



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.



DECEMBER 2022

DEPARTMENT OF CHEMICAL ENGINEERING


S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE/PDP	Dr. N.Venkaresh, Professor has completed Professional Development Program on <i>“Implementation of NEP-2020 fro University and College Teachers”</i> Conducted by Indira Gandhi National Open University held on December 21- 31
2.	PUBLICATIONS(ONLY PUBLISHED) DETAILS	B.Senthil Rathi, Assistant Professor published a peper <i>“A sustainable approach on thermal and catalytic conversion of waste plastics into fuels”</i> BS Rathi , PS Kumar, G Rangasamy - Fuel, 2022

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.	Industrial Visits, In plant trainings, Internships	<ul style="list-style-type: none"> ● 25 students of III year completed in plant training/Internship during Christmas holidays. ● 10 students of II year completed in plant training/Internship during Christmas holidays.
2.	FDP/Workshop/Conference attended	<ul style="list-style-type: none"> ● Dr.S.Thenmozhi attended FDP on “Applications of Artificial Intelligence and Machine Learning in Civil Engineering “ from 27.10.2022 to 25.11.2022 organized by RVR&JC college of Engineering in association with Indian Geotechnical Society, Guntur chapter ● Dr.V.Gowri attended FDP on “Applications of Artificial Intelligence and Machine Learning in Civil Engineering “ from 27.10.2022 to 25.11.2022 organized by RVR&JC college of Engineering in association with Indian Geotechnical Society, Guntur chapter ● Dr.V.Gowri participated in the workshop on “Bhuvan Overview”conducted by ISRO during 09.11.2022 to 11.11.2022. <p>Mr. S.Thangaperumal has attended a 5-day online FDP on "Applications of Artificial Intelligence and Machine Learning in Civil Engineering " organized by the Department of Civil Engineering, Vishnu Institute of Technology, Bhimavaram during 24.11.2022 to 29.11.2022.</p>
3.	STTP / Webinar Attended	<ul style="list-style-type: none"> ● Dr.S.Thenmozhi has attended one week online short term Refresher course on “Publications, Projects and Patents (PPP-2K22) organized by Department of Civil Engineering, CVR College of Engineering during 28.11.2022 to 04.12.2022, Hyderabad. ● S.Banupriya and R.Ruthra have attended a National Seminar titled “Emerging Trends and Practices of Soil Improvement Techniques in Geotechnics” on 5.12.2022 conducted by Department of Civil Engineering, Vels Institute of Science,

		<p>Technology & Advanced Studies (VISTAS), Chennai.</p> <ul style="list-style-type: none"> S.P.Senthil Kumar attended a webinar on Construction of 440m Long Dobra Chanthi Suspension Bridge by Er. S. K. Rai, Retd. Superintending Engineer, PWD Uttarakhand, on December 31, 2022 conducted by UltraTech Cement Ltd & Indian Concrete Institute- Ghaziabad.
4.	Other activities (if any)	Dr.S.Thenmozhi & Dr.V.Gowri published a Design patent on Smart Plastic Waste Management Machine” on 16.12.2022, Design Number 369324-001, published in Intellectual Property Right, India.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	Remarks
1.	 <p style="text-align: center;">PIC: IEEE Event Poster</p>	<p>The “Pixel Power” is an online Pencil Drawing contest event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group sponsored by IEEE SPaX on 19th December 2022. A total of 20 Participants participated in the event. The students were given a time limit and instructed to submit their artworks. This event showcased the students' creativity. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.</p>

<p>2.</p>	<p>PIC: IEEE Event Poster</p>	<p>The “She Thinks” is an networking event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group sponsored by IEEE SPAX on 19th December 2022. The networking session was open for all College students conducted. We invited senior members and student members of the IEEE from other branches joined the session and built relationships with senior members to learn more about IEEE. Around 50 students participated in this event. Intermittently, interesting events were held.</p>
<p>3.</p>		<p>The “Tierra - Quiz Contest” is a quiz event conducted by IEEE Student Branch Chapter of St. Joseph's College of Engineering under Women In Engineering Affinity Group sponsored by IEEE SPAX on 19th December 2022. Around 45 students participated in this contest. The Quiz Contest is open for all College students .The event was planned to gain more knowledge about women's achievements. The event started exploring the hidden talent of our Students and they were honoured with e-certificates for their outstanding contributions during the Event.</p>


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 OMR, Chennai - 119


 29
 1994-2023

Counselling Code :1317









DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IEEE Women in Engineering Affinity Group presents
TIERRA The Quiz Competition
QUIZ TIME




SUBMISSION LINK:
<https://bit.ly/tierra>

2022
19 th
December

Merit E-Certificates will be provided to the winners
E-Certificates will be provided to all the participants

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

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 Associate Professor, St. Joseph's College of Engineering

Dr. A. Chandra Sekar M.Tech., Ph.D.,
 Associate Professor, St. Joseph's College of Engineering

