc... The participants were interactive throughout the session.

5.



The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the **GRAND THEFT**, a CHALLENGING EVENT. The event was conducted on 27.03.2023 through online mode. "Grand Theft," was successfully conducted with participants putting their detective skills to the test. The game ran on a Google Forms website, where 10 crime scene solving multiple-choice questions were asked. Participants had to use their critical thinking and problem-solving abilities to deduce the correct answers. This provided an opportunity for participants to assess their performance and evaluate their knowledge in the field of crime-solving. Grades for the participants were given based on the number of right questions answered. E-certificate were given to the winners and participants.

PIC: IEEE EVENT POSTER

6.



The poster features the following text and graphics:

- Top banner: "The Class, We Do It! St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution) St. Joseph's Group of Institutions OMR, Chennai - 119" with a 29th Anniversary logo.
- Accreditation logos: ABET, NBA, NIF, Cambridge, and IEEE.
- Department of Electrical and Electronics Engineering in association with IEEE POWER ELECTRONICS SOCIETY.
- Event details: "Date: 27-03-2023, Mode: Online, Timings: 7AM-10PM".
- Central graphic: "BIRD BASH" with Angry Birds characters and a QR code labeled "scan here to participate".
- Text: "E-certificate will be provided to all participants".
- Chief Patron: Dr. B. Babu Manoharan.
- Patrons: Mrs. S. Jessia Priya, Mr. B. Srinath Sekar, Dr. V. Vallinayagam, Dr. A. Chandra Sekar, Dr. C. Sreekumar, Dr. T. J. Sureshbabu, Dr. Jayarama Prasad, Mr. K. Sreeshanth.
- SBC Advisor: Dr. Jayarama Prasad.
- Staff Coordinator: Mr. K. Sreeshanth.
- Student Coordinators: POOJASREE K, POORNAVAKASHI T, RIVAS M, KUMARABAS SHIRAJI D, SENTHAMIZHSELVAN S, VASANTHAKUMAR S, MICHAEL JESVIN F.
- Contact: @IEEEPEETS, @jeeepets_sjce.

The IEEE Power Electronics Society of St Joseph's College of Engineering hosted the **BIRD BASH**, a TECHNICAL EVENT. The event was conducted on 27.03.2023. Bird Bash is an online quiz and game event hosted on the website classtools.net. Participants must answer a minimum of 10 out of 15 Power electronics related multiple-choice questions to pass the quiz. Successful participants will be granted access to the 'Fling the Teacher' game, which is similar to the popular 'Angry Birds' game. The game lasts for 60 seconds, and the player must hit targets to score points. This makes the event more entertain. E-certificate were given to the winners and participants.

PIC: IEEE EVENT POSTER

7.

St. JOSEPH'S COLLEGE OF ENGINEERING
(An Autonomous Institution)
St. Joseph's Group of Institutions
OMR, Chennai - 119

Counselling Code : 1317

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

SOCIAL AWARENESS CLUB
ORGANIZE

RENDEZVOUS
NOTHING WILL WORK UNLESS YOU DO

REGISTER HERE **FOR 2nd YEARS**
on **07th MARCH 2023**

<https://forms.gle/foYAYVe6QA6hwQc8A> **1.10PM-3.00PM**

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
Chairman, St. Joseph's Group of Institutions

Patrons
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Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

Dr. V. Vallinayagam M.Sc. M.Phil. Ph.D. Dean Student Affairs, St. Joseph's College of Engineering
Dr. A. Chandra Sekar M.E. Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. C. Sreekumar M.Sc. M.Tech. Ph.D. Dean Academics, St. Joseph's College of Engineering

Convenors
Dr. Jayarama Pradeep M.E. Ph.D. Professor & Head - Staff Affairs
Dr. T.V. Narmadha M.E. Ph.D. Professor & Head - Lab/Office

Coordinators
Mr. R. Elanthirayan M.Tech. (Ph.D.) Assistant Professor
Ms. S. P. Vedavalli M.E. (Ph.D.) Assistant Professor

Student Coordinators
HARISHKUMAR K. NIKUNTHASIBI DHYANESH P. AMIRTHA VARSHINI M. THEJA THARUN S. R. SEVA MALAVANES. RANJA R. KAVYA D. VISHNU PRIYA S. ABINAYA PRIYA S.A. HARIV JAKLES. ATHINDRAN. ARUNARA D. HEMISH VISHU S. KAVIN KUMAR S. KAVYAM. MADALAKOMILA. SUREVALD.

