



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



**SEPTEMBER 2020**

**DEPARTMENT OF BIOTECHNOLOGY**

S.No.	Title of the Events and Photographs	Details of the Event
1.	<b>BIOTECH CLUB ACTIVITY</b>	<p style="text-align: center;"><b>BIOTECH CLUB ACTIVITY</b></p> <p>BIOZENITH CLUB ACTIVITIES – 2020 Biozenith is a club that exists to broaden the scientific horizons of the students through creative expressions. The club's intent is to host a variety of activities and meetings throughout the semesters that are fun, educational, and helpful for its members. This year, despite the pandemic, our club was determined to carry on with the activities for the students. It was organized virtually, as the lockdown was still in place and the participant's safety was of utmost importance. Utilizing the online platform's strengths, the events were devised. Two main events</p>

**BIOZENITH CLUB ACTIVITIES – 2020 – BIO MONTAGE****WINNERS LIST**

Date: 03/10/2020

Event: BIO MONTAGE

**YEAR OF STUDY – II****TOPIC – TECHNIQUES INVOLVED IN BIOTECHNOLOGY**

S.NO	Registration No	Name of the Participant	Position
1	312319214011	Dharshana Dhanasekar	I
2	312319214013	Dishit Rajput N	II
3	312319214008	Celsia Elizabeth B	III

**YEAR OF STUDY – III****TOPIC – ROLE OF BIOTECHNOLOGY IN COVID-19**

S.NO	Registration No	Name of the Participant	Position
1	312318214047	Sherin Vernice V	I
2	312318214016	Dharshini R	II
3	312318214039	Raj Kumar K	II
4	312318214023	Kadhambari R	III

**YEAR OF STUDY – IV****TOPIC – ELABORATION OF THE PROCESS OR PRODUCTION OF ANY BIOPRODUCT**

S.NO	Registration No	Name of the Participant	Position
1	312317214039	Ramita A	I
2	312317214060	Viraraghavan L K	I
3	312317214029	Madhubala S	II

were held along with one preliminary round to shortlist the participants. They were: Bio-montage and Biohackathon, with an event titled Guess-Who which was conducted as prelims. The events took place over two days and was run smoothly. The members were enthusiastic and eager to participate and they were awarded with certificates. Overall, the club was successful at organizing activities that imparted knowledge to the students in an entertaining and informative way

2.

**PUBLICATIONS(ONLY PUBLISHED) DETAILS**

Journal  
**Drug and Chemical Toxicology** >  
 Latest Articles

Enter keywords, authors, DOI, ORCID

8  
 Views

0  
 CrossRef citations  
 to date

0  
 Altmetric

Research Article

## Hepatotoxic effect of lead and hepatoprotective effect of *Hydrilla verticillata* on hepatic transcriptional and physiological response in edible fish *Labeo rohita*

Pandi Prabha S. ✉, Johanna Rajkumar & Karthik C.  
 Received 27 Feb 2020, Accepted 23 Aug 2020, Published online: 09 Sep 2020

Download citation <https://doi.org/10.1080/01480545.2020.1815762> Check for updates

Full Article Figures & data References Supplemental Citations Metrics Reprints & Permissions Get access

 **Saudi Journal of Biological Sciences** 

Available online 19 August 2020  
 In Press, Corrected Proof

Original article

## Algal biomass as a source for novel oral nano-antimicrobial agent

M. Vikneshan <sup>a</sup>, R. Saravanakumar <sup>b</sup>, R. Mangaiyarkarasi <sup>c</sup>, S. Rajeshkumar <sup>d</sup>, S.R. Samuel <sup>e</sup>, M. Suganya <sup>f</sup> ✉, G. Baskar <sup>g</sup>

Show more

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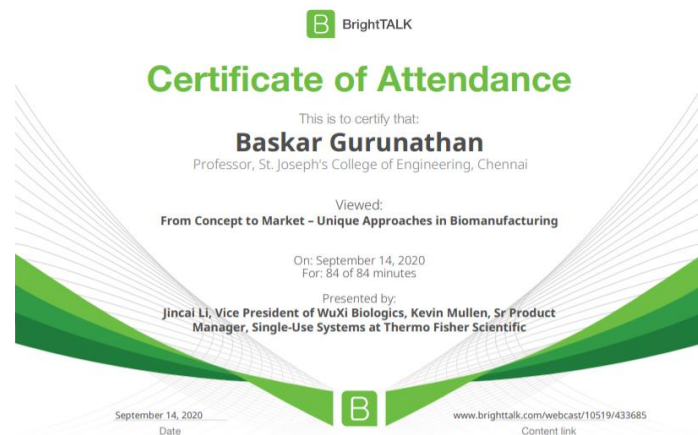
Pandi Prabha S, Johanna Rajkumar, **Karthik C**  
 Published paper on the title Hepatotoxic effect of lead and hepatoprotective effect of *Hydrilla verticillata* on hepatic transcriptional and physiological response in edible fish *Labeo rohita* in the Journal Drug and Chemical Toxicology, Sep-20, **IF-2.405**.  
<https://doi.org/10.1080/01480545.2020.1815762>

WOS & Scopus Indexed

M.Vikneshan, R.Saravanakumar, S.Rajeshkumar, S.R.Samuel, M.Suganya, **G.Baskar** Published paper on the title Algal biomass as a source for novel oral nano-antimicrobial agent in the Saudi Journal of Biological Sciences, Aug 2020, **IF-2.802**