Dr. C. Sreekumar M.Tech., Ph.D.,
 Associate Professor, St. Joseph's College of Engineering

Convenor
Dr. T.V. Narmadha M.Tech., Ph.D.,
 Professor & Head, Lab-III

SBC Advisor
Dr. Jayarama Pradeep M.Tech., Ph.D.,
 Professor & Head, Dept. EEE

Staff Coordinators
Mr. R. Sreekanth M.Tech., Ph.D.,
 Assistant Professor

Dr. M. Venkatesh M.Tech., Ph.D.,
 Assistant Professor

Student Coordinators
 Abinayaa Sri T | Januna U | Christel Peeteri R | Kaviya P | Ranya R | Deepika U | Dharani V

*For Admissions: visit www.stjosephs.ac.in / www.stjosephstechnology.ac.in or contact: +91 99401 03881 / +91 99401 03882

PIC: IEEE Event Poster

4.

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COUNSELLING CODE : 1317

ARHA | NBA | A+ | NIRF | Cambridge

IEEE | Department of Electrical and Electronics Engineering | IEEE POWER ELECTRONICS SOCIETY

last day to submit your video 25/12/2022

VIDA 2.0

Scan here for Registration

"A video contest conducted in Instagram"

E-Certificates will be provided to all the participants

Chief Patron
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.
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Principal, St. Joseph's College of Engineering
Dr. A. Chandra Sekar M.A., M.B.A.
Deputy Principal, St. Joseph's College of Engineering
Dr. C. Sreekanth M.A., M.B.A., Ph.D.
Deputy Principal, St. Joseph's College of Engineering

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Professor & Head, L&E Dept.

SBC Advisor
Dr. Jayarama Pradeep M.A., M.B.A.
Professor & Head, Soft Skills

Staff Coordinator
Mr. R. Sreekanth M.A., M.B.A.
Assistant Professor

Student Coordinators
DIVYA LAKSHMI G | POOJASREE K | DHARANI V | ABHISITHA R | POORNAVIRASH T | NIVAS M

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

PIC: IEEE Event poster

The IEEE Power Electronics Society of St. Joseph's College of Engineering Conducted vidactic2.0, a video contest on Dec 25,2022. In this event all participants were took video of 1min under a technical topic. Each participant uploaded their video in google form, the video were posted in Instagram on Dec 25, 2022. Among all videos, the winner will be chosen by the amount of likes and their knowledge of explaining their content in 1min. E-certificates were given to the participants and winners.

5.

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ARITA | NEA | NIRF | Cambridge

IEEE | DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IEEE Women in Engineering Affinity Group presents
IEEE SPAX sponsored
A TALK ON
MY WIE JOURNEY

Speaker
Ms. Priyadarshini Sashikumar
MENTOR - IEEE SB JEC | Associate Engineer - Harman
Connected Services | Execom Member - IEEE MAS WIE

Register Here : <https://forms.gle/Y1W4vjjT2WNQYH9>

6:00 pm IST
to
7:00 pm IST

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Chairman, St. Joseph's Group of Institutions

Patrons
Mrs. S. Jesula Priya M.Com. Managing Director, St. Joseph's Group of Institutions
Mr. B. Shashi Sekar M.B.A. Executive Director, St. Joseph's Group of Institutions

Dr. Vasthi Seshagiri Rao M.A., M.B.A., Ph.D. Principal, St. Joseph's College of Engineering

Dr. V. Vallinayagam M.A., M.B.A., Ph.D. Group Executive Director, St. Joseph's Group of Institutions
Dr. A. Chandra Sekar M.A., M.B.A., Ph.D. Executive Director, St. Joseph's Group of Institutions
Dr. G. Sreekumar M.A., M.B.A., Ph.D. Group Executive Director, St. Joseph's Group of Institutions

Convener Dr. T.V. Narayandhas M.A., M.B.A., Ph.D. Professor & Head - I&E Affairs
SBC Advisor Dr. Jayarama Pradeep M.A., M.B.A., Ph.D. Professor & Head - I&E Affairs
Staff Coordinators Mr. S. Sreekanth M.A., M.B.A., Ph.D. Assistant Professor, Dr.M.Venmuthu M.A., M.B.A., Ph.D. Assistant Professor

Student Coordinators
Abhinaya S1 T | Jasmuna U | Christel Peeter S | Kavaya P | Ranya R | Deepika U | Dhruvan V

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PIC: IEEE Event poster

The first webinar session was conducted on 18th of December, 2022 between 6:00 pm and 7:00pm (IST), amazingly handled by Ms. Priyadarshini. Ms. Priyadarshini Sashikumar, Mentor of IEEE SB JEC, Execom Member in IEEE MAS WIE has given a talk about her IEEE experience. She discussed her experiences at IEEE during this session, as well as the challenges she encountered and how she overcame them. She also stressed to the audience how crucial communication skills are! She presented the material with incredibly clear explanations and engaged the audience with engaging questions. At the end of the webinar session, She handled the participants' queries and the participants made the session lively by their queries. E-Certificates were provided to all the participants via their respective mail Id. Totally 50 participants attended the session and were benefitted.

