



You Choose, We Do It

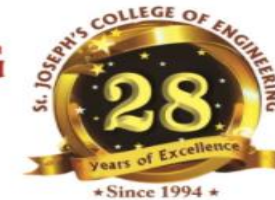
# St. JOSEPH'S COLLEGE OF ENGINEERING

(An Autonomous Institution)

St. Joseph's Group of Institutions

Jeppiaar Educational Trust

OMR, Chennai - 119.



## JULY 2022

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	FDP on Machine Learning and Predictive Analysis using Python	<p>Date : 11.07.2022 – 15.07.2022  Venue : Online  Nature of Event : Faculty Development Programme  Participants : Engineering Faculties  Organized by : NITTTR, Chanigarh</p> <ul style="list-style-type: none"> <li><b>Objective:</b> <ul style="list-style-type: none"> <li>To get exposure in Machine Learning concepts</li> <li></li> </ul> </li> <li><b>Outcome:</b> <ul style="list-style-type: none"> <li>Gained knowledge about the fundamentals of cyber security</li> <li>The tools used for protecting our gadgets from cyber attacks</li> <li>How to act if there is a cyber-attack occurred</li> </ul> </li> </ul>

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


### 1. Publications:

The following staff member have published research paper in the month of July at International Level

S. No	Name of the Staff	Title of the Publication	Journal/Conference	Date & Year of Publication	Indexing
1.	Mrs.P.Thenmozhi	Robotic Process Automation For Managing Patient Records	AICTE Sponsored International Conference on "Emerging Innovative Technologies in Engineering"	13/7/2022	Presented and publication is in progress

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Description about the various activities undertake and corresponding remark on its status of execution

S.No	Events	Remarks
1.	 <p style="text-align: center;"><b>PIC: IEEE event poster</b></p>	<p>Our IEEE Women In Engineering AG under St. Joseph's College of Engineering Student Branch Chapter organised “ WOMEN’S FORUM - Session 8” on behalf of IEEE WIE 25th Anniversary Celebration for School, Diploma and College students on 28th July 2022. The topic of the webinar was” Utilizing technical knowledge to make a difference as an engineer “.The speaker for the webinar was” Ms.Jeewika Ranaweera .She discussed the different career prospects in the engineering field. Around 55 participants participated in this webinar ..E-Certificates were provided for all the participants.</p>

2.

You Choose, We Do It!

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
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OMR, Chennai - 119.

Counselling Code : 1317  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ELECTR/CAL CLUB    Robotics CLUB    Social Awareness CLUB    ENSAV CLUB

Presents  
**Clubs Mega Project Carnival**  
Sponsored by  
**AICTE "SPICES"**

31<sup>st</sup> May 2022  
Total Prize Amount ₹ 20,000

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Professor & Head - Staff Affairs  
**Dr. T.V. Narmadha** M.E., Ph.D.  
Professor & Head - Lab Affairs

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**Ms. S.P. Vedavalli** M.E., (Ph.D)    **Ms. S. Gomathi** M.E., (Ph.D)    **Mr. Balasubramanian V** M.E., (Ph.D)    **Mr. A. Sadeeshkumar** M.E., (Ph.D)    **Mr. S. Siyakumar** M.E.,

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PIC: clubs project carnival poster

The Department of Electrical and Electronics Engineering of St. Joseph's College of Engineering, Chennai organized the "Clubs Mega Project Carnival 2022" event sponsored by the AICTE "SPICES" on 31.05.2022. Students of the Second and Third Years of the Department of EEE brought out innovative Project hardware. There were 50 teams segregated under Electrical Club, Choppers Club, Robotics Club, Social Awareness Club, and the Ensav Club. Based on their innovation and explanation the juries judged them and the below-listed winners were shortlisted. The entire event was coordinated by Club in charges, Department of Electrical and Electronics Engineering of St. Joseph's College of Engineering.

Name of the Club & No. Teams	I Prize : Rs. 1200/-	II Prize:Rs. 800/-
	Name(s) of I Prize Winners	Name(s) of II Prize Winners
Electrical Club (10 Teams)	MUGUNDHAN M. JAYACHANDRAN T. POORNAVIKASH M. KATHIRAVAN	J. YAVANESH T.H. ARISHUDAN R. RAMYA
	II Year	II Year
Choppers Club (10 Teams)	RAMYA SHIV KUMAR ESHWAR VISHNU PRIYA RAM PRASATH	A. GOKUL R. GOKUL KUMAR M. ARISHKUMAR G. APARNA
	II Year	II Year
Robotics Club (10 Teams)	R. KABILAN T. JOSHWA D. RAGU J. RAJ IMMANUEL	K. POOJASREE R.HUDHAYARITHIGA
	III Year	II Year
Social Awareness Club (10 Teams)	SANTHOSH CHAKKARAVARTHY SHRUDHURAG KRISHNA V.M. SRUTHI X. ROMY JENIT	AKSHAYAKRISHNEN AYESHA PRAVEEN HEMA APSARA JAYA VARSHINI
	III Year	III Year
EnSav Club (10 Teams)	T. ABINAYAA SRI N.S. ABISHLAL A. JENIN BENADICT S. MOHAMED AASHIK	V. VISHAL D.THIRUVIKARAMAN D. WESLY S. RITHIK NANDHAN
	III Year	III Year

3.