<https://doi.org/10.1016/j.sjbs.2020.08.022>  
 WOS & SCI Expanded

	<p style="text-align: right;">doi.org/10.36721/PJPS.2020.33.5.SUP.2347-2350.1</p> <p style="text-align: center;"><b>Antidiabetic Potential of <i>Andrographis echioides</i> Nees. Leaf Extract on High Fat Diet-Fed C57BL/6J Diabetic Mice</b></p> <p style="text-align: center;"><b>Sindhu S<sup>1</sup>, Sivakumar K<sup>1*</sup>, Karthikeyan V<sup>1</sup> and Justin P Jacob<sup>2</sup></b></p> <p style="text-align: center;"><sup>1</sup>Department of Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Madhuranthagam, Tamil Nadu, India  <sup>2</sup>Department of Biotechnology, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India</p> <hr/> <p><b>Abstract:</b> The present study validates the antidiabetic potential of <i>Andrographis echioides</i> leaf extract (AeLE) on high fat diet-fed diabetic C57BL/6J mice. The male C57BL/6J mouse (age 6-8 weeks) were divided into 2 groups (lean control group and diabetic group). The lean control group (6 animals) was fed with standard diet pellets. The diabetic group animals (24 animals) were made diabetic by feeding a high-fat diet for 12 weeks. This group was then further divided into 4 groups of 6 animals each and treated orally (for 28 days) with vehicle (0.5%carboxymethyl cellulose), metformin 100mg/kg body weight and 2 different concentrations of test drug viz., 100mg/kg and 200mg/kg body weight. The results show a significant reduction in blood glucose and other biochemical parameters. After 28 days, the metformin and AeLE (200 mg/kg b.w) treated animals had an average serum glucose value of 129.69±1.97 mg/dl and 109.6±3.92 mg/dl, respectively. Also, the liver markers were positively affected by AeLE. In conclusion, <i>A. echioides</i> leaf extract was found to reduce hyperglycemia and significantly improve the biochemical profile of the mice.</p> <hr/> <p><b>Keywords:</b> <i>Andrographis echioides</i>, antihyperglycemic, high-fat diet, C57BL/6J</p>	<p>Sindhu S, Sivakumar K, Karthikeyan V, <b>Justin P Jacob</b>, Published paper on the title Antidiabetic potential of <i>Andrographis echioides</i> Nees leaf extract on high fat diet –fed C57BL/6J Diabetic mice in the Pak. J. Pharm. Sci1011601X Sep 2020 33 (5) 2347-2350,  <a href="http://doi.org/10.36721/PJPS.2020.33.5.SUP.2347-2350.1">http://doi.org/10.36721/PJPS.2020.33.5.SUP.2347-2350.1</a>. WOS &amp; SCI Expanded</p>
<p style="text-align: center;"><b>3.</b></p>	<p style="text-align: center;"><b>FUNDED PROJECTS</b></p>	<p style="text-align: center;">-</p>
<p style="text-align: center;"><b>4.</b></p>	<p style="text-align: center;"><b>STAFF CONFERENCE PRESENTATION</b></p>	<ul style="list-style-type: none"> <li>• <b>Dr. G. Baskar</b> has Participated in webinar on “Response of the DBT’s autonomous institutions to Covid’19 (Part II)” organized by DBT, GOI on 10.09.2020.</li> <li>• <b>Dr. G. Baskar</b> Participated in webinar on “From Concept to Market – Unique Approaches in Biomanufacturing” organized by Jincai Li, Vice President of WuXi Biologics, Kevin Mullen, Sr Product Manager, Single-Use Systems at Thermo Fisher Scientific on 14.09.2020.</li> </ul>



*Dr. G. Baskar copy of certificate*



*Dr. G. Sreekumar copy of certificate*

- **Dr. G. Baskar** Participated in webinar on “Analytical Strategies for Comparability in Bioprocess Development” presented by Dr Christine P. Chan, Director in Global Manufacturing Science & Technology at Sanofi on 16.09.2020.
- **Dr. G. Sreekumar** has attended the online course on Intelligent Solution for stable analyses: Gel Permeation Chromatography (GPC) workflow and selection conducted by Shimadzu on 24<sup>th</sup> September 2020.
- **Ms. Geerthika S** has participated in the International Webinar on Technological Advances in waste Biomass Conversion to Biofuels, organized by SSN College of Engineering, Chennai on 08.09.2020
- **Ms. Geerthika S** has participated in the International Webinar on Fibrous Silica Catalysts for Green Technologies, SSN College of Engineering, Chennai on 09.09.2020
- **Ms. Geerthika S** has participated in the International Webinar on Fibrous Silica Catalysts for Green Technologies, SSN College of Engineering, Chennai on 09.09.2020



**srivenkateshwaraa**  
College of Engineering & Technology  
(Approved by AICTE, New Delhi & Affiliated to Pondicherry University, Pondicherry)  
U.A. Faculty, Vilupuram Main Road, Arinjy, Pondicherry - 605 002.

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INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE), NEW DELHI.

## CERTIFICATE OF PARTICIPATION

**GEERTHIKA S**

of St. JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI  
has participated in 3 days Faculty Development Programme on  
"Intellectual Property Rights - Emphasis on Patent Drafting & Research Innovation"  
from 23<sup>rd</sup> to 25<sup>th</sup> Sep 2020, organised by  
Sri Venkateshwaraa College of Engineering & Technology, Pondichery  
in association with Indian Society for Technical Education, New Delhi.

  
Dr. V. NAGARAJ  
Coordinator

  
Dr. K.B. JAYARAMAN  
Convener

  
Dr. S. PRADEEP DEVANEYAN  
Patron



  
Dr. VIJAYAKRISHNA RAPAKA. E  
Chairman, Faculty Development  
I.S.T.E.


  
Dr. YERRA RAMA MOHAN RAO  
Executive Council Member (Pondicherry)  
I.S.T.E., New Delhi