6.

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ARIIA NEA NIF Cambridge
 IEEE SPAX
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 IEEE Women in Engineering Affinity Group
 presents
IEEE SPAX sponsored
A TALK ON
Impact of IEEE WIE in my career

Speaker
Ms. Nandhitha Kalyanasundaram
 Secretary, IEEE WIE MAS

Register Here :<https://forms.gle/YV4UjjTZWNQYH9>
 10.00 am IST to 11.00 am IST

Chief Patron
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 Principal, St. Joseph's College of Engineering

Dr. V. Vallinayagam M.E., 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. Sreekumar M.E., M.Tech., Ph.D.
 Dean Academics, St. Joseph's College of Engineering

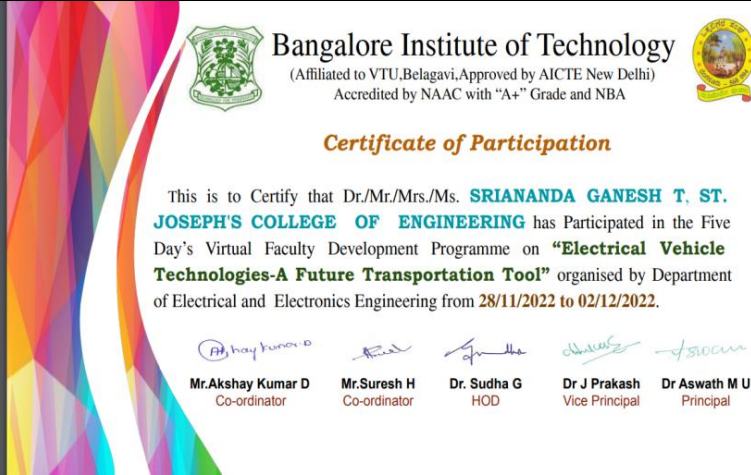



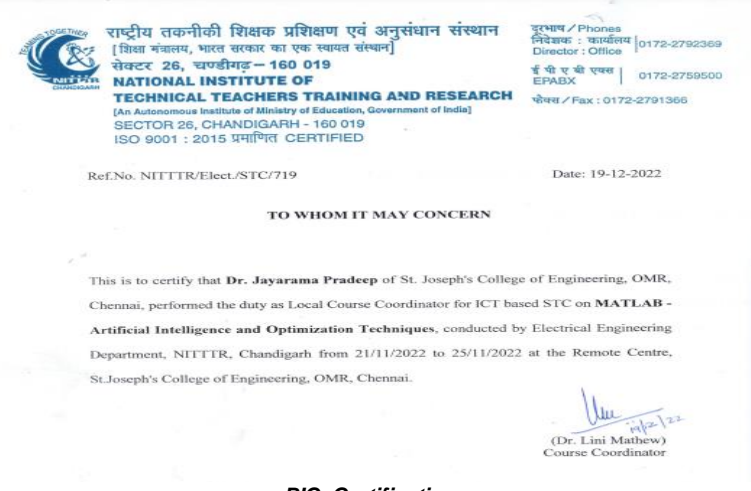

Convenor
Dr. T.V. Narmadha M.A., Ph.D.
 Professor & Head, Lab Affairs
SBC Advisor
Dr. Jayarama Pradeep M.E., Ph.D.
 Professor & Head, Staff Affairs
Staff Coordinators
Mr. B. Sreekanth M.A., Ph.D. / **Dr. M. Venmathi** M.A., Ph.D.
 Assistant Professor / Assistant Professor

Student Coordinators
 Abhinaya Sri T | Jamsuna U | Christel Peeris R | Kaviya P | Ramya R | Deepika U | Dharani V

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PIC: IEEE Event poster

The second and the last webinar session was conducted on 19th of December, 2022 between 10:00 am and 11:00am (IST), amazingly handled by Ms.Nandhitha. Ms.Nandhitha Kalyanasundaram, Secretary,IEEE WIE MAS has explained about the awards that have been given out by IEEE WIE, some tips for explaining IEEE in interviews, how to be active in IEEE, how to connect with others, basic skills to shine in IEEE, how to use LinkedIn and to build networking, and information about the motivational figures in IEEE WIE were all covered in her talk. In order to inspire the junior IEEE attendees, she also displayed her resume. This gave the participants an excellent experience, and the session was appropriate for both IEEE and Non-IEEE participants because she began with a fundamental introduction and ended with some tips for achieving success in the IEEE. At the end of the webinar session, She handled the participants' queries and the participants made the session lively by their queries. E-Certificates were provided to all the participants via their respective mail Id. Totally 45 participants attended the session and were benefitted.

