



**St. Joseph's College of Engineering**  
St. Joseph's Group of Institutions  
OMR, Chennai – 119.



**AUGUST 2020**

**DEPARTMENT OF BIOTECHNOLOGY**

S.No.	Title of the Events and Photographs	Details of the Event
1.	FDP/WORKSHOP/CONFERENCE	<p style="text-align: center;"><b>BIO TALK SERIES – WEEK 4</b> <b>LIFE AND DEATH IN-BETWEEN CANCER CELLS</b></p> <p>The "<b>BioTalk Series - 4</b>" was held on 24.07.2020, organized by Dr. Justin Packia Jacob of the Department of Biotechnology, resource person Dr. Shiv Poojan , Post Doctoral Resarch Associate, Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, PA, USA. The session was aimed to enrich knowledge on the current</p>


*You Choose. We Do it*

**ST. JOSEPH'S COLLEGE OF ENGINEERING**  
(St. Joseph's Group of Institutions)  
OMR, Chennai - 119  
COUNSELLING CODE: 1317

**DEPARTMENT OF BIOTECHNOLOGY**

PRESENTS

**BIO-TALK SERIES WEEK : 4**  
**"LIFE AND DEATH IN-BETWEEN CANCER CELLS"**



**Dr. Shiv Poojan, M.Phil., Ph.D.**  
Postdoctoral Research Associate  
Sidney Kimmel Cancer Center  
Thomas Jefferson University  
Philadelphia, PA, USA

**Date: 24/07/2020 (Friday)**

**Timings: 5.00 PM – 6.00 PM**

**PATRONS**

**Dr. B. BABU MANOHARAN, M.A., M.B.A., Ph.D.**  
Chairman, St. Joseph's Group of Institutions

Mrs. S. JESSIE PRIYA, M.Com. Managing Director      Mr. B. SHASHI SEKAR, M.Sc. Director

Dr. VADDI SESHAGIRI RAO, M.E., M.B.A., Ph.D. Principal      Dr. B. PARVATHAVARTHINI, M.E., M.B.A., Ph.D. Dean (Research)

**CONVENOR**      **ORGANIZER**  
Dr. G. SREEKUMAR, M.Sc., M.Tech., Ph.D. Professor & Head of the Department      Dr. S. JUSTIN PACKIA JACOB, M.Sc., M.Tech., Ph.D. Professor

**ADVISOR**  
Dr. RENUKA, V, M.Tech., Ph.D. Professor

**FREE REGISTRATION**  
**E-CERTIFICATE WILL BE GIVEN**

biotechwebinar.sjce@gmail.com      [Registration Link](https://forms.gle/XkddCrLn3Nhdq0Z9)

9444222955      <https://forms.gle/XkddCrLn3Nhdq0Z9>

*Brochure copy of Bio Talk Series – Week 4*

trends and future focus cancer cells. Totally 100 faculty members, 96 research scholars and 200 students from 11 countries across the world & 21 states of INDIA registered for the event. Overall the talk series was successful and fruitful which is evident from 450 participants from various universities around the world.

### BIO TALK SERIES – WEEK 6

### SINGLE CELL GENOMICS OF FRONTAL TEMPORAL DEMENTIA (FTD)

The "BioTalk Series - 6" was held on 14.08.2020 via online platform. Dr. N. Karthick, Post-Doctoral Researcher, Karolinska Institute, Sweden was the guest speaker and delivered a talk entitled "SINGLE CELL GENOMICS OF FRONTAL TEMPORAL DEMENTIA (FTD)". The session was aimed to enrich knowledge on the current trends and future focus in the realm of dementia and to provide a research platform on single cell genomics. Totally 157 faculty members, 96 research scholars and 529 students from 11 countries across the world & 21 states of INDIA registered for the event. Overall the talk series was successful and fruitful which is evident from 750 participants from various universities around the world.

You Choose, We Do It!

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (St. JOSEPH'S GROUP OF INSTITUTIONS)  
 OMR, CHENNAI - 119  
 COUNSELLING CODE : 1317

**DEPARTMENT OF BIOTECHNOLOGY**  
 PRESENTS  
**BIO TALK SERIES - WEEK : 6**

**SINGLE CELL GENOMICS OF FRONTAL TEMPORAL DEMENTIA (FTD)**  
 by  
**Dr. KARTHICK NATARAJAN**  
 Post-doctoral Researcher,  
 H1 Department of Neurobiology,  
 Care Sciences and Society,  
 Karolinska Institute, Sweden

14.08.2020 (FRIDAY) NO REGISTRATION FEE 5.00 PM - 6.00 PM IST

**PATRONS**  
 Dr. B. BABU MANOHARAN M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions  
 Mrs. S. JESSIE PRIYA M.Com.  
 Managing Director  
 Mr. B. SHASHI SEKAR M.Sc.  
 Director  
 Dr. VASUDEVI SESHAGIRI RAO M.E., M.B.A., Ph.D.  
 Principal  
 Dr. B. PARVATHAVARTHINI M.E., M.B.A., Ph.D.  
 Dean (Research)

**CONVENER**  
 Dr. G. SREEKUMAR M.Sc., M.Tech., Ph.D.  
 Professor, Head of the Department

**ADVISOR**  
 Dr. V. RENUKA M.Tech., Ph.D.  
 Professor

**ORGANIZER**  
 Dr. C. KARTHICK M.Tech., Ph.D.  
 Associate Professor

FOR REGISTRATIONS:  
<https://forms.gle/2RwP5hh-BldczITAA>

FOR QUERIES:  
[sjbiotech\\_webinar2020@gmail.com](mailto:sjbiotech_webinar2020@gmail.com)


E - Certificates will be provided for all active participants

*Brochure copy of Bio Talk Series – Week 6*

## BIOTALK SERIES 7 13C METABOLIC FLUX ANALYSIS

The "BioTalk Series - 7" was held on 21.08.2020, resource person Dr. P.A. Balakumaran, Scientist and Assistant professor, MPTD, CSIR-NIIST, thiruvananthapuram, kerala, on topic 13C Metabolic Flux Analysis. Total registrations-941 with the distribution class of UG385, PG 131, Faculty 283, Scholar 87 and other category with 55. We have a participants category from both national and International level. Participants response from Total 25 states and 11 countries.

You Choose, We Do It!

**St. JOSEPH'S COLLEGE OF ENGINEERING** 


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

COUNSELLING CODE : 1317

**DEPARTMENT OF BIOTECHNOLOGY**

PRESENTS

**BIO TALK SERIES - WEEK : 7**



**13 C BASED METABOLIC FLUX ANALYSIS**

by

**Dr. P. A. BALAKUMARAN M.S., Ph.D.**

Scientist and Assistant Professor (AcSIR),  
Microbial Process and Technology Division (MPTD),  
CSIR - National Institute for Interdisciplinary Science and  
technology (NIIST),  
Thiruvananthapuram, Kerala

**21.08.2020 (FRIDAY)** **5.00 PM - 6.00 PM IST**

**PATRONS**

Dr. S. BABU MANOHARAN M.A., M.B.A., Ph.D.  
Chairman, St. Joseph's Group of Institutions

Mrs. S. JESSIE PRIYA M.Com.  
Managing Director

Mr. S. SHASHI SEKAR M.Sc.  
Director

Dr. VADDI SESHAGIRI RAO M.E., M.B.A., Ph.D.  
Principal

Dr. S. PARVATHAVARTHINI M.E., M.B.A., Ph.D.  
Dean (Research)

**CONVENOR**

Dr. G. SREEKUMAR M.Sc., M.Tech., Ph.D.  
Professor, Head of the Department

**ADVISOR**

Dr. V. RENUKA M.Tech., Ph.D.  
Professor

**ORGANIZER**


Ms. K. R. PREETHY M.Tech.,  
Assistant Professor

**FOR REGISTRATIONS:**  
<https://forms.gle/eGGHCQ3d69Etw227>

**FOR QUERIES:**  
sjscebiotech.webinar2020@gmail.com

E - Certificates will be provided for all active participants

No Registration fee



## BIOTALK SERIES 8

### COLLAGEN BASED MATERIALS FOR BIOMEDICAL APPLICATIONS


The "BioTalk Series - " was held on 28.08.2020, organized by Dr. Chamundeeswari of the Department of Biotechnology, resource person Dr. G. C Jayakumar, Scientist, Centre for Academic and Research Excellence, CSIR- Central Leather Research Institute. The session was aimed to enrich knowledge on the current trends and future focus biomedical applications. Totally 100 faculty members, 96 research scholars and 200 students from 11 countries across the world & 21 states of INDIA registered for the event. Overall the talk series was successful and fruitful which is evident from 450 participants from various universities around the world.

*Brochure copy of Bio Talk Series – Week 7*

You Choose, We Do It!

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (St. JOSEPH'S GROUP OF INSTITUTIONS)  
 OMR, CHENNAI - 119  
**COUNSELLING CODE : 1317**

**DEPARTMENT OF BIOTECHNOLOGY**  
 PRESENTS  
**BIO TALK SERIES - WEEK : 8**



**COLLAGEN BASED MATERIALS FOR BIOMEDICAL APPLICATIONS**  
 by  
**Dr. G. C. JAYAKUMAR M.S., Ph.D.**  
 Scientist,  
 Centre for Academic and Research Excellence,  
 CSIR - Central Leather Research Institute,  
 Adyar, Chennai

28.08.2020 (FRIDAY) 5.30 PM - 6.30 PM IST

**PATRONS**  
 Dr. B. BABU MANOHARAN M.A., M.B.A., Ph.D.  
 Chairman, St. Joseph's Group of Institutions  
 Mrs. S. JESSIE PRIYA M.Com.  
 Managing Director  
 Mr. S. SHASHI SEKAR M.Sc.  
 Director  
 Dr. VADDI SESHAGIRI RAO M.E., M.B.A., Ph.D.  
 Principal  
 Dr. S. PARVATHAVARTHINI M.E., M.B.A., Ph.D.  
 Dean (Research)

**CONVENOR**  
 Dr. G. SREEKUMAR M.Sc., M.Tech., Ph.D.  
 Professor, Head of the Department

**ADVISOR**  
 Dr. V. RENUKA M.Tech., Ph.D.  
 Professor

**ORGANIZER**  
 Dr. M. CHAMUNDESWARI M.Tech., Ph.D.  
 Associate Professor

**FOR REGISTRATIONS:**  
<https://forms.office/Y5rWNz75nTFX2EH8>

**FOR QUERIES:**  
[sjcebiotech.webinar2020@gmail.com](mailto:sjcebiotech.webinar2020@gmail.com)

E - Certificates will be provided for all active participants

No Registration fee

*Brochure copy of Bio Talk Series – Week 8*

**2. PUBLICATIONS(ONLY PUBLISHED) DETAILS**

**G. Baskar (Editor)**, Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI:





*Copy of published book*

10.2174/97898114608211200101. eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7.

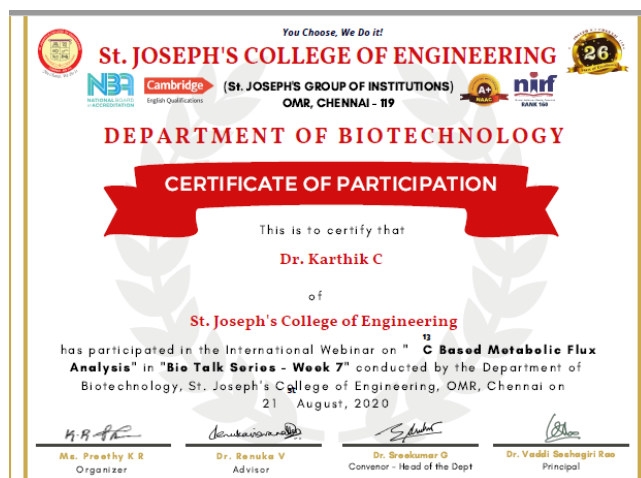
E. Raja Sathendra, **G. Baskar** and R. Praveen Kumar, **Product Inhibition in Bioethanol Fermentation: An Overview**, in *Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications*, edited by G. Baskar, K. Sathish Kumar and K. Tamilarasan, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: 10.2174/97898114608211200101. eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7. pp. 122-147.

Elsa Cherian and **G Baskar**, **Enzyme Biosensors Based on Enzyme Inhibition for Pesticide and Heavy Metal Detection**, in *Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications*, edited by G. Baskar, K. Sathish Kumar and K. Tamilarasan, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: 10.2174/97898114608211200101. eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7. pp. 59-72.

**G. Baskar**, R. Aiswarya, K. Sathish Kumar and K. Tamilarasan, **Introduction to Enzyme Inhibition – Environmental and Biomedical Applications**, in *Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications*, edited by G. Baskar, K. Sathish Kumar and K. Tamilarasan, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: 10.2174/97898114608211200101. eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7. pp. 1-4.

**S. Justin Packia Jacob**. 2020. RNA Silencing in Enzyme Inhibition and its Role in Crop Improvement. *Frontiers in Enzyme Inhibition*, Vol. 1, 36-58. ISBN: 978-981-14-6082-1.

## STAFF CONFERENCE PRESENTATION



3.



## STAFF CONFERENCE PRESENTATION

**Dr. C. Karthik** has participated in the International Webinar on C – Based Metabolic Flux Analysis in the Bio Talk Series- week 7 conducted by the Department of Biotechnology, St. Joseph's College of Engineering.

**Ms. K. R. Preethy** has participated in the National webinar series on Digital Content Creation for Social Media organized by Bombay Teachers Training College in collaboration with Thadomal Shahani Engineering College from 6<sup>th</sup> July to 11<sup>th</sup> July, 2020.

**Ms. S. Yuwvaranni** has participated in the 7 day online faculty development program on Small molecules – strategies and sophistication organized by Col. Dr. Jeppiaar Research Park, Centre for ocean research in association with Ministry of Earth Sciences – Earth Science Technology Cell (MoES - ESTC) from 3<sup>rd</sup> – 9<sup>th</sup> August 2020.

**Ms. D G Caroline** has participated in the five day national level online faculty development program on Recent Trends and Development in Food Technology during 10-14<sup>th</sup> August 2020,



organized by department of Food Technology, Saintgits College of Engineering in Association with AFSTI, Cochin Chapter.

**Ms. Preethy K R** has participated in the five day national level online faculty development program on Recent Trends and Development in Food Technology during 10-14<sup>th</sup> August 2020, organized by department of Food Technology, Saintgits College of Engineering in Association with AFSTI, Cochin Chapter.

**Ms. G Kalavathy** has participated in the five day national level online faculty development program on Recent Trends and Development in Food Technology during 10-14<sup>th</sup> August 2020, organized by department of Food Technology, Saintgits College of Engineering in Association with AFSTI, Cochin Chapter.

**Dr. C. Karthik** has participated in the five day national level online faculty development program on Recent Trends and Development in Food Technology during 10-14<sup>th</sup> August 2020, organized by department of Food Technology, Saintgits College of Engineering in Association with AFSTI, Cochin Chapter.

**Ms. Geethika S** has participated in the International Webinar on Innovative approaches to treat palm oil effluents organized by department of chemical engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai on 5<sup>th</sup> August, 2020.







## DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks												
1	FDP	<p>The following staffs participated in online FDP on Recent Advancement in Medical Biotechnology Research organized by GCT Coimbatore.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">S No</th> <th style="text-align: center;">Name of the Staff</th> <th style="text-align: center;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Ms Sivaranjane R</td> <td style="text-align: center;">3.8.20 to 5.8.20</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Ms B S Rathi</td> <td style="text-align: center;">3.8.20 to 5.8.20</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Ms S Geerthika</td> <td style="text-align: center;">3.8.20 to 5.8.20</td> </tr> </tbody> </table> <p>The following staffs participated in online FDP on Strategies on Writing Research Paper</p>	S No	Name of the Staff	Date	1	Ms Sivaranjane R	3.8.20 to 5.8.20	2	Ms B S Rathi	3.8.20 to 5.8.20	3	Ms S Geerthika	3.8.20 to 5.8.20
S No	Name of the Staff	Date												
1	Ms Sivaranjane R	3.8.20 to 5.8.20												
2	Ms B S Rathi	3.8.20 to 5.8.20												
3	Ms S Geerthika	3.8.20 to 5.8.20												

		<p>conducted by SSNCE.</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Name of the Staff</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ms B S Rathi</td> <td>14.8.20 to 24.8.20</td> </tr> <tr> <td>2</td> <td>Ms Sivaranjane R</td> <td>14.8.20 to 24.8.20</td> </tr> </tbody> </table>	S No	Name of the Staff	Date	1	Ms B S Rathi	14.8.20 to 24.8.20	2	Ms Sivaranjane R	14.8.20 to 24.8.20							
S No	Name of the Staff	Date																
1	Ms B S Rathi	14.8.20 to 24.8.20																
2	Ms Sivaranjane R	14.8.20 to 24.8.20																
2	STTP	<ul style="list-style-type: none"> <li>The Dept of Chemical Engg organized AICTE sponsored STTP on Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education from 27<sup>th</sup> July to Aug 1<sup>st</sup>.</li> <li>The Dept of Chemical Engg organized AICTE sponsored STTP on Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education-Phase II from 24<sup>th</sup> August to 30<sup>th</sup> August.</li> </ul>																
3	Workshop	<p>The following staffs participated in online webinar conducted by SSN College of Engineering on 5<sup>th</sup> August titled Innovative Approaches to treat Palm Effluents.</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Name of the Staff</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ms B senthil Rathi</td> </tr> <tr> <td>2</td> <td>Ms Sivaranjane R</td> </tr> <tr> <td>3</td> <td>Ms S Geerthika</td> </tr> </tbody> </table> <p>The following staffs participated in online webinar conducted by SSN College of Engineering on 7<sup>th</sup> August titled Liquid Biphasic System as Recent Separation and Purification Pipeline.</p> <table border="1"> <thead> <tr> <th>S No</th> <th>Name of the Staff</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ms B senthil Rathi</td> </tr> <tr> <td>2</td> <td>Ms Sivaranjane R</td> </tr> <tr> <td>3</td> <td>Ms S Geerthika</td> </tr> </tbody> </table> <p>Ms Sivaranjane R participated in an online International webinar titled Non-Covalent Functionalization of graphene for Super capacitor organized by SSNCE on 12<sup>th</sup> August.</p>	S No	Name of the Staff	1	Ms B senthil Rathi	2	Ms Sivaranjane R	3	Ms S Geerthika	S No	Name of the Staff	1	Ms B senthil Rathi	2	Ms Sivaranjane R	3	Ms S Geerthika
S No	Name of the Staff																	
1	Ms B senthil Rathi																	
2	Ms Sivaranjane R																	
3	Ms S Geerthika																	
S No	Name of the Staff																	
1	Ms B senthil Rathi																	
2	Ms Sivaranjane R																	
3	Ms S Geerthika																	

**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	<p><b>Mrs.S.Banupriya, Ms.R.Ruthra &amp; Mr.P.SriBalaji</b> organised the following webinar series from August 6th -11th</p> <ul style="list-style-type: none"> <li>• <b>Industry 4.0 and the Future of Engineering</b> -6th August 2020</li> <li>• <b>Mechanics and Design of Composite Materials</b> -7th August 2020</li> <li>• <b>Engineering Design in Oil and Gas Industry</b> - 8th August 2020</li> <li>• <b>CoVID Pandemic Impact on Different Sectors and How Innovation Remains a key for Sustainable Business-</b> 9th August 2020</li> <li>• <b>What Future Holds for Us - Foresight Thought</b> -10th August 2020</li> <li>• <b>How to Crack Competitive Exams with Effective Methodology</b> -11th August 2020</li> </ul>
2.	STTP / Webinar Attended	<p><b>STP</b></p> <ul style="list-style-type: none"> <li>• <b>S.Banupriya</b>, has attended One Week Online Short Term Training programme on "Application of Remote Sensing in Soil and Groundwater Contamination Assessment" Organized by Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore from 3rd August to 8th August 2020.</li> <li>• <b>Sri Balaji.P, Ruthra . R</b> has attended a One Week Online Short Term Training programme on “Disaster Mitigation and Management” (Phase - 1) organized by Department of Civil Engineering, KPR Institute of Engineering and Technology from August 10-15, 2020.</li> <li>• <b>Ruthra R</b>, has attended One Week Online Short Term Training programme on "Application of Remote Sensing in Soil and Groundwater Contamination Assessment" Organized by Department of Civil Engineering, Sri Krishna College of Engineering and Technology, Coimbatore from 27th July to</li> </ul>

1st August 2020.

- **Adlin Rose.R** has attended AICTE sponsored six days short term training programme on Recent Advance in pavement material testing and design organized by Department of Civil Engineering, MNM Jain Engineering College, Chennai from 17-8-2020 to 22-8-2020

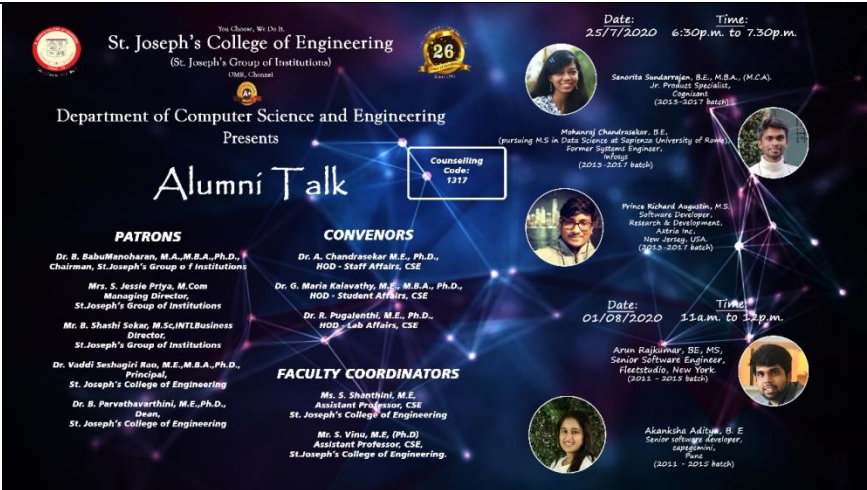
**WEBINAR**

- **S.Banupriya**, has attended webinar series titled on 'Landslide Disasters - Investigation to Mitigation' during August 04-08, 2020 organized by CSIR-CBRI, Roorkee.
- **S.Banupriya**, has attended webinar series titled 'Sustainable Green City using Geoinformatics' on 03 August, 2020 organized by Vidyavardhaka College of Engineering, Mysuru.
- **S.Banupriya**, has attended a webinar series titled 'Energy Geostructures and Sustainable Geotechnical Engineering' on 05 August, 2020 organized by Vidyavardhaka College of Engineering, Mysuru.
- **S.Banupriya**, has attended a webinar series titled 'Role of master plans in Urban Development' on 08 August, 2020 organized by GVP College of Engineering (Autonomous), Visakhapatnam
- **Mr.Thangaperumal S**, has participated in “NATIONAL REMOTE SENSING DAY CELEBRATION PROGRAM ON RECENT ADVANCES IN BHUVAN GEOPORTAL AND SATELLITE TECHNOLOGIES” on August 12th 2020 organized by Sathiyabama Institute of Science and Technology.
- **Mr.Thangaperumal S** has participated in Indo Australian Workshop on “Construction Projects Management with Innovative Tools & Techniques” organized by the Department of Civil Engineering, SRM Institute of Science & Technology, Ramapuram, Chennai-89, on 10th August 2020.
- **Mr. Thangaperumal S** has participated in Industry 4.0 and the Future of Engineering on 06-08-2020 organized by Mechanical and Civil Department, St.Joseph's College of

		<p>Engineering</p> <ul style="list-style-type: none"><li>● <b>Ms.Adlin Rose</b> has participated in Indo Australian Workshop on “Construction Projects Management with Innovative Tools &amp; Techniques” organized by the Department of Civil Engineering, SRM Institute of Science &amp; Technology, Ramapuram, Chennai-89, on 10th August 2020.</li><li>● <b>Ms.Adlin Rose</b> has participated in the webinar on : "The Transformation Needed from a 2G Civil Engineer to 5G Civil Engineer" conducted by Rajalakshmi Engineering College, Chennai on 8/8/2020.</li><li>● <b>Adlin Rose R,</b> has attended webinar series titled on 'Landslide Disasters - Investigation to Mitigation' during August 04-08, 2020 organized by CSIR-CBRI, Roorkee.</li><li>● <b>Ruthra R,</b> has participated in the webinar programme on “Cloudburst and Flood” organised by National Institute Of Disaster Management , Ministry of Home Affairs, in collaboration with India Meteorological Department.</li><li>● <b>Ruthra R,</b> has participated in the workshop on Fundamentals of CFD organised by Skill Lync.</li></ul>
--	--	--



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	Alumni Talk	<p>Date : 25.07.2020 – 01.08.2020            Venue : Online mode            Nature of Event : Webinar            Participants : Students            Time : 11.00 AM to 12.00 PM            Resource Person : Alumni students</p>  <p>The poster for the Alumni Talk event features a central graphic with the text 'Alumni Talk' and 'Counselling Code- 1317'. It lists several participants with their photos and details: Senoita Sundarajan (Jr. Product Specialist, Cognizant), Mihiranj Chandrasekar (Former System Engineer, Infosys), Princy Richard Augustin (Software Developer, Research &amp; Development, Airtel), Arun Rajakumar (Senior Software Engineer, Flexstudio, New York), and Anandika Aditya (Senior software developer, capgemini, Pune). The event is presented by the Department of Computer Science and Engineering at St. Joseph's College of Engineering, with a list of patrons, convenors, and faculty coordinators.</p>
2	Faculty Development Programme	<p>Date : 27.07.2020 to 03.08.2020            Venue : Online mode            Nature of event : Faculty development programme            Topic : Hospital Management            No. of Days : 8            Resource Person : Dr. Ramalakshmi Gugan            AM Business Strategy,            Kavery Group of Hospitals, Chennai            Mr.Sarto Rajendran            Managing Director            Guardian Management Services            Ms.D.Vamci Priyanga            Health care            SIMS Chennai</p> <p><b>Objective:</b></p> <ul style="list-style-type: none"> <li>To understand the fundamentals of hospital administration and management.</li> <li>To know the market related research process</li> <li>To explore various information management systems and relative supportive services.</li> <li>To learn the quality and safety aspects in hospital.</li> </ul>


**St. JOSEPH'S COLLEGE OF ENGINEERING**  
*Use of Skills To Make The Skills*  
**St. JOSEPH'S INSTITUTE OF TECHNOLOGY**  
*20th Anniversary 1998-2018*  
**St. JOSEPH'S GROUP OF INSTITUTIONS**  
*26th Anniversary 1994-2020*  
**Department of Computer Science and Engineering**  
(NBA Accredited)  
**Department of Information Technology**  
(NBA Accredited)  
 In Association with  
**CSI Kancheepuram Chapter**  
Organizes  
**Eight Days Faculty Development Programme on**  
**OBM752 - Hospital Management**

  
**Dr. Ramalakshmi Gugan,**  
AM Business Strategy,  
Survey Group of Hospitals.

  
**Mr. Sarto Rajendran**  
Managing Director  
Guardian Management Services Pvt. Ltd.  
Managing Trustee  
Guardian International School  
Chennai.