*Ms. Geerthika copy of certificate*



## DEPARTMENT OF MECHANICAL ENGINEERING

SI No	Name of the Activity	Remarks																											
AICTE Sponsored STTP & FDP																													
1	 <p style="font-size: small;">St. JOSEPH'S COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING AICTE sponsored ONLINE SHORT TERM TRAINING PROGRAMME(STTP) ON SMART MANUFACTURING - OPPORTUNITIES AND CHALLENGES (14.09.2020 to 19.09.2020)</p> 	<p>AICTE Sponsored One Week Online Short Term Training Programme (STTP) (14-09-2020 to 19-09-2020) On “<b>SMART MANUFACTURING – OPPORTUNITIES AND CHALLENGES</b>”.</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 210 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 business decisions. This</p>																											
	<table border="1" style="width: 100%; border-collapse: collapse; background-color: #e0f2f1;"> <thead> <tr> <th style="width: 10%;">Date and Day</th> <th style="width: 30%;">Session I 10.00 am to 11.30 am</th> <th style="width: 30%;">Session II 11.45 am to 01.15 pm</th> <th style="width: 30%;">Session III 03.30 pm to 05.00 pm</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">14.09.2020 (Monday)</td> <td style="text-align: center;"><b>SMART MANUFACTURING</b> Pillars of smart manufacturing Dr.G.L.Samuel Professor, IITM</td> <td style="text-align: center;">An approach of smart manufacturing for textile technology - Opportunities and Challenges” Dr.PanduramanVehsanmy Assistant Professor, IITDM</td> <td style="text-align: center;">Sustainable Manufacturing Dr.A.S.S.Balan Assistant Professor, NIT Suratkal</td> </tr> <tr> <td style="text-align: center;">15.09.2020 (Tuesday)</td> <td style="text-align: center;">Insights into smart manufacturing Dr.Somasekar Hiremath Associate Professor, IITM</td> <td style="text-align: center;">Laser assisted manufacturing for Industry 4.0 Dr.I.A.Palani Associate Professor, IIT Indore</td> <td style="text-align: center;">Opportunities in Smart Manufacturing Mr.M.Mathiyazhagan DGM, HCL Technologies</td> </tr> <tr> <td style="text-align: center;">16.09.2020 (Wednesday)</td> <td style="text-align: center;">Wire and Arc additive manufacturing Dr.N.ShirvaShanmugam Associate Professor, NIT Tiruchirappalli</td> <td style="text-align: center;">Simulations of Welding Processes Dr.N.ShirvaShanmugam Associate Professor, NIT Tiruchirappalli</td> <td style="text-align: center;">Industrial Internet of Things (IIoT) and Industrial Automation Dr.P.V.Manavaram Associate Professor, IITM</td> </tr> <tr> <td style="text-align: center;">17.09.2020 (Thursday)</td> <td style="text-align: center;">Advanced Robotics Dr.T.Ramesh Associate Professor, NIT Tiruchirappalli</td> <td style="text-align: center;">Research Scopes in MEMS Dr.T.Ramesh Associate Professor, NIT Tiruchirappalli</td> <td style="text-align: center;">Smart Manufacturing-Challenges Mr.V.Venkatraman Managing Director,Embridge Solutions</td> </tr> <tr> <td style="text-align: center;">18.09.2020 (Friday)</td> <td style="text-align: center;">R(E)volutions in manufacturing, Dr.A.J.Jagadeesan Senior Manager, Manufacturing Methods, LUCAS TVS, Padi, Chennai</td> <td style="text-align: center;">Manufacturing Analytics I Dr.A.J.Jagadeesan Senior Manager, Manufacturing Methods, LUCAS TVS, Padi, Chennai</td> <td style="text-align: center;">Manufacturing Analytics II Dr.A.J.Jagadeesan Senior Manager, Manufacturing Methods, LUCAS TVS, Padi, Chennai.</td> </tr> <tr> <td style="text-align: center;">19.09.2020 (Saturday)</td> <td style="text-align: center;">Smart actuators and sensors for smart manufacturing industry 4.0 Dr.I.A.Palani Associate Professor, IIT Indore</td> <td style="text-align: center;">Additive Manufacturing of Smart Materials - Current trends and future prospects Dr.M.Suganeswaran Assistant Professor,VIT VALEDICTORY(1.15pm-1.30pm)</td> <td style="text-align: center;">ONLINE ASSESSMENT, (3.30PM TO 5.00PM)</td> </tr> </tbody> </table>	Date and Day	Session I 10.00 am to 11.30 am	Session II 11.45 am to 01.15 pm	Session III 03.30 pm to 05.00 pm	14.09.2020 (Monday)	<b>SMART MANUFACTURING</b> Pillars of smart manufacturing Dr.G.L.Samuel Professor, IITM	An approach of smart manufacturing for textile technology - Opportunities and Challenges” Dr.PanduramanVehsanmy Assistant Professor, IITDM	Sustainable Manufacturing Dr.A.S.S.Balan Assistant Professor, NIT Suratkal	15.09.2020 (Tuesday)	Insights into smart manufacturing Dr.Somasekar Hiremath Associate Professor, IITM	Laser assisted manufacturing for Industry 4.0 Dr.I.A.Palani Associate Professor, IIT Indore	Opportunities in Smart Manufacturing Mr.M.Mathiyazhagan DGM, HCL Technologies	16.09.2020 (Wednesday)	Wire and Arc additive manufacturing Dr.N.ShirvaShanmugam Associate Professor, NIT Tiruchirappalli	Simulations of Welding Processes Dr.N.ShirvaShanmugam Associate Professor, NIT Tiruchirappalli	Industrial Internet of Things (IIoT) and Industrial Automation Dr.P.V.Manavaram Associate Professor, IITM	17.09.2020 (Thursday)	Advanced Robotics Dr.T.Ramesh Associate Professor, NIT Tiruchirappalli	Research Scopes in MEMS Dr.T.Ramesh Associate Professor, NIT Tiruchirappalli	Smart Manufacturing-Challenges Mr.V.Venkatraman Managing Director,Embridge Solutions	18.09.2020 (Friday)	R(E)volutions in manufacturing, Dr.A.J.Jagadeesan Senior Manager, Manufacturing Methods, LUCAS TVS, Padi, Chennai	Manufacturing Analytics I Dr.A.J.Jagadeesan Senior Manager, Manufacturing Methods, LUCAS TVS, Padi, Chennai	Manufacturing Analytics II Dr.A.J.Jagadeesan Senior Manager, Manufacturing Methods, LUCAS TVS, Padi, Chennai.	19.09.2020 (Saturday)	Smart actuators and sensors for smart manufacturing industry 4.0 Dr.I.A.Palani Associate Professor, IIT Indore	Additive Manufacturing of Smart Materials - 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		<p>revolution provides opportunities for intelligent automation and self-diagnosis cum optimization of various allied processes in manufacturing through real time data analytics</p>
		<p>AICTE Training and Learning(ATAL)FDP (07-09-2020 to 11-09-2020) On “<b>Environment Friendly Refrigerants &amp; Cycles for Refrigeration and Air-Conditioning Applications</b>”.</p> <p><b>Dr.S.Arivazhagan M.E.,Ph.D</b> was the Coordinator of the programme,Resource persons from Leading institutes like IITs and Industrial Persons were invited to give lecture which covered all areas under Environment Friendly Refrigerants and Cycles for Refrigeration and Air-Conditioning Applications.</p> <p>The Program showed a overwhelming response which had participants across India.</p>
<p><b>Webinars,FDPs Attended by our Staff Members</b></p>		
<p>1</p>	<p>Dr.K.Arun</p>	<ul style="list-style-type: none"> <li>➤ Attended AICTE Training And Learning (ATAL) FDP on Environment Friendly Refrigerants &amp; Cycles for Refrigeration and Air-conditioning Applications organized by St.Joseph’s College of Engineering from 07.09.20 to 11.09.20</li> </ul>
<p>2</p>	<p>Mr.M.Arun</p>	<ul style="list-style-type: none"> <li>➤ Attended 6 days AICTESTTP on “Energy Storage Characteristics, Surface treatment, durability, Sustainability and Micro Structural Evaluation of Smart and Phase change Materials and its Applications” organized by Sri SAIRAM institute of Technology from 14/09/20 to 19/09/20</li> <li>➤ Completed online Course on “Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360” by COURSERA</li> </ul>