*For Admissions: visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or contact: +91 99401 04861 / +91 99401 04862

PIC: SAC EVENT POSTER

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) **SOCIAL AWARENESS CLUB** organized a technical event “**RENDEZVOUS**” on **07/03/2023**. This exclusive event started at **1:40PM** with all the members of our club. The event started with “**TAMIL THAI VAZHTHU**” and the event started exploring the hidden talent of our Students.

STUDENT NAME	YEAR	POSITION
KAILASH I PRAKASH M	II-A	I
PRIYADHARSHINI D PRIYADHARSHINI V	II-B	II
JOSHAN DAVISON A AKASHUAL .A	II- A	III

8.



PIC: CLUB EVENT POSTER

St. Joseph's College of Engineering (Electrical & Electronics Engineering) **ROBOTICS CLUB** organized a technical event “**TECHNOXIAN**” on 11th **March 2023**. This event started at 11:00 AM with all the members of our club and participants. The event was started with full enthusiasm by exploring the hidden talents of the students.

STUDENTS NAME	YEAR	POSITION
SRINIVAS R SARAVANA SRINIVAS M	II	I
VASANTH KUMAR S THIRUMALAI B	II	II
ARAVIND RAJ BHARATH RAJ	II	III

9.

WARTECH
For 2nd YEAR
1:00PM to 3:00PM
10th MARCH
For Registration: <http://surl.li/fiefj>
Certificates Will Be Provided for Winners

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
Chairman, St. Joseph's Group of Institutions

Patrons
Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

Convenors
Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering
Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. G. Sree Kumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

Coordinators
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs
Dr. T.D. Sudhakar M.E., Ph.D. Professor / EEE
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor / EEE

Student Coordinators
ALFRED EINSTEIN AMIRTHAVARSHINI M MUGUNTHASRI R BHARATHRAJ M ABINAYA B
MALATHI M SUNILKUMAR GOKULA ARUTHIRA S MALAVIKA N
PRADIPAR KUMUTHAVALLI DIVYA G KATHIR D SIVANTH S K MADHAVAN K

*For Admissions: Visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or Contact: 9940104881 / 9940104882

PIC: ISTE EVENT POSTER

St. Joseph's College of Engineering (Electrical & Electronics Engineering) “St. JOSEPH'S ISTE STUDENT CHAPTER” organized a technical event “WARTECH” on 10-03-2023. This exclusive event started at 1.40 PM with all the members of our club. The event was started with Tamil Thai Vazthu. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
KAILASH & PRAKASH	II	I
NERAIMATHI & MOGANA SRI	II	II
NANDHA & KARTHICK KUMAR	II	III

10.

PLANOMAT
For 2nd Years
1:40PM TO 3:00PM
ON MARCH 7th
For Registration: <http://surl.li/fiefj>
Certificates Will Be Provided for Winners

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
Chairman, St. Joseph's Group of Institutions

Patrons
Mrs. B. Jessie Priya M.Com. Managing Director, St. Joseph's Group of Institutions
Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering
Mr. B. Shashi Sekar M.Sc. Executive Director, St. Joseph's Group of Institutions

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Dr. V. Vallinayagam M.Sc., M.Phil., Ph.D. Dean Student Affairs, St. Joseph's College of Engineering
Dr. A. Chandra Sekar M.E., Ph.D. Dean Research, St. Joseph's College of Engineering
Dr. G. Sree Kumar M.Sc., M.Tech., Ph.D. Dean Academics, St. Joseph's College of Engineering

Coordinators
Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs
Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs
Dr. T.D. Sudhakar M.E., Ph.D. Professor / EEE
Mr. R. Elanthirayan M.Tech., (Ph.D.) Assistant Professor / EEE


Student Coordinators
AMIRTHA VARSHINI M MUKUNTHASRI R ALFRED EINSTEIN G MALAVIKA N MADHAVAN K
MALATHI M SUNIL KUMAR M BHARATH RAJ ARUTHURA S Abinaya B

*For Admissions: Visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or Contact: 9940104881 / 9940104882

PIC: ISTE EVENT POSTER




St. Joseph's College of Engineering (Electrical & Electronics Engineering) “St. JOSEPH'S ISTE STUDENT CHAPTER ” organized a technical event “PLANOMAT” on 07-03-2023. This exclusive event started at 1.40 PM with all the members of our club. The event was started with TAMIL THAI VAZHTHU. Abiding the famous quote “Talent hits a target no one else can hit; Genius hits a target no one else can see” the event started exploring the hidden talent of our students through this event.