  
**Vamci Priyanga D**  
Health Care  
Professional & Soft Skills Trainer  
SIMS, Chennai.

**Time** 5.30pm to 7.30pm      **DATE** 27th July to 03 August 2020

<b>CHIEF PATRONS</b> <b>Dr. B. Babu Manoharan, M.A.M.B.A.Ph.D.</b> <small>Chairman, St. Joseph's Group of Institutions.</small> <b>Mrs. S. Jessie Priya, M.Com.</b> <small>Managing Director, St. Joseph's Group of Institutions.</small> <b>Mr. B. Shashi Sekar, M.Sc., M.T.S., Business Director.</b> <small>St. Joseph's Group of Institutions.</small>	<b>PATRONS</b> <b>Dr. Vaddi Seshagiri Rao, M.E., M.B.A., Ph.D.</b> <small>Principal, St. Joseph's College of Engineering.</small> <b>Dr. P. Ravichandran, M.Tech., Ph.D.</b> <small>Principal, St. Joseph's Institute of Technology.</small> <b>Dr. B. Parvathavarthini, M.Sc., M.B.A., M.E., Ph.D.</b> <small>Dean, St. Joseph's College of Engineering.</small>
<b>CONVENORS</b> <b>Dr. A. Chandrasekar, M.E., Ph.D.</b> <small>St. Joseph's College of Engineering</small> <b>Mrs. C. Lathaselvi, M.E., (Ph.D.)</b> <small>St. Joseph's College of Engineering</small> <b>Dr. J. Dafni Rose, M.E., Ph.D.</b> <small>St. Joseph's Institute of Technology</small> <b>Dr. S. Kalarani, M.E., Ph.D.</b> <small>St. Joseph's Institute of Technology</small>	<b>CO-ORDINATORS</b> <b>Dr. J. Sakthi</b> <small>St. Joseph's Institute of Technology</small> <b>Mr. M. Karthi</b> <small>St. Joseph's Institute of Technology</small> <b>Dr. J. Jean Justus</b> <small>St. Joseph's Institute of Technology</small> <b>Dr. M. Anuradha</b> <small>St. Joseph's Institute of Technology</small> <b>Dr. S. Saranathi</b> <small>St. Joseph's Institute of Technology</small> <b>Ms. P. Thilakavathi</b> <small>St. Joseph's College of Engineering</small>

**Registration Link**  
<https://forms.gle/C16VV9E15d1vvnEa39>      E-Mail : sakthi.ulaganathan@gmail.com  
 Contact No : 7388512784 / 9940111231

**Outcome:**

- Explain the principles of Hospital administration.
- Identify the importance of Human resource management.
- List various marketing research techniques.
- Identify Information management systems and its uses.
- Understand safety procedures followed in hospitals

3 Brain Teaser Riddles – Quiz Programme

Date : 01.08.2020 – 07.08.2020

Venue : Online mode

Nature of Event : Quiz Programs

Participants : Higher secondary and polytechnic students

Organizer : Faculty members

**Objective:** To engage the students during the COVID19 lockdown period this event was conducted. A quiz is a game which can also be called a mind sport wherein the players, either as individuals or in teams attempt to answer questions posed to them correctly, in order to win a prize

**Outcome:** Around 100 students are participated in the event.

- Quizzes improve or expanding one's knowledge of things, either general or in specific area
- It promotes a healthy debate amongst participants in order to learn from each other

*You Choose, We do It.*  
**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 (St. Joseph's Group of Institutions)  
 OMR, CHENNAI-19

Since 1963

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
 presents  
**Brain-Teaser Riddles - Online Quiz**

**No Registration fee**

Exclusive for 11<sup>th</sup>, 12<sup>th</sup>, polytechnic & college students  
 E-certificate will be provided for students scoring above 50%  
 The link will be available from 01-08-2020 to 07-08-2020

Click here to Connect : <https://forms.gle/veX6peaXKTykiNer5>

**Patrons**  
 Dr. B. Babu Manoharan M.A., M.B.A., Ph.D  
 Chairman, St. Joseph's Group of Institutions  
 Mrs. S. Jessie Priya M.Com  
 Managing Director, St. Joseph's Group of Institutions  
 Mr. B. Shashi Sekar M.Sc  
 Director, St. Joseph's Group of Institutions  
 Dr. Vaddi Seshagiri Rao M.E., MBA, Ph.D  
 Principal  
 Dr. B. Parvathavarthini M.E., Ph.D  
 Dean (Research)

**Convener**  
 Dr. A. Chandrasekar, M.E., Ph.D  
 HOD-CSE-Staff Affairs  
 Dr. G. Mariakalavathy, M.E., Ph.D  
 HOD-CSE-Student Affairs  
 Dr. R. Pugalenth, M.E., Ph.D  
 HOD-CSE-Lab Affairs

**Organizer**  
 Ms. S. Janani, M.E  
 Assistant Professor

- Aiding to relieve the tension of the daily work routine
- Quiz competitions even help build the student's soft skills

4 "Devops Engineering Practices" – FDP Programme

Date : 10.08.2020 to 12.08.2020

Venue : Online mode

Nature of event : Faculty development programme

Topic : Hospital Management

No. of Days : 8





Resource Person : Ms. Akshaya Suresh  
 Devops Engineer, Visa Inc  
 Austin, TX

**Objective:**

Today almost everything is getting "automated". Repetitive tasks are replaced with machines / code. Methods are being devised to address and minimise the defects and bugs in any system. Methods to minimise human error are being devised. The issues in the software development cycle are being addressed. DevOps is an umbrella concept which deals with anything to smooth out the process from development to deployment into production.

**Outcome:**

- Improve deployment frequency
- Achieve faster time to market
- Lower failure rate of new releases
- Shorten lead time between fixes
- Improve mean time to recovery

	 <p><b>St. JOSEPH'S COLLEGE OF ENGINEERING</b> (St. Joseph's Group of Institutions) OMR, Chennai - 600 119</p>  <p><b>DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING</b> <i>Organizes</i></p> <p><b>3 Days Online Faculty Development Programme</b> on <b>"DevOps Engineering Practices"</b></p>  <p>Akshaya Suresh DevOps Engineer, Visa Inc Austin, TX</p>  <p>August 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> 11 AM TO 12PM</p> <p><b>PATRONS</b></p> <p>Dr. B. Babu Manoharan, M.A, M.B.A, Ph.D Chairman, St. Joseph's Group of Institutions</p> <p>Mrs. B. Jessie Priya, M.Com Managing Director, St. Joseph's Group of Institutions</p> <p>Mr. B. Shashi Sekar, M.Sc Director, St. Joseph's Group of Institutions</p> <p>Dr. Vaddi Seshagiri Rao, M.E., M.B.A., Ph.D Principal</p> <p>Dr. B. Paravatharthini, M.E., Ph.D Dean</p> <p><b>CONVENORS</b></p> <p>Dr. A Chandrasekar, M.E., Ph.D HOD - Staff Affairs, Department of CSE</p> <p>Dr. G Mariakalavathy, M.E., M.B.A., Ph.D HOD - Student Affairs, Department of CSE</p> <p>Dr. R Pugalenthj, M.E., Ph.D HOD - Lab Affairs, Department of CSE</p> <p><b>FACULTY COORDINATORS</b> Department of CSE</p> <p>Mr. N Manikandan, M.E., (Ph.D) Assistant Professor</p> <p>Mr. P Naveen, M.E., (Ph.D) Assistant Professor</p> <p>Mr. P Varun, M.Tech., (Ph.D) Assistant Professor</p>	
5	Block Chain Technology – Webinar	Date : 14.08.2020 Venue: Online

**St. Joseph's College of Engineering**  
St. Joseph's Group of Institutions  
OMR, Chennai 600119

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

In Association with Pantech E-Learning organizes  
**Webinar On**  
**BLOCKCHAIN TECHNOLOGY**

14-08-2020  
4:00pm-5:00pm

REGISTRATION LINK: <https://forms.gle/4c4D586XYN3yGJw5>  
LIVE WEBINAR: <https://bit.ly/3coC5DM>

\*Free Registration  
\*E-Certificate will be provided

**PATRONS**  
Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D.,  
Chairman,  
St. Joseph's Group of Institutions  
Mrs. S. Jessie Priya, M.Com.,  
Managing Director,  
St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar, M.Sc., INTL. BUSINESS,  
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  
Dr. B. Parvathavarthini, M.E., Ph.D.,  
Dean, St. Joseph's College of Engineering

**CONVENOR**  
Dr. G. Maria Kalavathy, M.E., M.B.A., Ph.D.,  
HOD-Student Affairs, CSE

**PROGRAM ADVISORS**  
Dr. A. Chandrasekar, M.E., Ph.D.,  
HOD-Staff Affairs, CSE  
Dr. R. Pugazhthi, M.E., Ph.D.,  
HOD-Lab Affairs, CSE

**COORDINATORS**  
All CSE Department Staff Members

Nature of Event : Webinar  
Time : 4.00PM – 5.00PM  
Participants: students and faculties

**Objective:**

- To understand what Blockchain is and why it is used
- To be able to explain the different components involved within Blockchain
- To know when and why you may want to use Blockchain within your environment
- To master at a high level what cryptocurrency is

**Outcome:**

- Identified the area in which the block chain technology were used
- Understand the components of the block chain technology
- How to use and the role of cryptocurrency

6  
"Hope" – Motivational Talk

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

Department of Computer Science and Engineering  
Organizes  
**Motivational Talk**  
on  
**HOPE**

16<sup>th</sup> August 2020  
10.00 PM – 11.00 PM

Counseling Code:  
1317

**Mr. ARJUN SUBBURAM**  
Project Engineer – San Francisco, CA  
Vice President – Hotstar/Saregama Caravan/Sling – West & Central USA  
Managing Executive – Universal Construction - Madurai

**PATRONS**  
Dr. B. BABUMANOHRAN, M.A., M.B.A., Ph.D.,  
Chairman, St. Joseph's Group of Institutions  
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., INTL Business  
Director,  
St. Joseph's Group of Institutions  
Dr. B. Parvathavarthini, M.E., Ph.D.,  
Dean,  
St. Joseph's College of Engineering

**CONVENORS**  
Dr. A. Chandrasekar, M.E., Ph.D.,  
Dr. G. Maria Kalavathy, M.E., Ph.D.,  
Dr. R. Pugazhthi, M.E., Ph.D.,  
Dr. J. Ramya, M.E., Ph.D.,  
Dr. B. Uma Maheswari, M.E., Ph.D.,

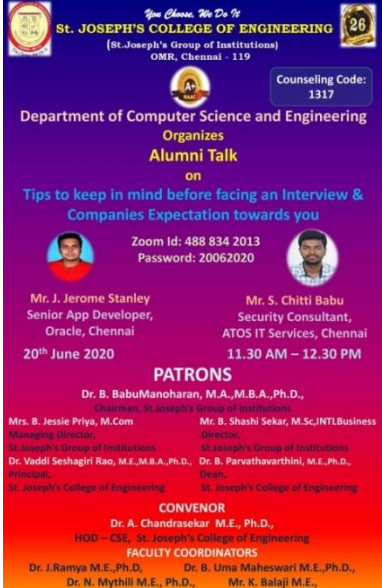
**FACULTY COORDINATOR**  
Dr. J. Ramya, M.E., Ph.D.,  
Dr. B. Uma Maheswari, M.E., Ph.D.,

Date : 16.08.2020  
Venue : Online mode  
Nature of event: Motivational Talk  
Participants : Students  
Resource Person : Mr. Arjun Subburam,  
Project Engineer,  
San Francisco, CA


**Objective:**


The ultimate goal of a motivational speaker is to change people profoundly on an emotional and/or mental level, and to help them make some kind of professional or personal change in their lives and within themselves. People naturally tend to focus on all their problems, and the motivational speaker will help an audience to focus on the many opportunities instead, by using any number of persuasive speech tactics to inspire and motivate



7	<p>“Interview Preparation for final year students” - Webinar</p> 	<p>Date : 20.08.2020  Venue : Online mode  Nature of Event : Webinar  Participants : Students  Time : 12.00 PM Noon to 1.00 PM  Resource Person : Mr. Anand Sular Murugan  Consultant Scrum master  UBank</p> <p><b>Objective:</b>  The main aim of this programme is to make the student industry ready by giving tips for how to prepare for interviews and how to crack interviews.</p> <p><b>Outcome:</b> The students are interactively participated and cleared their doubts.</p>

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


S.No	Events	remarks
July 2020		
1	<p style="text-align: center;"><b>FACULTY DEVELOPMENT PROGRAM</b></p> 	<p style="color: red; font-weight: bold;">Criteria 6</p> <p><b>Dr. M.Ramesh Babu</b></p> <ul style="list-style-type: none"> <li>➤ Attended a AICTE sponsored online STTP on Modelling and Simulation of renewable energy systems using MATLAB, from 03/08/2020 to 08/08/2020, organized by Dept of EEE, MNM Jain Engineering College.</li> </ul> <p><b>Dr.V.Krishna kumar</b></p> <ul style="list-style-type: none"> <li>➤ Attended Six Days Online AICTE Sponsored STTP on “Machine Learning and IoT for Industrial Applications” during 27/July/2020 to 01/Aug/2020, organized by Dr. N.G.P Institute of Technology, Coimbatore.</li> <li>➤ Participated in AICTE sponsored online STTP on “Mitigation of power quality issues in distributed generation systems using custom power devices-I” from July 20th - 25th, 2020, organized by R.M.D Engineering College, Chennai.</li> </ul> <p><b>Ms.R.G.Nirmala</b></p> <ul style="list-style-type: none"> <li>➤ Attended 6 days short term training program on EC8391 Control Systems Engineering from 06/08/2020-12/08/2020 organized by Amrita College of Engineering and Technology, Nagercoil.</li> </ul> <p><b>Mr. H Umesh Prabhu</b></p> <ul style="list-style-type: none"> <li>➤ Attended AICTE Sponsored STTP “ Challenges in Electric Vehicular Battery Charging and grid Integration Issues” organized by RajivGandhi Memorial College of Engineering and Technology, AP from 03rd Aug 2020 to 08th Aug 2020</li> </ul> <p><b>Mr.T.Sriananda Ganesh</b></p> <ul style="list-style-type: none"> <li>➤ Attended Five Days Short Term Course on “Power Electronics Application in Smart Grid and Electric Vehicles” organized by Sri Ramakrishna Engineering College, Coimbatore from 03.08.2020 to 07. 08. 2020</li> </ul>

		<p><b>Mr.V.Balasubramanian</b></p> <ul style="list-style-type: none"> <li>➤ Attended a four day FDP on applications of mathematics on engineering from 25.08.2020 to 28.08.2020 conducted by KPR institute of engineering and technology. Coimbatore.</li> <li>➤ Participated in one week international FDP on APPLICATION AND IMPLEMENTS OF MATHEMATICS from 17th august to 23rd august conducted by Hindusthan college of ENGG. and Technology coimbatore.</li> </ul> <p><b>Dr.P.Anbarasan</b></p> <ul style="list-style-type: none"> <li>➤ Participated in ATAL Academy sponsored FDP on “Robotics” from 24-08-2020 to 28-08-2020 organised by Chennai Institute of Technology</li> </ul>
2		<p style="text-align: right;"><b>Criteria 6</b></p> <p><b>Dr T V Narmadha</b></p> <ul style="list-style-type: none"> <li>➤ Participated in the five days STP on “recent trends &amp; challenges in smart grid technology” organized by sri Ramakrishna engineering college during august 17th to 21st,2020</li> <li>➤ Participated in the AICTE sponsored six day online STTP on “novel design &amp; control strategies and innovative technical practices in LV/HV modern switchgear from 15.07.2020 to 21.07.2020 organised by saranathan college of engineering.</li> <li>➤ Participated in the one week online STTP on optimization techniques through machine learning for IOT” organized by malla reddy engineering college for women during 27th july to 1st august 2020.</li> </ul> <p><b>Dr. M.Ramesh Babu</b></p> <ul style="list-style-type: none"> <li>➤ Participated in the webinar on Fault Diagnosis in Wind Energy Systems using Machine Learning, organized by Dept of EEE, SSN college of Engineering.</li> <li>➤ Participated in the webinar on Automation using Programmable Logic Controller organized by the Department of Electronics and Communication</li> </ul>

		<p>Engineering, Hindusthan Institute of Technology, Coimbatore on 18.08.2020.</p> <ul style="list-style-type: none"> <li>➤ Participated in the webinar on "Rural Development with people's participation" organized by Sri Eshwar College of Engineering on 25th august 2020.</li> <li>➤ Participated in the webinar on "Basics of Polymer Photovoltaics" organized by Sri Eshwar College of Engineering on 26th august 2020.</li> <li>➤ Participated in the webinar on "Building a successful Research Career in Academia" organized by Sri Eshwar College of Engineering on 27th august 2020.</li> </ul> <p><b>Dr.M.Venmathi</b></p> <ul style="list-style-type: none"> <li>➤ Attended a webinar on "Challenges and opportunities for engineers in electric vehicle design and development" conducted on 7th Aug 2020 organized by JAIN University, Bengaluru.</li> <li>➤ Attended a webinar on "Automation using Programmable Logic Controller" organised by Hindustan Institute of Technology on 18.08.2020</li> <li>➤ Attended a webinar on "Cyber Virus that look his path with corona Virus-A Disaster Journey of Malicious Malware in the ASEAN Countries" Organised by IFERP on 15th August 2020</li> </ul> <p><b>Dr.V.Krishna kumar</b></p> <ul style="list-style-type: none"> <li>➤ Attended a webinar on " Challenges and opportunities for engineers in electric vehicle design and development" conducted on 7th Aug 2020 organized by JAIN University, Bengaluru.</li> <li>➤ Attended a one week online STP on "Electric vehicles : challenges and opportunities" by sagar institute of research and technology, Bhopal, 24<sup>th</sup> -29<sup>th</sup> august 2020.</li> </ul> <p><b>Mr.S.Sridharan</b></p> <ul style="list-style-type: none"> <li>➤ Participated in the virtual webinar on "Role of lasers in defence" organized by the St.Joseph's College of Engineering on 18/08/2020</li> </ul>
--	--	--

		<ul style="list-style-type: none"> <li>➤ Participated in the Webinar on “Automation using Programmable Logic Controller”, organized by the Department of Electronics and Communication Engineering, Hindusthan Institute of Technology, Coimbatore on 18.08.2020.</li> <li>➤ Participated in the 2 days Online Workshop on the topic "Artificial Intelligence using MATLAB" , organized by the Department of Electrical and Electronics Engineering of St.Joseph's College of Engineering on 13th and 14th, August, 2020</li> <li>➤ Participated in the Two Days Workshop on “Personal Safety and Protection of children from sexual abuse' &amp; "Online safety for Children and adults”organised by the P.G College, Anantapuramu on 20-8-2020.</li> </ul> <p><b>Ms.R.G.Nirmala</b></p> <ul style="list-style-type: none"> <li>➤ Attended a webinar on Solar PV System design on 19/08/2020 organized by Pantech Solutions.</li> </ul> <p><b>Mr. C.Venkatesh Kumar</b></p> <ul style="list-style-type: none"> <li>➤ Attended a webinar on “ Challenges and opportunities for engineers in electric vehicle design and development” conducted on 7th Aug 2020 organized by JAIN University, Bengaluru.</li> </ul> <p><b>Mr.T.Sriananda Ganesh</b></p> <ul style="list-style-type: none"> <li>➤ Attended a Webinar on “Challenges and Opportunities for Engineers in Electric Vehicles Design &amp; Development” organized by JAIN(Deemed- to- be University), Bengaluru on 07.08.2020.</li> <li>➤ Attended a Webinar on “Automation Using Programmable Logic Controller” organized by HindusthanInstitute of Technology, Coimbatore on 18.08.2020.</li> <li>➤ Attended Two Days Workshop on “Personal Safety and Protection of Children from Sexual abuse &amp; Online safety for Children and Adults” organized by Sri Vani Degree and PG College, Andhra Pradesh on 20.08.2020.</li> </ul>
--	--	---



		<p><b>Ms.S.Gomathi</b></p> <ul style="list-style-type: none"> <li>➤ Attended webinar on “Automation using Programmable Logic Controller”, organized by Hindusthan Institute of Technology, Coimbatore on 18.08.2020.</li> </ul> <p><b>Mr.V.Balasubramanian</b></p> <ul style="list-style-type: none"> <li>➤ Attended one day national level webinar on “TIME SCALE A SURVEY WITH ANALYSIS” on 2nd August conducted by KAUVERY college of ARTS and SCIENCE Tiruchy.</li> <li>➤ Attended one day webinar on Why Does Ramanujan, The Man Who Knew Infinity, Matter?” on 24th August conducted by BANNARI AMMAN INSTITUTE OF TECHNOLOGY. ERODE</li> </ul> <p><b>Dr. A.Jamna</b></p> <ul style="list-style-type: none"> <li>➤ Attended a Six day AICTE sponsored Short Term Training Program (STTP) on "Modeling and Simulation of Renewable Energy Systems using MATLAB" from 03.08.2020 to 08.08.2020 organized by Department of Electrical and Electronics Engineering, MisrimalNavajeeMunoth Jain Engineering College, Chennai, Tamil Nadu.</li> </ul>
3		<p style="text-align: right;"><b>Criteria 6</b></p> <p><b>Dr. M.Ramesh Babu</b></p> <ul style="list-style-type: none"> <li>➤ completed a short course on "Learn to Design your own Solar Home System", conducted by Energy Literacy Drive of the Energy Swaraj Foundation.</li> </ul>