2	Mr.J.Mariappan	<ul style="list-style-type: none"> <li>➤ Attended AICTE Training And Learning (ATAL) FDP on Environment Friendly Refrigerants &amp; Cycles for Refrigeration and Air-conditioning Applications organized by St.Joseph's College of Engineering from 07.09.20 to 11.09.20</li> </ul>
3	Mr.G.Kasirajan	<ul style="list-style-type: none"> <li>➤ Participated in AICTE Sponsored STTP on Application of Intelligent Techniques for Engineering Research organized by Bannari Amman Institute of Technology during 28th sep 2020 to 03rd October 2020</li> <li>➤ Participated in Five day FDP on Advance Materials and Manufacturing for Industry4.0 Organised by MVJ College of Engineering during 22-09-2020 to 26-09-2020</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 14-09-2020 to 19-09-2020</li> <li>➤ Completed courses on Google analytics for beginners, Simulation Analysis for Mechanical Engineers with Autodesk Fusion 360</li> <li>➤ ,Modeling and Design for Mechanical Engineers with Autodesk Fusion 360,</li> <li>➤ Materials Science: 10 Things Every Engineer Should Know,</li> <li>➤ Introduction to Mechanical Engineering Design and Manufacturing with Fusion 360,</li> <li>➤ CAM and Design Manufacturing for Mechanical Engineers with Autodesk Fusion 360</li> <li>➤ Attended ATAL FDP on Green Technology and Sustainable Engineering organize by St.Joseph's College of Engineering</li> <li>➤</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 14-09-2020 to 19-09-2020</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 14-09-2020 to 19-09-2020</li> </ul>

## DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks
1	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-Phase III from 21<sup>st</sup> September to 26<sup>th</sup> September.</li> </ul>
2	Workshop	<ul style="list-style-type: none"> <li>Dr R Baskaran attended a workshop titled Challenges vs Opportunities on 17<sup>th</sup> Sep 2020.</li> </ul>

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	remarks
1	<p><b>FACULTY DEVELOPMENT PROGRAM</b></p> 	<p style="color: red; font-weight: bold;">Criteria 6</p> <p><b>Dr. N.Chidambararaj</b></p> <ul style="list-style-type: none"> <li>➤ Participated in 3 days FDP on “intellectual property rights – Emphasis on patent drafting &amp; research innovation” from 23 to 25 sep 2020, organized by venkateshwaraa college of Engineering &amp; technology, Pondicherry.</li> </ul> <p><b>Mr. C.Venkatesh Kumar</b></p> <ul style="list-style-type: none"> <li>➤ Attended AICTE Sponsored One Week Online Short Term Training Program on “Automotive Embedded systems using IOT” by Sri Krishna College of Engineering and Technology, Coimbatore during 7th– 12th September, 2020.</li> <li>Attended AICTE Sponsored One Week Online Short Term Training Program on “Post Covid Challenges in Teaching and Learning” by Sagar Institute of Research And Technology, Bhopal from 14th– 19th September, 2020.</li> </ul>

		<p><b>Mr. R.Sreekanth</b></p> <ul style="list-style-type: none"> <li>➤ Attended AICTE Training And Learning(ATAL) Academy One Week Online Faculty Development Program on “Internet of Things(IoT)” by Sri Sairam Institute of Technology, Chennai during 7th– 11th September, 2020.</li> </ul> <p><b>Mr. K.Aravindh</b></p> <ul style="list-style-type: none"> <li>➤ Participated in 3 days FDP on “intellectual property rights – Emphasis on patent drafting &amp; research innovation” from 23 to 25 sep 2020, organized by venkateshwaraa college of Engineering &amp; technology, Pondicherry.</li> </ul> <p><b>Mr.T.Sriananda Ganesh</b></p> <ul style="list-style-type: none"> <li>➤ Attended AICTE Sponsored One Week Online Short Term Training Program on “Electric Vehicles Challenges And Opportunities” by Sagar Institute of Research And Technology, Bhopal from 24/08/2020 to 29/08/2020.</li> <li>➤ Attended AICTE SPONSORED SIX DAY ONLINE STTP ON “ELECTRIC CARS TECHNOLOGIES AND MODERN POWER SYSTEM” SERIES-II organized by Kamaraj College of Engineering and Technology, S.P.G.C Nagar, K.Vellakulam, Madurai District, Tamilnadu during 7th– 12th September, 2020.</li> </ul> <p><b>Ms.S.Gomathi</b></p> <ul style="list-style-type: none"> <li>➤ Participated in 3 days FDP on” Intellectual Property Right - Emphasis on Patent Drafting &amp; Research Innovation”from 23rd to 25 th september 2020 organized by Sri Venkateshwaraa College of Engineering and Technology ,Pondicherry in association with ISTE New Delhi</li> </ul>
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**Criteria 6**

**Mr.R. Elanthirayan**

- Attended the webinar on the topic “cognitive radio-wireless sensor network- applications & challenges” organized by IFERP on 19<sup>th</sup> sep 2020.
- Attended the webinar on the topic “Personality development & winning attitude” organized by IFERP on 18<sup>th</sup> sep 2020.
- Attended the webinar on the topic “Modelling of Biomedical applications using neural networks in international short term training program held in india” organized by IFERP on 16<sup>th</sup> sep 2020.
- Attended the webinar on the topic “National education policy” organized by IFERP on 13<sup>th</sup> sep 2020.
- Attended the webinar on the topic “Scope, opportunities and challenges for E-vehicle in india” organized by IFERP on 12<sup>th</sup> sep 2020.
- Attended the webinar on the topic “Technology based teaching in class room” organized by IFERP on 10<sup>th</sup> sep 2020.
- Attended the webinar on the topic “Latest trends in nanotechnology” organized by IFERP on 10<sup>th</sup> sep 2020.

**Mr.T.Sriananda Ganesh**

- Participated in International Live Webinar titled on “Fuzzy Rules Formation using MATLAB Programming”, conducted by NRR Creative Works, Andhra Pradesh on 13/09/2020.
- Attended a Webinar on “Job & Business Opportunities in Solar Energy” organized by SAGAR Group of Institutions, Bhopal on 16/09/2020.
- Participated in International Live Webinar titled on “PI CONTROLLED DC TO DC BUCK CONVERTER”, conducted by NRR Creative Works, Andhra Pradesh on 17/09/2020.
- Participated in the One Day Workshop on “ONLINE LABORATORY CLASS for EEE/ EIE /ECE using Open Source Software (LTSPICE)”, organized by School of Electrical Engineering, VIT Chennai on 04/09/2020.