STUDENTS NAME	YEAR	POSITION
VIJAYALAKSHMI & SHAMRUTHA	II	I
PRIYADHARSHINI & KANISHKA	II	II
KAVIN KUMAR & MONISH	II	III

<p>11.</p>	 <p style="text-align: center;">PIC: BRIDGE certificate</p>	<p>Our Faculty Dr.Jayarama Pradeep for participating in the 50th edition of Bridge 2023- Chennai (A High Impact industry Institute Interaction Event of India) organized by ICT Academy held on 14 march 2023 at Chennai trade center, Chennai.</p>
<p>12.</p>		<p style="text-align: right;">Criteria 1</p> <p>A patent titled “SMART AUTOMATIC BILLING SYSTEM FOR VEGETABLES AND FRUITS STORE USING IMAGE PROCESSING WITH CONTINUOUS POWER BACKUP” is published by Dr.G.Ravivarman, Dr.M.Vignesh, Dr.M.Venmathi, Dr. Dinesh Bhatia, Dr.Dheepanchakkravarthy A, Rameshwar Santosh Devhade on 30/12/2022.</p> <p>A patent titled “ AN INTELLIENT POWER MANAGEMENT TECHNIQUE FOR A SOLAR-WIND-BATTERY SYSTEM” is published by Natarajan Hariprasad, Dr.T.V.Narmadha, Mr.A.Sadeesh Kumar, Mr.R.Elanthirayan, Mrs.C.Ramadevi, Mrs.R.G.Nirmala, Dr.M.Ramesh Babu, Mr.M.Chilambarasan on 03/03/2023.</p>
<p>13.</p>	<p style="text-align: center;">PLACEMENT DETAILS FOR THE MONTH OF MARCH 2023</p>	<p>Total No of students placed = 111 UG + 4 (PG) =115 Students Total No of Offers = 173 + 4 (PG) = 177 Offers Total No of Students (UG) = 160 Total No of Eligible Students (UG) = 144 (All Clear & 1 arrear students) Total No of Eligible Students (PG) = 06 % of students Placed (UG) = 111/144 = 77.09 % % of students Placed (PG) = 04 % of students Placed (PG) = 04/06 = 66.66%</p>

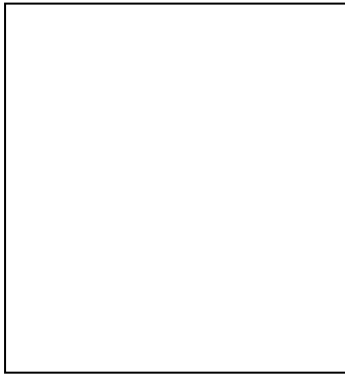
		No of students having single offers = 70 + 04 (PG) No of students having Double offers = 28 No of students having Triple offers = 15 No of students having Quadruple offers = 02
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DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
I	FDP Attended	S. No.	Faculty Name	FDP Organised	Conducting agency	Period	Link
		1.	Dr.Gnanaprakasam C N	FDP on Electric Vehicle Drive System	Department of EEE, Jerusalem College of Engineering	27-2-2023 to 4-3-2023	
		2	Dr.Meena S	FDP on Electric Vehicle Drive System	Department of EEE, Jerusalem College of Engineering	27-2-2023 to 4-3-2023	
II	Conference Publication	S.No	Name of the Authors	Title of the paper	Published Month and year	proof link	
		1.	Gnanaprakasam C N , N. Arockia Rosy, Vaishali Gajendra Shende,N.B. Prakash, P.V. Pramila, S.Ramesh	ML-Based Intelligent Management and Prediction of Heart Disease	March 2023		