<p>4</p>	<p>International Journal of Electrical and Computer Engineering (IJECE) Vol. 10, No. 6, December 2020, pp. 6268–6275 ISSN: 2088-8708, DOI: 10.11591/ijece.v10i6.pp6268-6275 □ 6268</p> <p><b>MPPT oscillations minimization in PV system by controlling non-linear dynamics in SEPIC DC-DC converter</b></p> <p>M. Vaigundamoorthi<sup>1</sup>, R. Ramesh<sup>2</sup>, V. Vasana Prabhu<sup>3</sup>, K. Arul Kumar<sup>4</sup>  <sup>1,4</sup>Department of Electrical and Electronics Engineering, Madanapalle Institute of Technology and Science, India  <sup>2</sup>Department of Electrical and Electronics Engineering, CEG, Anna University, India  <sup>3</sup>Department of Electrical and Electronics Engineering, St. Joseph's College of Engineering, India</p> <hr/> <p><b>Article Info</b>                      <b>ABSTRACT</b></p> <p><b>Article history:</b> Received Feb 27, 2019 Revised May 2, 2020 Accepted Jun 17, 2020</p> <hr/> <p><b>Keywords:</b> Adaptive controller Chaos MPPT SEPIC converter Solar PV module</p> <p>Solar PV power generation has achieved rapid growth in developing countries which has many merits such as absence of noise, longer life, no pollution, less time for installation, and ease of grid interface. A maximum power point tracking circuit (MPPT) consists of DC-DC power electronics converters that are used to improve the energy attainment from solar PV array. This paper presents a detailed analysis to control of chaos, a non-linear dynamic in SEPIC DC-DC converter interfaced solar PV system, to minimize the oscillations near to MPP. In SEPIC DC-DC converter, the input inductor current is continuous and capable of sweeping the whole I-V curve of a PV module from open circuit voltage (<math>V_{oc}</math>) to short circuit current (<math>I_{sc}</math>) operating points. To trace the true maximum power point and to nullify the oscillations near to MPP, the yield output voltage needs to ensure period-1 operation.</p> <p style="text-align: right;"><i>Copyright © 2020 Institute of Advanced Engineering and Science. All rights reserved.</i></p> <p style="text-align: center;"><b>PIC: journal screen short</b></p>	<p style="text-align: right;"><b>Criteria 3.3.4 &amp; 3.3.5</b></p> <p>➤ Our staff Member Dr Vasana Prabhu published “MPPT oscillations minimization in PV system by controlling non-linear dynamics in SEPIC DC-DC Converter” in International Journal of Electrical and computer engineering (IJECE) Vol. 10, No. 6, Dec2020 pp6268-6275</p>
<p>5</p>	<p>WSEAS TRANSACTIONS ON POWER SYSTEMS DOI: 10.37394/232016.2020.15.4                      D. Harini, M. Ramesh Babu, C. Venkatesh Kumar</p> <p><b>LP based solution for Security Constrained Optimal Power Flow including Power Routers</b></p> <p>D.HARINI, M.RAMESH BABU, C.VENKATESH KUMAR Department of Electrical and Electronics Engineering St. Joseph's College of Engineering OMR, Chennai, Tamilnadu, INDIA harinichandran.5293@gmail.com, rameshbabum@stjosephs.ac.in, venkateshceg@gmail.com</p> <p><b>Abstract:</b> - Power Routers offers many benefits to the power system, it helps in improving the existing transmission asset utilization. Security Constrained Optimal Power Flow (SCOPF) is becoming more important in the electrical power system especially in the present deregulated environment. This paper focuses on completely linearizing the complex non-linear SCOPF problem. The objective function is linearized using Piecewise linearization technique and the constraints are framed using linear sensitivity factors. A formal extension is made to the traditional SCOPF by including power router control in the post contingency time frame. DC power flow analysis is used to calculate the real power flow in the lines. Thus, in this paper, further minimization of cost is achieved by using Power Router control and it is compared with the conventional SCOPF.</p> <p><b>Key-Words:</b> - Power Routers, Security Constrained Optimal Power Flow, Linear Programming, Sensitivity factors.</p> <p style="text-align: center;"><b>PIC: journal screen short</b></p>	<p style="text-align: right;"><b>Criteria 3.3.4 &amp; 3.3.5</b></p> <p>➤ Our staff Members Dr M Ramesh Babu, Mr.C.Venkatesh Kumar published “LP based solution for security constrained optimal power flow including power routers” in WSEAS TRANSACTIONS on POWER SYSTEMS DOI: 10.37394/232016.2020.15.4</p>

6 Evolving Systems  
<https://doi.org/10.1007/s12530-020-09333-6>

ORIGINAL PAPER

**Grasshopper optimization algorithm utilized Xilinx controller for maximum power generation in photovoltaic system**

B. V. Kalyan Ram<sup>1</sup> · N. Chidambaraj<sup>2</sup>

Received: 9 May 2019 / Accepted: 17 February 2020  
 © Springer-Verlag GmbH Germany, part of Springer Nature 2020

**Abstract**  
 A novel Grasshopper Optimization (GOA) based Xilinx System Generator (XSG) controller is proposed for the purpose of evaluating the Maximum Power Point Tracking in the grid integrated Photovoltaic (PV) power generation system. The proposed controller functions with the assistance of the GOA algorithm and the XSG procedures. The innovation of the controller is intended to collect the maximum power produced from the PV array in accordance with the solar irradiance and temperature of the array. The proposed GOA algorithm based XSG controller is achieved by maximum power from the PV array, it is necessary to adjust the switching signal for the voltage source inverter (VSI). The proposed PV structure is elegantly designed in the mighty platform of the MATLAB/Simulink and the switching schemes are produced in accordance with the XSG controller. At last, the output response of the presented GOA based XSG controller is analyzed and compared with conventional techniques such as the Particle Swarm Optimization (PSO) and the Artificial Bee Colony (ABC) algorithms.

**Keywords** Photovoltaic array · Maximum power point tracking · Grasshopper optimization algorithm · Xilinx system generator controller · Voltage source inverter · Particle swarm optimization · Artificial bee colony

**Criteria 3.3.4 & 3.3.5**

➤ Our staff Members Dr N Chidambaraj published “Grasshopper optimization algorithm utilized Xilinx controller for maximum power generation in photovoltaic system” in Springer Evolving Systems <https://doi.org/10.1007/s12530-020-09333-6>

7

**PIC: journal screen short**

**PIC: webinar poster**

**Criteria 1**

Our department staff Dr.P.Anburasan presented webinar on “Time response analysis” organized by AMRITA college of Engineering and technology on 08/08/2020

8

**PIC: JAW BREAKERS event poster**

➤ Our department of EEE organized The JAW BREAKERS for 10 Days which was held from 03.08.2020 to 12.08.2020. Participants from various Schools, Colleges and Institutions took part in this event. Tongue Twister aid Language development and boost our vocabulary knowledge in day to day life and quiz will improve their Knowledge. Events like this help people to relax their mind and engage in useful activities that help people to get away from the negativity of pandemic situation.

9

**PIC: SDP poster**

Our department of EEE organized Students Development Program for our students “WEB DEVELOPMENT ROAD MAP 2020 ” by our ARANGAN RISHIKESH T, 3yr EEE on 03/08/2020.

10

PIC: SDP poster

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
ST. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

IEEE | nif | 100% RANK IN ENGINEERING STREAM | NBA ACCREDITED SINCE 2003

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**STUDENT DEVELOPEMENT PROGRAM SEASON 2**

**Sensor selection for different applications**

**AAKANKSHA SINGH**  
2ND YEAR  
Interested in Automation | Designed Sensor based projects

**AARTHI N T**  
2ND YEAR  
Automation enthusiast | Implemented sensor applications in projects

**AUGUST 4**  
**6 PM**

**Agenda**

**Free Registration**  
<https://bit.ly/SSFDA>

**Patrons:**  
Dr. B. Babu Manoharan  
M.A., M.B.A., Ph.D., CHAIRMAN  
Mrs. S. Jessie Priya  
M.Com., MANAGING DIRECTOR  
Mr. B. Shashi Sekar  
M.Sc., DIRECTOR

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

**Student Coordinators:**  
Dr. V. Vaidi Seshagiri Rao  
M.E., M.B.A., Ph.D., PRINCIPAL  
Dr. B. Parvathavarthini  
M.Sc., M.B.A., M.E., Ph.D., DEAN

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

**Staff Coordinators:**  
Ms. S. Geemathi  
Assistant Professor/EEE  
Mr. Venkatesh Kumar, C  
Assistant Professor/EEE  
Ms. Sumitha M  
Assistant Professor/EEE

**Student Coordinators:**  
D. Divya  
IV Year  
S Arun Kumar  
IV Year  
P. Divyini  
IV Year

IEEE SJCE SBC | IEEE SJCE SB

Our department of EEE organized Students Development Program for our students “SENSOR SELECTION FOR DIFFERENT APPLICATIONS” by our AAKANKSHA SINGH & AARTHI N T of 3yr EEE on 04/08/2020.

11

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
ST. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

IEEE | nif | 100% RANK IN ENGINEERING STREAM | NBA ACCREDITED SINCE 2003

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**PROUDLY PRESENTS**

**STUDENT DEVELOPEMENT PROGRAM SEASON 2**

**How to get started with AI and Robotics**

**SUDHARSHAN S J**  
4TH YEAR  
IEEE - Chair | Robotics Enthusiast with sound knowledge in AI

**AUGUST 5**  
**6 PM**

**Agenda**

**Free Registration**  
<http://tiny.cc/airob>

**Patrons:**  
Dr. B. Babu Manoharan  
M.A., M.B.A., Ph.D., CHAIRMAN  
Mrs. S. Jessie Priya  
M.Com., MANAGING DIRECTOR  
Mr. B. Shashi Sekar  
M.Sc., DIRECTOR

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

**Student Coordinators:**  
Dr. V. Vaidi Seshagiri Rao  
M.E., M.B.A., Ph.D., PRINCIPAL  
Dr. B. Parvathavarthini  
M.Sc., M.B.A., M.E., Ph.D., DEAN

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

**Staff Coordinators:**  
Ms. S. Geemathi  
Assistant Professor/EEE  
Mr. Venkatesh Kumar, C  
Assistant Professor/EEE  
Ms. Sumitha M  
Assistant Professor/EEE

**Student Coordinators:**  
D. Divya  
IV Year  
S Arun Kumar  
IV Year  
P. Divyini  
IV Year

IEEE SJCE SBC | IEEE SJCE SB

PIC: SDP poster

Our department of EEE organized Students Development Program for our students “HOW TO GET STARTED WITH AI AND ROBOTICS” by our SUDHARSHAN S J on 05/08/2020.



12

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
PROUDLY PRESENTS

**STUDENT DEVELOPEMENT PROGRAM SEASON 2**

**A Gist of Simulation Softwares**

**KAVITHA R**  
4TH YEAR  
Electrical club vice president | Active member in IAS Society | Placed in Cognizant placed

**AUGUST 6 7 PM**

**Agenda**

1. What is Simulation?
2. Various Simulation softwares
3. Overview of proteus

**Free Registration**  
<https://bit.ly/SIMSOF20>

**E-Certificates will be provided**

**PATRONS**  
Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D. CHAIRMAN  
Mrs. S. Jessie Priya, M.Com. MANAGING DIRECTOR  
Mr. B. Shashi Sekhar, M.Sc. DIRECTOR

**Staff Coordinators**  
Ms. S. Gomathi, Assistant Professor/EEE  
Mr. Venkatesh Kumar, C Assistant Professor/EEE  
Ms. Sumithra M Assistant Professor/EEE

**Students Coordinators**  
D. Durga, II Year  
S Arun Kumar, IV Year  
P Sowand, IV Year

**Convenor**  
Dr. Jayarama Pradeep M.E., Ph.D Professor & Head - Staff Affairs  
Dr. T.V. Nalmadha M.E., Ph.D Professor & Head - Lab Affairs

IEEE SJCE SB | IEEE SJCE SBC | IEEE SJCE SB

PIC: SDP poster

Our department of EEE organized Students Development Program for our students “A GIST OF SIMULATION SOFTWARES” by our KAVITHA on 06/08/2020.

13

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
PROUDLY PRESENTS

**STUDENT DEVELOPEMENT PROGRAM SEASON 2**

**BEAT 2020**

**HARITHA S**  
IV YEAR  
Digital Marketing Enthusiast | Aspiring Business Woman | Placed in MNCs

**AUGUST 7 6 PM**

**AGENDA**

1. What is happening around us ?
2. Consequence of Major issues
3. How to combat all of this uncertainty ?

**Free Registration**  
<https://bit.ly/b2e0a2t0>

**E-CERTIFICATES WILL BE PROVIDED**

**PATRONS**  
Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D. CHAIRMAN  
Mrs. S. Jessie Priya, M.Com. MANAGING DIRECTOR  
Mr. B. Shashi Sekhar, M.Sc. DIRECTOR

**Staff Coordinators**  
Ms. S. Gomathi, Assistant Professor/EEE  
Mr. Venkatesh Kumar, C Assistant Professor/EEE  
Ms. Sumithra M Assistant Professor/EEE

**Students Coordinators**  
D. Durga, II Year  
S Arun Kumar, IV Year  
P Sowand, IV Year

**Convenor**  
Dr. Jayarama Pradeep M.E., Ph.D Professor & Head - Staff Affairs  
Dr. T.V. Nalmadha M.E., Ph.D Professor & Head - Lab Affairs

IEEE SJCE SB | IEEE SJCE SBC | IEEE SJCE SB

PIC: SDP poster

Our department of EEE organized Students Development Program for our students “BEAT 2020” by our HARITHA S on 07/08/2020.

14

St. JOSEPH'S COLLEGE OF ENGINEERING  
ST. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

IEEE ACCREDITED  
NBA ACCREDITED SINCE 2003

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
PROUDLY PRESENTS

**STUDENT DEVELOPMENT PROGRAM SEASON 2**

**Logical Reasoning**

**SRINIDHI R**  
4TH YEAR  
IEEE IAS Chairman|GEN Ambassador|Math solver|IOT Enthusiast|Designer

AUGUST 8 6 PM

**Agenda**

1. Easy solving
2. Time Management
3. Shortcuts

Free Registration  
<https://bit.ly/LOGREAS>

E-Certificates will be provided

**PATRONS**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D., CHAIRMAN  
Dr. Vaidi Seshagiri Rao M.E., M.B.A., Ph.D., PRINCIPAL  
Dr. R. Parvathavarthini M.Sc., M.A., M.L.D. DEAN

**CONVENOR**  
Mrs. S. Jesurajitha M.COM, MANAGING DIRECTOR  
Mr. B. Shashi Sekar M.B.A., DIRECTOR

**Staff Coordinators**  
Mrs. S. Jesurajitha M.COM, Professor & Head - Staff Affairs  
Mr. Venkatesh Kumar C Assistant Professor  
Ms. Subitha M Assistant Professor

**Student Coordinators**  
Dr. Pooja M.Tech, 1st Year  
Dr. Prashanth P, 2nd Year  
Dr. Prashanth P, 3rd Year  
Dr. Prashanth P, 4th Year

IEEE SJBCE BB

PIC: SDP poster

Our department of EEE organized Students Development Program for our students “Logical Reasoning” by our Srinidhi R on 08/08/2020.

15

St. JOSEPH'S COLLEGE OF ENGINEERING  
ST. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

IEEE ACCREDITED  
NBA ACCREDITED SINCE 2003

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
PROUDLY PRESENTS

**STUDENT DEVELOPMENT PROGRAM SEASON 2**

**Electric Vehicle - An Outlook**

**DHIVYA D**  
4TH YEAR  
Placed as Assistant System Engineer in TATA Consultancy|Volunteer|Hard Worker

AUGUST 10 6 PM

**Agenda**

1. Electric Vehicle and it's Basics
2. Electric Vehicle Battery Technology
3. BMS - A Thrust

Free Registration  
<https://bit.ly/ELECHILE>

E-Certificates will be provided

**PATRONS**  
Dr. B. Babu Manoharan M.A., M.B.A., Ph.D., CHAIRMAN  
Dr. Vaidi Seshagiri Rao M.E., M.B.A., Ph.D., PRINCIPAL  
Dr. R. Parvathavarthini M.Sc., M.A., M.L.D. DEAN

**CONVENOR**  
Mrs. S. Jesurajitha M.COM, Professor & Head - Staff Affairs  
Mr. B. Shashi Sekar M.B.A., DIRECTOR

**Staff Coordinators**  
Mrs. S. Jesurajitha M.COM, Professor & Head - Staff Affairs  
Mr. Venkatesh Kumar C Assistant Professor  
Ms. Subitha M Assistant Professor



**Student Coordinators**  
Dr. Pooja M.Tech, 1st Year  
Dr. Prashanth P, 2nd Year  
Dr. Prashanth P, 3rd Year  
Dr. Prashanth P, 4th Year

IEEE SJBCE BB

PIC: SDP poster

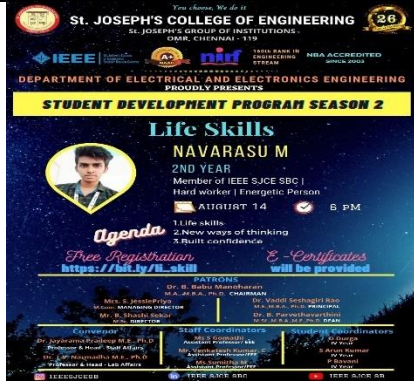
Our department of EEE organized Students Development Program for our students “Electric Vehicle an outlook ” by our Dhivya D on 10/08/2020.



16	 <p><b>PIC: SDP poster</b></p>	<p>Our department of EEE organized Students Development Program for our students “Work Towards Reality” by our Karunya D, Kanagapriya S on 11/08/2020.</p>
17	 <p><b>PIC: SDP poster</b></p>	<p>Our department of EEE organized Students Development Program for our students “Fitness and Motivation” by our Jerish salwin, Jayanth vardhan on 12/08/2020.</p>
18	 <p><b>PIC: SDP poster</b></p>	<p>Our department of EEE organized Students Development Program for our students “Importance of soft skills” by our Refayee farith k on 13/08/2020.</p>

PIC: SDP poster

19





Our department of EEE organized Students Development Program for our students “Life skills” by our Navarasu M on 14/08/2020.

20



Our Department of Electrical and Electronics Engineering organized The Sudoku Game for 2 weeks which was held from 22.07.2020 to 03.08.2020. Participants from various Schools, Colleges and Institutions took part in this event and enjoyed solving the puzzle. Events like this help people to relax their mind and engage in useful activities that help people to get away from the negativity of pandemic situation.

PIC: online Sudoku Game poster

<p>21</p>	 <p><b>PIC:online Workshop poster</b></p>	<p style="text-align: right;"><b>Criteria 6</b></p> <p>Our department of Electrical and Electronics Engineering organized 2 days online workshop on “artificial intelligence using MATLAB”</p> <p>Day -1  “Genetic Algorithm and its implementation in MATLAB – Hands on Training” by <b>Dr.A.Sheela</b>, Associate Professor, Department of EEE, Kongu Engineering College Perundurai, Erode – 638060 and <b>Mr.M. Krishna Paramathma</b>, Assistant Professor, Department of EEE, Kalasalingam Academy of Research and Education, Srivilliputhur – 626126 on 13/08/2020</p> <p>Day-2  “An Introduction about Deep Learning Algorithm and its Applications for COVID 19 Prediction – Hands on Training” by <b>Dr.V.AgnesIdhyaSelvi</b>, Associate Professor,Department of EEE, Kalasalingam Academy of Research and Education, Srivilliputhur – 626126 And <b>Mr.M.KaruppasamyPandiyan</b>, Assistant Professor,Department of EEE, Kalasalingam Academy of Research and Education, Srivilliputhur – 626126 on 14/08/2020</p>
<p>22</p>	 <p><b>PIC: FDP Poster</b></p>	<p style="text-align: right;"><b>Criteria 1</b></p> <p>Our department staff members Dr.T.D.Sudhakar and Dr.V.Krishnakumar presented a topic on FDP organized by Arasu Engineering college during 9<sup>th</sup> to 13<sup>th</sup> august 2020</p>

23



PIC:FDP poster

**Criteria 6**

Our department of Electrical and Electronics Engineering organized A Five-days Online Faculty Development Programme on “Application of Artificial Intelligence for Modern Power System” (through on line Mode), during 20th-24th July 2020, scheduled from 10.00 am to 11.30 am followed by 12.30 pm to 2.00 pm. The resource persons of this event are given below, Dr. Sishaj P Simon, Ph.D, Associate professor, National Institute of Technology (NIT), Trichy, handled the Day 1 first Session on Introduction to Smart grids, followed by second session by Dr. J. Jayakumar, Professor, Karunya University, Coimbatore on Transforming Power Sector With Digital Innovations. Dr. A. Immanuel Selvakumar, Ph.D, Professor and Head, Karunya University, Coimbatore handled the Day 2 session on Machine Learning for Smart Grids and followed by Dr. J. S. Dhillon, Ph.D, professor, Sant Longowal Institute of Engineering & Technology, Punjab on Differential Evolution for Economic operation of Power system. Er. C. Nallasivan, AEE, TANGEDCO, Chennai handled the Day 3 session on Implementation of AMR in Indian Utilities and Dr. Christopher Asir Rajan, Ph.D, Professor, Pondicherry Engineering College, Pondicherry on Control of Microgrids. Dr. Aruldoss Albert Victorie, Associate Professor, Anna University Regional Centre, Coimbatore, handled the Day 4 session on AI applications to power system followed by Dr. Altaf Q H Badar, Assistant Professor, National Institute of Technology (NIT), Warangal on Optimization for Modern Power system. Dr. S. Hemamalani, Professor, VIT University Chennai, handled the Day 5 session on Application of machine learning in power system operation followed by Mr. S. Selvakumar, Head of Engineering and Design, Power Projects, Chennai on Role of Energy storage in modern power system.