7.	 <p>Bangalore Institute of Technology (Affiliated to VTU, Belagavi, Approved by AICTE New Delhi) Accredited by NAAC with "A+" Grade and NBA</p> <p>Certificate of Participation</p> <p>This is to Certify that Dr./Mr./Mrs./Ms. SRIANANDA GANESH T. ST. JOSEPH'S COLLEGE OF ENGINEERING has Participated in the Five Day's Virtual Faculty Development Programme on "Electrical Vehicle Technologies-A Future Transportation Tool" organised by Department of Electrical and Electronics Engineering from 28/11/2022 to 02/12/2022.</p> <p>  Mr. Akshay Kumar D Co-ordinator  Mr. Suresh H Co-ordinator  Dr. Sudha G HOD  Dr. J Prakash Vice Principal  Dr. Aswath M U Principal </p> <p>PIC: Certification</p>	<p>Our Faculty Dr.N.Chidambararaj, Mr. K.Aravindhan & Mr. SRIANANDA GANESH T. participated in the 5days Virtual FDP on "Electrical Vehicle Technologies –A Future Transportation Tool" organized by Department of Electrical and Electronics Engineering from 28/11/22 to 2/12/22 at Bangalore Institute of Technology.</p>
8.	 <p>राष्ट्रीय तकनीकी शिक्षक प्रशिक्षण एवं अनुसंधान संस्थान [शिक्षा विभाग, भारत सरकार का एक स्वायत्त संस्थान] सेक्टर 26, चण्डीगढ़ - 160 019</p> <p>NATIONAL INSTITUTE OF TECHNICAL TEACHERS TRAINING AND RESEARCH [An Autonomous Institute of Ministry of Education, Government of India] SECTOR 26, CHANDIGARH - 160 019 ISO 9001 : 2015 प्रमाणित CERTIFIED</p> <p>दूरभाष / Phones निदेशक : कार्यालय 0172-2792369 Director : Office ई पी ए सी एक्स 0172-2759500 EPACX फैक्स / Fax : 0172-2791366</p> <p>Ref.No. NITTTR/Elect./STC/719 Date: 19-12-2022</p> <p>TO WHOM IT MAY CONCERN</p> <p>This is to certify that Dr. Jayarama Pradeep of St. Joseph's College of Engineering, OMR, Chennai, performed the duty as Local Course Coordinator for ICT based STC on MATLAB - Artificial Intelligence and Optimization Techniques, conducted by Electrical Engineering Department, NITTTR, Chandigarh from 21/11/2022 to 25/11/2022 at the Remote Centre, St. Joseph's College of Engineering, OMR, Chennai.</p> <p>  (Dr. Lini Mathew) Course Coordinator </p> <p>PIC: Certification</p>	<p>Our Faculty Dr.Jayarama Pradeep performed the duty as local course coordinator & Dr.P.Anbarasean performed the duty as supporting faculty for ITC based STC on "MATLAB-Artificial Intelligence and Optimization Technologies" conducted by Electrical Engineering Department, NITTTR, Chandigarh from 21/11/22 to 25/12/22 at the Remote center, St.Joseph's college of Engineering, OMR, Chennai.</p>

9.



PIC: Certification of Appreciation




Our Faculty Mr.R.Elanthirayan for role of Reviewer in the IEEE madras section Technically sponsored 2022 fist international conference on computer power and communication (ICCPC'22) held at sri Sairam institute of technology, Chennai, from 14th dec to 16th dec 2022.

10.



PIC: Entrepreneur Development program poster

Our Electrical and Electronics Engineering department conducted Entrepreneur Development Program on “How to become a Successful Entrepreneur despite Struggles” on 3rd December 2022. The objective of this Entrepreneur Development Program talk is to help the students in strengthening his entrepreneurial motive and in acquiring skills and capabilities. Mr.C.Alexpandiyam, Founder and CEO, AP Interior and Modular Kitchen shared his project activity, market opportunities and strategies.