		<ul style="list-style-type: none"> <li>➤ Attended the One Day Workshop on “ELECTRICAL MACHINES DESIGN ”, organized by SRM Institute Of Science &amp; TEchnology, Chennai on 19/09/20</li> </ul>
3	<p><i>Dear Abinayaa Sri T,</i></p> <p><b><i>Greetings from IEEE YESIST12 Special Track!</i></b></p> <p><i>We thank all the students for such an overwhelming response in terms of the number of abstract submissions for the special track.</i></p> <p><b><i>We are pleased to inform you that your abstract has been shortlisted for the Final Contest. Your team could start working on your project to make it event-ready.</i></b></p> <p><i>Herewith we attach the remarks from our evaluation committee.</i></p> <p><b><i>Remarks: Idea has been around for some years, high usability potential but lacks innovation. Please consider the remarks for your final contest.</i></b></p> <p><i>All the details regarding the registration process for the event will be mailed to you shortly.</i></p> <p><i>Click <a href="#">here</a> to find more information regarding IEEE YESIST12 ( Special Track).</i></p> <p><b><i>Congratulations once again!!!</i></b></p> <p>PIC: shortlisted mail</p>	<ul style="list-style-type: none"> <li>➤ our II Year students got selected for IEEE YESIST12 SPECIAL TRACK</li> <li>➤</li> </ul>

**IGEN-GREEN9 SDG CONCLAVE 2020**  
(2 Days, 16 Hours, 14 Partners, Innovative Session on SDG 7,9,13)

**PRE-EVENT MEET - I**  
**SDG - 7 PANEL DISCUSSION**

**AFFORDABLE AND CLEAN ENERGY**

Dr. Taruna Jain  
HOD / EEE  
UIT, Barkatullah University

Dr. R. Edwin Raj  
Professor / Mechanical  
St. Xavier's Catholic College of Engineering

Dr. Ramesh  
Chairman, IGEN-GREEN9

Dr. Rajini M Linus  
HOD / EEE  
Sanjay Ghodawat University

Dr. Jayarama Pradeep  
Professor & HOD / EEE  
St. Josephs College of Engineering

Dr. S. Selvi  
Professor & HOD / EEE  
Panimalar Engineering College

Dr. M. Mary Linda  
HOD / EEE  
Ponjesly College of Engineering

12 SEP 2020  
06 pm - 08 pm

**PIC: IGEN Green9 SDG Conclave 2020 poster**

### Criteria 1

Our department Professor & HOD Dr. Jayarama Pradeep attended per-event meet -1, SDG -7 panel discussion on affordable and clean energy organized by IGEN-Green9 on 12<sup>th</sup> sep 2020.




5

# INTERNSHIP



Student Name	From Date - to date	Company Name	Pay Package (Rs)
<b>II YEAR</b>			
MOHAMED AASHIK S	16/09/2020 to 30/09/2020	Emcog solutions	1350
	24/8/2020 Till date	BHAVANI Officers Association	NA
A.JENIN BENEDICT	16/09/2020 to 30/09/2020	Emcog solutions	1350
KAVIN.D	16/09/2020 to 30/09/2020	Emcog solutions	1350
ABHINAYA SRI T	24/8/2020 Till date	BHAVANI Officers Association	NA

		<table border="1"> <tbody> <tr> <td>THIRUVEL A P</td> <td>24/8/2020Till date</td> <td>BHAVANI Officers Association</td> <td>NA</td> </tr> <tr> <td>ABHISHLAL N S</td> <td>24/8/2020Till date</td> <td>BHAVANI Officers Association</td> <td>NA</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>III YEAR</b></td> </tr> <tr> <td>NAVEEN R C</td> <td>16-09-2020 to 02-09-2020</td> <td>Emcog solutions</td> <td>1500</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>IV YEAR</b></td> </tr> <tr> <td>SWATHISH</td> <td>1 month</td> <td>Diginique and Supraja Technologies</td> <td>NA</td> </tr> <tr> <td>VEDHIKA CHELLI K</td> <td>1 month</td> <td>Diginiquetechlabs, Supraja technologies</td> <td>NA</td> </tr> </tbody> </table>	THIRUVEL A P	24/8/2020Till date	BHAVANI Officers Association	NA	ABHISHLAL N S	24/8/2020Till date	BHAVANI Officers Association	NA	<b>III YEAR</b>				NAVEEN R C	16-09-2020 to 02-09-2020	Emcog solutions	1500	<b>IV YEAR</b>				SWATHISH	1 month	Diginique and Supraja Technologies	NA	VEDHIKA CHELLI K	1 month	Diginiquetechlabs, Supraja technologies	NA
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<b>RISHAB S.K</b>	Attended a online Workshop " Aurdino Virtual Workshop - Microcontroller programming" (Conducted by St. Joseph's College of Engineering On 14-09-2020)
<b>SUBESH R</b>	Attended a online Workshop " Aurdino Virtual Workshop - Microcontroller programming" (Conducted by St. Joseph's College of Engineering On 14-09-2020)
<b>SANTHOSH CHAKKARAVARTHY S</b>	Attended a online Workshop " Aurdino Virtual Workshop - Microcontroller programming" (Conducted by St. Joseph's College of Engineering On 14-09-2020)
<b>ANANYA P.K.</b>	Attended a workshop on "Arduino Virtual Workshop - Microcontroller Programming" conducted by St.Joseph's College Of Engineering on 18th September 2020
<b>CHRISTEL PEERIS R</b>	Attended a workshop on "Arduino Virtual Workshop - Microcontroller Programming" conducted by St.Joseph's College Of Engineering on 18th September 2020
<b>ABINAYA M</b>	Attended a workshop on "Arduino Virtual Workshop - Microcontroller Programming" conducted by St.Joseph's College Of Engineering on 18th September 2020
<b>ABINA S</b>	Attended a workshop on "Arduino Virtual Workshop - Microcontroller Programming" conducted by St.Joseph's College Of Engineering on 18th September 2020
<b>III YEAR</b>	
<b>SARANARAYAN AN S</b>	Attended workshop "arduino and microcontroller programming" conducted by SJCE on 14/9/20 to 18/9/20
<b>SASIKKUMAR. B</b>	Attended workshop "Arduino and microcontroller programming" conducted by Elite alumni of SJCE on 14/09/2020 to 18/09/2020
<b>HERENA JOSHICA A S</b>	Attended workshop "Arduino and microcontroller programming" conducted by Elite alumni of SJCE on 14/09/2020 to 18/09/2020

<b>8</b>	<b>Student Name</b>		<b>Online Course Name</b>	
	<b>II YEAR</b>			
	A.VIGNESH		Completed online course titled "Machine learning" conducted by Coursera on 1/9/2020.	
	<b>III YEAR</b>			