24



**Criteria**

Our department students done the online webinar for the month of July as follows

II YEAR	
Students Name	Webinar


		K.ANANYA P	<p>1)Attended a webinar on"Web development roadmap"conducted by St.Joseph's College of Engineering on 3/08/2020</p> <p>2)Attended a webinar on"Rise above the risk-entrepre snapshot"conducted by St.Joseph's College of Engineering on 4/08/2020</p> <p>3)Attended a webinar on"How to get started with AI and robotics"conducted by St.Jospehs college of engineering on 5/08/2020</p> <p>4)Attended a webinar on"Cyber security challenges and opportunities for autonomous vehicle"conducted by St.Joseph's College of Engineering on 6/08/2020</p> <p>5)Attended a webinar on"Robotics and AI:Challenges and perspectives"conducted by St.Joseph's College of Engineering on 7/08/2020</p> <p>6)Attended a webinar on"Shaping the future with 3d printing technologies and applications"conducted by St.Joseph's institute of technology on 12/08/2020</p> <p>7)Attended a webinar on"AI:Robotics and design"conducted by St.Joseph's College of Engineering on 12/08/2020</p> <p>8)Attended a webinar on"Bio hacking and IOT"conducted by St.Joseph'scollegeof engineering on 11th and 12th August</p> <p>9)Attended a webinar on"Ethics and entrepreneurship"conducted by St.Joseph's College of Engineering on 13/08/2020</p>
--	--	------------	---

		<p>ABINAYA M</p>	<p>1)Attended a webinar on "Introduction To Iot Controllers " conducted by Adhiparasakthi College Of Engineering and Technology on August 1th 2020</p> <p>2)Attended a webinar on "Raise Above The Risk - Entrepren Snapshot" conducted by St.Joseph's College Of Engineering on August 4th 2020</p> <p>3)Attended a webinar on "How To Get Started With AI And Robotics" conducted by St.Joseph's College Of Engineering on August 5th 2020</p> <p>4)Attended a webinar on "Cyber Security Challenges And Opportunities For Autonomous Vehicle" conducted by St.Joseph's College Of Engineering on August 6th 2020</p> <p>5)Attended a webinar on "Robotics And Artificial Intelligence : Challenges And Perspectives" conducted by St.Joseph's College Of Engineering on August 7th 2020</p>
		<p>ABINA S</p>	<p>1)Attended online Webiner titled "Web Development Roadmap 2020"conducted by St.Joseph's College of Engineering on 3rd August 2020</p> <p>2)Attended online Webiner titled "Rise above the risk -entrepren snapshot" conducted by St.Joseph's College of Engineering on 4th August 2020.</p> <p>3)Attended online Webiner titled "AI:Robotics and Design forManufacture " conducted by St.Joseph's College of Engineering on 12th August 2020.</p> <p>4)Attended online Webiner titled "Ethics and Entrepreneurship" conducted by St.Joseph's College of Engineering on 13th August 2020.</p>
		<p>ABISHEK T</p>	<p>1)Attended Online workshop - " A Gist Of Simulation Softwares" Organized by Department of Science, St. Joseph's College of Engineering on August 6,2020</p> <p>2)Attended webinar on "Getting Smart" Organized by Department of Science, St. Joseph's College of Engineering</p>


		<p>THIRUVEL A.P.</p>	<p>Participated in the International Webinar Series ERUDITE talk season 2 on AI applied in drilling and its applications  Participated in the International Webinar Series ERUDITE talk on Traction motor development status and trend for EV application  Participated in the International Webinar Series ERUDITE talk on What is Electrical Engineering  Participated in the International Webinar Series ERUDITE talk season 2 on AI as a COVID 19 mitigation  Participated in the International Webinar Series ERUDITE talk on Power Industry today  Participated in the International Webinar Series ERUDITE talk on Visual place recognition  Participated in the International Webinar Series ERUDITE talk on How to be successful in Electrical Engineering</p>
		<p>SRIDHARSHAN S</p>	<p>Participated in the Webinar on Grid Connected and Standalone Solar Plant design Conducted by St. Joseph's Institute of Technology  Participated in the Webinar on Power Quality Analysis, Modelling and Simulation using ETAP Conducted by St. Joseph's Institute of Technology  Participated in the International Webinar Series ERUDITE talk on Mechatronics Development in Automobiles  Participated in the International Webinar Series ERUDITE talk on The physical limitations of Electrical Machines  Participated in the International Webinar Series ERUDITE talk on Control robots with smart phones  Participated in the International Webinar Series ERUDITE talk on Power Quality Real time monitoring</p>
<p>III YEAR</p>			
		<p><b>Students Name</b></p>	<p><b>Webinar</b></p>



	CHANDRIKA.S	Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering from 27/07/2020 to 08/08/2020
	THEERTHANA S	Attended a webinar on "AIRobotics And Design Manufacturing" conducted by St.Joseph's College of Engineering on 12/8/2020
	KAMESHWARAN E	Attended a webinar on "What 's there in IEEE for graduates? "
	RAMKUMARS	Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering from 27/07/2020 to 08/08/2020
	SMIRUTHA T.A.	1.Attended a webinar on"Going the extra mile" 2.Attended a webinar "Aurdino and outline line follower robot" by IEEE
	SRIBALAJIS	Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering from 27/07/2020 to 08/08/2020
	THIRUMURUGANS	Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering from 27/07/2020 to 08/08/2020
	SARANARAYANAN S	1.Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering on 08/08/2020 2.Attended a webinar on "Art of publishing review and research articles" conducted by SVCE on 8/8/2020 3.Attended a webinar on "Career perspective of engineers" conducted by St.Joseph's College of Engineering
	RAM KARTHICK K	1.Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering on 08/08/20 2.Attended a webinar on "Cliff of ICEBERG-EV Market" conducted by Easwari Engineering College
	ROGITH K	Attended a webinar on "Alumni Gala Meet" conducted by St.Joseph's College of Engineering on 08/08/20

		RAKSHA M CR	<p>1.Attended a webinar on "Science Of Happiness " on 1/08/2020</p> <p>2.Attended a webinar on "Introduction To Thinker Cad" on 1/08/2020</p> <p>3.Attended a webinar on "Web Development Roadmap 2020" on 3/08/2020</p> <p>4.Attended a webinar on "Opportunities And Challenges For Artificial Intelligence " on 4/08/2020</p> <p>5.Attended a webinar on "Sensor Selection For Different Applications " on 4/08/2020</p> <p>6.Attended a webinar on "Recent Developments In Microfluidic Technology And Its Application " on 5/08/2020</p> <p>7.Attended a webinar on " An Insight Into Lean Methodology " on 6/08/2020</p> <p>8.Attended a webinar on Recent Art Of Maximizing The Inherent Potential " on 6/08/2020</p> <p>9.Attended a webinar on "Recent "Representation And Topology Based Clustering Method" on 16/08/2020</p> <p>10.Attended a webinar on "Artificial Intelligence And Machine Learning For Cybersecurity"on 10/08/2020</p>
25		<b>II YEAR</b>	
		<b>Student Name</b>	<b>Online Courses</b>
		CHRISTEL PEERIS R	1)Completed online course titled "Deep Learning Onramp" conducted by MATLAB and Simulink Training on 16th August 2020
		K.ANANYA P	1)Completed online course titled "Deep Learning Onramp" conducted by MATLAB and Simulink Training on 16th August 2020
		SRIDHARSHAN S	1)Completed career edge online course conducted by TCS ION 2)Completed Android App development course conducted by Kyrion Technologies Pvt Ltd

III YEAR	
STUDENTS NAME	Online Course
RAMESH.S M	1)Completed course titled "Word press and woocommerce" by Udemy on 16/8/2020 2)Completed course titled "Python 3 for complete beginners " by Udemy on 16/8/2020
VEERAMANI.K	Completed course titled "Programming for Everybody(Getting Started with Python)" by Coursera on 09/08/2020
REVANTHK.S.	Completed course titled "Android app development " by udemyon 11/8/2020
RAMKUMAR S	Completed course titled "Programming For Everybody ( Getting Started with Python)" by Coursera on 04/08/2020
SRIBALAJI S	Completed course titled "Programming For Everybody ( Getting Started with Python)" by Coursera on 04/08/2020
ROGITH K	Completed course titled "Programming For Everybody ( Getting Started with Python)" by Coursera on 09/08/2020
SONALI VM	Completed course titled "Programming with a purpose" by Coursera
SMIRUTHA T.A.	Completed course titled "Career edge" by TCS ion
S.SATHIYA	Completed course titled "MACHINE LEARNING" conducted by Coursera on 10/8/2020
SEBASTIAN SUGAN GOMEZ J	Completed course titled "C for everyone : programming fundamentals" by cousera on 3/8/2020
SHARAN R	1)Completed course titled "Introduction to machine learning" byCoursera 2)Completed course titled "Data Science Maths Skills" by PSA 3)Completed course titled"Programming for everybody " NPTEL
VARALAKSHMIJ.V.V.S	Completed course titled "Programming with a

			purpose" by courser
	DINESH A		1)Completed course titled "The fundamental of digital marketing" certified by Google (17/5/2020) , 2)Completed course titled "Ethical hacking (CEH) " by udemy 3)Completed course titled "AWS Machine learning" certified by Coursera
	SIVABALAN M		Completed course titled "AI for everyone" by courser
	RESHMA .K		Completed course titled "Programming For Everybody ( Getting Started with Python)" by Coursera on 04/08/2020
	RAM KARTHICK K		Completed course titled "C Programming" from GUVI on 23/03/2020
	VELAN M		Completed course titled "Programming for Everybody(Getting Started with Python)" by Coursera on 09/08/2020
	SIVASUBRAMANIAN.S		Completed course titled "Autocad " certified by udemy on 21/6/2020
	RAKSHA M CR		1) Completed course titled "Programming for Eveeverybody( Getting started with Python)" conducted by UNIVERSITY OF MICHIGAN 2) Completed course titled "Create your First Chatbot with Rasa and Python" conducted by COURSERA PROJECT NETWORK
26		<b>Criteria 1.3.3</b>	
III Year			
<b>Students Name</b>		<b>Date</b>	<b>Company name</b>
RAMKUMAR S		17/07/2020 to 05/08/2020	EMCOG SOLUTIONS
THEERTHANA S		17-07-2020 to 05-08-2020	EMCOG SOLUTIONS
VARATHARAJANB		17/07/2020 to 05/08/2020	EMCOG SOLUTIONS
SRIBALAJI S		17/07/2020 to 05/08/2020	EMCOG SOLUTIONS

		VELAN M	17/07/2020 to 05/08/2020	EMCOG SOLUTIONS
		ROGITH K	17/07/2020 to 05/08/2020	EMCOG SOLUTIONS
		REVANTH K S	17/07/2020 to 05/08/2020	EMCOG SOLUTIONS
		SMIRUTHA T.A.	17/7/2020 to 5/8/2020	EMCOG SOLUTIONS
		RESHMA .K	17/07/2020 to 05/08/2020	EMCOG SOLUTIONS
		SARANARAYANAN S	17/07/2020 TO 7/08/2020	EMCOG SOLUTIONS
		RAKSHA M CR	29/07/2020 to 17/08/2020	KPMG VIRTUAL EXPERIENCE PROGRAM

27

Comparative Analysis Of Pi And Fuzzy Logic Controlled Distributed Power Flow Controller

T. Sriyananda ganesh, M. Pemla, M. Veni, G. Ramya

Abstract

Distributed Power Flow Controller (DPFC) is a reactive power compensation device that belongs to Flexible AC Transmission System (FACTS) family. It overcomes the disadvantages of Unified Power Flow Controller (UPFC) by eliminating the DC link present between DCR, a series compensation device and STATCOM, a shunt compensation device. DPFC has advantages such as low cost, good controllability and reliability in comparison with UPFC. The proposed DPFC circuit consists of one STATCOM and two DPFC forms a DPFC device for balancing active and reactive voltages. This paper proposes the simulation of single line model of 9 bus system without and with DPFC using MATLAB Simulink and the results are presented. Closed loop analysis is done for the line model of the 9 bus system using PI and Fuzzy Controllers and it indicates that Fuzzy has a lesser steady state error of 0.59% when comparing PI controlled DPFC for line model of 9 bus system.

Keywords: Flexible AC Transmission System, Dynamic Voltage Restorer, Distributed Power Flow Controller and Static Synchronous Compensator.

PDF

How to Cite

T. Sriyananda ganesh, M. Pemla, M. Veni, G. Ramya. (2020). Comparative Analysis Of Pi And Fuzzy Logic Controlled Distributed Power Flow Controller. International Journal of Advanced Science and Technology, 29(4), 2983-2996. Retrieved from <http://sersc.org/journals/index.php/IJAST/article/view/22284>

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission

Make a Submission



Downloads  
Paper Forms  
Copyright Form  
Special Issue Proposal Form

PIC: journal screen short

You choose, We do it

ST. JOSEPH'S COLLEGE OF ENGINEERING  
St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119

Cambridge English Qualification  
A+ GRAC  
nirf  
NBA ACCREDITED SINCE 2003  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IN ASSOCIATION WITH  
CDCE AUTOMATION  
3 DAYS ONLINE WORKSHOP ON  
INDUSTRIAL AUTOMATION

26th August 2020 TU  
28th August 2020  
TIME - 3PM TO 4PM

EVENT CATALOGUE

DAY 1 - 26TH AUGUST 2020  
INDUSTRIAL AUTOMATION  
Mr. J. Rajasekar,  
Managing Director,  
CDCE Automation, Chennai

DAY 2 - 27TH AUGUST 2020  
SENSORS IN INDUSTRIAL APPLICATION  
Mr. Satish Kumar,  
CDCE Automation, Chennai

DAY 3 - 28TH AUGUST 2020  
INDUSTRIAL DRIVES  
Mr. Satish Kumar,  
CDCE Automation, Chennai

Patrons  
Dr. B. Babu Manoharam M.A., M.B.A., Ph.D.  
Chairman,  
St. Joseph's Group of Institutions  
Mrs. S. Jessie Priya M.Com.,  
Managing Director,  
St. Joseph's Group of Institutions  
Mr. B. Shashi Sekar M.Sc.,  
Director,  
St. Joseph's Group of Institutions

Convenor  
Dr. Vaidi Srinagari Das M.E., M.B.A., Ph.D.  
Professor,  
St. Joseph's College of Engineering  
Dr. Jayaraman Prasad M.E., Ph.D.  
Professor & Head - Lab Affairs

Staff Incharge  
Dr. B. Parvathi Venkatesh M.Sc., M.B.A., M.E., Ph.D.,  
Dean,  
St. Joseph's College of Engineering  
Dr. V. Krishnakumar M. Tech., Ph.D.,  
Associate professor/EE  
Mr. S. Sridharan M.E., Ph.D.,  
Associate professor/EE

PIC: workshop poster

28

**Criteria 3.3.4 & 3.3.5**

Our staff Members T. Sriyananda Ganesh published “Comparative Analysis Of PI And Fuzzy Logic Controlled Distributed Power Flow Controller, International Journal of Advanced Science and Technology, Vol. 29 No. 4s (2020), 2983-2996. Retrieved from <http://sersc.org/journals/index.php/IJAST/article/view/22284>

Our department organized WORKSHOP ON INDUSTRIAL AUTOMATION held from 26.08.2020 to 28.08.2020

- Day 1 Introduction to Industrial Automation by Mr. J. Rajasekar, Managing Director, CDCE Automation, Chennai.
- Day 2 Types of Sensors for Industrial Automation by Mr. Satish kumar, Senior Engineer, CDCE Automation, Chennai.
- Day 3 Drives and Controller applicable to industries by Mr. Prakash, Engineer, CDCE Automation, Chennai.

29

To  
 Dr. V. Krishnakumar  
 Associate Professor/EEE  
 St. Joseph's College of Engineering  
 Kanchipuram


Dear Professor,

**Sub: Letter of Appreciation for Chairing a Technical Session in ICRES 2020-reg**

The organizing committee would like to recognize and appreciate your efforts towards chairing a technical session in **1<sup>st</sup> Virtual International Conference on Renewable Energy Systems (ICRES 2020)** on 27.08.2020 organized by Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering.

Thanks for your support in the successful conduct of ICRES2020.


*V.Kamaraj*  
 Convener  
 (Dr. V. Kamaraj)



**PIC: Appreciation letter**

Our department staff Dr. V. Krishnakumar chairing a technical session in 1st Virtual International Conference on Renewable Energy Systems (ICRES 2020) on 27.08.2020 organized by Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering.

30



**St. JOSEPH'S COLLEGE OF ENGINEERING**  
 ST. JOSEPH'S GROUP OF INSTITUTIONS  
 OMR, CHENNAI - 119

Cambridge English Qualification | A+ NAAC | nif 10th RANK IN ENGINEERING STREAM | NBA ACCREDITED SINCE 2003 | 26th Anniversary Since 1994

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
 Presents

**TECHNOVA 2K20!** A VIRTUAL INTER DEPARTMENT SYMPOSIUM

Register here:- <https://bit.ly/leeesympo>

Scan this QR code to register

**EVENTS**

Technophilia	10.08.2020
Ideathon	11.08.2020
Circuit Haste	12.08.2020
Electro Vision	13.08.2020
Nexis	14.08.2020
Big Fact Hun	15.08.2020

E-certificates will be provided for participants  
 Top 3 winners will be provided with merit certificate

**Patrons**  
 Dr. B. Babu Manoharan M.A., M.B.A., Ph.D. Chairman, St. Joseph's Group of Institutions  
 Mrs. S. Jessie Priya M.Com., Managing Director, St. Joseph's Group of Institutions  
 Mr. B. Sashi Sekar M.Sc., Director, St. Joseph's Group of Institutions

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





**Staff Incharge**  
 Mr. B. Elanthirayan Assistant Professor/EEE  
 Mr. MChilambaresan Assistant Professor/EEE  
 Mr. T. Srihanandha Ganesha Assistant Professor/EEE

**PIC: virtual inter department symposium poster**

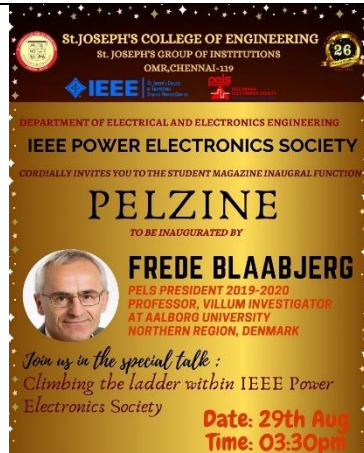
Our department organized a virtual inter department symposium "Technova 2k20" on 10/08/2020 to 15/08/2020

Event winners

Events	I Position	II Position	III Position
<b>IDEATHON</b>	ABISHLAL N S MOHAMED AASHIK S ABINAYAA SHRI THIRU VEL A P	V.KEERTHANA	JAFFREY KIRAN S JEEVAN PRASAD P
<b>TECHNOPHILIA</b>	SHARAN R	REFAYEE FARITH K	GAYATHRI DEVI C
<b>NEXIS</b>	M. GANAPATHY	PRAVESH CHRISTO GERARD E	A. S. KEERTHANAA SRI
<b>CIRCUIT HASTE</b>	S.SRIBALAJI	AARTHI NT	AS KEERTHANAA S
<b>BIG FACT HUN</b>	S. RAMKUMAR	N. MANI SHA	A.S.KEERTHANAA S
<b>ELECTRO VISION</b>	PRANEET S NITISH KUMAR T	SURYA M	GODWIN GEO

<p>31</p>	<p>To Dr. M. Venmathi Associate Professor/EEE St. Joseph's College of Engineering Kanchipuram</p> <p>Dear Professor,</p> <p>Sub: Letter of Appreciation for Chairing a Technical Session in ICRES 2020-21</p> <p>The organizing committee would like to recognize and appreciate your efforts towards chairing a technical session in 1<sup>st</sup> Virtual International Conference on Renewable Energy Systems (ICRES 2020) on 27.08.2020 organized by Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering.</p> <p>Thanks for your support in the successful conduct of ICRES2020.</p>  <p>Convener (Dr. V. Kamini)</p>  <p><b>PIC: Appreciation letter</b></p>	<p>Our department staff Dr.M.Venmathi chairing a technical session in 1st Virtual International Conference on Renewable Energy Systems (ICRES 2020) on 27.08.2020 organized by Department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar College of Engineering.</p>
<p>32</p>	 <p><b>PIC: IEEE Quiz poster</b></p>	<p>On account of our 74th Independence day Celebration, Our department of Electrical and Electronics Engineering, in association with IEEE Student Branch Chapter of St. Joseph's College of Engineering conducted a National level online Quiz Competition on our Indian History with different types of questions during 15th August to 22nd August. Around 460 participants all over India had participated and cleared the quiz with 50 percentage and availed their e-certificates.</p>
<p>33</p>	 <p><b>PIC: plant for the planet poster</b></p>	<p>Our Department of Electrical &amp; Electronics Engineering organized “Plant for Planet” event which promotes the view that each tree is a contribution towards environmental and climate protection. Through this plant for planet event our department students and faculty members have planted more than 75 trees and we expect even more number of trees will be planted through this initiative.</p>





**PIC: IEEE PES Magazine poster**

Our department IEEE Power Electronics Society of St. Joseph's College of Engineering IEEE Student Branch Chapter had compiled a student magazine with organizing experiences of the society in the pandemic period along with technical articles from the students of Department of EEE. The student magazine titled "PELZINE" was inaugurated by the IEEE Power Electronics President "Prof. FREDE BLAABJERG" from Denmark on 29th August 2020. The event began with the formal welcome address followed by the preview video of the magazine. The special guest presented a topic on "Climbing the ladder within the power electronics society". Prof. Frede gave an overview on the various opportunities in IEEE PELS Society. He also briefed on his vibrant success journey in IEEE PELS Society. After his cognizant presentation, the most awaited inauguration of PELZINE had taken place. The event ended on a success note with entrants being contented and appreciated by Head of the Department Dr. Jayarama Pradeep mam for their tireless work for the magazine.

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Sl. No	Title	Detail					
1	Webinar/ FDP Attended By Faculty	S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days
		1.	Dr. Sivakumar R	01/08/2020	FLUKE PROCESS TOOLS FOR BETTER PRODUCTIVITY	ISA Delhi Section	1
		2.	Dr. V. Vijayan	03.08.2020 to 08.08.2020	AICTE Sponsored Online STTP on “ Recent Trends and Challenges of Internet of Things in Automation- II”	R.M.D. Engineering College ,Chennai	06
		3.	Dr. V. Vijayan	11.08.2020 to 15.08.2020	STTP on "Industrial IoT and Industry 4.0 - SMART INDUSTRY AUTOMATION",	KONGU ENGINEERING COLLEGE, Erode	05
		4.	Dr.Gnanaprakasam C N	10/08/2020 to14/08/2020	Industrial and Process Automation (IPA-2020)	G. Pulla Reddy Engineering College (Autonomous) Kurnool, Andhra Pradesh-518007	5
		5.	Dr.Gnanaprakasam C N	10/08/2020 to 14/08/2020	One week International FDP on Recent Trends in Communication Technologies	Bannari Amman Institute of Technology, Erode.	5

	6.	Dr.Gnanaprakasam C N	18/08/2020	Webinar on Automation using Programmable Logic Controller	Hindustan Institute of Science and Technology, Coimbatore.	1	
	7.	Dr.B.Senthil Kumar	10.08.2020 to 14.08.2020	Industrial Process Automation	G. Pulla Reddy Engineering College (Autonomous)	5	
	8.	Dr.B.Senthil Kumar	11.08.2020 to 15.08.2020	Industrial IoT and Industry 4.0 - SMART INDUSTRY AUTOMATION	KONGU ENGINEERING COLLEGE	5	
	9.	Dr.G Sivagurunathan	11/08/20 to 15/08/20	Industrial IoT and Industry 4.0-Smart Industry Automation	Kongu Engineering College,Perundurai	5	
	10.	Mr.Sivakumar s	06-08-2020 to 12-08-2020	Sttp on EC8391 control system engineering	Amritha college of engineering and technology	6	
	11.	Mrs.J.Gnanasoundharam	20/08/2020-22/08/2020	Online Bootcamp on Electric vehicle	Panimalar Institute of Technology	3	
	12.	Mrs J.Gnanasoundharam	07/08/2020	National Webinar on Machine learning and mathematical modelling	Manipal University, Jaipur	1	

		13.	Dr.Palani Thanaraj K	26/08/2020 to 28/08/2020	3-Day FDP on “ Deep Learning Algorithms in Medical Imaging”	Dept of BME, SRMIST, Chennai	3	
		14.	Mr.D Dinesh Kumar	10/08/2020-14/08/2020	FDP on Industrial and Process Automation (IPA-2020)	G. Pulla Reddy Engineering College (Autonomous) Kurnool, Andhra Pradesh-518007	5	
		15.	Mr.D Dinesh Kumar	19/08/2020 to 20/08/2020	Two Day National Level Workshop on 'Personal Safety and Protection of children from sexual abuse' and "Online safety for Children and adults"	Sri Vani Degree and PG College, Ananthapuramu Dt, Andhra Pradesh.	2	
		16.	Mr.D Dinesh Kumar	18/08/2020	Webinar on Automation using Programmable Logic Controller	Hindustan Institute of Science and Technology, Coimbatore.	1	
		17.	Mr.D Dinesh Kumar	10/08/2020 to 14/08/2020	One week International FDP on Recent Trends in Communication Technologies	Bannari Amman Institute of Technology, Erode.	5	
		18.	Mrs.C RAMADEVI	6/8/2020 to 12/8/2020	A six day short term training program on control system engineering	Amritha college of Engineering and technology	6	

	19.	Mrs.C RAMADEVI	11/08/20 to 15/08/20	"Industrial IoT and Industry 4.0 - SMART INDUSTRY AUTOMATION",	Kongu Engineering college, Erode	5	
	20.	Mrs.C RAMADEVI	17/8/20 to 22/08/2020	Research issues and challenges in deep learning based medical image analysis and medical diagnosis	Sri Ramakrishna Engineering College,coimbatore.	6	
	21.	Mrs. R. Angel Sujitha	11.08.2020 to 15.08.2020	Fdp on "Industrial IoT and Industry 4.0 - SMART INDUSTRY AUTOMATION"	Department of EIE, KONGU ENGINEERING COLLEGE, Erode	5	
	22.	Mrs. R. Angel Sujitha	07.08.2020	WORKSHOP on "SAGE for Mathematics and Engineering"	Department of Mathematics, Bannari Amman Institute of Technology	1	
	23.	Ms.Kirthini Godweena.A	11/08/20 to 15/08/20	Industrial IoT and Industry 4.0-Smart Industry Automation	Kongu Engineering College,Perundurai	5	
	24.	Ms.Kirthini Godweena.A	10/08/2020-14/08/2020	Industrial and Process Automation (IPA-2020)	G. Pulla Reddy Engineering College (Autonomous) Kurnool, Andhra Pradesh-518007	5	
	25.	Mrs.M. Angelin Ponrani	11/08/20 to 15/08/20	Industrial IoT and Industry 4.0-Smart Industry Automation	Kongu Engineering College,Perundurai	5	

		26.	Mrs.M. Angelin Ponrani	10/08/2020- 14/08/2020	Industrial and Process Automation (IPA- 2020)	G. Pulla Reddy Engineering College (Autonomous) Kurnool, Andhra Pradesh-518007	5
2	<b>Publications</b>	S.No	Faculty	Title of the paper	Date	Journal	
		1. 1	<b>D Dinesh Kumar, C N Gnanaprakasam, R Elavarasan</b>	Insights of COVID - 19 in Indian State of Kerala in Initial Phase	Vol.7. Issue 10. 2020	Journal of Critical Review ISSN- 2394- 5125 (Scopus)	
		2.	<b>Palani Thanaraj K,</b> Alex Noel Joseph Raj, Parvathavarthini Balasubramanian, Yuanzhu Chen	Schizophrenia detection using Multivariate Empirical Mode Decomposition and entropy measures from multichannel EEG signal	Vol.40, Issue 3, 2020, Pages 1124-1139	Biocybernetics and Biomedical Engineering (Elsevier, WoS)	
		3.	Jyotismita Chaki, Nilanjan Dey, <b>V. Rajinikanth,</b> Amira S Ashour, & Fuqian Shi	Recognition of Skin Diseases Using Curvelet Transforms and Law's Texture Energy Measures,	Vol.1222, pp. 51-61,	Advances in Intelligent Systems and Computing, Springer.	
		4.	Dey, N., <b>Rajinikant, V.,</b> Fong, S. J., Kaiser, M. S., & Mahmud, M.	Social-Group- Optimization Assisted Kapur's Entropy and Morphological Segmentation for Automated Detection of	<a href="https://doi.org/10.1007/s12559-020-09751-3">https://doi.org/10.1007/s12559-020-09751-3</a> .	Cognitive Computation, Springer.	