DEPARTMENT OF INFORMATION TECHNOLOGY

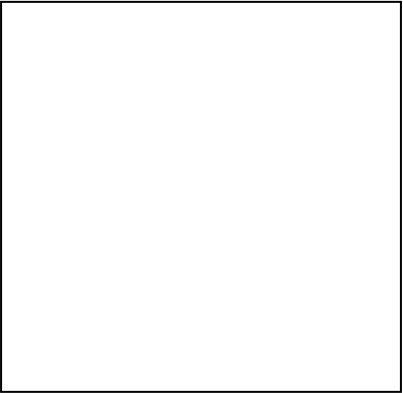

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
1	<div data-bbox="275 423 655 800" style="border: 1px solid black; width: 100%; height: 100%;"></div> <p align="center">Dr. V. Muthulakshmi Published a paper in SCIE</p>	<p align="center"><u>Staff Paper Publication</u></p> <p>V. Muthulakshmi, F.H. Shajin, J. Dhiviya Rose, P. Rajesh, “Generative Adversarial Networks Classifier Optimized with Water Strider Algorithm for Fake Tweets Detection”, IETE Journal of Research, https://doi.org/10.1080/03772063.2023.2172466, Publisher: Taylor and Francis, Print ISSN: 0377-2063, E ISSN: 0974-780X, pp.1-16, Mar 2023. (Impact Factor: 2.333, Annexure I, SCI Expanded)</p> <p>Abstract: In this manuscript, a deep learning-based Generative Adversarial Networks (GAN) classifier optimized with the Water Strider Optimization Algorithm (WSOA) is proposed to solve the issue of fake tweets in Twitter. Initially, input Twitter data is taken from the “Twitter API” dataset. Then, pre-processing is done in the Twitter dataset. After that, the pre-processed tweet features are selected based on the Bag of Words model, mutual information, and the Chi-square method. Then the selected features are given into the Generative Adversarial Networks classifier for detecting fake tweets. The experimental results show that the proposed FT-GAN-WSOA classifier provides higher accuracy of 25.14%, 25.21%, 20.44%, and 34.38% than the existing methods, such as fake tweet detection with content-based features using a custom rule-based algorithm (FT-CBF-CRBA) method, fake tweet detection with long/short-term memory using a random forest algorithm (FT-LSTM-RFA) method, fake tweet detection with zero-shot learning using bidirectional encoder representations from transformers (FT-ZSL-BERT) method, and fake tweet detection with a hybrid convolution neural network and recurrent neural network with long/short-term memory (FT-Hyb CNN-RNN-LSTM) method, respectively.</p>



**Dr. S. Duraimurugan &
Dr. G. Manikandan**
Published a paper in SCIE

S. Duraimurugan, R. Jayabharathi, G. Manikandan, “An efficient congestion control in multimedia streaming using adaptive BBR and fuzzy butterfly optimization, Transactions on Emerging Telecommunications Technologies”, <https://doi.org/10.1002/ett.4707>, Publisher: Wiley, Print ISSN: 2161-3915, E ISSN: 2161-3915, Vol. 34, No. 3, p.e4707, Mar 2023. (**Impact Factor: 2.638, Annexure I, SCI Expanded**)

Abstract: In this article, an adaptive BBR technique is proposed for transmitting real-time video with minimum transmission delay and packet loss. The adaptive BBR mainly uses the pacing gain update mechanism to maintain different flow rates and minimal data in the bottleneck queue. Also, a fuzzy butterfly optimization (FBO) with a ranking strategy is proposed to attain optimal bandwidth allocation. The FBO algorithm with ranking strategy computes the minimal bandwidth needed by the model to satisfy the service requirement of every queue in a particular round. Then, the packet scheduling is done by employing an intelligent time slice-based round-robin (ITSBRR) technique. The ITSBRR algorithm is employed to enhance the throughput and end-to-end delay by implementing the time quantum-based scheduling mechanism. Finally, the experimental analysis is carried out for various parameters namely single path transmission delay, packet loss; frame delay is computed for various techniques to compute the efficiency of the proposed system.