<p>11.</p>	 <p>Applied Soft Computing Volume 133, January 2023, 109937</p> <p>Robust energy management technique for plug-in hybrid electric vehicle with traffic condition identification</p> <p>C.N. Gnanaprakasam ^a, S. Meena ^b, M. Nivethitha Devi ^b, N. Shanmugasundaram ^c, S. Sridharan ^d</p> <p>Show more</p> <p>+ Add to Mendeley Share Cite</p> <p>https://doi.org/10.1016/j.asoc.2022.109937 Get rights and content</p> <p>PIC: Paper Screen shot</p>	<p style="text-align: right;">Criteria 1</p> <p>Our Faculty Dr.S.Sridharan published paper title on “ Robust energy management technique for plug-in hybrid electric vehicle with traffic condition identification”, in Elsevier-Applied Soft Computing.</p>
<p>12.</p>	<p>Conferences > 2022 Sixth International Conf.</p> <p>Comparison of SOH Prediction ML Technique for Electric Vehicles</p> <p>Publisher: IEEE Cite This PDF</p> <p>Jayarama Pradeep ; Sanda Sri Harsha ; R. Jenin Prabhu ; K Subramani ; G. Mahendran ; T. Selvaganapathi All Authors</p> <p>10 Full Text Views</p> <p>Abstract</p> <p>Document Sections</p> <p>I. Introduction</p> <p>II. Proposed Work</p> <p>III. ML Models</p> <p>IV. Results and Discussion</p> <p>V. Conclusion</p> <p>Authors</p> <p>Figures</p> <p>PIC: Paper Screen shot</p>	<p style="text-align: right;">Criteria 1</p> <p>Our Faculty Dr.Jayarama Pradeep published paper title on “Comparison of SOH Prediction ML Technique for Electric Vehicles” in 2022 Sixth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC).</p>
<p>13.</p>	 <p>St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution) St. Joseph's Group of Institutions OMR, Chennai - 119</p> <p>Circular</p> <p>Management and staff are happy to inform that Dr. V. R. Jayarama Pradeep, Professor & Head, Department of Electrical & Electronics Engineering has received a grant of Rs. 6,60,000/- for a project under the scheme of “Mathematical Research Impact Centric Support” (MATRICS)</p> <p>by Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India.</p> <p></p> <p>Title of the Project: Analysis of Power Electronic Inverter and Drive Using Discrete Event System Approach.</p> <p>CHAIRMAN 171222</p> <p>PIC: Circular</p>	<p>Our Faculty Dr.Jayarama Pradeep has received a grant of Rs.6,60,000/- for a project under the scheme of “Mathematical Research Impact Centric Support” (MATRICS) by science and engineering and technology, government of india. Title of the project : analysis of power electronic inverter and drive using discrete event system approach.</p>

14.



Criteria 1

- A patent titled “Design web server to client communication for web usage data analysis” is published by Dr.S.kannadasan, V.Renganayagi, Dr.Meenakshisharma,**Dr.S.Sridharan**,Dr.jegajothi,Dr.A.Pandiyan, Mrs.R.Indhuja, Dr.Sultanuddin S J on 02/12/2022.
- A patent titled “AI and machine learning based early detection, Prediction and classification of brain tumors and segmentation of its stages using Image Processing” is published by Dr.Amit Khare, Mohamed J.Saadh, **Mr.Sivakumar S**, Dr.Papiya Debnath, Dr.Manash Chanda, Dr.Sheshang Degadwala on 09/12/2022
- A patent titled “IOT and AI based renewable energy management system for future smart city” is published by Talari Manohar, **Dr.P.Anbarasan**, DR.G.Prakash, DR. Mohammed Salim Khan, DR.A. Baradeswaran, DR.Shaik.Nagul on 23/12/2022.
- A patent titled “Automatic Penalty on Traffic Rules Violations Based on Block Chain and Machine Learning” is published by Dr.Kavitha, Dr. Hemlata, G.Balamuralikrishnan, **Mr. K. Aravindhan, Dr. Chidambararaj Natarajan** P.Dineshkumar, Dr. V. Devi, Pares Parekh on 23/12/2022.
- A patent titled “AI & IOT Based Smart Agriculture” is published by Dr.V.Sesha Bhargavi, Dr. S. Joshua Davidson, Dr. V L Raja, Selvaganesh R, **Dr.P.Velmurugan**, Dr.J.Senthil Murugan, C.Sankari, P. Anandha Prakash on 23/12/2022.
- A patent titled “Water Management & Leakage Detection Problems Solutions Using IOT” is published by Dr. Robin Rohit. V, Mrs. Nisha. F, Dr. F. R. Shiny Malar, **H. Umesh prabhu**, Dr.V.Devi, S. Praveena Rachel Kamala, T.R.Chenthil, Dr.K.Sivakumar on 30/12/2022.
- A patent titled “Detect & Prevent Malware in Cyber Security using AI and DL” is published by Dr. S. Srinivasan, Shobana. G, Dr.R.Kalaivani, **R. Srekanth**, Dr.Swagata Sarkar, T. P. S. Kumar Kusumanchi, Dr.R.P.Narmadha, T.R.Chenthil on 30/12/2022.

15.



PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) SOCIAL AWARENESS CLUB organized a technical event “TECHNOPHILE” on 07/12/2022. This exclusive event started at 01:40AM 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.

Student Name	Year	Position
Mohana Santhosh M Nandhi Vardhan Reddy R	III- B	I
Venkatesh Ruthiharsan R	III - C	II
Charlton Christ W Bharathraj M	III- A	III

16.



PIC: Club event poster

St. Joseph's College of Engineering, (Electrical & Electronics Engineering) ELECTRICAL CLUB organized a technical event “FESTEMBER” on 08/12/2022. This exclusive event started at 1.40-3.00 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
MADHU MALINI .M K & JEEVITHA R	III	I
DEEPIKA U & HARIPRIYA M	III	II
JOEL EBINEZAR & PRASANNA KUMAR	III	III

17.