		COVID-19 Infection from Computed Tomography Images.,		
5.	Ahuja, S., Panigrahi, B. K., Dey, N., <b>Rajinikanth, V.</b> , & Gandhi, T. K.	Deep transfer learning-based automated detection of COVID-19 from lung CT scan slices.	<a href="https://doi.org/10.1007/s10489-020-01826-w">https://doi.org/10.1007/s10489-020-01826-w</a> .	Applied Intelligence, Springer.
6.	R. Dellecta Jessy Rashmi, <b>V. Rajinikanth</b> , Hong Lin, Suresh Chandra Satapathy	Extraction of Leukocyte Section from Digital Microscopy Picture with Image Processing Method	<a href="https://doi.org/10.1007/978-981-15-5679-1_64">https://doi.org/10.1007/978-981-15-5679-1_64</a>	Advances in Intelligent Systems and Computing, Springer.
7.	D. Abirami, N. Shalini, <b>V. Rajinikanth</b> , Hong Lin, Vaddi Seshagiri Rao	Brain MRI Examination with Varied Modality Fusion and Chan-Vese Segmentation	<a href="https://doi.org/10.1007/978-981-15-5679-1_65">https://doi.org/10.1007/978-981-15-5679-1_65</a>	Advances in Intelligent Systems and Computing, Springer.
8.	M. Santhosh, R. Rubin Silas Raj, <b>V. Rajinikanth</b> , Suresh Chandra Satapathy	Image Assisted Assessment of Cancer Segment from Dermoscopy Images	<a href="https://doi.org/10.1007/978-981-15-5679-1_68">https://doi.org/10.1007/978-981-15-5679-1_68</a>	Advances in Intelligent Systems and Computing, Springer.
9.	S. Fuzail Ahmed Razeen, Emmanuel, V. Rajinikanth, P. Tamizharasi, B. Parvatha Varthini	Examination of Optic Disc Sections of Fundus Retinal Images—A Study with Rim-One Database	<a href="https://doi.org/10.1007/978-981-15-5679-1_69">https://doi.org/10.1007/978-981-15-5679-1_69</a>	Advances in Intelligent Systems and Computing, Springer.
10.	R. Elanthirayan, K. Sakeenathul Kubra, <b>V. Rajinikanth</b> , N. Sri	Extraction of Cancer Section from 2D Breast	<a href="https://doi.org/10.1007/978-981-15-5679-1_71">https://doi.org/10.1007/978-981-15-5679-1_71</a>	Advances in Intelligent Systems and




		<b>Madhava Raja,</b> Suresh Chandra Satapathy	MRI Slice Using Brain Strom Optimization		Computing, Springer.
	11.	P. Resmi, R. Reshika, N. Sri <b>Madhava Raja,</b> S. Arunmozhi, Vaddi Seshagiri Rao	An Automated Person Authentication System with Photo to Sketch Matching Technique	<a href="https://doi.org/10.1007/978-981-15-5679-1_63">https://doi.org/10.1007/978-981-15-5679-1_63</a>	Advances in Intelligent Systems and Computing, Springer.
	12.	D. Hariharan, S. Hemachandar, <b>N. Sri Madhava Raja,</b> Hong Lin, K. Sundaravadivu	Inspection of 2D Brain MRI Slice Using Watershed Algorithm	<a href="https://doi.org/10.1007/978-981-15-5679-1_70">https://doi.org/10.1007/978-981-15-5679-1_70</a>	Advances in Intelligent Systems and Computing, Springer.
	13.	S. Manasi, M. Ramyaa, <b>N. Sri Madhava Raja,</b> S. Arunmozhi, Suresh Chandra Satapathy	Segmentation and Assessment of Leukocytes Using Entropy-Based Procedure	<a href="https://doi.org/10.1007/978-981-15-5679-1_67">https://doi.org/10.1007/978-981-15-5679-1_67</a>	Advances in Intelligent Systems and Computing, Springer.
	14.	R. Pavidraa, R. Preethi, <b>N. Sri Madhava Raja,</b> P. Tamizharasi, B. Parvatha Varthini	Examination of the Brain MRI Slices Corrupted with Induced Noise—A Study with SGO Algorithm	<a href="https://doi.org/10.1007/978-981-15-5679-1_66">https://doi.org/10.1007/978-981-15-5679-1_66</a>	Advances in Intelligent Systems and Computing, Springer.
	15.	S. Hepziba Lizzie, <b>B. Senthil Kumar</b>	Air Quality Prediction Using Time Series Analysis	<a href="https://doi.org/10.1007/978-981-15-5679-1_72">https://doi.org/10.1007/978-981-15-5679-1_72</a>	Advances in Intelligent Systems and Computing, Springer.

3.	<b>Webinar/Workshop/school event Conducted</b>	<b>S.NO</b>	<b>Date</b>	<b>Name of the Event</b>	<b>Targeted Participants</b>	<b>Faculty Coordinator</b>	<b>Description about the event</b>
		1.	06.08.2020	Webinar Series- The Female Voice at workforce	Student Community and Faculties	Dr.S.Meena	Women Empowerment Program
		2.	07.08.2020	Webinar Series- The Female Voice at workforce	Student Community and Faculties	Dr.S.Meena	Women Empowerment Program
		3.	08.08.2020	Webinar Series- The Female Voice at workforce	Student Community and Faculties	Dr.S.Meena	Women Empowerment Program
		4.	12-8-2020 Wednesday	Role of Quality, Analytics and Artificial Intelligence in Software Industry	Student Community and Faculties	Dr. C.Pandeeswaran Mr. D.Sankaran	Webinar
		5.	15.08.2020 Saturday	Webinar on “Competencies required to get a job in a core industry”	Circuit Branch Students	Mrs.M.Angelin Ponrani	Skill set required to get placed in core industry
		6.	29-08-2020 Saturday	Webinar on Recent trends ,Developments in software Industries and Industries	Student Community and Faculties	Dr. C.Pandeeswaran Mr. D.Sankaran	Webinar

			Expectation			

## DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
AICTE Sponsored STTP		
1		<p>AICTE Sponsored One Week Online Short Term Training Programme (STTP) (17-08-2020 to 22-08-2020) On “SMART MANUFACTURING – OPPORTUNITIES AND CHALLENGES”.</p> <p><b>Dr.N.Arunkumar M.E.,Ph.D</b> was the Coordinator of the programme, Resource persons from Leading institutes like IITs were invited to give lecture which covered all areas under smart manufacturing.</p> <p>The Program showed a overwhelming response which was around 270 odd participants across India.</p> <p>Smart manufacturing involves improving the intelligence and dynamic nature of the process through advances in electronics and communication technology. It is about connecting the Shop floor to Top floor through network of embedded sensors that communicate huge volumes of data within any given framework of dynamic information architecture. The framework can range from single machine maintenance to product/process development; single shop production planning to overall supply chain management &amp; dynamic</p>

St. Joseph's College of Engineering  
St. Joseph's Group of Institutions  
OMR-Chennai-119

**AICTE Sponsored Online  
SHORT TERM TRAINING PROGRAMME (STTP)  
on  
SMART MANUFACTURING - OPPORTUNITIES & CHALLENGES  
17<sup>th</sup> -22<sup>nd</sup> August 2020 (Series - 2)**

Organized by  
**Department of Mechanical Engineering**



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

**Patron**  
Mrs. S. Jesula Priya, M.Com.  
Managing Director  
St. Joseph's Group of Institutions

**Mr. B. Shaanthi Sekar, M.Sc**  
Director  
St. Joseph's Group of Institutions

**Chair**  
Dr. Vaidhi Seshagiri Rao, M.E., M.B.A., Ph.D  
Principal  
St. Joseph's College of Engineering

**Dr. B. Parvatha Varthini, M.E., M.B.A., Ph.D**  
Dean  
St. Joseph's College of Engineering

**Convener**  
Dr. S. Arivazhagan, M.E., Ph.D  
Professor & Head - Lab. Affairs  
Department of Mechanical Engineering

**Coordinator**  
Dr. N. Arunkumar, M.E., Ph.D  
Professor & Head - Student Affairs  
Department of Mechanical Engineering

**Co-Coordinator**  
Dr. N.E. Arun Kumar, M.E., Ph.D  
Associate Professor

**Organising Committee**  
Mr. M. Subramanian, M.E., (Ph.D)  
Assistant Professor

**Mr. M. Ganesh, M.Tech., (Ph.D)**  
Assistant Professor

**Mr. T. Balasubramanian, M.E., (Ph.D)**  
Assistant Professor

**Mr. K. Pravin Kumar, M.E.,**  
Assistant Professor

**Mr. N. Sarathkumar, M.E.,**  
Assistant Professor

**About the Institution**

St. Joseph's College of Engineering established in the year 1991, celebrating its silver jubilee this year and ranks among the top Engineering Colleges in Tamil Nadu affiliated to Anna University, Chennai. All the departments of our College have been accredited by the National Board of Accreditation, New Delhi and certified with A+ by NAAC. Our college is among the top 100 educational institutions ranked by NIRF. Every year a large number of students from our college win accolades at the National and International events. They win awards for their projects and prizes in cultural and sports achievements besides securing many University Rank. Many of our students get placements in top notch organizations besides securing admissions in world class Universities in India and abroad. The college has provided enormous support and perpetually encourages all our endeavours.

**About the Department**

Our department had a very modest beginning with 40 students and 10 faculty members in the year 1998. Now, we have an annual intake of 180 students and 37 faculty members are rendering their services. We also conduct a post graduate program in Manufacturing Engineering. Our department has been accredited by NBA. Our department being a research centre, having 13 Doctorates and state of the art laboratories to support research, many research scholars across the state showed interest to pursue their Ph.Ds under our mentorship. The collaborative activities like consultancy services, projects, internships and workshops with the industries help our department to progress every day. Our students are well placed in reputable industries throughout the country and abroad. Many of the students are pursuing their higher studies in prestigious institutes in India and abroad (Singapore, Germany, Sweden, USA, UK etc.).

**Scope of STTP**

Smart manufacturing involves improving the intelligence and dynamic nature of the process through advances in electronics and communication technology. It is about outsourcing the Shop floor to Top floor through network of embedded sensors that communicate huge volume of data within any given framework of dynamic information architecture. The framework can range from single machine maintenance to production/process development, single shop production planning to overall supply chain management & dynamic business decisions.

**Major Topics to be covered**

Insight into SMART Manufacturing	Concept of Smart Factory	Role of Digitization in Quality, Productivity, Cost & Safety
Recent Research in Digital Manufacturing	Advanced Robotics	Industrial Internet of Things (IIOT)
Additive manufacturing	Sustainable manufacturing	Manufacturing Analytics

business decisions. This revolution provides opportunities for intelligent automation and self-diagnosis cum optimization of various allied processes in manufacturing through real time data analytics.


1	 <p><i>You Choose, We do it</i>  <b>St. Joseph's College of Engineering</b>  <b>St. Joseph's Group of Institutions</b>    OMR, Chennai - 119</p> <p>9 UG Courses Accredited Since 2003    2020 RANK - 160 IN ENGINEERING CATEGORY</p> <p><b>Department of Mechanical Engineering</b>  <i>Organizes</i>  <b>Faculty Development Programme</b>  <i>(Webinar Series) on</i>  <b>RECENT DEVELOPMENTS IN SOLAR ENERGY RECOVERY AND STORAGE TECHNOLOGIES</b>    03/08/2020 – 08/08/2020    Time: 11:00 AM – 12:30 PM</p> <p><b>For Registration</b>    Registration is FREE.    Webinar E-Certificate will be provided everyday.    FDP E-Certificate will be provided for the participants attending all six days.</p> <p>Coordinator:- <b>Dr. K. Arun</b>    Co- Coordinators :-    Mr. T. Ganasalar, Mr. J. Maniappan,    Dr. G. M. Lions Lessi, Mr. P. Manoj Kumar,    Mr. R. Rangaraj, Mr. V. Ashok Kumar</p> <p><b>Chief Patrons</b>    Dr. R. Babu Manoharan, M.A., M.B.A., Ph.D.    Chairman, St. Joseph's Group of Institutions</p> <p><b>Patrons</b>    Mrs. S. Jessie Priya, M.Com    Managing Director, St. Joseph's Group of Institutions    Mr. B. Shaibi Sekar, VLSI    Director, St. Joseph's Group of Institutions</p> <p><b>Convener</b>    Dr. S. Aravindhan V.E., Ph.D.    HOD - Mech - Lab. Affairs    Dr. N. Arun Kumar M.E., Ph.D.    HOD - Mech - Student Affairs</p> <p><b>Sessions:</b>    3. Recent Trends in Concentrating Solar Power Technologies    4. Efficient Harnessing of Solar Energy through PCM Based Storage Technologies    5. Build: Peroxides and Metal-Organic Frameworks for Solar Fuel Generation    6. Development of TFS Technology Solutions for Improvement of Solar Energy Systems Reliability    7. Recent Advancements in Solar Energy    8. Decoloration by Solar-driven Artificial Disinfection - A Promising Solution for Fresh Water Scarcity</p> <p><b>Resource Persons:</b>    Dr. N. Sudhilkumar, Dr. R. Velraj, Dr. Arvind Kumar Chandiran, Dr. K. Srinivas Reddy, Dr. S. Iniyar, Dr. C. S. Sujith Kumar</p>	<p>A Faculty Development Programme (Webinar Series) was organized on <b>“Recent Developments in Solar Energy Recovery and Storage Technologies”</b> from 3<sup>rd</sup> August 2020, Monday to 8<sup>th</sup> August 2020, Saturday from 11:00 AM to 12:30 PM.</p> <p>Resource Persons accepted to deliver the Webinar sessions are <b>Dr. S. Iniyar</b> (Professor, Dept. of Mech. Engg., CEG, Anna University), <b>Dr. R. Velraj</b> (Professor, Dept. of Mech. Engg., CEG, Anna University), <b>Dr. K. Srinivas Reddy</b> (Professor, Dept. of Mech. Engg., IIT Madras), <b>Dr. N. Sendhil Kumar</b> (Assistant Professor &amp; Head – Dept. of Mech. Engg., NIT Puducherry), <b>Dr. Aravind Kumar Chandiran</b> (Assistant Professor, Dept. of Chemical Engg. and Assistant Professor, Solar Fuels Division - Indian Solar Energy Harnessing Center, IIT Madras) and <b>Dr. C. S. Sujith Kumar</b> (Assistant Professor - Department of Mechanical Engineering, NIT Calicut, Kozhikode)</p>
---	--	---

**Webinars, FDPs Attended by our Staff Members**




1	<p><b>Dr.K.Arun</b></p>	<ul style="list-style-type: none"> <li>➤ Attended 6 days FDP on “Optimization Techniques for Mechanical Engineers” from 27 th July 2020, Monday to 1 st August 2020, Saturday conducted by Vignana Institute of Technology &amp; Science, Hyderabad.</li> <li>➤ Attended the FDP (Webinar Series) on “Recent Developments in Solar Energy Recovery and Storage Technologies” by St. Joseph’s College of Engineering, Chennai - 119 from 3 rd August 2020, Monday to 8 th August 2020, Saturday.</li> <li>➤ Attended a One Week AICTE Sponsored Short Term Training Programme on “Nanotechnology and Functional Materials” organized by S V College of Engineering, Tirupati, Andhra Pradesh from 17 th August 2020, Monday to 22 nd August 2020, Saturday.</li> </ul>
---	-------------------------	---

2	Mrs.N.Prasanna Iyer	<ul style="list-style-type: none"> <li>➤ Participated in " AICTE Sponsored Six days Online STTP-2 on "E-VEHICLE: An Opportunity for India" organised by Department of Mechanical Engineering, 03rd Aug to 08<sup>th</sup> Aug 2020</li> </ul>
3	Mr.G.Kasirajan	<ul style="list-style-type: none"> <li>➤ Participated in AICTE sponsored STTP on Composite Materials:Micro to Nano -Fabrication Characterization and Modelling including Additive Manufacturing organized by Rajalakshmi Engineering college from 31<sup>st</sup> August to 05<sup>th</sup> September 2020</li> </ul>
4	Mr.T.Balasubramanian	<ul style="list-style-type: none"> <li>➤ Participated in AICTE Sponsored Six days online STTP under the topic of “Smart Manufacturing – Opportunities and Challenges” organised by Department of Mechanical Engineering from 17th to 23rd August 2020</li> </ul>
5	Mr.M,Ganesh	<ul style="list-style-type: none"> <li>➤ Participated in AICTE Sponsored Six days online STTP under the topic of “Smart Manufacturing – Opportunities and Challenges” organised by Department of Mechanical Engineering from 17th to 23rd August 2020</li> </ul>
6	Mr.K.Pravin kumar	<ul style="list-style-type: none"> <li>➤ Participated in AICTE Sponsored Six days online STTP under the topic of “Smart Manufacturing – Opportunities and Challenges” organised by Department of Mechanical Engineering from 17th to 23rd August 2020</li> </ul>
7	Mr.G.Aswin Prabhu	<ul style="list-style-type: none"> <li>➤ Attended faculty development program on recent developments in solar energy recovery and storage technologies organized by St.Joseph’s college of engineering from 03.08.20 to 08.08.20</li> <li>➤ Attended webinar on emerging research Areas in Aerodynamics organized by Bannari amman institute of Technology from 03.08.20 to 08.08.20</li> <li>➤ Attended FDP on reliability, Maintainability and Quality issues in Process Industries(fdp) organized by dr. B. R. Ambedkar National institute of Technology from 04-08-20 to 10-08-20</li> <li>➤ Attended webinar on research Methodologies in Mechanical Engineering organized by Narsimha reddy Engineering college on 03-08-2020</li> <li>➤ Attended webinar on mechatronics, automation and Robotics organized by op Jindal university</li> <li>➤ Attended webinar on awareness on Ipr for new business Ideas &amp; schemes of MSME organized by sri Venkateshwara College of Engineering on 06-08-2020</li> </ul>



		<ul style="list-style-type: none"> <li>➤ Attended webinar on an insight into lean Methodology organized by sri Eswar college of Engineering on 06-08-2020</li> <li>➤ Attended webinar on vibration analysis Of rotating Machinery organized by mandsaar university on 10-08-2020</li> <li>➤ Attended webinar on revised bloom’s Taxonomy (a Refresher Approach) organized by narsimha reddy Engineering college on 16-08-2020</li> <li>➤ Attended webinar on entrepreneurship Awareness organized by r. R. Institute of Technology on 29-08-2020</li> <li>➤</li> </ul>	
8	Mr.V.Ashok Kumar	<ul style="list-style-type: none"> <li>➤ Attended Faculty Development Program On Recent Developments In Solar Energy Recovery And Storage Technologies organized by St.Joseph’s College of Engineering from 03.08.20 to 08.08.20</li> </ul>	
		➤	
<b>Achievements</b>			
1.	Mr.M,Arun	 <p>The certificate is from Anna University, Chennai, dated 23rd to 25th July 2020. It awards the second prize to Mr. M. Arun, Assistant Professor at St. Joseph's College of Engineering, Chennai. The award is for an essay writing competition on the topic 'Unity in diversity of Jammu &amp; Kashmir and Tamilnadu', organized by RUSA and EBSB Club of Anna University, Chennai. The certificate is signed by Prof. T. Sivakumar (RUSA Co-ordinator) and Prof. K. Premalatha (Nodal officer - EBSB).</p>	<ul style="list-style-type: none"> <li>➤ Mr.M.Arun Secured Second position in Essay writing competition on “unity in diversity of Jammu &amp; Kashmir and Tamilnadu” organized by RUSA ANDEBSB CLUB OF ANNA UNIVERSITY, CHENNAI</li> </ul>

## DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution																																									
1	 <p style="text-align: center;">Certificate of Online FDP on Blue Chips of the Current Industry – ML and Big Data</p>  <p style="text-align: center;">Certificate of Workshop on Deep Learning</p>  <p style="text-align: center;">Certificate of Online Training on Basics of Python Programming</p>	<b>Online FDP Attended by Faculty</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">S.No</th> <th style="width: 25%;">Title of the topic</th> <th style="width: 25%;">Name of the Staff</th> <th style="width: 25%;">Conducted By</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Data Science Fundamentals</td> <td>Dr.D.Logeshwari Dr.P.Kalaivani Dr. S. Sumathi J.Divya</td> <td>Department of IT, St. Joseph's College of Engineering in association with ISTE, Tamil Nadu Section</td> <td style="text-align: center;">27-07-20 to 31-07-20 (5 days)</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>5 days Online STTP on Machine Learning</td> <td>G.Manikandan Ms.Kripa Sekaran</td> <td>Department of IT, St. Joseph's Institute of Technology in association with Computer Society of India (CSI), Kancheepuram Chapter</td> <td style="text-align: center;">27-7-20 to 31-7-20 (5 days)</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Online FDP on Blue Chips of the Current Industry – ML and Big Data</td> <td>Dr.N.Gobalakrishnan</td> <td>Department of CSE, Sathyabama Institute of Science and Technology, Chennai</td> <td style="text-align: center;">30-7-20 to 4-8-20 (5 days)</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Workshop on Deep Learning</td> <td rowspan="2" style="text-align: center;">Dr.D.Logeshwari</td> <td>Department of CSE, Andhra Loyola Institute of Engineering and Technology, in association with Indian Servers Team</td> <td style="text-align: center;">3-8-20 &amp; 4-8-20 (2 days)</td> </tr> <tr> <td style="text-align: center;">5.</td> <td>Two days International FDP on fixed Point Theory and its Applications</td> <td>Department of Mathematics, St. Joseph's College of Engineering, Chennai</td> <td style="text-align: center;">8-8-20 &amp; 9-8-20 (2 days)</td> </tr> <tr> <td style="text-align: center;">6.</td> <td>Online One week STTP on Artificial Intelligence in Health Care</td> <td>Dr. S. Sumathi K.Priyadharshini</td> <td>Department of ECE, Kumaraguru College of Technology, in association with IE(I) Coimbatore Local Centre</td> <td style="text-align: center;">16-7-20 to 22-7-20 (7 days)</td> </tr> <tr> <td style="text-align: center;">7.</td> <td>Online Training on Basics of Python Programming</td> <td>K.Priyadharshini P.Thilakavathy</td> <td>SA Techno Solutions in association with TechI Sugan, Chennai</td> <td style="text-align: center;">03-08-20 to 08-08-20 (6 days)</td> </tr> </tbody> </table>			S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	Data Science Fundamentals	Dr.D.Logeshwari Dr.P.Kalaivani Dr. S. Sumathi J.Divya	Department of IT, St. Joseph's College of Engineering in association with ISTE, Tamil Nadu Section	27-07-20 to 31-07-20 (5 days)	2.	5 days Online STTP on Machine Learning	G.Manikandan Ms.Kripa Sekaran	Department of IT, St. Joseph's Institute of Technology in association with Computer Society of India (CSI), Kancheepuram Chapter	27-7-20 to 31-7-20 (5 days)	3.	Online FDP on Blue Chips of the Current Industry – ML and Big Data	Dr.N.Gobalakrishnan	Department of CSE, Sathyabama Institute of Science and Technology, Chennai	30-7-20 to 4-8-20 (5 days)	4.	Workshop on Deep Learning	Dr.D.Logeshwari	Department of CSE, Andhra Loyola Institute of Engineering and Technology, in association with Indian Servers Team	3-8-20 & 4-8-20 (2 days)	5.	Two days International FDP on fixed Point Theory and its Applications	Department of Mathematics, St. Joseph's College of Engineering, Chennai	8-8-20 & 9-8-20 (2 days)	6.	Online One week STTP on Artificial Intelligence in Health Care	Dr. S. Sumathi K.Priyadharshini	Department of ECE, Kumaraguru College of Technology, in association with IE(I) Coimbatore Local Centre	16-7-20 to 22-7-20 (7 days)	7.	Online Training on Basics of Python Programming	K.Priyadharshini P.Thilakavathy	SA Techno Solutions in association with TechI Sugan, Chennai	03-08-20 to 08-08-20 (6 days)
S.No	Title of the topic	Name of the Staff	Conducted By	Date																																							
1.	Data Science Fundamentals	Dr.D.Logeshwari Dr.P.Kalaivani Dr. S. Sumathi J.Divya	Department of IT, St. Joseph's College of Engineering in association with ISTE, Tamil Nadu Section	27-07-20 to 31-07-20 (5 days)																																							
2.	5 days Online STTP on Machine Learning	G.Manikandan Ms.Kripa Sekaran	Department of IT, St. Joseph's Institute of Technology in association with Computer Society of India (CSI), Kancheepuram Chapter	27-7-20 to 31-7-20 (5 days)																																							
3.	Online FDP on Blue Chips of the Current Industry – ML and Big Data	Dr.N.Gobalakrishnan	Department of CSE, Sathyabama Institute of Science and Technology, Chennai	30-7-20 to 4-8-20 (5 days)																																							
4.	Workshop on Deep Learning	Dr.D.Logeshwari	Department of CSE, Andhra Loyola Institute of Engineering and Technology, in association with Indian Servers Team	3-8-20 & 4-8-20 (2 days)																																							
5.	Two days International FDP on fixed Point Theory and its Applications		Department of Mathematics, St. Joseph's College of Engineering, Chennai	8-8-20 & 9-8-20 (2 days)																																							
6.	Online One week STTP on Artificial Intelligence in Health Care	Dr. S. Sumathi K.Priyadharshini	Department of ECE, Kumaraguru College of Technology, in association with IE(I) Coimbatore Local Centre	16-7-20 to 22-7-20 (7 days)																																							
7.	Online Training on Basics of Python Programming	K.Priyadharshini P.Thilakavathy	SA Techno Solutions in association with TechI Sugan, Chennai	03-08-20 to 08-08-20 (6 days)																																							

1



Certificate of Online FDP on Blue Chips of the Current Industry – ML and Big Data



Certificate of Workshop on Deep Learning



Certificate of Online Training on Basics of Python Programming

### Online FDP Attended by Faculty

S.No	Title of the topic	Name of the Staff	Conducted By	Date
8.	Data Science Fundamentals	Dr.D.Logeshwari Dr.P.Kalaivani Dr. S. Sumathi J.Divya	Department of IT, St. Joseph's College of Engineering in association with ISTE, Tamil Nadu Section	27-07-20 to 31-07-20 (5 days)
9.	5 days Online STTP on Machine Learning	G.Manikandan Ms.Kripa Sekaran	Department of IT, St. Joseph's Institute of Technology in association with Computer Society of India (CSI), Kancheepuram Chapter	27-7-20 to 31-7-20 (5 days)
10.	Online FDP on Blue Chips of the Current Industry – ML and Big Data	Dr.N.Gobalakrishnan	Department of CSE, Sathyabama Institute of Science and Technology, Chennai	30-7-20 to 4-8-20 (5 days)
11.	Workshop on Deep Learning	Dr.D.Logeshwari	Department of CSE, Andhra Loyola Institute of Engineering and Technology, in association with Indian Servers Team	3-8-20 & 4-8-20 (2 days)
12.	Two days International FDP on fixed Point Theory and its Applications		Department of Mathematics, St. Joseph's College of Engineering, Chennai	8-8-20 & 9-8-20 (2 days)
13.	Online One week STTP on Artificial Intelligence in Health Care	Dr. S. Sumathi K.Priyadharshini	Department of ECE, Kumaraguru College of Technology, in association with IE(I) Coimbatore Local Centre	16-7-20 to 22-7-20 (7 days)
14.	Online Training on Basics of Python Programming	K.Priyadharshini P.Thilakavathy	SA Techno Solutions in association with Techisugan, Chennai	03-08-20 to 08-08-20 (6 days)

2



Certificate of Webinar on Outcome based Education (OBE)- Competency Profile Mapping with Course and Course Outcomes

Certificate of Webinar on AI for Node failure prediction and recovery in Wireless Sensor Network



Certificate ID Number: E6c941556-588234413b646a5d1 July 28, 2020

**Webinar attended by Faculty**

S.No	Title of the topic	Name of the Staff	Conducted By	Date
1.	Webinar on Outcome based Education (OBE)- Competency Profile Mapping with Course and Course Outcomes	Dr. V.Muthulakshmi	Sri Eshwar College of Engineering, Coimbatore.	30-7-2020
2.	Redis-REmote DIctionary Server	Dr. L. Sherly Puspha Annabel	Department of CSE, Francis Xavier Engineering College in association with CSI and Institution's Innovation Council	29-7-2020
3.	AI for Node failure prediction and recovery in Wireless Sensor Network	J. Divya	Department of CSE, Panimalar Institute of Technology in Association with IEEE Computer Society & Computer Society of India.	14-08-2020



Certificate ID Number: E6c941556-588234413b646a5d1 July 28, 2020

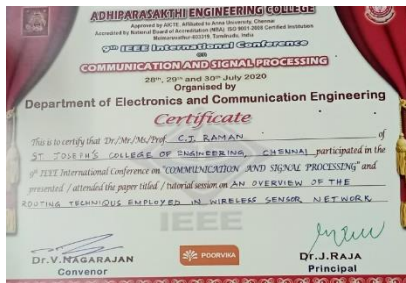
4

Certificates received  
through Online Course

### Online Courses by Staff

S. No.	Course Name	Name of the Staff	Conducted By	Date
1.	Big Data 101	Dr. N. Gobalakrishnan	Cognitive Class	28-07-2020
2.	Block Chain Essentials			30-07-2020
3.	Hadoop 101			14-08-2020
4.	Python 101 for Data Science			24-07-2020

5



**C. J. Raman et al.**, presented a paper in, International Conference on Communication and Signal Processing, Adhiparasakthi Engineering College, Melmaruvathur

### (Staff Publication - Conference)

**C. J. Raman, L. Javid Ali, N. Gobalakrishnan, K. Pradeep**, “An Overview of the Routing Techniques Employed in Wireless Sensor Network”, IEEE International Conference on Communication and Signal Processing, Adhiparasakthi Engineering College, Melmaruvathur, July 28-30, 2020

**Abstract.** Wireless Sensor Networks have found their reach in various domains that includes defense, medicine and environmental monitoring. The network is formed by a vast collection of sensor nodes which are stationed separately from one another. The information gauged by the sensors needs to be conveyed to the sink node so as to take the obligatory steps. Routing of the compiled information from the source node to any specific sink node, attaining minimal power consumption and minimizing the presence of congestion are some of the issues encountered in wireless sensor networks. This paper throws light upon a few of the routing techniques engaged in the network for the transmitting the sensed information.



**N. Gobalakrishnan et al.**, presented a paper in, International Conference on Communication and Signal Processing, Adhiparasakthi Engineering

**N. Gobalakrishnan, K. Pradeep, C.J. Raman, L Javid Ali and M.P. Gopinath**, “A Systematic Review on Image Processing and Machine Learning Techniques for Detecting Plant Diseases”, IEEE International Conference on Communication and Signal Processing, Adhiparasakthi Engineering College, Melmaruvathur, July 28-30, 2020

**Abstract.** This article throws light upon such techniques in the form of a survey that had been carried out comprehensively covering various image based plant leaf diseases. Such diseases are mostly grievous and they strike at any part of the plant. There are huge accumulated losses due to such diseases that bring down the productivity and increase the economic losses in the agricultural industry. Agriculture industry needs to sustain and evolve from such obstacles to be highly profitable. This can be done by precisely monitoring the health and detecting the diseases at appropriate stages of the plant’s life time. Technology has spread its wings in every field of day to day life but still its reach in the field of agriculture is not up to the mark. Agriculture industry is still thriving on outdated technical methodologies. Improper diagnosis of plant disease may lead to huge losses in terms of production, time, cost and product quality. The condition of the plant needs to be tracked throughout its growing stages leading to successful cultivation. As part of technological innovation, researchers had been applying the image processing techniques for monitoring as well as diagnosing the plant diseases in its various stages.

6

**INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY**

RESEARCH ARTICLE

Machine Learning Approach to Analyse Ensemble Models and Neural Network Model for E-Commerce Application

**P. Kalaivani<sup>1</sup>, S Selvi<sup>2</sup>**

**Abstract**  
The main objective of this study is to compare the performance evaluation of ensemble based methods and neural network learning on various combinations of unigram, bigram, and trigram feature vector along with feature selection (IG) and feature reduction (PCA) for sentiment classification of movie reviews. **Methods:** Bagging and Adaboost are the techniques used in ensemble learning to learn the sentiment classifier to get better classification accuracy, using SVM, NB as a core learner for different models of attribute vectors. The classification results of the ensemble approach are compared with neural network learning for classification of movie reviews. Among the ensemble methods, AdaBoost with base learner SVM outperforms in classifying attribute vectors for model m-iii. The backpropagation algorithm is used to improve classification accuracy in the neural network learning and IG and PCA are used in sentiment classification to reduce the feature length and training time. **Findings:** The classification results of ensemble based approach are compared with neural network learning. Between the two ensemble based methods, AdaBoost + SVM outperforms in classifying the sentiment of movie reviews for model m-iii. IG and PCA are used in sentiment classification in order to reduce the feature length. Between the IG and PCA methods, IG performs better than PCA. Among IG+AdaBoost+SVM and neural network learning methods, IG+AdaBoost+SVM performs better than neural network learning. **Improvements:** In our application, we are using the ensemble based methods and neural network learning, these methods are compared and analysed the performance for various levels of feature vectors. A classification algorithm may be designed to analyse the performance with other neural network methods.  
**Keywords:** Machine learning; sentiment classification; bagging; Adaboost; ensemble learning; back propagation neural network; feature selection; [https://doi.org/10.17485/IJST/v13i28.927](#)

**P. Kalaivani** published a paper in Indian Journal of Science and Technology

**(Staff Publication - Journal)**

**P Kalaivani, S Selvi**, “Machine Learning Approach to Analyse Ensemble Models and Neural Network Model for E-Commerce Application”, Indian Journal of Science and Technology, Publisher: Indian Society for Education and Environment, Print ISSN: 0974-6846, Electronic ISSN: 0974-5645, <https://doi.org/10.17485/IJST/v13i28.927>, Vol. 13, No. 28, pp. 2849-2857, Aug 2020.

**Abstract:** The main objective of this study is to compare the performance evaluation of ensemble based methods and neural network learning on various combinations of unigram, bigram, and trigram feature vector along with feature selection (IG) and feature reduction (PCA) for sentiment classification of movie reviews. Bagging and Adaboost are the techniques used in ensemble learning to learn the sentiment classifier to get better classification accuracy, using SVM, NB as a core learner for different models of attribute vectors. The classification results of the ensemble approach are compared with neural network learning for classification of movie reviews. Among the ensemble methods, AdaBoost with base learner SVM outperforms in classifying attribute vectors for model m-iii. The backpropagation algorithm is used to improve classification accuracy in the neural network learning and IG and PCA are used in sentiment classification to reduce the feature length and training time. **Findings:** The classification results of ensemble based approach are compared with neural network learning. Between the two ensemble based methods, AdaBoost + SVM outperforms in classifying the sentiment of movie reviews for model m-iii. IG and PCA are used in sentiment classification in order to reduce the feature length. Between the IG and PCA methods, IG performs better than PCA. Among IG+AdaBoost+SVM and neural network learning methods, IG+AdaBoost+SVM performs better than neural network learning. **Improvements:** In our application, we are using the ensemble based methods and neural network learning, these methods are compared and analysed the performance for various levels of feature vectors. A classification algorithm may be designed to analyse the performance with other neural network methods.  
**Keywords:** Machine learning; sentiment classification; bagging; Adaboost; ensemble learning; back propagation neural network; feature selection; <https://doi.org/10.17485/IJST/v13i28.927>



7



**C. Heltin Genitha et al.,**  
published a paper in, Journal of  
Indian Society of Remote Sensing  
(Springer), Annexure-I

**(Staff and Student Publication - Journal)**

**C. Heltin Genitha, M. Sowmya and Tharani Sri,** “Comparative Analysis for the Detection of Marine Vessels from Satellite Images Using FCM and Marker-Controlled Watershed Segmentation Algorithm”, Journal of Indian Society of Remote Sensing, Publisher: Springer, Print ISSN: 0255-660X, E-ISSN: 0974-3006, <https://doi.org/10.1007/s12524-020-01148-x>, Aug 2020.

**Annexure-I, Impact Factor-0.997**

**Abstract.** The security of maritime activity is enhanced by the detection of marine vessels. Satellite images are used to detect the marine vehicles irrespective of extreme weather conditions. In this work two different methodologies such as Fuzzy C means (FCM) and marker-controlled watershed segmentation algorithms are developed and demonstrated to detect the marine vehicles from satellite images. The watershed algorithm can effectively visualize an image in three dimensions and easily segments three dimensional images. On the other hand, the number of iterations needed to achieve a specific clustering exercise in FCM is very less. It calculates the distance between the pixels and the cluster centers in the spectral domain to calculate the membership function. Experiments are carried out using IKONOS image of 4m resolution. The results obtained show that there is an increase in accuracy for marker-controlled watershed algorithm when compared to FCM algorithm

8

(12) PATENT APPLICATION PUBLICATION (19) INDA	(21) Application No. 202041033269 A
(32) Date of Filing of Application: 03/08/2020	(43) Publication Date: 21/08/2020
(54) Title of the invention : SELF-DETECT AND AUTO CONTROL VOICE ALERT FOR AIRCRAFT COLLISION PREVENTION SYSTEM USING RSSI AND EMBEDDED C	
(71) Name of Applicant : DR. S. BASKARAN Address of Applicant : 17, CMB Complex, Rajaraj Street, Thiruvananthapuram - 696 001, Tamil Nadu, India Tamil Nadu India 2/06, PRATHAP MANI DR. A. NEDUMARAN DR. G. IRUSAPPARAJAN DR. S. SUMATHI DR. B. BUVANA SURESH P LAL S. M. VIJAYARAJAN K. LATHA	(72) Name of Inventor : DR. S. BASKARAN DR. PRATHAP MANI DR. A. NEDUMARAN DR. G. IRUSAPPARAJAN DR. S. SUMATHI DR. B. BUVANA SURESH P LAL S. M. VIJAYARAJAN K. LATHA
(51) International Classification: G06K 9/03	
(52) Priority Document No.: NA	
(53) Priority Date: NA	
(54) Name of primary country: NA	
(56) International Application No.: NA	
(57) Filing Date: NA	
(58) International Publication No.: NA	
(59) Patent of Addition to Application Number: NA	
(60) Filing Date: NA	
(61) Divisional to Application Number: NA	
(62) Filing Date: NA	
(57) Abstract: ABSTRACT SELF-DETECT AND AUTO CONTROL VOICE ALERT FOR AIRCRAFT COLLISION PREVENTION SYSTEM USING RSSI AND EMBEDDED C This invention is related to the field of electronics and transportation systems. More particularly the invention is directed to a collision avoidance alert system for aircraft. SDC-A is a self-detect Collision Avoidance System. It is a system equipped on an aircraft that identifies the signal strength between the planes. The goal of SDC-A is to prevent mid-air collision between aircraft operating within the same airspace by warning pilots of equipped aircraft that may present a collision threat. SDC-A operates independently of Air Traffic Control (ATC) by communicating with other aircraft to build a RSSI of aircraft in the same airspace. By extrapolating the current range and altitude difference to anticipated future values, SDC-A determines the potential of a collision threat.	
No. of Pages : 13 No. of Claims : 2	

**Dr. S. Sumathi** published a patent entitled “Self-Detect and Auto Control Voice Alert for Aircraft Collision Prevention System Using RSSI and Embedded C”

**PATENT PUBLISHED**

**Title of the invention :** SELF-DETECT AND AUTO CONTROL VOICE ALERT FOR AIRCRAFT COLLISION PREVENTION SYSTEM USING RSSI AND EMBEDDED C

**Name of Inventor :**

1. Dr. S. BASKARAN
2. Dr. PRATHAP MANI
3. Dr. A. NEDUMARAN
4. Dr. G. IRUSAPPARAJAN
5. **Dr. S. SUMATHI**
6. Dr. K. VIJI
7. Dr. D. BUVANA
8. SURESH P LAL
9. S. M. VIJAYARAJAN
10. K. LATHA

**Application No:** 202041033269 A  
**Date of filing of Application :** 3-8-2020



Publication Date : 21-8-2020

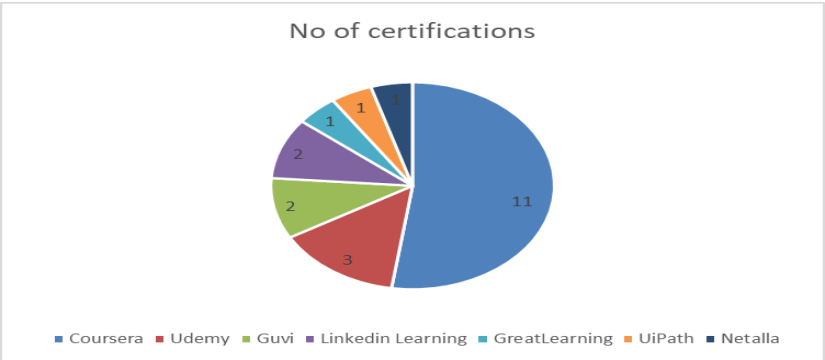
9



Sample Online Certifications

**Student Online Certifications**

21 online certifications have been obtained by the students from some of the reputed online course platforms



### Alumni Events during Covid

**St. JOSEPH'S COLLEGE OF ENGINEERING**  
St. Joseph's Group of Institutions  
OMR, Chennai-119  
DEPARTMENT OF INFORMATION TECHNOLOGY  
ESTD: 1997

**Digital Elite Camp**  
Selecting campus with corporate  
Recent Advances in IT Industry - A Practical Perspective

**CONVENORS**  
Ms. G. Lathaselvi  
Dr. V. Muthulakshmi

**COORDINATORS**  
Dr. Lilly Raamesh  
Mr. G. Manikandan  
Ms. S. Anitha  
Ms. J. Thresa Jeniffer

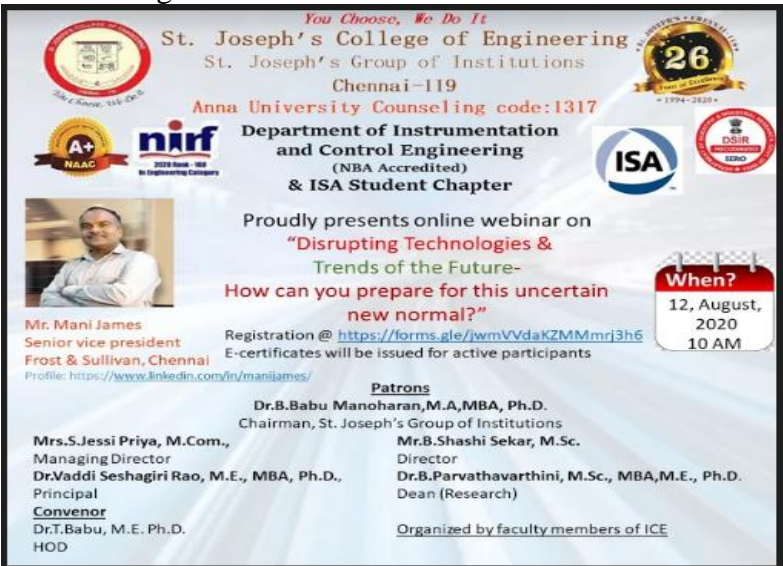
REGISTRATION IS FREE  
<https://nit.edu.com/digitalelitecamp>

Contact Us  
9445054773  
9445053255  
9445053172  
9471077654

### Alumni Events during Covid

S.No	Date	Topic	Name of the Alumini	No of Participants
1.	04.07.2020	Product Management & Strategy	Mr. Aswin Rangarajan Business Advisory Consultant ASG Group Sydney, Australia.	99
2.	05.07.2020	Careers with Free /Libre and Open Source Software	Mr. SHAKTHI KANNAN Researcher, IIT-Madras.	86
3.	05.07.2020	Neural System in Payments Detection and Fraud Prevention	Mr. Murukanantham SA Director, Core payments and Enterprise Architecture, Mastercard International.	89
4.	10.07.2020	Navigating the Cloud Computing Opportunities and Challenges	Mr. SIDDHARTH Manager(Forensics Practice) Ernst & Young, New Jersey	57
5.	11.07.2020	Current Trends in Software Industry	Mr. YOGESH P Director, Railsdata Software Pvt. Ltd	72
6.	11.07.2020	Application Security 2020-2030: Opportunities and skills	1. Mr. Rahul Raghavan AppSec Advocate, We45 solutions 2. Mr. Sudharshan N Practice Head – DevSecOps We45 solutions	49
7.	12.07.2020	Networking Certification and Career	Mr. Thulasi Ram Associate Consultant, HCL Technologies	69
8.	18.07.2020	Exploring Cloud Technology Migration and Career	Mr. Venkatesh Anbalagan Principal Software Engineer Fidelity Investments	55
9.	19.07.2020	Integration Patterns with latest Tech/Cloud	Mrs. Chithra Devi S Technology Architect Cognizant Technology Solutions, Plano, Texas.	59
10.	25.07.2020	Introduction to Planning & Budgeting Solutions	Mrs. Lakshmi Anand Solutions Architect, Perficient Inc. Redmond, Washington	52
11.	26.07.2020	Current States and Research Area in the field of AI	Mr. Rajarajan Socrates CEO & Founder of Singularbase, Liquid Common, Albuquerque, New Mexico	64
12.	26.07.2020	Introduction to Data Ecosystem	Mr. Sathish S Data Architect, Paypal	65

## DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks
1	<p style="text-align: center;"><b>Webinar-Organized</b></p> 	<p>Date: August 12, 2020</p> <p>Topic: Disrupting Technologies &amp; Trends of the Future-How can you prepare for this uncertain new normal?</p> <p>Resource person: Mr. Mani James, Senior vice president, Frost &amp; Sullivan, Chennai</p> <p>No of Participant: 99</p>
2	<p style="text-align: center;"><b>Webinar-Organized</b></p>	<p>Date: August 15, 2020</p> <p>Topic: Fundamentals of Digital image processing and its application</p> <p>Resource person: Dr. W. Devapriya, Associate professor, KSR institute of Engineering and Technology, Namakkal</p> <p>No of Participant: 58</p>

*You Choose, We Do It*  
**St. Joseph's College of Engineering**  
 St. Joseph's Group of Institutions  
 Chennai-119  
 Anna University Counseling code:1317

**Department of Instrumentation and Control Engineering**  
 (NBA Accredited)  
 & ISA Student Chapter

Proudly presents online webinar on  
**Fundamentals of Image Processing and its Applications**

**When?**  
 15, August, 2020  
 10 AM

Registration @ <https://forms.gle/4vK1n8t3qrNw200>  
 E-certificates will be issued for active participants

**Patrons**  
**Dr.B.Babu Manoharan M.A,MBA, Ph.D.**  
 Chairman, St. Joseph's Group of Institutions  
**Mr.B.Shashi Sekar, M.Sc.**  
 Director  
**Dr.B.Parvathavarthini, M.Sc., MBA,M.E., Ph.D.**  
 Dean (Research)

**Mrs.S.Jessi Priya M.Com.,**  
 Managing Director  
**Dr.Vaddi Seshagiri Rao, M.E., MBA, Ph.D.,**  
 Principal  
**Convenor**  
**Dr.T.Babu, M.E, Ph.D.**  
 HOD

Organized by faculty members of ICE

3 Webinar-Organized

*You Choose, We Do It*  
**St. Joseph's College of Engineering**  
 St. Joseph's Group of Institutions  
 Chennai-119  
 Anna University Counseling code:1317

**Department of Instrumentation and Control Engineering**  
 (NBA Accredited)  
 & ISA Student Chapter

Proudly presents online webinar on  
**"Post-Pandemic Job Opportunities Worldwide"**

**When?**  
 16, August, 2020  
 10.30 AM

Registration @ <https://forms.gle/3DxpwNF3T52XZam36>  
 E-certificates will be issued for active participants

**Patrons**  
**Dr.B.Babu Manoharan M.A,MBA, Ph.D.**  
 Chairman, St. Joseph's Group of Institutions  
**Mr.B.Shashi Sekar, M.Sc.**  
 Director  
**Dr.B.Parvathavarthini, M.Sc., MBA,M.E., Ph.D.**  
 Dean (Research)

**Mrs.S.Jessi Priya, M.Com.,**  
 Managing Director  
**Dr.Vaddi Seshagiri Rao M.E., MBA, Ph.D.,**  
 Principal  
**Convenor**  
**Dr.T.Babu, M.E, Ph.D.**  
 HOD

Organized by faculty members of ICE


**nirf** 2020 RANK - 160 IN ENGINEERING CATEGORY  
**ISA**  
**Cambridge** English Qualifications

Date: August 16, 2020

Topic: Post Pandemic Job Opportunities-Worldwide

Resource person: Asma Mukadam, Career Strategist, Upbright, Qatar

No of Participant: 34

4	<p>Course</p> 	<p>Date: August 19, 2020</p> <p>TOPIC: English Course - Expressions (Upper-Intermediate Level)</p> <p>Organizer: Alison online course</p> <p>No. of Participant:01</p>
5	<p>Course</p>	<p>Date: August 19, 2020</p> <p>TOPIC: Industrial Engineering - Control Valve Basics</p> <p>Organizer: Alison online course</p> <p>No. of Participant:01</p>



### Learner Achievement Verification

This is to certify that the management of Alison has decided to award Keerthanaa A living in India the certificate of completion in Industrial Engineering - Control Valve Basics.