**RESOURCE PERSONS**

1	Dr. R. Lal Raja Singh, Professor / EEE, ISTE Tamilnadu Section Managing Committee Member KIT - Kalaignar Karunanidhi Institute of Technology (Autonomous)
2	Dr. S. Albert Alexander, Associate Professor / EEE, Kongu Engineering College, Perundurai.
4	Dr. M. Ramesh Babu, Professor / EEE, St. Joseph's College of Engineering (Autonomous), Chennai.
5	Dr. T. D. Sudhakar, Professor / EEE, St. Joseph's College of Engineering (Autonomous), Chennai.
6	Dr. V. Chamundeswari, Associate Professor / EEE, St. Joseph's College of Engineering (Autonomous), Chennai.
7	Mr. M. Pradeep, Senior Engineer, Power Projects, Chennai.
8	Ms. R. Johnnie Hepziba, Senior Power System Analyst, JEF Techno Solutions Pvt Ltd

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

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Dr. T. V. Narmadha M.E., Ph.D.,

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Mr. R. Elanthirayan, M.Tech., (Ph.D.),

**CO-COORDINATORS**  
Mr. N. Jayaprakash, M.E., (Ph.D.),  
Mr. H. Prasad, M.E., (Ph.D.),

*For Further Correspondence Contact*  
The Coordinator  
Department of EEE  
St. Joseph's College of Engineering,  
OMR, Chennai 119, Tamilnadu.  
Mobile :- +91 98406 42645  
          +91 96004 72478.

**BANK DETAILS**  
Account Name:  
ST. JOSEPH'S COLLEGE OF ENGINEERING  
IEEE STUDENT CHAPTER  
Account No: 983669316  
IFSC Code: IDIB000IA37  
Bank Name: INDIAN BANK  
Branch: JEC Semmencherry

**ISTE**  
One Week  
**Short Term Training  
Program (STTP) Under ISTE**  
On  
**Opportunities, Scope and  
Challenges in DC  
Microgrids**  
04<sup>th</sup> to 08<sup>th</sup> July 2022

**COORDINATORS**  
Dr. T. D. Sudhakar  
Mr. R. Elanthirayan

**Organized by**  
Department of  
Electrical and Electronics Engineering  
St. Joseph's College of Engineering  
St. Joseph's Group of Institutions  
OMR, Chennai -119  
<http://www.stjosephs.ac.in>

PIC: STTP pamphlet

The Department of Electrical and Electronics Engineering of St. Joseph's College of Engineering organized the one week Short Term Training Program sponsored by the ISTE from 04/07/2022 to 08/07/2022. This STTP aims to promote the exchange of information concerning innovation, R&D and deployment of power electronic and other necessary components and solutions. The focus is on medium voltage DC distribution and conversion with some carefully selected presentations that are addressing also low and high voltage DC technology.

Number of attendees : 45

STTP Title : Opportunities, Scope and Challenges in DC Microgrids

4.

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Counselling Code :1317

ARHA  
NBA  
A+  
nirf  
Cambridge

IEEE  
SBC Advisor  
Staff Coordinators

**மின் மற்றும் மின்னணு பொறியியல் துறை**  
**IEEE SJCE SB மாணவர் மன்றம்**  
**பெருமையுடன் வழங்கும்**  
**கற்க கசடற '22**  
— ஒரு சொற்பொழிவு நிகழ்வு —

**தாய்.ராசி.ஜெகதீஸ்வரன்**  
நிறுவனர், தாய் தொண்டு மையம்  
நிகழ்ச்சி தேதி: 22.07.2022 | நேரம்: 06:00 p.m.  
தலைப்பு: வள்ளுவரும் நம்பிக்கையும்  
நிகழ்வு இணைப்பு: <https://meet.google.com/gdv-dxcv-bhd>  
— பங்கேற்பாளர்கள் அனைவருக்கும் மின் சான்றிதழ்கள் வழங்கப்படும் —

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Dean Research, St. Joseph's College of Engineering  
Dr. V. Vallinayagam M.Sc., Ph.D.,  
Dean Student Affairs, St. Joseph's College of Engineering

**Student Coordinators**  
Mani Sha N | Jayasruthi R V | AkshayaKrishnan | Amirtha Varshini M | Godson S V Noble

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PIC: IEEE event poster

Our IEEE SJCE Student Branch Chapter under St. Joseph's College of Engineering Student Branch Chapter organised "KARKA KASADARA-A Online Webinar" for School, Diploma and College students on 22th July. The primary objective of this event is to honour the Tamil language, convey its significance to everyone, and inspire pride in one's mother tongue. This entire event took place in Tamil Language. Around 45 students participated in this event. Participation E-Certificates were provided to the all the Participants.



5.

 **St. JOSEPH'S COLLEGE OF ENGINEERING**  
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 28  
1994-2022

**Counselling Code : 1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**Guest Lecture on**  
**MAJOR OPPORTUNITIES PREVAILING IN ELECTRIC VEHICLES**

**RESOURCE PERSON**  
**Mr. Mohammed Samuddin**  
DGM- Business Development,  
TVS Training & Services



27-07-2022 | 10.30 a.m  
For III year EEE students

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Dean Research, St. Joseph's College of Engineering

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Dean Student Affairs, 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 Affairs

**Coordinators**

**Dr. V. Chamundeeswari** M.E., M.B.A., Ph.D.  
Associate Professor / EEE

**Dr. V. Krishnakumar** M.Tech., Ph.D.  
Associate Professor / EEE

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**PIC: Guest lecture**

Our department organized Guest Lecture on “Major opportunities prevailing in Electric vehicles” by Mr. Mohammed Samuddin, DGM- Business Development, TVS Training & Services, No. 7/9 A, B, C, MTH Road, Ambattur Industrial Estate, Chennai-600 058. For our III year students on 27/07/2022.

6.



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**COUNSELLING CODE:1317**  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**DRAWING COMPETITION**  
*Unleash the artist in you*

**JULY 25 to JULY 30**

**Exclusively for 11th,12th, and Diploma students**

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Dean Students Affairs, St. Joseph's College of Engineering  
**Staff Coordinator**  
Ms. R. G. Nirmala M.E.(Ph.D)  
Assistant Professor

Drawing competition had been conducted for the school students from 25<sup>th</sup> July 2022-30<sup>th</sup> July 2022. Around 15 participants from different schools had participated in this event. Each day drawing competition had been conducted based on a theme. Students submitted their drawings based on the beauty of nature, buildings and architecture, drawings based on imagination, memories, pencil drawing and ball point drawing. Drawing competition provided nice platform for young and creative artists.