# Online Courses

KANISHMA SURESH KUMAR	Completed online course titled Electric power system
HERENA JOSHIKA A S	completed 7 weeks online course on basics of python
SWETHA.M	Completed online course titled " AI for everyone" conducted by COURSERA on sep 22nd
IV YEAR	
ARUL MANIVANNAN	Google IT support - Coursera
PREM M	Completed online course titled C language conducted by Udemy
PRIYADARSHNI K	Completed online course titled Python data structures conducted by Coursera
PRIYADHARSHINI P	Completed online course titled Introduction to C conducted by Coursera
RAGAVENDIRAN P	Completed online course titled Introduction to c programming and c++ programming conducted by Coursera
RAJ KRTHIKA R	Completed online course titled Machine learning conducted by Coursera
RAKSITHA P	Completed online course titled Front end web development using UI frameworks conducted by Coursera Completed online course titled Data structures and algorithm conducted by Coursera
RAMACHANDRAN D	Completed online course titled Big data, data structure conducted by Coursera
RENO JOSEPH S	Completed online course titled Machine Learning, Deep Learning conducted by Coursera
RIYA MARY ROY	Completed online course titled Wind energy conducted by Coursera
RIYAS	Completed online course titled Ruby on Rails tutorial conducted by Michael Hartl book
SANTHIYA M	Completed online course titled Big data artificial intelligence and ethics conducted by Coursera
SANTOSH KUMAR S	Completed online course titled English literature conducted by Coursera Completed online course titled Ui Ux conducted by

	Coursera Completed online course titled Python programming conducted by Coursera
SELVARANI S	Completed online course titled Front end Web development conducted by Coursera
SHEIK SUBAHAN B	Completed online course titled Machine learning conducted by Coursera
SHIVANI A	Completed online course titled Creative thinking conducted by Coursera
SHIVANI A	Completed online course titled Creative thinking conducted by Coursera
SHIVANI D G	Completed online course titled Foundation of HTML,CSS, Javascript conducted by Coursera
SIJI CATHERINE J	Completed online course titled Web development & SQL conducted by Coursera
SIVAPRIYA B	Completed online course titled Fundamental of Electrical and Electronics Engineering conducted by NPTEL
SRIVARTHAN K	Completed online course titled Machine learning conducted by Coursera
SURENDAR M	Completed online course titled Responsive web development conducted by Coursera
SURYA M	Completed online course titled Converters conducted by Coursera
SURYAKRISHN AN B	Completed online course titled Machine learning conducted by Coursera

SWATHISH	Completed online course titled Deep learning conducted by Coursera
VEDHIKA CHELLI K	Completed online course titled Html, CSS and ethical hacking conducted by Coursera
VIDYA PRASAD	Completed online course titled C conducted by Coursera
VIGNESH M	Completed online course titled Artificial intelligence with python programming conducted by Coursera Completed online course titled Python basics conducted by Coursera
VISHNU KUMAR	Completed online course titled C conducted by Coursera Completed online course titled Python conducted by Coursera
YAZHINI.A	Completed online course titled AI for everyone Completed online course titled Cyber security

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



**IEEE**

ST. JOSEPH'S COLLEGE  
OF ENGINEERING  
STUDENT BRANCH CHAPTER



2020 RANK - 160  
IN ENGINEERING CATEGORY

**IEEE STUDENT BRANCH CHAPTER**

### CONGRATULATIONS

The Management, Principal and Faculty members are pleased to Congratulate our **IEEE Student Branch Chapter** for receiving the financial grant of **Rs. 45,307/-** towards conduction of IEEE activities during the year 2020.

**CHAIRMAN**

*PIC: congratulations circular*

Our IEEE Student Branch Chapter received the financial grant of Rs. 45,307/- towards conduction of IEEE activities during the year 2020.



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



St. JOSEPH'S COLLEGE  
 OF ENGINEERING  
 STUDENT BRANCH CHAPTER



2020 RANK - 160  
 IN ENGINEERING CATEGORY

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**IEEE STUDENT BRANCH CHAPTER**

**CONGRATULATIONS**

The Management, Principal and Faculty members are pleased to Congratulate our Third-Year students, who got selected for **IEEE YESIST12 – Maker fair 2020 Finale** going to held from 10th to 17th October 2020 (Online mode).

IEEE YESIST12 is an International level competition held annually. 11 teams have been shortlisted for the finals from more than 9 countries.

**CHAIRMAN**

*PIC: congratulations circular*

Our third-year students, got selected for IEEE YESIST12 – Maker fair 2020 Finale going to held from 10th to 17th October 2020 (Online mode). IEEE YESIST12 is an International level competition held annually. 11 teams have been shortlisted for the finals from more than 9 countries.

Title of the Project	Team Members	Class & Sec	Mentor
Stun G	Arangan Rishikesh T Akshaya S Bavithra Rajan S	III-A	Mr.R.Sreekanth

Criteria 3.3.4 & 3.3.5

Our department staff members Dr.P.Anbarasan, Dr.V.Krishnakumar, Dr.Jayarama Pradeep, Dr.M.Venmathi, Dr.V.VasanPrabhu and Mr.R.Elanthirayan published patent titled “MULTILEVEL INVERTER TOPOLOGY WITH REDUCED SWITCH COUNT”

Criteria 3.3.4 & 3.3.5

Our department staff members Dr.Jayarama Pradeep, Dr.P.Anbarasan, Dr.M.Venmathi, Dr.V.VasanPrabhu and Dr.V.Krishnakumar published patent titled “RECONSTRUCTED PARK<sup>TMS</sup> TRANSFORMATION FOR DISCRETE CONTROL OF SVPWM INVERTER FED DRIVE”

Criteria 3.3.4 & 3.3.5

Our department staffs Dr.A.Jamna and R.Sujatha Published a paper titled “Simulation and Analysis of a Voltage Control Strategy for Single- Stage AC-AC Converter “in Springer Lecture Notes in Electrical Engineering, vol 687. Springer, Singapore. [https://doi.org/10.1007/978-981-15-7245-6\\_18](https://doi.org/10.1007/978-981-15-7245-6_18).

Our department of EEE organized Quiz Fest for 18 Days which was held from 24.08.2020 to 12.09.2020. for 12th Standard students and Diploma Students on various topics like sports, current affairs, global warming , landmark , science, mathematics enhance the knowledge of the students

<b>DAY</b>	<b>QUIZ TOPIC</b>
DAY 1	Explore India
DAY 2	Fun With Currency

DAY 3	General Knowledge
DAY 4	Guess the Brand Name
DAY 5	Guess the Landmark
DAY 6	Guess the Planet
DAY 7	History of India
DAY 8	Mathematics
DAY 9	Inventors & Inventions
DAY10	Sports
DAY 11	Science
DAY 12	Development in Technologies
DAY 13	Who Said this
Day 14	Quiz on Space
Day 15	Covid 19 Awareness
Day 16	Capital and Countries
Day 17	Current Affairs 2020
Day 18	Global Warming

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 St. Joseph's Group of Institutions  
**OMR, Chennai - 119**

IEEE | Cambridge English Qualifications | NAAC A+ Accredited Since 2003 | NBA Accredited Since 2003

DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
 ENGINEERING ORGANIZES

**A Preparatory Mock Interview for Placement Drive**  
**For IV Year EEE students**  
 on  
**20th & 27th September, 2020**  
 at  
**5pm IST**

**Patrons**  
**Dr. B. Babu Manoharan M.A., M.B.A., Ph.D**  
 Chairman,  
 St. Joseph's Group of Institutions  
**Mrs. B. 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. Parvatha Varthini M.Sc., M.B.A., M.E., Ph.D**  
 Dean,

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

**Coordinators**  
**Dr N Chidambararaj**  
 ASP/EEE  
**Mr M Chilambarasan**  
 AP/EEE  
**Mr H Umesh Prabhu**  
 AP/EEE  
**Mr K Aravindhan**  
 AP/EEE  
**Mr H Prasad**  
 AP/EEE

**PIC: Mock Interview for placement drive poster**

Our Department organized A Mock interview to the placement eligible students to provide a glimpse of the company recruitment. The students also cooperated and did the mock interview. Staffs suggested some points about the steps to be taken to improve themselves for facing the real interview process.