#### Learner Details

	<b>Name:</b> Keerthanaa A	
	<b>E-mail:</b> keerthanaaathi2000@gmail.com	
	<b>Country:</b> India	

#### Course and Result

	<b>Industrial Engineering - Control Valve Basics</b>
<b>Score</b> 80%	This free online course Industrial Engineering - Control Valve Basics will give you all the information you need to know about valve types and can also be used as a refresher course. Every engineering process requires the ability to stop, start and regulate (throttle) flow. Valves are thus a fundamental part of any system that conveys gases, liquids or solids. Irrespective of your engineering background (oil and gas, chemical engineering, HVAC, mechanical engineering, automotive engineering etc.
<b>Study Time</b> 3:01:58	

#### Modules Studied

- Module 1: Control Valve Basics
- Module 2: Course assessment

FDP



Date: 27 July to 1st August, 2020

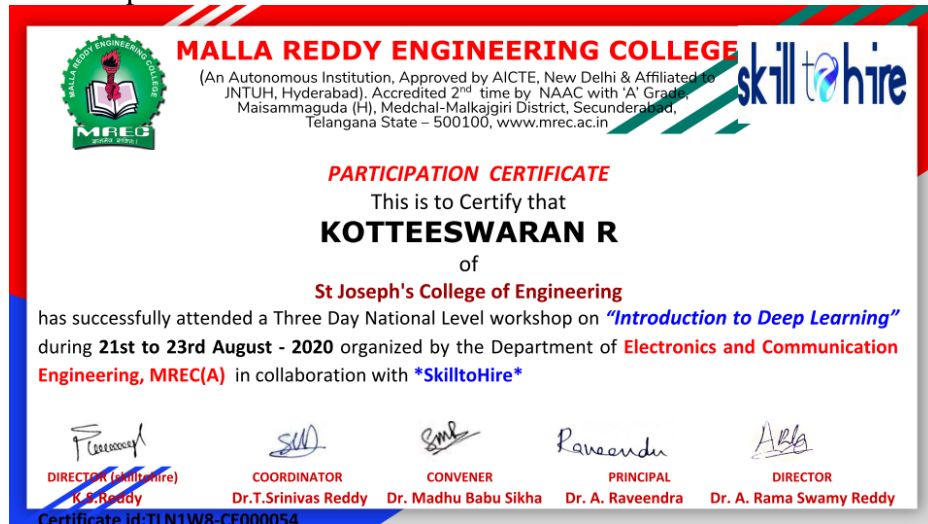
TOPIC: Fostering an effective research environment and Industrial collaborations in Engineering education

Organizer: Chem Department ,SJCE

No. of Participant:04



7 Workshop



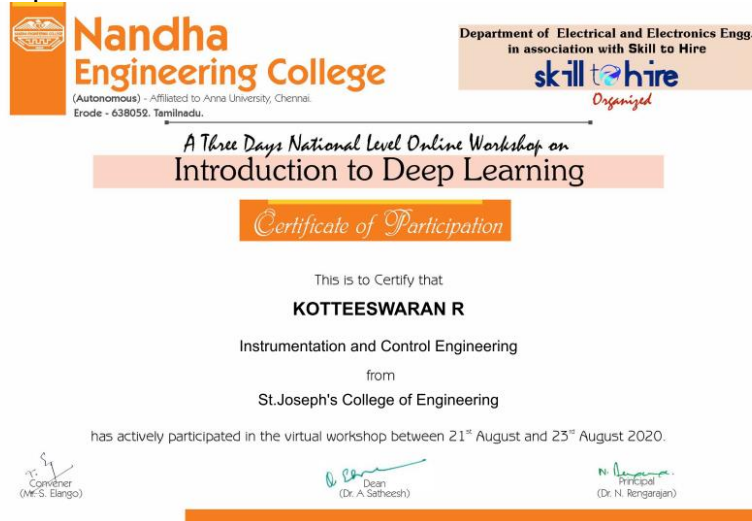
Date: 21-23 August, 2020

Title: Workshop on 'Introduction to deep learning'

Organizer: Malla Reddy Engineering college

No of participant:1

8 Workshop



Date: 21-23 August, 2020


Title: Workshop on 'Introduction to deep learning'

Organizer: Nandha Engineering college

No of participant:1



## DEPARTMENT OF MATHEMATICS

Events	Remarks				
<b>FDP/Workshop/Conference</b>					
 <p style="font-size: small;">FACULTY DEVELOPMENT PROGRAM</p>	S. No	Name of the Staff	Topic Name	Date	Organized by
	1.	Dr.V. Vallinayagam	Recent Advances in Mathematics & Statistics	03/08/2020 to 08/08/2020	GITAM University
			Three-Day International Conference on Productive Mathematical Discourse,	03-08-2020	Christ Nagar College
	2	Dr. K. Sasikala	Application and Implements of Mathematics	17/8/2020 to 23/08/2020	Hindustan College of Engineering and Technology
	3	Dr. Sweety I Diamond	Applications of mathematics in Engineering	25/8/2020 to 28/8/2020	KPR Institute of Engineering and Technology
	4	Dr. H. Geetha	Recent trends in Advanced Mathematics and Statistics	03/08/08/2020 to 8/8/2020	GITAM University
			Modern Mathematical Tools in Calculus and Analytics	10/08/2020 to 14/08/2020	Kumaraguru College of Technology
	5	Dr. G. Meena Devi	Flipped Classroom	15/8/2020	Anjuman-I-Islam Kalsekar Technical Campus
			Recent Advances in Mathematics and Statistics	3/8/2020 to 8/08/2020	GITAM University
			Role of Applied Sciences in Industry & Engineering	2/8/2020 to 6/08/2020	University College of Engineering(A), Osmania University
			Envision the excellence in teaching online	3/8/2020 to 5/08/2020	Nirmala college for Women
	6	Dr. G. Purushothaman	Modern Mathematical Tools in Calculus and Analytics	10-08-2020 to 14-08-2020	Kumaraguru College of Technology
	7	Mr.K.S. Sudhakhar	Productive Mathematical Discourse	3/8/2020	Christ Nagar College
			Contemporary Research Practices in Media Studies & Industry-Academia interface-2020	01-05/08/2020	Amity University
Recent Advances in Mathematics and Statistics			03-08/08/2020	GITAM University	
Modern Mathematical Tools in Calculus and Analytics			10-14/08/2020	Kumaraguru College of Engineering	

		Mathematical Analysis - Visualization and Applications	20/08/2020-04/09/2020	St. John's College
		Inventory Modeling 2020	22-23/08/2020	Gujarat University
8	Dr.N. Jose Parvin Praveena	Teaching Vocabulary and its contextualization	12/8/2020 to 14/8/2020	Thirumala Engineering College
		Perspectives of Green Chemistry in Research	12/8/2020 to 14/8/2020	Thirumala Engineering College
		Matlab and its applications	17/8/2020 to 19/8/2020	Bishop Cotton Women's Christian College
		Application and Implements of Mathematics	17/8/2020 to 23/08/2020	Hindustan College of Engineering and Technology
		Contemporary Amelioration in Nano Structured Materials	21/08/2020 to 27/08/2020	Jeppiar Engineering College
9	Dr.P. Agilan	Recent Advances in Mathematics & Statistics	03/08/2020 to 08/08/2020	GITAM University
		Three-Day International Conference on Productive Mathematical Discourse,	03-08-2020	Christ Nagar College
		Frontiers of Mathematics	17/08/2020 to 26/08/2020	SRM Institute of Science and Technology
10	Ms. K. Manasa	National FDP on Nano Technology	12/08/2020 to 14/08/2020	Thirumala Engineering College
		Perspectives of Green Chemistry in Research	12/8/2020 to 14/8/2020	Thirumala Engineering College
11	Ms. A. Sathiya Jothi	High Impact Teaching Skills and Mind Mapping for Teaching	19/08/2020 to 20/08/2020	Manipal Academy of Higher Education



S. No	Name of the Staff	Topic Name	Date / No of Days	Organized by
1	Dr. S. Annadurai	SAGE for Mathematics and Engineering	07-08-2020	Bannari Amman Institute of Technology
2	Ms.B.Shoba	Modern Mathematical Tools in Calculus and Analytics	10/8/2020 to 14/08/2020	Kumaraguru College of Technology
3	Dr.N. Jose Parvin Praveena	Modern Mathematical Tools in Calculus and Analytics	10/8/2020 to 14/08/2020	Kumaraguru College of Technology
4	Dr.P. Agilan	SAGE for Mathematics and Engineering	07-08-2020	Bannari Amman Institute of Technology
6	Ms.K.Manasa	One Week International e-Workshop on Language Translation Skills	08/08/2020-12/08/2020	Higher Education Department
		Motivational workshop	07/08/2020	Dr.B.R.Ambedkar College



S. No	Name of the Staff	Topic Name	Date	Organized by
1.	Dr. V. Vallinayagm	Applications of PDEs in Aeroacoustics Simulations	01/08/2020	Sri Venkateshwara College of Engineering
		Mathematical Modelling and problem solving using sage math	04/08/2020to05/08/2020	Sri Venkateswara College of Engineering
		Business Application of Deterministic & Stochastic Transportation Models	08/08/2020	Crescent Institute of Science and Technology
		International Webinar on Special Functions and Discrete Mathematics	02/08/2020 to 05/08/2020	University of Kerala
		Application of Statistics	18/08/2020	Michael Jacob College of Arts and Science for Women
2	Dr. S. Annadurai	Special Functions and Discrete Mathematics	02/08/202002 to 05/08/2020	University of Kerala
		Mathematical Modelling and problem solving using sage math	04/08/2020to05/08/2020	Sri Venkateswara College of Engineering
		Application and implement of Mathematics	17/08/202002 to18/08/2020	Hindustan College of Engineering and Technology
		Application of Statistics	18/08/2020	Michael Jacob College of Arts and Science for Women
3	Dr.K.Sasikala	International Webinar on Neutrosophic Sets	03/08/2020 to 04/08/2020	SSN College of Engineering
4	Dr. H. Geetha	Special Functions and Discrete	02/08/202002	University of Kerala

		Mathematics	to 05/08/2020	
5	Dr.G. Meena Devi	Fundamentals of Digital Image Processing and its Application	15/8/2020	St. Joseph's College of Engineering
		Mastering ICT Tools for Teaching and Learning Process	7/8/2020	SRM Institute of Science and Technology, Ramapuram Campus
6	Mr.K.S. Sudhakhar	Applications of PDEs in Aeroacoustic Simulations	1/8/2020	Sri Venkateswara College of Engineering
		On Time Scale : A Survey with Analysis	2/8/2020	Cauvery College for Women
		Mathematical Modelling and Problem-Solving using Sagemath	5/8/2020	Sri Venkateswara College of Engineering
		Business Applications of Deterministic & Stochastic Transportation Models	8/8/2020	Crescent University
		In-Built Quality- The Differentiator	11/8/2020	Sri Eshwar College of Engineering
		Application of Differential Equations in Civil Engineering	11/8/2020	Kumaraguru College of Engineering
		Special Functions and Discrete Mathematics	02-05/08/2020	University of Kerala
		Librarian's Day- Library E-Resource Reference Management	04-06/08/2020	Aiman College of Arts and Science for Women
		The Role of Applied Mathematics in Present Global Crises	05-07/08/2020	Vidyasagar University
		Maths Ecstasy: An Online Odyssey Through Mathematics	15/08/2020	Career Development Centre,Perambra
Applications of Statistics	18/08/2020	Michael Job College of Arts and Science for Women		
Advances in Mathematical Modelling of Infectious Diseases	31/08/2020	Tezpur University		
7	Mr. G. Venkat Narayanan	Special Functions and Discrete Mathematics	02/08/2020 to 05/08/2020	University of Kerala
8	Ms. B. Shoba	Special Functions and Discrete Mathematics	02/08/2020 to 05/08/2020	University of Kerala
		Bessel Functions :Zeroes and Applications	07/08/2020	Nehru Institute of Technology
9	Ms. S. M. Balaji	International Webinar on Neutrosophic Sets	03/08/2020 to 04/08/2020	SSN College of Engineering
10	Mr.K.Suresh	VIDYA ( Science of Happiness )	01/08/2020	Sri Eshwar College of Engineering

			Mathematical Modelling and Problem-Solving using Sage Math	04/08/2020 to 05/08/2020	Sri Venkateswara College of Engineering
			Business Application of Deterministic & Stochastic Transportation Models	08/08/2020	Crescent Institute of Science and Technology
			Applications of Statistics	18/08/2020	Michael Job College of Arts and Science
	11	Dr.P.Agilan	Applications of PDEs in Aeroacoustic Simulations	01/08/2020	Sri Venkateswara College of Engineering
			Mathematical Modelling and problem solving using sage math	04/08/2020 to 05/08/2020	Sri Venkateswara College of Engineering
			Business Application of Deterministic & Stochastic Transportation Models	08/08/2020	Crescent Institute of Science and Technology
			International Webinar on Special Functions and Discrete Mathematics	02/08/2020 to 05/08/2020	University of Kerala
			Application of Statistics	18/08/2020	Michael Jacob College of Arts and Science for Women
			Applications of Transforms and Differential Equations	05/08/2020	K.M.G College of Arts and Science
			In-Build Quality The Differentiator	11/08/2020	Sri Eshwar College of Engineering
			Web Talk on Kidny Health	13/08/2020	Savour Relief Fund Organization
	12	Dr.U. Venkateswara	Embracing Wordsworth :A Quarter-millennial Commemoration	01/08/2020	Kamaraj College
			Higher Education in India : A review	05/08/2020	Nesamony memorial christian college
			Assessing Online Learning Effectively	05/08/2020	Nesamony memorial christian college
			Anatomizing Gender	10/08/2020 to 14/08/2020	Annai Velankanni College for women
			Three Day Webinar Series on Language and Literature	19/08/2020 to 21/08/2020	SRM Institute of Science and Technology
	13	Ms.K.Manasa	International Webinar on Plagues, Pandemics and Literature	03/08/2020	Dakshin Kamrup College
			International Webinar on Humanities in Crisis	04/08/2020	S.S.Khanna Girl's Degree College
			International E-Seminar on High Skilled Migration during and post Covid 19	04/08/2020	GRFDT
			Webinar on Think Differently to Edge over Competition	06/08/2020	St.Joseph's College of Engineering
			Webinar on Gender Binaries and Screen	08/08/2020	Providence College for Women

			Representation		
			International Webinar on Biohazard Environment , Health and Safety	08/08/2020	Dakshin Kamrup College
			Webinar on Disaster Resilient India 2030	08/08/2020	Sree Ayappa College
			Webinar on Nurturing the Inner Self through Mediation	10/08/2020	St.Thomas College
			International E-Seminar on USA policies on Migration: Lessons from India and Mexico	11/08/2020	GRFDT
			Webinar on Disaster Resilient India 2030	15/08/2020	Sree Ayappa College
			International E-Seminar on Business and Transitional Justice	18/08/2020	GRFDT
			State Level Webinar on Gendered Roles : Housework and Pandemic	19/08/2020	Prabhu Jagatbandhu College
			International Lecture Series- Understanding NEP 2020	19/08/2020	Netaji Subhash Mahavidyalaya
			State Level Webinar on Career Advancement Scheme	22/08/2020	Khalisani Mahavidhyalaya
			International Webinar on The Strong Gender	22/08/2020	Kamaraj College
			International Interdisciplinary Webinar on Empowering Women, Empowering All	29/08/2020	Mahashtala College
	14	Ms.A. Sathiya Jothi	7 Critical steps in research writing	25-08-2020	Arumugan Pillai Sethai Ammal College
			Disaster Resilient India 2030	01-08-2020	Sri Ayyapa College for women
			Folk Narratives: from the Past into Future	05-08-2020	Holy Cross College
			Introduction to Indian English Literature and "Short Fiction in Indian English Literature: An Overview	16-08-2020	Thiruvalluvar University Constituent College Of Arts& Science
			Practical approach to understand English Literature	17-08-2020	Annai Violet Arts & Science College
			Linguistics and its Nexus	19/08/2020	Annai Violet Arts & Science College
			Literary Appreciation and Interpretation	21-08-2020	Annai Violet Arts & Science College
			Environmental Theatre and Language Teaching	24/08/2020 to 26/08/2020	Madras Christian College
			The Strong Gender	22-08-2020	Kamaraj College

			7 Critical steps in research writing	25-08-2020	Arumugan Pillai Sethai Ammal College
			Grooming Students with Facets of Life skills & Communication skills - A Vital Requisite for success	26-08-2020	Balaji Institute of Technology & Science
			7 Critical steps in research writing	25-08-2020	Arumugan Pillai Sethai Ammal College

St. Joseph's College of Engineering  
St. Joseph's Group of Institutions  
Counselling Code: 1317  
DEPARTMENT OF MATHEMATICS  
organizes  
**One Day National Webinar On HyperGraphs as Model of Networks**  
07-08-2020  
10am-11:00am  
**Dr. JOSEPH VARGHESE**  
Professor,  
Department of Mathematics,  
Christ University, Bangalore  
REGISTRATION LINK: <https://forms.gle/0V2qg859qz94WwD9>  
**CHAIRPERSON**  
Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D.,  
Chairman,  
St. Joseph's Group of Institutions  
**CONVENOR**  
Mrs. S. Jyothi Priya, M.Com.,  
Managing Director,  
St. Joseph's Group of Institutions  
Dr. V. Sankaranarayanan, M.E., M.B.A., Ph.D.,  
Principal, St. Joseph's College of Engineering  
Dr. B. Ramasubramanian, M.E., Ph.D.,  
Dean, St. Joseph's College of Engineering  
**STAFF COORDINATORS**  
Dr. K. Sankala  
Ms. B. Shoba  
Dr. N. Jose Parvin Praveena  
Dr. S. Sreejith  
Dr. S. S. Sankar, M.Sc., D.Phil., BUSTANES,  
Director,  
St. Joseph's Group of Institutions  
Dr. B. Ramasubramanian, M.E., Ph.D.,  
Dean, St. Joseph's College of Engineering  
Dr. K. Sankala  
Dr. S. S. Sankar, M.Sc., D.Phil., BUSTANES,  
Director,  
St. Joseph's Group of Institutions  
Dr. N. Jose Parvin Praveena  
Dr. S. S. Sankar, M.Sc., D.Phil., BUSTANES,  
Director,  
St. Joseph's Group of Institutions

**A One-day National Webinar on "Hypergraphs as Model Networks"** was successfully conducted in St. Joseph's College of Engineering on 07<sup>th</sup> August 2020 by the Department of Mathematics. The program received an overwhelming response with 125 participants from various academic institutions in Tamil Nadu under GoToMeeting online platform.

The resource person **Dr. Joseph Varghese, Professor, Christ University** explained briefly about **Hypergraphs as Model Networks**.

The Presenter shared their knowledge with participants using power point presentations, questionnaire sessions etc. It helped to make the subjects fully comprehensible and created interest among the participants.

St. Joseph's College of Engineering  
St. Joseph's Group of Institutions  
Counselling Code: 1317  
DEPARTMENT OF MATHEMATICS  
organizes  
**Two Days International Faculty Development Program On Fixed Point Theory and Its Applications**  
08-08-2020  
4pm-5pm  
09-08-2020  
1pm-5pm  
**Dr. Rajinder Sharma**  
Lecturer,  
College of Applied Sciences,  
Sohar, Oman  
**Dr. Deepthi Thakur**  
Assistant Professor,  
College of Applied Sciences,  
Sohar, Oman  
REGISTRATION LINK: <https://forms.gle/9V5kx0Kv8m5d8Wg9>  
**CHAIRPERSON**  
Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D.,  
Chairman,  
St. Joseph's Group of Institutions  
**CONVENOR**  
Mrs. S. Jyothi Priya, M.Com.,  
Managing Director,  
St. Joseph's Group of Institutions  
Dr. V. Sankaranarayanan, M.E., M.B.A., Ph.D.,  
Principal, St. Joseph's College of Engineering  
Dr. B. Ramasubramanian, M.E., Ph.D.,  
Dean, St. Joseph's College of Engineering  
**STAFF COORDINATORS**  
Dr. K. Sankala  
Ms. B. Shoba  
Dr. N. Jose Parvin Praveena  
Dr. S. S. Sankar, M.Sc., D.Phil., BUSTANES,  
Director,  
St. Joseph's Group of Institutions  
Dr. B. Ramasubramanian, M.E., Ph.D.,  
Dean, St. Joseph's College of Engineering  
Dr. K. Sankala  
Dr. S. S. Sankar, M.Sc., D.Phil., BUSTANES,  
Director,  
St. Joseph's Group of Institutions

**A Two Days Online International Faculty Development Programme On "Fixed Point Theory and Its Applications"** was successfully conducted in St. Joseph's College of Engineering on 8<sup>th</sup> and 9<sup>th</sup> August 2020 by the Department of Mathematics. The program received an overwhelming response with 220 participants from various academic institutions in Tamil Nadu under GoToMeeting online platform.