7.



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
Organises

**" THEME-BASED PHOTOGRAPHY CONTEST "**

Exclusively for 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and Diploma students

• Capture photos and images based on the below theme and upload it in the google link given below, and win an e-Certificate.

**Event Dates: 25.04.2022 to 30.04.2022**

**Themes:**  
Green Nature  
Hometown pride  
Seasons  
Sporting Event  
History today  
Literature

Registration Link : <https://forms.gle/g32PThryxjwQQj9>  
Submission Link : <https://forms.gle/nsbB21F491Nqmax5>

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Contact: 9940104881 / 9940104882

An event named "A theme-based Photo-graphy contest" was conducted from April 25 to April 30 2022 for school students. Many students from different schools participated and received e-certificates.

PIC: School event poster

8.

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

Organises  
**Let's Play Games**  
It's a Online Quiz on different sports

Exclusively for  
10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> and  
Diploma students

Date: 04-07-2022 to 09-07-2022

Registration Form: <https://forms.gle/GyWxwFxoDkCR66Ah9>

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Dr. P. Anbarasan M.Tech., Ph.D.  
Assistant Professor

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Contact: 9940104881 / 9940104882

**PIC: School event poster**

Our department of EEE conducted Online Quiz competition on different sports titled “Let’s Play Games” for school students exclusively for 10th, 11th, 12th, and diploma students from 4th July to 7th July 2022. The students from different schools are actively participated and received E-certificates.

9.

**Student Activity for the month July 2022**

**Internship**

Student Name	Year /Section	From Date - to date	Company Name	Pay Package
Barani Kumar S	III-A	12/07/22-19/07/22	E.I.D Parry (India) Limited	nil

**Competitions Won**

Students Name	Year /Section	TECHNICAL COMPETITION
JESSE S	IV - B	Won first prize in PROJECT EXHIBITION 2022 conducted by CRESCENT UNIVERSITY on 23.6.2022
MANI SHA N		
MARIA SHIRLEY JOHN LM		
PRIYANKA J		



10.

*Placement Details for month July 2022***Placement Record for the 2019-2023 Batch students as on 29/07/2022****Total No of students placed = 28 UG Students****Total No of Offers = 31 Offers****Total No of Eligible Students (UG) = 160****Total No of Eligible Students (PG) = 06**

<b>Name of the Students</b>	<b>Company Placed</b>	<b>Total No of Offers</b>
ABISHLAL N S	SOLITON	<b>1</b>
VIGNESH A	SOLITON	<b>1</b>
TINOJ D	ZOHO	<b>1</b>
ANANYA P	Mobiveil	<b>1</b>
ABINA S	Mobiveil	<b>1</b>
NIDHISH S	Mobiveil	<b>1</b>
ABINAYAA SRI T	AVASOFT, LATENTVIEW	<b>2</b>
AJITH V	AVASOFT	<b>1</b>
AKSHAYA KRISHNEN	AVASOFT	<b>1</b>
BERTINA	AVASOFT, LATENTVIEW	<b>2</b>
GODSON S V NOBLE	AVASOFT	<b>1</b>
KIRUTHIKA P	AVASOFT	<b>1</b>
LIFNY JOSE	AVASOFT	<b>1</b>
MARIA SHIRLEY JOHN L M	AVASOFT	<b>1</b>
MOHAMMED AASHIK	AVASOFT	<b>1</b>
NAITHRA B	AVASOFT	<b>1</b>
PRAVESH CHRISTO GERARDE	AVASOFT	<b>1</b>
RAJ IMMANUEL J	AVASOFT	<b>1</b>
RANJITH	AVASOFT	<b>1</b>
RISHAB S K	AVASOFT, LATENTVIEW	<b>2</b>
SHARAN MANIVANNAN	AVASOFT	<b>1</b>
SRIVERSAN S	AVASOFT	<b>1</b>


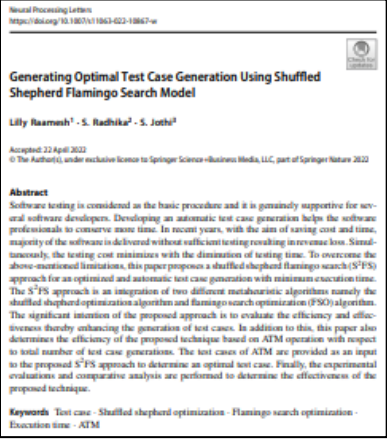
		SWETHA B	AVASOFT	1
		THIRUVEL	AVASOFT	1
		AMARNATH J C	AVASOFT	1
		JEDIDIAH B	HCL	1
		SANTHOSH C	Eurofins	1
		NITHIKSHA R	LATENTVIEW	1