PIC: Placement poster

Placement Record for the 2019-2023 Batch students as on 07/12/2023

Total No of students placed = 106 UG Students
 Total No of Offers = 161 + 4 (PG) = 164 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) = 105/144 = 72.92 %
 % of students Placed (PG) = 04
 % of students Placed (PG) = 04/06 = 66.66%
 No of students having single offers = 63 + 04 (PG)
 No of students having Double offers = 31
 No of students having Triple offers = 12

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1. ATAL FDP EVENT:

St. JOSEPH'S IN ASSOCIATION WITH AICTE HOSTS FDP ON "DIVERSE APPLICATIONS OF RESEARCH PARADIGMS IN AI"	Report
	<p>The Department of Electronics and Communication Engineering of St. Joseph's College of Engineering, OMR, Chennai organized a two-week Faculty Development Programme on "Diverse Applications of Research Paradigms in AI" from 5th December to 16th December 2022, sponsored by AICTE ATAL. The objective of ATAL is to impart quality Continuous Professional Development Program for faculty. There are fourteen sessions in all. The first six sessions were held online (5th – 11th December 2022), with the following eight sessions took place offline (12th – 16th December 2022).</p> <p>On 12th December, the inaugural programme of offline sessions at St. Joseph's College of Engineering began with Thamizhthai Vazthu, followed by the welcome address rendered by our head of the department Dr. B. Victoria Jancee. Then, an outline of the programme was given by the Program Coordinator Dr. R. Avudaiammal, Professor of ECE department. A hearty welcome was extended to our chief guest, Dr. R. Vidhya, Professor and Director for Survey Training and Research. The presidential address was delivered by Dr. Vaddi Seshagiri Rao, Principal of St. Joseph's College of Engineering. The chief guest Dr. R. Vidhya underlined the importance of AI in many sectors in her inaugural speech. She emphasized the importance of AI in a variety of sectors and also covered numerous AI applications and mentioned the booming fields in which AI plays a key role. The Inaugural session was concluded with a vote of thanks proposed by Dr. J. Martin Leo Manickam, Professor of ECE department.</p> <p>This FDP aimed at channelizing the professional expertise of the faculty members and at enhancing the essential life skills to make a meaningful and satisfying life as a faculty</p>



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St. JOSEPH'S COLLEGE OF ENGINEERING (An Autonomous Institution)

Department of Electronics and Communication Engineering



TWO WEEKS

ATAL Hybrid Faculty Development Program
on
Diverse Applications of Research Paradigms in AI
(05.12.2022 to 16.12.2022)

Sponsored and Approved By AICTE

WEEK 1 - ONLINE



Prof. P. K. Biswas
Prof., IIT Karagpur.
DL FOR IMAGE PROCESSING.
Session 1 - 05.12.2022



Dr. R A Alagu Raja
Asst.Prof., Dept. of ECE,
Thiagarajar College of Engg.,
Madurai.
DL FOR SATELLITE IMAGE
PROCESSING.
Session 2 - 06.12.2022



Dr. Syed Ibrahim S P
Prof., Dept. of CSE, VIT,
Chennai.
MALWARE ANALYTICS USING DL
Session 3 - 07.12.2022



Arockia Praveen J B
Machine Learning Engineer, Optisol
Business Solutions, Chennai.
INTERPRETABLE MACHINE LEARNING
Session 4 - 08.12.2022



Dr. Deepak Garg
Dean, School of CSE and Tech,
Bennett University, Noida.
DL FOR DATA
SCIENCE AND PATTERN
RECOGNITION.
Session 5 - 09.12.2022



Dr. Ram Bilas Pachori
Prof., Dept. of Elect. Engg., IIT
Indore.
ML FOR EEG SIGNAL
PROCESSING.
Session 6 - 10.12.2022

member. The Online sessions were held through Zoom meetings. Experts from various parts of India like IIT Kharagpur, Indore, Noida, Madurai and Chennai were a part of our program and had delivered their valuable lectures as part of this FDP. They discussed the relevance of neural networks, the fascination that surrounds them, and their significance in the present modern trends. This FDP gives an opportunity for the participants to gain insights into the fundamentals of Artificial Intelligence, Machine Learning concepts and Deep Learning architectures for various applications. Participants from various institutions in and around Chennai were exposed to the ML and DL technologies along with the hands-on session of Pytorch and Tensor flow platform. Participants who had successfully completed the FDP were awarded with the Certificates.