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

**nirf** **A+** **1000 RANK IN ENGINEERING STREAM** **NBA ACCREDITED SINCE 2003** **COUNSELLING CODE: 1317**

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

**THREE DAYS WORKSHOP BY ELITE ALUMNI**  
or  
**Arduino Virtual Workshop**  
**(Microcontroller Programming)**

**All the interested students of St. Josephites can participate**

 <p>Mr. Ram Prasath Govindarajan Research Assistant, Dortmund University of Applied Science and Arts, Germany. Class of 2014</p>	 <p>Mr. Santhosh Balaji Selvaraj Robotics Software Engineer, Hope Technik Pvt Ltd, Singapore. Class of 2014</p>
 <p>Mr. N. Sakthish Pethanesh Product Software Developer, Robert Bosch GmbH, Germany. Class of 2014</p>	 <p>Mr. M. Suresh Babu Technical Leader &amp; Part Development Pilot, Renault Nissan Technology &amp; Business Centre, India Class of 2014</p>

**Meet Link:** <https://meet.google.com/fmh-yxvb-dbc>  
**Event Date :** 18 Sept 2020  
**Timing:** 4.00pm to 5.30pm IST  
**Session 3 : (18/ 09/ 2020)**

- Communication Protocol (Serial)
- EEPROM
- Motor speed control (with L293D)
- Debugging with Serial Monitor
- Practical Demo : RC CAR (4wheel motor with IR control)

*PIC: Workshop poster*

Our department of EEE organized three days workshop for our students “Arduino virtual workshop” by our alumni Mr. Ram Prasath Govindarajan, Dortmund University of Applied Science and Arts, Germany, Mr. N. Sakthish Pethanesh, Robert Bosch GmbH, Germany, Mr. Santhosh Balaji Selvaraj, Hope Technik Pvt Ltd., Singapore and Mr. M. Suresh Babu, Renault Nissan Technology & Business Center, India on 18/09/2020 at 4.00pm to 5.30pm.

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OMR, CHENNAI - 119

**nirf** **A+** **NBA ACCREDITED** **COUNSELLING**  
SINCE 2003 SINCE 2003 SINCE 2003 SINCE 2003  
CODE:1317

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Impulse - An Inspiration Catalyst**  
TO ALL OUR FINAL YEAR STUDENTS

**ABILITY**  
IS WHAT YOU'RE CAPABLE OF DOING

**MOTIVATION**  
DETERMINES WHAT YOU DO

**ATTITUDE**  
DETERMINES HOW WELL YOU DO IT

**Motivation meet link:**  
<https://meet.google.com/fmh-yxvb-dbc>

**Date: 17 Sept 2020; Time: 6pm to 7pm**

PIC: Motivational talk poster


Our Department organized a motivational talk for the students with some of the Department faculties through Google meet. In this meeting, the Department Head, Dr. Jeyarama Pradeep, gave some motivation to the students on how to face the placements. Other faculties also shared their experiences on how to tackle difficult situations, how to prepare a resume, and how to attend Group Discussions without any fear.

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## Extraction of Cancer Section from 2D Breast MRI Slice Using Brain Storm Optimization

Authors

Authors and affiliations

R. Elanthirayan, K. Sakeenathul Kubra, V. Rajinikanth, N. Sri Madhava Raja , Suresh Chandra Satapathy

Conference paper

First Online: 30 August 2020



Downloads

Part of the [Advances in Intelligent Systems and Computing](#) book series (AISC, volume 1177)

### Abstract

The Magnetic Resonance Imaging (MRI) is a proven imaging modality in the medical domain to record the internal body organs for the disease diagnosis. This study considers the breast MRI slices to examine the breast tumor section. This work employs a hybrid imaging procedure based on Brain Storm Optimization Algorithm and Shannon's entropy (BSA + SE) thresholding and a chosen segmentation procedure. In this work, the Active-Contour (AC) based segmentation is initially executed to mine the tumor section. The performance of the AC is then validated against the Chan-Vese (CV) and Level-Set (LS) techniques existing in the literature.

In this technique, the Axial View 2D MRI slice along with the Ground Truth (GT) is considered

PIC: journal screen short

Criteria 3.3.4 & 3.3.5

Our department staffs R.Elanthirayan and K.Sakeenathul Kubra Published a paper titled "Extraction of Cancer Section from 2D Breast MRI Slice Using Brain Storm Optimization" in Springer [Advances in Intelligent Systems and Computing](#) vol 1177. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5679-1\\_71](https://doi.org/10.1007/978-981-15-5679-1_71)



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IEEE | nif | 15th RANK IN ENGINEERING STREAM | NBA ACCREDITED SINCE 2003

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
IEEE STUDENT BRANCH CHAPTER

**ERUDITE S3**

*WE THANK ALL THE SPEAKERS FOR THEIR WONDERFUL CONTRIBUTION*

  
 ERUDITE TALK BY  
**APARNA MURTHY**

  
 ERUDITE TALK BY  
**KHALED KHNISSI**

  
 ERUDITE TALK BY  
**SUBRATA DAS**

  
 ERUDITE TALK BY  
**NEELI RASHMI PRASAD**

  
 ERUDITE TALK BY  
**LES MOOD**

  
**AN IEEE INTERNATIONAL WEBINAR SERIES**

  
 ERUDITE TALK BY  
**HAROLD WALSH**

  
 ERUDITE TALK BY  
**ADITI KHURANA**

  
 ERUDITE TALK BY  
**MATTHEW TAYLOR**

  
 ERUDITE TALK BY  
**SATHISKUMAR JOTHI**

  
 ERUDITE TALK BY  
**CHUN CHE LANCE FUNG**

**Patrons**

<b>Dr. B. Babu Manoharan M.A., M.B.A., Ph.D.</b> Chairman, St. Joseph's Group of Institutions	<b>Mr. B. Shashi Sekar M.Sc.</b> Director, St. Joseph's Group of Institutions	
<b>Mrs. S. Jessie Priya M.Com.</b> Managing Director, St. Joseph's Group of Institutions	<b>Dr. B. Parvathavarthini M.Sc., M.B.A., M.E., Ph.D.</b> Dean, St. Joseph's College of Engineering	<b>Dr. Vaddi Seshagiri Rao M.E., M.B.A., Ph.D.</b> Principal, St. Joseph's College of Engineering