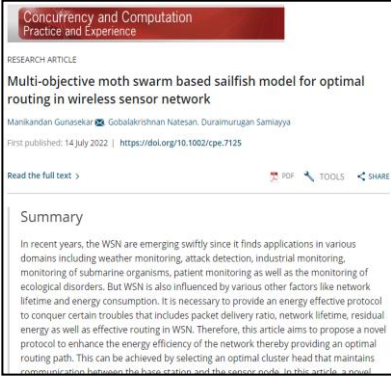

### DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail														
		S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days									
1	Webinar/ FDP Attended By Faculty	1.	Senthil Kumar B	09.07.2022 to 13.07.2022	Workshop on Research Tools and Techniques <a href="https://drive.google.com/file/d/1tQERFBaIV8bVosZ1fam5xV8EXJg3a_0O/view?usp=sharing">https://drive.google.com/file/d/1tQERFBaIV8bVosZ1fam5xV8EXJg3a_0O/view?usp=sharing</a>	Christ University	05									
		2.	V. VIJAYAN	11.07.2022 TO 16.07.2022	Soft sensor development using state and parameter estimation techniques and their applications <a href="https://drive.google.com/file/d/1rEhHNtnungf4uAw-LXdaAkXAdbc5R9Lm/view?usp=sharing_eil_se_dm&amp;ts=630773cf">https://drive.google.com/file/d/1rEhHNtnungf4uAw-LXdaAkXAdbc5R9Lm/view?usp=sharing_eil_se_dm&amp;ts=630773cf</a>	GIAN course	06									
2	PUBLICATION/patent/funded project/awards	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.No</th> <th>Faculty Name</th> <th>Title of the paper</th> <th>Date</th> <th>Journal Name and Link</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					S.No	Faculty Name	Title of the paper	Date	Journal Name and Link					
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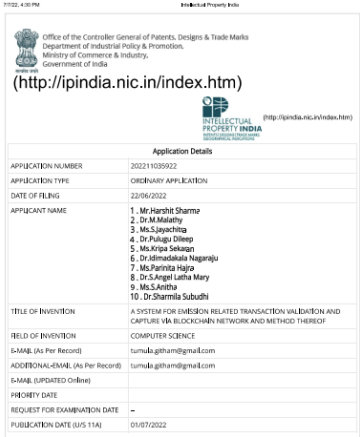
		1	Gnanaprakasam, C.N.	An efficient MFM-TFWO approach for unit commitment with uncertainty of DGs in electric vehicle parking lots	26 July 2022	Journal of Intelligent & Fuzzy Systems (IF : 1.737)  <a href="https://content.iospress.com/articles/journal-of-intelligent-and-fuzzy-systems/ifs220810">https://content.iospress.com/art icles/journal-of-intelligent-and- fuzzy-systems/ifs220810</a>	
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## DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution																				
1	 <p style="text-align: center;">Certificate received through offline FDP</p>	<p style="text-align: center;"><b>Online FDP/Webinar Attended by Faculty</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S.No</th> <th style="text-align: center;">Title of the topic</th> <th style="text-align: center;">Name of the Staff</th> <th style="text-align: center;">Conducted By</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Insights and open Challenges in computing Technologies</td> <td>Dr. A Tamizhselvi Dr. D Logeshwari</td> <td>CSE Department, Sai Ram Engineering College sponsored by ISTE and CSI, Chennai</td> <td>11-07-2022 to 15-7-2022 (5 days)</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Sales force platform Developer -I</td> <td>Dr. A Tamizhselvi K. Priyadharshini</td> <td>ICT Academy, Chennai</td> <td>4-7-2022 to 8-7-2022 (5days)</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Latest Research on IOT data driven analysis - smart manufacturing</td> <td>K. Deepa</td> <td>EduCare Taiwan with YUAN University, Taiwan</td> <td>17-7-2022 ( 1 day)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	Insights and open Challenges in computing Technologies	Dr. A Tamizhselvi Dr. D Logeshwari	CSE Department, Sai Ram Engineering College sponsored by ISTE and CSI, Chennai	11-07-2022 to 15-7-2022 (5 days)	2.	Sales force platform Developer -I	Dr. A Tamizhselvi K. Priyadharshini	ICT Academy, Chennai	4-7-2022 to 8-7-2022 (5days)	3.	Latest Research on IOT data driven analysis - smart manufacturing	K. Deepa	EduCare Taiwan with YUAN University, Taiwan	17-7-2022 ( 1 day)
S.No	Title of the topic	Name of the Staff	Conducted By	Date																		
1.	Insights and open Challenges in computing Technologies	Dr. A Tamizhselvi Dr. D Logeshwari	CSE Department, Sai Ram Engineering College sponsored by ISTE and CSI, Chennai	11-07-2022 to 15-7-2022 (5 days)																		
2.	Sales force platform Developer -I	Dr. A Tamizhselvi K. Priyadharshini	ICT Academy, Chennai	4-7-2022 to 8-7-2022 (5days)																		
3.	Latest Research on IOT data driven analysis - smart manufacturing	K. Deepa	EduCare Taiwan with YUAN University, Taiwan	17-7-2022 ( 1 day)																		
2	 <p style="text-align: center;">Dr. Lilly Raamesh published paper in <b>Annexure I (Impact Factor: 2.565)</b></p>	<p><b>Lilly Raamesh, S. Radhika and S. Jothi, “Generating Optimal Test Case Generation Using Shuffled Shepherd Flamingo Search Model”, Neural Processing Letters, Publisher: Springer, E ISSN: 1573-773X, Print ISSN: 1370-4621, <a href="https://doi.org/10.1007/s11063-022-10867-w">https://doi.org/10.1007/s11063-022-10867-w</a>, pp.1-21, June 2022 (Impact Factor: 2.565, Annexure I, SCI Expanded)</b></p> <p><b>Abstract:</b> Software testing is considered as the basic procedure and it is genuinely supportive for several software developers. Developing an automatic test case generation helps the software professionals to conserve more time. In recent years, with the aim of saving cost and time, majority of the software is delivered without sufficient testing resulting in revenue loss. Simultaneously, the testing cost minimizes with the diminution of testing time. To overcome the above-mentioned limitations, this paper proposes a shuffled shepherd flamingo search (S<sup>2</sup>FS) approach for an optimized and automatic test case generation with minimum execution time. The S<sup>2</sup>FS approach is an integration of two different metaheuristic algorithms namely the shuffled shepherd optimization algorithm and flamingo search optimization (FSO) algorithm. The significant intention of the proposed approach is to evaluate the efficiency and effectiveness thereby enhancing the generation of test cases. In addition to this, this paper also determines the efficiency of the proposed technique based on ATM operation with respect to total number of test case generations. The test cases of ATM are provided as an input to the proposed S<sup>2</sup>FS approach to determine an optimal test case. Finally, the experimental evaluations and comparative analysis are performed to determine the effectiveness of the proposed technique.</p> <p><b>Keywords:</b> Test case - Shuffled shepherd optimization - Flamingo search optimization - Execution time - ATM</p>																				