On the first day, 08/08/2020, resource person **Dr. Rajinder Sharma, Asst Professor, Ministry of Higher Education, Oman** started his discussion with **Fixed Point Theory and Its Applications**.

On the second day, 09/08/2020, resource person **Dr. Deepthi Thakur, Asst Professor, Ministry of Higher Education, Oman** started his discussion with **Fixed Point Theory and Its Applications**.

All two presenters shared their knowledge with participants using power point presentations, questionnaire sessions etc. They helped to make the subjects fully comprehensible and created interest among the participants.



St. Joseph's College of Engineering  
 Cambridge Department of Mathematics nif  
 10.30 a.m. - 12 p.m. **One Day Webinar** 1317  
**Modeling of Spread of COVID-19**

**Dr. P. Venkatesan**, M.Sc., M.P.S., M.Phil., Ph.D.,  
 F.I.M.S., F.I.S.T.C.,  
 F.I.C.M.S., F.I.S.T.C.C.I.R., M.S., S.D.S., D.D.  
 Scientist-F/ Senior Deputy Director (Medical)  
 National Institute for Research in Tuberculosis  
 Indian Council of Medical Research  
 Department of Health Research, Cochin, India  
 Address: Meenambakkam, Chennai - 600 095, Tamil Nadu  
 DHEE, Tamil Nadu; Director, Tuberculosis, St. Joseph's College,  
 St. Joseph's Hospital, Chennai. P.O. Chennai-600108

**PATRONS**  
 Dr. B. Babu Manoharan M.A., M.B.A., Ph.D. Chairman  
 St. Joseph's Group of Institutions  
 Mrs. S. Jessie Priya M.Com. Managing Director  
 St. Joseph's Group of Institutions  
 Mr. B. Shashi Sagar M.Sc., M.T.E. Business Director  
 St. Joseph's Group of Institutions  
 Dr. Vaidi Seshagiri Rao M.E., M.B.A., Ph.D. Principal  
 St. Joseph's College of Engineering  
 Dr. B. Parvathaswami M.E., M.B.A., Ph.D. Deputy Registrar  
 St. Joseph's College of Engineering


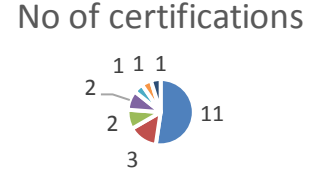
**Convener**  
 Dr. P. Venkatesan  
 HOD, Department of Mathematics


**Co-ordinators**  
 Dr. D. Srinivasan Associate Professor  
 Dr. D. Srinivasan Associate Professor  
 Dr. S. Srinivasan Associate Professor  
 Dr. S. Srinivasan Associate Professor  
 Dr. S. Srinivasan Associate Professor  
 Dr. S. Srinivasan Associate Professor

A one-day online **Webinar on " Modeling of Spread of COVID-19 "** was successfully conducted in **St. Joseph's College of Engineering** on **12<sup>th</sup> August 2020** by the **Department of Mathematics**. The program received an overwhelming response with 150 participants from various academic institutions in Tamil Nadu under GoToMeeting online platform.

The resource person **Dr. P. VENKATESAN, Scientist-F/ Senior Deputy Director (Retired) ICMR** explained briefly about **view on current Covid-19 pandemic situation**.

The Presenter shared their knowledge with participants using power point presentations, questionnaire sessions etc. It helped to make the subjects fully comprehensible and created interest among the participants.

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution																
8	<p>(12) PATENT APPLICATION PUBLICATION (21) Application No.:202041033269 A (19) INDIAN (43) Publication Date: 21/08/2020 (22) Date of Filing of Application 03/08/2020</p> <p>(54) Title of the invention: SELF-DETECT AND AUTO CONTROL VOICE ALERT FOR AIRCRAFT COLLUSION PREVENTION SYSTEM USING RSSI AND EMBEDDED C</p> <p>(71) Name of Applicant : DR. S. BASKARAN Address of Applicant: 17, CNS Complex, Rajanagar Street, Thiruvananthapuram - 696 001, Tamil Nadu, India Tamil Nadu India 200: PRATHAP MANI DR. A. NEDUMARAN DR. G. IRUSAPPARAJAN DR. S. SUMATHI DR. S. VEEK DR. D. BUVANA RINJESH P LAL S. M. VIJAYARAJAN K. LATHA</p> <p>(31) International classification: G08G 9/03 (32) Priority Document No.: NA (33) Priority Date: NA (34) Name of priority country: NA (86) International Application No.: NA Filing Date: NA (87) International Publication No.: NA (88) Name of Applicant: NA (89) Name of Applicant: NA (90) Name of Applicant: NA (91) Name of Applicant: NA (92) Name of Applicant: NA (93) Name of Applicant: NA (94) Name of Applicant: NA (95) Name of Applicant: NA (96) Name of Applicant: NA (97) Name of Applicant: NA (98) Name of Applicant: NA (99) Name of Applicant: NA</p> <p>(57) Abstract: ABSTRACT SELF-DETECT AND AUTO CONTROL VOICE ALERT FOR AIRCRAFT COLLUSION PREVENTION SYSTEM USING RSSI AND EMBEDDED C. This invention is related to the field of electronics and transportation systems. More particularly the invention is directed to a collision avoidance alert system for aircrafts. SDCA is a self-detect Collision Avoidance System. It is a system equipped on an aircraft that identifies the signal strength between the planes. The goal of SDCA is to prevent mid-air collision between aircraft operating within the same airspace by warning pilots of equipped aircraft that may present a collision threat. SDCA operates independently of Air Traffic Control (ATC) by communicating with other aircraft to build a RSSI of aircraft in the same airspace. By calculating the current range and altitude difference in equipped aircraft values, SDCA determines the potential of a collision threat.</p> <p>No. of Pages : 13 No. of Claims : 2</p> <p><b>Dr. S. Sumathi</b> published a patent entitled “Self-Detect and Auto Control Voice Alert for Aircraft Collision Prevention System Using RSSI and Embedded C”</p>	<p align="center"><b><u>PATENT PUBLISHED</u></b></p> <p><b>Title of the invention :</b> SELF-DETECT AND AUTO CONTROL VOICE ALERT FOR AIRCRAFT COLLUSION PREVENTION SYSTEM USING RSSI AND EMBEDDED C</p> <p><b>Name of Inventor :</b></p> <ol style="list-style-type: none"> <li>1. Dr. S. BASKARAN</li> <li>2. Dr. PRATHAP MANI</li> <li>3. Dr. A. NEDUMARAN</li> <li>4. Dr. G. IRUSAPPARAJAN</li> <li>5. <b>Dr. S. SUMATHI</b></li> <li>6. Dr. K. VIJI</li> <li>7. Dr. D. BUVANA</li> <li>8. SURESH P LAL</li> <li>9. S. M. VIJAYARAJAN</li> <li>10. K. LATHA</li> </ol> <p><b>Application No:</b> 202041033269 A <b>Date of filing of Application :</b> 3-8-2020 <b>Publication Date :</b> 21-8-2020</p>																
9	 <p align="center"><b>Sample Online Certifications</b></p>	<p align="center"><b><u>Student Online Certifications</u></b></p> <p>21 online certifications have been obtained by the students from some of the reputed online course platforms</p> <div data-bbox="903 990 1722 1347"> <p align="center">No of certifications</p>  <table border="1"> <thead> <tr> <th>Platform</th> <th>Number of Certifications</th> </tr> </thead> <tbody> <tr> <td>Coursera</td> <td>11</td> </tr> <tr> <td>Udemy</td> <td>2</td> </tr> <tr> <td>Guvi</td> <td>1</td> </tr> <tr> <td>LinkedIn Learning</td> <td>1</td> </tr> <tr> <td>GreatLearning</td> <td>2</td> </tr> <tr> <td>UiPath</td> <td>3</td> </tr> <tr> <td>Netalla</td> <td>1</td> </tr> </tbody> </table> </div>	Platform	Number of Certifications	Coursera	11	Udemy	2	Guvi	1	LinkedIn Learning	1	GreatLearning	2	UiPath	3	Netalla	1
Platform	Number of Certifications																	
Coursera	11																	
Udemy	2																	
Guvi	1																	
LinkedIn Learning	1																	
GreatLearning	2																	
UiPath	3																	
Netalla	1																	

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution				
1	<p style="text-align: center;"><b>Alumni Events during Covid</b></p>  <p style="text-align: center;"><b>Convenors</b>  <b>Ms. G. Lathaselvi</b>  <b>Dr. V. Muthulakshmi</b></p> <p style="text-align: center;"><b>Coordinators</b>  <b>Dr. Lilly Raamesh</b>  <b>Mr. G. Manikandan</b>  <b>Ms. S. Anitha</b>  <b>Ms. J. Thresa Jeniffer</b></p>	<b>Alumni Events during Covid</b>				
		S.No	Date	Topic	Name of the Alumini	No of Participants
		13.	04.07.2020	Product Management & Strategy	Mr. Aswin Rangarajan Business Advisory Consultant ASG Group Sydney, Australia.	99
		14.	05.07.2020	Careers with Free /Libre and Open Source Software	Mr. SHAKTHI KANNAN Researcher, IIT-Madras.	86
		15.	05.07.2020	Neural System in Payments Detection and Fraud Prevention	Mr. Murukanantham SA Director, Core payments and Enterprise Architecture, Mastercard International.	89
		16.	10.07.2020	Navigating the Cloud Computing Opportunities and Challenges	Mr. SIDDHARTH Manager(Forensics Practice) Ernst &Young, New Jersey	57
		17.	11.07.2020	Current Trends in Software Industry	Mr. YOGESH P Director,Railsdata Software Pvt. Ltd	72
		18.	11.07.2020	Application Security 2020-2030: Opportunities and skills	3. Mr. Rahul Raghavan AppSec Advocate, We45 solutions 4. Mr. Sudharshan N Practice Head – DevSecOps We45 solutions	49
		19.	12.07.2020	Networking Certification and Career	Mr. Thulasi Ram Associate Consultant,HCL Technologies	69
		20.	18.07.2020	Exploring Cloud Technology Migration and Career	Mr. Venkatesh Anbalagan Principal Software Engineer Fidelity Investments	55
		21.	19.07.2020	Integration Patterns with latest Tech/Cloud	Mrs. Chithra Devi S Technology Architect Cognizant Technology Solutions, Plano, Texas.	59
		22.	25.07.2020	Introduction to Planning & Budgeting Solutions	Mrs.Lakshmi Anand Solutions Architect, Perficient Inc. Redmond, Washington	52
		23.	26.07.2020	Current States and Research Area in the field of AI	Mr. Rajarajan Socrates CEO & Founder of Singularbase, Liquid Common,Albuquerque, New Mexico	64

		24.	26.07.2020	Introduction to Data Ecosystem	Mr. Sathish S Data Architect, Paypal	65

**DEPARTMENT OF SCIENCE**

<b>Sl. No.</b>	<b>Events</b>	<b>Remarks</b>
1	FDP/Workshop/Conference	<p>Organized:</p> <ol style="list-style-type: none"> <li>1. Dr. V.N. Nandini Devi, Dr. S. Kiruba, Dr. N. Punitha and Ms. A. Arulmozhi organized an International webinar on Rise above the risk on 04.08.2020.</li> <li>2. Dr. V.N. Nandini Devi, Dr. S. Suresh, Mr. S. Kaleel Mohamed Ibrahim and Dr. B. Subash organized an International webinar on Diagnostic Applications of Radiation on 07.08.2020.</li> <li>3. Dr. V.N. Nandini Devi, Dr. S. Kiruba, Dr. N. Punitha, Ms. A. Arulmozhi, Dr. P. Saravanan, Dr. N.R. Rajagopalan and Dr. B. Subash organized a National webinar on Ethics and Entrepreneurship - Smart tips on 13.08.2020.</li> <li>4. Dr. V.N. Nandini Devi, Dr. G. Murugan, Ms. A. Mahalakshmi and Dr. S. Rama organized an International webinar on Solar to Hydrogen Fuel Generation on 14.08.2020</li> <li>5. Dr. V.N. Nandini Devi, Dr. S. Kiruba, Dr. N. Punitha , Ms. A. Arulmozhi and Dr. P. Krishnan organized a National webinar on Challenges Vs Opportunities – Rework on 17.08.2020.</li> <li>6. Dr. V.N. Nandini Devi, Dr. S. Kiruba, Dr. N. Punitha , Ms. A. Arulmozhi and Dr. S. Manikandan organized a National webinar on Role of lasers in defence on 18.08.2020.</li> <li>7. Dr. V.N. Nandini Devi, Dr. V. Swarnalatha, Dr. P. Saravanan, Ms. J. Sharmila and Ms. S. Savitha organized an International webinar on Exploration of Main group compounds for promoting metal free transformation in Industries on 19.08.2020.</li> </ol> <p>Attended:</p> <ol style="list-style-type: none"> <li>1. Dr. S. Kiruba, Dr. N. Punitha, Dr. P. Krishnan attended Two Week Faculty Development Program on Advances in Computational and Experimental Research conducted by SRM Institute of Science &amp; Technology, Ramapuram, Chennai from 27.07.2020 to 08.08.2020</li> <li>2. Dr. N.R. Rajagopalan, Dr. A. Uma Devi, Ms. J. Sharmila, Dr. B. Subash , Dr. V. Swarnalatha attended a National webinar on Advanced Electronic Materials And Devices For Select Aero-Space and Aero-Defense Applications - A Bird's Eye View conducted by Saveetha Engineering College, Chennai on 01.08.2020</li> <li>3. Ms. J. Sharmila attended an International webinar on Recent Developments in Biotechnology conducted by St. Joseph's College of Engineering, Chennai on 01.08.2020</li> </ol>

4. Dr. S. Manikandan attended a National webinar on Research On Stilbazolium Crystal Materials- Overview conducted by Sir Theagaraya College, Chennai on 03.08.2020
5. Dr. N.R. Rajagopalan, Ms. J. Sharmila attended International web conference on Recent Trends in Scientific Research conducted by Dr. Ambedkar Government Arts College, Chennai- from 03.08.20 to 04.08.2020
6. Dr. P. Krishnan attended 3days National Online Faculty Development Programme on Spectroscopic Techniques conducted by Jamal Mohamed College, Tiruchirapalli from 03.08.20 to 05.08.20
7. Dr. V. Swarnalatha attended 14 days National online FDP on Materials Science and Nanotechnology conducted by B.S Abdur Rahman Crescent Institute of Science and Technology, Chennai from 03.08.20 to 17.08.20
8. Dr. N.R. Rajagopalan, Dr. B. Subash, Ms. J. Sharmila, Dr. K. Sathesh Kumar, Dr. A. Uma Devi Ms. A. Mahalakshmi, Dr. K. Jayamoorthy, Dr. P. Saravanan, Dr. S. Manikandan, Dr. G. Murugan, Dr. S. Rama, Dr. V. Swarnalatha attended a National webinar on Rise above the risk - Entrepreneur Snapshot conducted by St. Joseph's College of Engineering, Chennai on 04.08.2020
9. Dr. P. Krishnan attended a National webinar on Opportunity and Challenges in Third generation solar cells conducted by Kalasalingam Academy of Research and Education- Krishnankoil on 04.08.20
10. Ms. J. Sharmila attended an International webinar on Innovative Approaches to Treat Palm Oil Effluents conducted by SSN College of Engineering, Chennai on 05.08.2020
11. Dr. A. Uma Devi, Ms. J. Sharmila, Dr. N.R. Rajagopalan, Ms. A. Mahalakshmi, Dr. S. Kiruba, Dr. S. Sathesh Kumar, Dr. N. Punitha, Dr. S. Manikandan, Dr. S. Rama, Dr. G. Murugan, Dr. V. Swarnalatha, Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. P. Saravanan, Dr. P. Krishnan attended an International webinar on Diagnostic Applications of Radiation conducted by St. Joseph's College of Engineering, Chennai on 07.08.2020
12. Dr. A. Uma Devi, Dr. B. Subash attended a National webinar on Exactly solvable Quantum Mechanical systems at a glance conducted by Anna Adarsh College for Women, Anna Nagar, Chennai, Tamilnadu on 07.08.2020
13. Dr. A. Uma Devi, Dr. B. Subash attended a National webinar on Pericyclic Reactions conducted by Anna Adarsh College for Women, Anna Nagar, Chennai, Tamilnadu on 07.08.2020

14. Dr. S. Kiruba attended an International webinar on Advanced Materials for Energy Conversion and Storage conducted by Sathyabama Institute of Science & Technology, Chennai from 10.08.2020 to 13.08.2020
15. Dr. S. Kiruba, Dr. N. Punitha attended an International webinar on Cost-effective Thin Film Technology for Environmental Applications conducted by C. Abdul Hakeem College of Engineering and Technology, Melvisharam, Tamilnadu on 11.08.2020
16. Dr. N. Punitha, Dr. S. Kiruba, Dr. N.R. Rajagopalan, Dr. V. Swarnalatha , Dr. S. Suresh attended a National webinar on Shaping the Future with 3D Printing Technologies & Applications conducted by St. Joseph's Institute of Technology, Chennai on 12.08.2020
17. Ms. S. Savitha attended National webinar on Green chemistry based synthesis of some bioactive compounds conducted by Vignan's Institute of Management and Technology for Women, Kondapur, Telengana on 12.8.20
18. Dr. S. Kiruba attended an International Conference on "Continuity, Consistency and Innovation in Applied Sciences and Humanities conducted by St. Martin's Engineering College, Hyderabad from 13.08.2020 to 14.08.2020
19. Ms. J. Sharmila, Ms. A. Mahalakshmi, Dr. G. Murugan, Dr. V. Swarnalatha , Dr. S. Rama attended a National webinar on Ethics and Entrepreneurship- Smart Tips conducted by St. Joseph's College of Engineering, Chennai on 13.08.2020
20. Dr. S. Kiruba, Dr. P. Krishnan, Ms. A. Mahalakshmi, Dr. N. Punitha, Dr. B. Subash attended a National webinar on Reverse diabetes conducted by St. Joseph's Institute of Technology, Chennai on 14.08.2020
21. Dr. B. Subash, Dr. S. Suresh, Dr. A. Uma Devi, Ms. J. Sharmila, Dr. N.R. Rajagopalan, Dr. V. Swarnalatha , Dr. N. Punitha, Mr. S.M. Prakash, Dr. S. Manikandan attended an International webinar on Solar to Hydrogen Fuel Generation conducted by St. Joseph's College of Engineering, Chennai on 14.08.2020
22. Dr. A. Uma Devi, Ms. A. Mahalakshmi attended seven days online FDP on Strategies on Writing Research Paper conducted by SSN College of Engineering, Chennai from 14.08.2020 to 24.08.2020
23. Dr. A. Uma Devi, Dr. S. Suresh, Mr. S.M. Prakash, Dr. N.R. Rajagopalan, Dr. B. Subash , Ms. A. Mahalakshmi, Dr. S. Manikandan , Ms. J. Sharmila, Dr. G. Murugan, Dr. S. Rama, Dr. S. Sathesh Kumar, Dr. V. Swarnalatha attended a National webinar on Challenges



	<p>Vs Opportunities conducted by St. Joseph's College of Engineering, Chennai on 17.08.2020</p> <p>24. Dr. P. Krishnan, Ms. A. Mahalakshmi, Ms. A. Arulmozhi attended an International webinar on Synthesis and Characterization Nano-materials and their Novel Applications conducted by Rajiv Gandhi University Of Knowledge Technologies, A.P. from 17.08.20 to 19.08.20</p> <p>25. Dr. S. Rama attended 5 days national faculty development program on Impacts of nanomaterials on environment conducted by Mepco Schlenk Engineering College, Sivakasi from 17.08.20 to 21.08.20</p> <p>26. Dr. K. Sathesh Kumar , Dr. S. Suresh, Dr. B. Subash , Dr. N.R. Rajagopalan, Ms. A. Mahalakshmi, Ms. S. Savitha, Dr. P. Krishnan, Dr. S. Rama, Dr. G. Murugan, Mr. S.M. Prakash, Dr. V. Swarnalatha, Mr. S. Kaleel Mohamed Ibrahim attended a National webinar on Role of lasers in defense conducted by St. Joseph's College of Engineering, Chennai on 18.08.2020</p> <p>27. Dr. S. Kiruba, Ms. A. Mahalakshmi, Dr. B. Subash, Dr. A. Uma Devi, Ms. A. Arulmozhi, Dr. P. Krishnan, Dr. S. Rama, Dr. S. Manikandan , Dr. G. Murugan, Dr. S. Suresh, Dr. N.R. Rajagopalan Dr. N. Punitha attended an International webinar on Exploration of Main Group Compounds for Promoting Metal-Free Transformation in Industries conducted by St. Joseph's College of Engineering, Chennai on 19.08.2020</p> <p>28. Dr. K. Sathesh Kumar attended an International online FDP on Real Time Applications In Nanotechnology conducted by GCT-Coimbatore from 19.08.2020 to 21.08.2020</p> <p>29. Ms. J. Sharmila attended an International webinar on C based Metabolic flux Analysis conducted by St. Joseph's College of Engineering, Chennai on 21.08.2020</p> <p>30. Ms. A. Arulmozhi, Ms. A. Mahalakshmi, Dr. P. Krishnan, Dr. N. Punitha attended an online FDP on Contemporary Amelioration in Nano Structured Materials conducted by Jeppiaar Engineering College, Chennai from 21.08.20 to 27.08.20</p> <p>31. Dr. V. Swarnalatha attended 5 days online FDP on Cyber security conducted by AICTE Training And Learning (ATAL) Academy from 24.8.20 to 28.8.20</p> <p>32. Dr. N. Punitha attended National webinar on I-STEM: A gateway for researchers stepping towards Atma Nirbhar Bharat conducted by Dr. MGR Educational and Research Institute, Chennai on 25.08.20</p> <p>33. Dr. S. Rama attended 3 days national faculty development program on Recent Trends on Energy and Related materials conducted by CMR Institute of Technology, Bangaluru from 26.08.20 to 28.08.20</p>
--	--

		34. Dr. S. Manikandan attended a National webinar on Applications Of Vibrational Spectroscopy conducted by SRM Institute Of Science & Technology, Chennai on 29.08.2020
2	<b>STTP</b>	<p>1. Dr. A. Uma Devi attended online short term training program on Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education conducted by St. Joseph's College of Engineering, Chennai from 27.07.20 to 01.08.20.</p> <p>2. Dr. A. Uma Devi attended online short term training program on Fostering an Effective Research Environment and Industrial Collaborations in Engineering Education- Phase II conducted by St. Joseph's College of Engineering, Chennai from 24.08.20 to 29.08.20.</p>
3	<b>Other activities(if any)</b>	<p><b><u>PROGRAMS CONDUCTED FOR SCHOOL / COLLEGE STUDENTS</u></b></p> <p>1. The Department of Science conducted an online program titled “Scintillations 2.0” for school students on 10.08.20, 13.08.20 and 17.08.20. This program consisted of various events such as Puzzle, For and against, Designing competitions.</p> <p>2. The Department of Science conducted an online program titled “Innovation Hunt – Paper presentation” for school students from 18.08.20 to 31.08.20.</p> <p><b><u>PROGRAMS HOSTED BY OUR STUDENTS</u></b></p> <p>The Department of Science organized an exclusive student hosted webinar series on Getting smart. Under this program,</p> <p>1. Deepti V, Nangaisri, Varsha, of I EIE delivered a lecture on An introduction to biomedical instrumentation on 03.08.20</p> <p>2. Mr. V. Sakthi Kishore of I Civil, delivered a lecture on Life in a fast lane, Being an athlete on 06.08.20</p> <p>3. A. P. Rabhinaroy, A. K. Prathibha, J. S. Vashcini, of I EIE delivered a lecture on Introduction to Java on 07.08.20</p> <p>4. Mr. Timothy Prakash of I Civil delivered a lecture on Quantum biology on 08.08.20</p> <p>5. Ms. M. Kiruthika, Ms. P. Kiruthika of I EEE-B delivered a lecture on Biohacking on 11.08.20</p> <p>6. Ms. J. Priyanka, Ms.L.M. Maria Shirley John of I EEE-B delivered a lecture on Internet of Things on 12.08.20</p> <p>7. Ms. J. Harshini, Ms.J. Sherin Joannah, Ms. A. Sharon Shekinah, of I EIE delivered a lecture on Introduction to Radioactivity on 13.08.20</p>