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WEEK 2 - OFFLINE



Dr. Vidya, Prof, IRS,
Anna University.
REMOTE SENSING DATA ANALYSIS
USING ADVANCED METHOD.
Session 7 - 12.12.2022



Dr. V. Shanmuganeethi
Professor & Head
TEACHING LEARNING
PSYCHOLOGY & LIFE SKILLS.
Session - NITTTR 12.12.2022



Dr. G. Janardhanan
PROFESSOR & HEAD
NEP & RESEARCH METHODOLOGIES
Session - NITTTR 12.12.2022



Mr. Mohanraj Vengadachalam
Machine learning Lead, Standard
CHARTERED BANK, CHENNAI
DL FOR AUTOMOTIVES
Session 8 - 13.12.2022



Dr. V. Masilamani
Associate Professor & Head, IIITDM,
Kancheepuram
DL FOR IMAGE QUALITY METRIC
ASSESSMENT
Session 9 - 13.12.2022



Mr. Arockia Praveen J B
PYTORCH FOR DEEP LEARNING &
COMPUTER VISION
(HANDS ON)
Session 10 & 11- 14.12.2022



Dr. V Sathiesh Kumar
Asst. Prof, Dept. of Electronics Engg., I-ENABLED SENSING &
DECISION MAKING FOR IoT SYSTEMS (HANDS ON)
IMAGE AND TEXT CLASSIFICATION USING TENSORFLOW.
Session 12&13 - 15.12.2022



Dr. Ram Prasad.
Asso. Prof,
School of Computing and
Data Science, Sai University.
RESEARCH PERSPECTIVES IN DL.
Session 14 - 15.12.2022



2. Publications:

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

S. No.	Name of the Author	Paper Title	Name of the Conference/Journal	Publication Details	Date of Publication
1.	Dr. D.LAKSHMI	Transfer Learning Supported Accurate	Part H- Journal of	https://doi.org/10.1177/	December

		Assessment of Multiclass Cervix Type Images	Engineering in Medicine	09544119221143441	2022
2.	Dr. S. RAJESHKANNAN	Faster Region Based Convolutional Neural Network for Skin Lesion Segmentation	Intelligent Automation and Soft computing	vol.36, no.2	December 2022

2. FDP Attended by Faculty:

The following staff members have attended the Faculty Development Program in the month of December at National Level


S. No.	Name of the Staff	Title of the FDP	Host Institution	Duration	Date of Completion
1	DR S.AGHALYA	Kinematic analysis of Robot mechanisms- Fundamentals	IIIT, Kancheepuram	6 days	9.12.2022 to 15.12.2022
2	DR S.AGHALYA	Machine Learning for Data science using Python	NIT, Warangal	5 days	19.12.2022 to 28.12.2022
3	DR. J. MARTIN LEO MANICKAM	Insights into AI and ML for Image Processing Applications	NIT, Warangal	5 days	28.11.2022 to 02.12.2022
4	DR.R.AVUDAIAMMAL	Insights into AI and ML for Image Processing Applications	NIT, Warangal	5 days	28.11.2022 to 02.12.2022
5	DR. D.LAKSHMI	Societal Applications of Machine Learning	Sri Vishnu Engineering College for Women - Bhimavaram	5 days	26.12.2022 to 30.12.2022
6	DR. NIRUBAN.R	ATAL - Diverse Applications of Research Paradigms in AI	Hybrid Mode , ATAL , AICTE & St. Joseph's College of Engineering	11 days	05.12.2022 to 16.12.2022
7	MRS. P. THENMOZHI	Artificial intelligence and Optimisation techniques	NITTTR Chandigarh	5 days	21.11.22 to 25.11.22
		Emerging Research Trends in Computing Technologies	Dr. M.G.R. Educational and Research Institute, Maduravoyal	6 days	28.11.22 to 2.12.22

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail					
1	Webinar /FDP / workshop attended	S.No	Faculty Name	Webinar /FDP / workshop attended	Conducting agency	Period	Link
		1.	Dr.P Deepa	“Skill Development Program on IPR, Copyrights & Patents Filling and Pathway for Entrepreneurship”	M.Kumarasamy College of Engineering, Karur, Tamilnadu, India.	21.11.2022 to 25.11.2022	https://drive.google.com/file/d/1WqdPMEMNXXTmb85sk7wBU-G2y3FjbJf4/view?usp=share_link
2.	Patent	S.No	Faculty Name	Publication Date	Title	Link	
		1.	Dr.S.Meena	16/12/2022	A Novel Method For Preparing Data For Processing By Artificial Intelligence And Machine Learning Systems	https://drive.google.com/file/d/1Pi33QWvzNFTV5QW6hXsF-JZuCuDSX0A0/view?usp=share_link	
		2.	Mrs.R. Angel Sujitha	9/12/22	Cloud Based Technique Integrated With Artificial Intelligence To Predict The Heart Diseases In Advance And Avoiding The Sudden And Massive Heart Attacks	https://drive.google.com/file/d/119mFJuB10VKKIBSD4gcCHLLVLnPQib-F/view?usp=share_link	

3.	Workshop/ STTP Organised	S.No.	Faculty Name	Workshop/ STTP Organised	Conducting agency	Date	Link
		1.	Dr. V. Vijayan And Mr. D. Sankaran	Workshop On robot Control Design	RETECT pvt Ltd	16.12.2022	https://drive.google.com/file/d/1hsInOgfdPT-2LcJSdmXhQtXIfCOizTr/view?usp=share_link