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
3	 <p>Dr. G. Manikandan published paper in <b>Annexure I (Impact Factor: 1.831)</b></p>	<p><b>G. Manikandan, N. Gobalakrishnan , S. Duraimurugan</b>, “Multi-objective moth swarm based sailfish model for optimal routing in wireless sensor network”, Concurrency and Computation Practice and Experience, Publisher: Wiley, E ISSN:1532-0634, <a href="https://doi.org/10.1002/cpe.7125">https://doi.org/10.1002/cpe.7125</a>, July 2022 (<b>Impact Factor:1.831, SCI Extended, Annexure-I</b>)</p> <p><b>Abstract:</b> In recent years, the WSN are emerging swiftly since it finds applications in various domains including weather monitoring, attack detection, industrial monitoring, monitoring of submarine organisms, patient monitoring as well as the monitoring of ecological disorders. But WSN is also influenced by various other factors like network lifetime and energy consumption. It is necessary to provide an energy effective protocol to conquer certain troubles that includes packet delivery ratio, network lifetime, residual energy as well as effective routing in WSN. Therefore, this article aims to propose a novel protocol to enhance the energy efficiency of the network thereby providing an optimal routing path. This can be achieved by selecting an optimal cluster head that maintains communication between the base station and the sensor node. In this article, a novel multi-objective moth swarm based sailfish (MOMS-SF) technique is employed in selecting an optimal cluster head. The proposed MOMS-SF technique enhances the network lifetime and minimizes the energy consumption of the network. Finally, the evaluation results are conducted to determine the network performances of the proposed MOMS-SF approach. Also, a comparative analysis is carried out and the graphical analyzes for various parameters are made for various approaches to determine the effectiveness of the proposed system.</p>
4	 <p><b>K. Priyadharshini</b> published paper in LNNS Book Series, Springer</p>	<p><b>K. Priyadharshini, P.D. Sawant, M. Khadir, S. Majji, A.S. Chouhan and M. Dash</b>, “Convolution Neural Network (CNN) Based Deep Q-Learning to Maximise the Returns from Stock Market”. In Data Engineering and Intelligent Computing, Lecture Notes in Networks and Systems book series, Publisher: Springer, Print ISBN: 978-981-19-1558-1, <a href="https://doi.org/10.1007/978-981-19-1559-8_16">https://doi.org/10.1007/978-981-19-1559-8_16</a>, pp. 157-166, July 2022.</p> <p><b>Abstract:</b> Investors must devise an effective stock trading plan. The stock market is complex and dynamic, making it difficult to find an optimal approach. A reinforcement learning strategy is used because it can manage domains with stochastic transitions without a model. This work will investigate how RL may be used to maximise market returns whilst keeping the human element in mind. The learning agent is trained on stock prices and public interest patterns collected from Google Trends. A convolution neural network is trained on stock data and Google Trends using deep Q-learning (DQN). This paper investigates the use of graphical social media trends to train a reinforcement learning agent for stock trading. The agent’s performance was tested using a variety of stocks and phrases. Preliminary results demonstrate the agent performs effectively when trained on associated positive data sets.</p>



Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution
5	 <p>AI and Machine Learning Enabled Software Defined Networks</p> <p><b>Co-author: M. Janani</b> published paper in LNNS Book Series, Springer</p>	<p>K. K. Satheesh, <b>M. Janani</b>, S. Venkateswarlu, R. G. Kumar, A. Gupta and B. Kotaiah, “AI and Machine Learning Enabled Software Defined Networks”. In Data Engineering and Intelligent Computing, Lecture Notes in Networks and Systems book series, Publisher: Springer, Print ISBN: 978-981-19-1558-1, pp. 131-144, <a href="https://doi.org/10.1007/978-981-19-1559-8_14">https://doi.org/10.1007/978-981-19-1559-8_14</a>, July 2022.</p> <p><b>Abstract:</b> The telecommunications industry has not been exempt from the technology sector’s massive artificial intelligence (AI) and machine learning (ML) boom in recent years. Artificial intelligence (AI) and machine learning (ML) provide advanced analytics and automation that are in line with modern networking concepts like software-defined networking (SDN) and software-defined wide-area networks (SD-WAN). Work is being done to determine how AI/ML can benefit SD-WAN and to demonstrate these benefits in a real SD-WAN network using a workable example. Modern ML techniques and algorithms are the extent of AI/ML. Today’s Internet is under constant threat from DDoS (Distributed Denial of Service) attacks. As the volume of Internet traffic grows, it’s getting harder and harder to tell what’s legitimate and what’s malicious. The DDoS attack was detected using a machine learning approach that makes use of a Random Forest classifier. To better detect DDoS attacks, we tweak the Random Forest algorithm. The proposed machine learning approach outperforms, as demonstrated by our results.</p>
6	 <p>Patent published by Ms. Kripa Sekaran and Ms. S. Anitha</p>	<p style="text-align: center;"><b>Patent Published</b></p> <p><b>Title of the invention:</b> A System for Emission Related Transaction Validation and Capture via Blockchain Network and Method Thereof</p> <p><b>Name of Inventors :</b></p> <ol style="list-style-type: none"> <li>1. Mr. Harshit Sharma</li> <li>2. Dr. M. Malathy</li> <li>3. Ms. S. Jayachitra</li> <li>4. Dr. Pulugu Dileep</li> <li>5. Ms. Kripa Sekaran</li> <li>6. Dr. Idimadakala Nagaraju</li> <li>7. Ms. Parinita Hajra</li> <li>8. Dr. S. Angel Latha Mary</li> <li>9. Ms. S. Anitha</li> <li>10. Dr. Sharmila Subudhi</li> </ol> <p><b>Patent Number:</b> 202211035922 <b>Filing Date:</b> 22-6-2022 <b>Publication Date:</b> 1-7-2022</p>