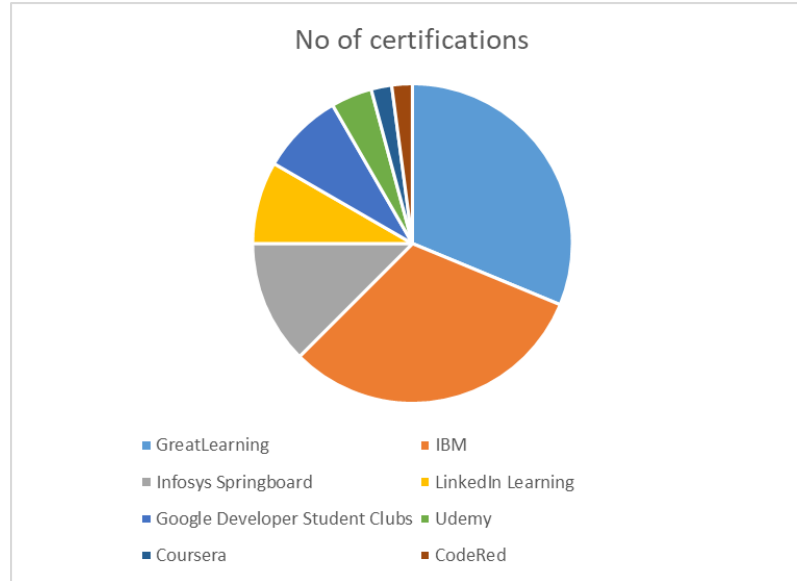
Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p data-bbox="296 683 653 781">Dr. L. Sherly Puspha Annabel Published a paper in Scopus Indexed Conference</p>	<p data-bbox="1125 253 1577 277" style="text-align: center;"><u>Staff and Student Paper Publication</u></p> <p data-bbox="711 285 2001 415">L. Sherly Puspha Annabel, G. Ramanan, R. Prakash, S. Sreenidhi, “Machine Learning-Based Approach for Airfare Forecasting”, Proceedings of International Conference on Data Science and Applications, Lecture Notes in Networks and Systems, https://doi.org/10.1007/978-981-19-6634-7_65, Publisher: Springer, Print ISBN: 978-981-19-6633-0, Online ISBN: 978-981-19-6634-7, Mar 2023. (Indexed in Scopus)</p> <p data-bbox="711 423 2001 821">Abstract: Online purchases have become the major method of purchasing airline tickets due to the rapid expansion and widespread application of web technologies. Customers find it difficult to purchase tickets at a reduced cost due to the lack of information regarding pricing issues. Existing prediction methods that rely on tomorrow's price projection may be inaccurate, resulting in missed opportunities to purchase tickets in the future. Hence, our proposed system deals with the problem of calculating flight prices that keep changing dynamically due to a lot of factors such as time, season, duration, special events, climate change, etc. To reduce middle-agent cost and difficulties on the customer part, an easy-to-use prediction calculator that provides flight search and booking facilities all in just one-click is developed. The data analysis part of the proposed system is based on datasets collected from open-source platforms, and predicted values use Random Forest Regression as the model with the prediction accuracy being 79% for test data. The prediction model undergoes hyperparameter tuning and adaptive boosting to increase efficiency gaining an increase to 81% from the usage of the former and 85% for the latter.</p>
4	 <p data-bbox="331 1247 569 1312" style="text-align: center;">Mrs.R.Shoba published a patent</p>	<p data-bbox="1251 841 1461 865" style="text-align: center;"><u>Patent Published</u></p> <p data-bbox="732 873 1990 930">Title of the invention : AI Based Detection of Cardiovascular Pathology of a Patient Through Retinal Scan</p> <p data-bbox="732 938 974 963">Name of Inventor :</p> <ol data-bbox="732 971 1094 1304" style="list-style-type: none"> 1)Dr.Battula Tirumala Krishna 2)Ms.Supriya Dubey 3)Mrs.R.Shoba 4)Dr.R.Selvi 5)Mr.P.Sathish Kumar 6)Ms.S.Jayachitra 7)Mrs.C.Selvarathi 8)Dr.D.Gouse Peera 9)Mr.Addagatla Prashanth 10)Mr.A.Venugopal Rao <p data-bbox="732 1312 1146 1336">Patent Number: 202341011065 A</p> <p data-bbox="732 1344 1241 1369">Date of filing of Application : 18/02/2023</p> <p data-bbox="732 1377 1094 1401">Publication Date: 17/03/2023</p>





Sample certificate

Online Certifications

48 online certifications have been obtained by our IT students from some of the reputed online course platforms.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	<p>A one Day Event on “challenges and opportunities in engineering”</p>  	<p>Date : 10.3.23 Venue : Laurel hall Nature of Event : Motivational talk Participants : Engineering II year Students (CSE & ADS) Organized by : Department of CSE and ADS</p> <p>Objective:</p> <ul style="list-style-type: none"> To create innovative solutions that can tackle pressing global issues, enhance technological advancements, and improve the quality of life for individuals and societies. <p>Outcome:</p> <ul style="list-style-type: none"> Engineers can pioneer breakthroughs in various fields, such as artificial intelligence, biotechnology, nanotechnology, and robotics. These advancements can revolutionize industries and improve overall productivity and efficiency. Developed a fully functioning personal blog. Addressing engineering challenges often requires international cooperation and collaboration. By working together across borders, engineers can pool resources and expertise to tackle complex global issues effectively.