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Event	Corresponding remarks in regarding the status of activity execution																				
1	 <p>FDP certificates</p>	<p>Online FDP Attended by Faculty</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>5 days FDP on Data Science '22 Contemporary Tools and Techniques</td> <td>Dr. L. Sherly Puspsha Annabel</td> <td>Department of Information Science and Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, India</td> <td>12-12-22 to 16-12-22 (5 days)</td> </tr> <tr> <td>2.</td> <td>Wipro Certified Faculty Program</td> <td>J. Divya</td> <td>Talent Next, Wipro</td> <td>07-12-22 to 23-12-22</td> </tr> <tr> <td>3.</td> <td>FDP on Diverse Applications of Research Paradigms in AI</td> <td>Ms. Kripa Sekaran</td> <td>ATAL, St. Joseph's College of Engineering, Chennai</td> <td>5-12-22 to 16-12-22 (11 days)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	5 days FDP on Data Science '22 Contemporary Tools and Techniques	Dr. L. Sherly Puspsha Annabel	Department of Information Science and Engineering, Nitte Meenakshi Institute of Technology, Bengaluru, India	12-12-22 to 16-12-22 (5 days)	2.	Wipro Certified Faculty Program	J. Divya	Talent Next, Wipro	07-12-22 to 23-12-22	3.	FDP on Diverse Applications of Research Paradigms in AI	Ms. Kripa Sekaran	ATAL, St. Joseph's College of Engineering, Chennai	5-12-22 to 16-12-22 (11 days)
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DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
1	Paper Published:	<ul style="list-style-type: none"> ➤ “Influence of MQL on performance evaluation of EN19 steel under centreless grinding” , NE Arun Kumar, A Suresh Babu, M Subramanian, N Arunkumar, Materials and Manufacturing Processes,37(14).
2	Prize Won by students	<ul style="list-style-type: none"> ➤ Damodharan A & Aswin R J of III Mech A won second place in the event “WEB DECORZ” organized by RMK College of Engineering ➤ Chandru S of III Mech A won won second place in the event “Mr.DESIGNER” organized by RMK College of Engineering

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<ol style="list-style-type: none"> 1. Dr. P. Krishnan, Dr. G. Sasikumar attended International Faculty Development Program on “Nanomaterials For Sustainable Future” conducted by “GMR institute of Technology, Rajam, Andhra pradesh” held from 12.12.22 to 16.12.22. 2. Dr. G. Murugan, Dr. V. Swarnalatha, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. B. Subash, Dr. S.M. Prakash, Dr. G. Sasikumar, Dr. T.L. Ajeesha, attended International webinar on “Solar Photovoltaics for Sustainable Future” conducted by “Bharat Institute of engineering and technology and Indian ceramic society, Hyderabad Chapter” on 24.12.22 3. Dr. S. Suresh, Dr. N. Punitha, Mr. S. Kaleel Mohamed Ibrahim attended International webinar on “ Ammonia as a Potential Energy Vector for Future Energy Application ” conducted by “Department of Micro and Nanoelectronics, Division of physics, Saveetha Institute of science and Humanities.” on 26.12.22. 4. Dr. S. Kiruba attended International webinar on “Importance of Preparedness for Educators” conducted by “Bharat Institute of engineering and technology and Indian ceramic society, Hyderabad Chapter” on 31.12.22
2	Value added Courses/Courses other than VAC	<ol style="list-style-type: none"> 1. Mr. S. Kaleel Mohamed Ibrahim completed Udeemy course on “Poultry Farming Broiler Farming Crash Course” on 04.12.22 2. Dr. A. Arulmozhi completed Udeemy course on “Dieting - Nutrition - Weight Loss Tips

		for Good Healthy Life” on 05.12.22 3. Mr. S. Kaleel Mohamed Ibrahim completed Udemy course on “”Plumbing &Hvac Systems In Chillers Water Treatment A-Z ” on 05.12.22
3	Competitions attended by students	1. Mr. K. Praveen of I ECE-B has attended the workshop on “Capital Management – Enantra ” conducted by College of Engineering, Guindy, Anna University on 02.12.22
4	Publications(only published) details	1. Dr. K. Sathesh Kumar published a paper titled “Studies on the DFT calculations and molecular docking of versatile molecular sensor 1-(6-Aminopyridin-2-yl)-3-(4-nitrophenyl) urea” in the journal “Chemical Physics Impact”, 6 (2023) 100139. 2. Dr. B. Subash and Dr. K. Jayamoorthy published a paper titled “Heterojunction of Bentonite Clay supported Bi ₂ O ₃ /ZnO composite for the detoxification of azo dyes under UV-A light illumination” in the journal “Chemical Physics Impact”, 6 (2023) 100152