7



Certificates received from online courses

### Online Course Attended by the Faculty

S. No.	Course Name	Name of the Staff	Conducted By	Date of Completion
1.	1. Module 2: Professional Ethics and Sustainability 2. Module 5: Technology Enabled Learning and Life-Long Self Learning	Mrs. Anitha S	AICTE - National Initiative for Technical Teachers Training	February 2022
2.	1. Module 2: Professional Ethics and Sustainability 2. Module 5: Technology Enabled Learning and Life-Long Self Learning	Mrs. KripaSekaran	AICTE - National Initiative for Technical Teachers Training	February 2022
3.	1. Introduction to Robotic Process Automation 2. Introduction to Natural Language Processing 3. Python for Data Science 4. Computer Vision 101 5. Introduction to Data Science 6. Introduction to Deep Learning	Ms. Suthanthira Devi	Infosys Springboard	June 2022
4.	Computer Networks and Internet Protocol	Dr. Duraimurugan S	National Programme on Technology Enhanced Learning	Jan-April 2022
5.	Fundamental Algorithms: Design and Analysis	Dr. Duraimurugan S	National Programme on Technology Enhanced Learning	Feb-Mar 2022



CERTIFICATE OF COMPLETION

CERTIFICATE OF COMPLETION

## Python Complete Course For Python Beginners

Instructor: Harsh Jain

**Praabindh P**

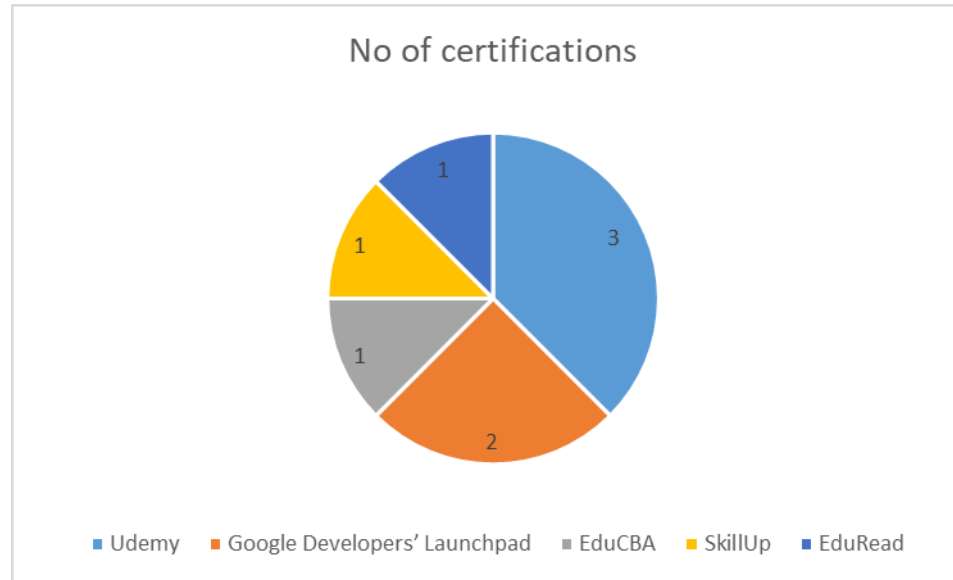
Date: July 17, 2022

Length: 7.5 total hours









Sample Certificates

## Students Online Certification Report

8 online certifications have been obtained by them from some of the reputed online course platforms.




## DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1		
2	<p>FDP Attended:</p>  <p style="text-align: center;">This is to Certify that Dr.N.E.ARUN KUMAR of St. Joseph's College of Engineering has actively participated in Six Day Faculty Development Program "SMART MATERIALS AND MANUFACTURING SYSTEM" Conducted from 27th June 2022 to 2nd July 2022 by the Department of Mechanical Engineering, Kings Engineering College, Chennai.</p> <p style="text-align: center;">      <b>Dr.C.SADHASIVAM    Mr. J. PRADEEP KUMAR    Dr.S.HARIKRISHNAN    Dr.T.JOHN ORAL BHASKAR</b>  <b>CONVENER                      COORDINATOR                      HOD/ MECH                      PRINCIPAL</b> </p>	<ul style="list-style-type: none"> <li>➤ Dr.N..E.Arunkumar attended six days FDP on <b>Smart Materials and Manufacturing Systems</b> during 27<sup>th</sup> June 2022 to 2<sup>nd</sup> July 2022 organized by <i>Kings Engineering College</i>.</li> <li>➤ Dr.R.Selvam attended six days FDP on <b>Smart Materials and Manufacturing Systems</b> during 27<sup>th</sup> June 2022 to 2<sup>nd</sup> July 2022 organized by <i>Kings Engineering College</i></li> <li>➤</li> </ul>
	 <p style="text-align: center;"><b>Regional Meet</b> Institutions' Innovation Council MOE's Innovation Cell <b>Certificate of Participation</b> Dr.N.E.ARUN KUMAR ST. JOSEPH'S COLLEGE OF ENGINEERING, Tamil Nadu has participated in the regional meet held on 21st July 2022 at Sathyabama Institute of Science and Technology, Chennai.</p> <p style="text-align: center;">    <b>Dr. G. Suresh                      Mr. Dipan Bhatia</b>  <b>President of IIC                      Assistant Innovation Director</b>  <b>Sathyabama Institute of                      MOE's Innovation Cell</b>  <b>Science and Technology</b> </p>	<ul style="list-style-type: none"> <li>➤ Dr.N.E.Arunkumar Attended Regional meet of Institution Innovation Council MOE's Innovation cell on 21<sup>st</sup> July 2022 at sathyabama University, Chennai.</li> </ul>


## DEPARTMENT OF MATHEMATICS AND ENGLISH

Description about the various activities undertake and corresponding remark on its status of execution

Events	Remarks					
<b>FDP/Workshop/Conference</b>						
	S.No	Name of the Staff	Program Title	National/ International	Organized by	Date
	1	Ms, A, Sathiya Jothi	FDP On Research Methodology On English Literature And Language	National	Bharathiyar University	6 days 11-07-2022 to 16-07-2022
	Conferences – Paper Presentation					
	S.No	Name of the Staff	Program Title	National/ International	Title of the Paper	Organized by
1	Dr.K.Sasikala	International Workshop on Combinatorial Image Analysis (IWCIA 2022)	International	Adjunct Partial Array Token Petri Net Structure.	Messina, Italy	3 13-07-2022 to 16-07-2022
<b>Publications(only published) details</b>	<ol style="list-style-type: none"> <li>1. Dr. K. Abinaya, A Psycholinguistic Approach To Second Language Acquisition: An Intervention Research, NeuroQuantology, Vol. 20 (6), page 9067-9078, July 2022. SCOPUS, DOI : <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22889">https://doi.org/10.14704/nq.2022.20.6.NQ22889</a>.</li> <li>2. Dr. U.Venkateswara, Impact of Resilience Theory on Student Learning Outcomes in an ESL classroom: An Intervention Study, NeuroQuantology, Vol. 20 (6), page 8273-8284, July 2022. SCOPUS, DOI: <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22820">https://doi.org/10.14704/nq.2022.20.6.NQ22820</a></li> <li>3. Dr. U.Venkateswara, Communication Skills enhancement through Neuro-Linguistic Programming: A Study, NeuroQuantology, Vol. 20 (6), page 9060-9066, July 2022. SCOPUS, DOI : <a href="https://doi.org/10.14704/nq.2022.20.6.NQ22888">https://doi.org/10.14704/nq.2022.20.6.NQ22888</a></li> </ol>					



## DEPARTMENT OF MBA

<p><b>FACULTY PUBLICATION(Only Published)</b></p>	<p>Dr. SP. Karuppiah - An Efficient Galactic Swarm Optimization based Fractal Neural Network Model with DWT for Malignant Melanoma Prediction. Neural Processing Letters, 2022, <a href="https://doi.org/10.1007/s11063-022-10847-0">https://doi.org/10.1007/s11063-022-10847-0</a> SCI, Springer Publications</p>
<p><b>WORKSHOP/FDP/STP/CONFERENCE / SEMINAR ATTENDED BY FACULTY:</b></p> 	<ul style="list-style-type: none"> <li>• Mr.S. Aravinth - Attended Innovation Ambassador training program for 30 hours conducted by Ministry of Education (MOE).</li> <li>• Dr. SP. Karuppiah - Attended FDP on “Problem Solving and Python Programming Laboratory” conducted by Center for Faculty Development, Anna University and R.M.D Engineering College , Chennai From 04-07-2022 to 09-07-2022.</li> <li>• Mr.S. Aravinth - Attended Innovation Ambassador training program for 30 hours conducted by Ministry of Education (MOE).</li> <li>• Mr.S. Aravinth – Attended the Ministry of Education’s (MOE) Regional Meet held on 21<sup>st</sup> July at Sathyabama Institute of Science and Technology, Chennai.</li> </ul>
<p><b>FACULTY APPOINTED/NOMINATED FOR EDITORIAL BOARDS/ PAC/BOS</b></p>	<p>Dr.K.Sampath – Appointed as a member of Programme Advisory Council for MBA Department, Karpaga Vinayaga College of Engineering and Technology.</p>

## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	<b>FDP/Workshop/Conference</b>	<p>1. Dr. S. Kiruba and Dr. N. Punitha attended International E-conference “Sustainable Materials and Technologies for Bio and Energy Applications SMTBEA-2022” conducted by “SSN Institutions, Kalavakkam” from 13.07.22 to 15.07.22</p> <p>2. Dr. N. Punitha attended a national level online workshop on “Sustainable Materials Advances and Applications” conducted by “SRM Institute of Science and Technology, Ramapuram Campus” on 22.07.22.</p> <p>3. Dr. P. Krishnan attended a national webinar on “IP awarness program under national awarness program under National intellectual property mission” conducted by “Intellectual Property of India, Chennai” on 25.07.2022</p> <p>4. Dr. N.R. Rajagopalan, Dr. S.M. Prakash, Dr. B. Subash, Dr. K. Jayamoorthy, Dr. N. Punitha, Dr. G. Murugan, Dr. V. Swarnalatha, Dr. K. Sathesh Kumar, Dr. S. Savitha, Dr. J. Sharmila, Dr. S. Rama, Dr. A. Uma Devi, Dr. P. Saravanan, Dr. P. Krishnan attended National level online faculty development program on “Emerging Trends in Applied Chemistry” conducted by Easwari Engineering College, Ramapuram, Chennai from 25.07.22 to 30.07.22</p> <p>5. Dr. S. Kiruba, Ms. A. Arulmozhi, Dr. S. Manikandan, Ms. A. Mahalakshmi, Mr. S. Kaleel Mohamed Ibrahim, Dr. S. Rama, Dr. A. Uma Devi, Dr. P. Saravanan, Dr. P. Krishnan attended National level online faculty development program on “Emerging Trends in Applied Physics” conducted by Easwari Engineering College, Ramapuram, Chennai from 25.07.22 to 30.07.22</p>
2	<b>Awards/Prize won by students / Staff</b>	<p>1. Dr. S. Suresh has been awarded with “Simats Global Iconic Excellence Award For Best Faculty” by Saveetha University, Chennai.</p>
3	<b>Other activities(if any)</b>	<p>Department of Science conducted the following online events for school students:</p> <p>1) Puzzle time – 20.07.22                  2) Bullzeye – 21.07.22                  3) Creative 360 – 22.07.22</p>

## DEPARTMENT OF CIVIL ENGINEERING

<b>Sl. No.</b>	<b>Photographs Captured During Events (Briefs About the Photographs)</b>	<b>Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating</b>
1.	FDP/Workshop/Conference attended	<ul style="list-style-type: none"><li>● Dr.K.Vijai has attended an Anna University Sponsored FDP on CE8301 Strength of Material I organized by SVCE, Chennai during 11.07.2022 to 16.07.2022</li></ul>
2.	<b>Other activities (if any)</b>	<ul style="list-style-type: none"><li>● Mrs.S.Banupriya and Ms.R.Ruthra have completed NITTT Module 7 and 8 courses on July 2022</li></ul>

## DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p style="text-align: center;"><b>FDP/WORKSHOP/CONFERENCE</b></p>  <p style="text-align: center;">Dr. G. Baskar – Copy of FDP certificate</p>	<p>Dr. G. Baskar, Participated in online one Week Online <b>FDP on "Outcome Based Education"</b>, organized by CK College of Engineering and Technology, Cuddalore, Tamil Nadu during from 24<sup>th</sup> August to 30<sup>st</sup> August 2022.</p> <p>Dr. M. Chamundeeswari attended a one-day FAHS Science Club - Faculty Seminar on."Automating Liquid Handling for Life Sciences" organised by Department of Allied Health Sciences, Chettinad Academy of Research and Education , Chennai on 30<sup>th</sup> July 2022.</p> <p>Ms.Yuwvararanni.S has attended Attended 7 days National Level Online FDP on Research Application on BioEngineering and technology, Organized by Prathyusha college of Engineering, Chennai during 11-17 th July 2022</p> <p>Ms.Yuwvararanni.S has attended Attended 6 Days National level Online FDP on immunology, Organized by Kamaraj College of Engineering and Technology, Viruthunagar, Sponsored by CFD, Anna University, during 4-9 th July 2022</p> <p>Ms.Yuwvararanni.S has attended online Faculty Seminar on Automatic Liquid Handling for life science Organized by Chettinad Academy of Research and Education, Chennai on 30.7.2022</p>

## CERTIFICATE OF PARTICIPATION

This is to certify that ..... **Dr. Chamundeeswari** ..... has participated as **Delegate** in the FAHS Science Club - Faculty Seminar on "**AUTOMATING LIQUID HANDLING FOR LIFE SCIENCES**" organized by Faculty of Allied Health Sciences, Chettinad Academy of Research and Education, Kelambakkam, Tamil Nadu, India on 30th July 2022.

  
**Dr. S. Weslen Vedakumari**  
Convener  
Assistant Professor - FAHS, CARE

  
**Dr. K. Kumar Ebenezar**  
Principal (i/c),  
FAHS, CHRI

  
**Dr. Shantha Ravisankar**  
Vice Chancellor,  
CARE

e - Certificate



Dr. M. Chamundeeswari – copy of certificate



**PRATHYUSHA**  
**ENGINEERING COLLEGE**

ESTD. 2001



**DEPARTMENT OF BIOTECHNOLOGY**  
**FACULTY DEVELOPMENT PROGRAM**

*Certificate of participation*

This is to certify that

**Ms. Yuwvaranni.S, Assistant Professor, St. Joseph's College of Engineering**  
has Participated in seven days Faculty Development Program titled *Research Applications on Bio Engineering Techniques* Organized by the Department of Biotechnology, Prathyusha Engineering College held from 11<sup>th</sup> July to 17<sup>th</sup> July 2022.

  
**Dr. P. DHASARATHAN**

  
**Dr. B R RAMESH BAPU**





Ms. Yuwvaranni – Copy of FDP certificate



Ms. Yuwvaranni – Copy of FDP certificate

**PUBLICATIONS(ONLY PUBLISHED) DETAILS**

2.

**Dr. G. Baskar**, Professor, Department of Biotechnology at St. Joseph’s College of Engineering, Chennai, India has been appointed as Associate Editor in “Frontiers in Nanotechnology” (Nanocatalysis Section) Published by Frontiers Publishers, Switzerland.

**Preethy K.R.** and **Munusamy Chamundeeswari\***, “Optimization of Reduced Graphene Oxide Production using Central Composite Design from Pennisetum glaucum for

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Role Most viewed Most publications

Role Senior Nanocatalysis Clear all

Specialty Chief Editor











**Francis Verpoort**  
Wuhan University of Technology  
Wuhan, China

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Specialty Chief Editor  
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"Biomedical Applications", Biotechnology and Applied Biochemistry" accepted on July 2022, **IF - 2.926**

**Antony Catherine Flora Louis & Sivakumar Venkatachalam**, Post-harvest quality and shelf life assessment of *Agaricus bisporus* influenced by nanocellulose/nanohemicellulose loaded starch based packaging, Polymer composites, vol.43, pp.7538-7550 (July, 2022).

## Optimization of reduced graphene oxide production using central composite design from *Pennisetum glaucum* for biomedical applications

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### Abstract

The current study outlines the toxicity-free green synthesis of reduced graphene oxide (GO) using *Celosia argenta*. The synthesized sample was characterized by UV-visible spectroscopy with a strong absorption peak at 260 nm due to redshift. The  $2\theta$  value around  $24.1^\circ$  by X-ray diffraction analysis and the functional groups like  $-\text{OH}$ ,  $-\text{CH}_2-$ ,  $-\text{C}=\text{C}-$ , and  $-\text{CHO}$  by Fourier transmission infrared spectroscopy confirmed the reduction of GO. Field emission scanning electron microscopy–energy-dispersive X-ray spectroscopy reported stacked sheets with smooth edges with an atomic ratio of carbon:oxygen (83.56:16.44). This novel

Dr. M. Chamundeeswari and Ms. K.R. Preethy –Copy of published paper

### RESEARCH ARTICLE




## Post-harvest quality and shelf life assessment of *Agaricus bisporus* influenced by nanocellulose/nanohemicellulose loaded starch based packaging

Antony Catherine Flora Louis, Sivakumar Venkatachalam 

First published: 02 July 2022 | <https://doi.org/10.1002/pc.26853>

**Funding information:** CSIR-SRF, Grant/Award Number: 09/468/0508/2018 EMR-I

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### Abstract

The post-harvest shelf life and quality of *Agaricus bisporus* can be prolonged by effective packaging and storage. This work is an attempt to extend the shelf life and preserve the quality of *Agaricus b.* through nanocellulose and nanohemicellulose reinforced starch

Ms. Antony Catherine Flora . L –Copy of published paper

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