<b>SBC Advisor</b> Dr. Jayarama Pradeep M.E., Ph.D. Professor & Head - Staff Affairs	<b>Convenor</b> Dr. T.V. Narmadha M.E., Ph.D. Professor & Head - Lab Affairs	<b>SBC Counselor</b> Mr. R. Sreekanth M.E., (Ph.D.) Assistant Professor
--	--	---

PIC:IEEE ERUDITE S3 poster

Our IEEE Student Branch Chapter – St. Joseph’s College of Engineering organized Webinar “ERUDITE SEASON 3” with 9 speakers from around the globe conducted from 6th of August to 19th of August. webinar was hosted in Google meet and also telecasted in St. Joseph’s College of Engineering’s IEEE SBC YouTube channel. The topics covered in this revolve around the latest technologies like Cyber Security, IoT, Deep learning, Solar Energy, etc.,

## DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

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

Sl. No.	Title	Detail					
1	<b>Webinar/ FDP Attended By Faculty</b>	S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days
		1.	Dr. R. Sivakumar	26 Sep 2020	One day Seminar	ISA Delhi Section	1
		2.	Dr. R. Sivakumar	19 Sep 2020	One day Seminar	ISA South India Section	1
		3.	Dr. R. Sivakumar	21st Sep to 26th Sep 2020	AICTE Sponsored STTP	MCET, POLLACHI	6
		4.	Dr.P.Deepa	29 Sep	CHAIR PERSON	INTERNATIONAL CONFERENCE EASWARI ENGG COLLEGE	1
		5.	Dr. V. Rajinikanth	21st Sep to 26th Sep 2020	AICTE Sponsored STTP	PVPSIT, Vijayawada	06
		6.	Dr. V. Vijayan	15 Sep 2020	International Webinar on “Deep learning based Video Analytics for	IEEE Madras Section	01

				Surveillance IOT Applications			
	7.	Dr.B.Senthil Kumar	15 Sep 2020	International Webinar on “Deep learning based Video Analytics for Surveillance IOT Applications	IEEE Madras Section	01	
	8.	Dr. N.Sri Madhava Raja	21st Sep to 25th Sep 2020	ATAL sponsored FDP on “Learning Management Systems”	NITTTR	05	
	9.	Mr.D.Sankaran	07 Sep to 11 Sep 2020	ATAL sponsored FDP on “Sensors Technology”	Shri Vithal Education and Research institute College of Engineering, Pandharpur	05	
	10.	Mr.S.Sivakumar	21st Sep to 25th Sep 2020	ATAL sponsored FDP on “Artificial Intelligence”	Vellore Institute of Technology	05	
	11.	Dr.K.Palani Thanaraj	14 Sep to 18 Sep 2020	(ATAL) Academy Online FDP on "Artificial Intelligence"	SASTRA Deemed to be	05	
	12.	Mr.N.Hariprasad	21st Sep to 25th Sep 2020	(ATAL) Academy Online FDP on "Artificial Intelligence"	Jyoti Institute of Technology, Bangalore	05	
	13.	Mrs.C.Ramadevi	14 Sep to 19 Sep 2020	AICTE Sponsored(STTP)“Recent	R.M.D Engineering college	06	

					Trends and challenges of IOT in automation			
		14.	M.Angelin Ponrani	19 Sep 2020	Seminar	ISA South India Section	1	
2	<b>Publications</b>	S.No	Faculty	Title of the paper		Date	Journal	
		1	V. RAJINIKANTH	David Lin, V. Rajinikanth, Hong Lin, <a href="#">Hybrid Image Processing-Based Examination of 2D Brain MRI Slices to Detect Brain Tumor/Stroke Section: A Study</a> , Springer		22 SEP 2020	Book chapter- Springer	
		2	V. RAJINIKANTH	E. Priya, V. Rajinikanth; Signal and Image Processing Techniques for the Development of Intelligent Healthcare Systems, Springer		22 SEP 2020	BOOK - Springer	
3.	<b>Webinar/Workshop/school event Conducted</b>							
		S.NO	Date	Name of the Event	Targeted Participants	Faculty Coordinator		
		1.	18 Sep 2020 to 19 Sep 2020	Technical Quiz & Unscramble	Engineering Students	Dr.S.Meena		

## DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

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

Sl. No.	Photographs Captured During Events	Corresponding remarks
1.	<p><b>FDP</b></p> 	<p><b>Date: 14 to 19 september , 2020</b></p> <p><b>TOPIC: Aritificial intelligence using Python</b></p> <p><b>Organizer: ECE Department ,AVIT</b></p> <p><b>No. of Participant:01</b></p>

2.

**FDP**



**Date: 14 to 19 september , 2020**

**TOPIC: Artificial intelligence**

**Organizer: Srinivasa Ramanujan Centre, SASTRA Deemed to be University**

**No. of Participant: 01**

3.

**FDP**



**Date: 14 to 19 september , 2020**

**TOPIC: Artificial intelligence using Python**

**Organizer: Government College of Engineering And Ceramic Technology**

**No. of Participant: 01**

4.

## International Conference



Date: August 26, 2020


Topic: Emerging Frontiers in control and communication technologies

Paper title:Low power 4\*4 multiplier using 5T half adder ,8T full adder and 2T AND gate

No of Participant: 01



## DEPARTMENT OF MATHEMATICS & ENGLISH

Events	Remarks				
<b>FDP/Workshop/Conference</b>					
 <p style="text-align: center;">FACULTY DEVELOPMENT PROGRAM</p>	<b>S. No</b>	<b>Name of the Staff</b>	<b>Topic Name</b>	<b>Date</b>	<b>Organized by</b>
	1.	Dr.V. Vallinayagam	Fixed Point Theory and its Applications	15/09/2020 to 19/09/2020	Manipal University
			Mathematica- A Scientific Research Tool (STTP)	21/09/2020 to 26/09/2020	Sagar Institute of Research & Technology
	2.	Dr. H. Geetha	International e-seminar on recent research in Mathematics	11/09/2020 to 15/09/2020	GITAM University
			Fixed Point Theory and its Applications	15/09/2020 to 19/09/2020	Manipal University
			Mathematica- A Scientific Research Tool (STTP)	21/09/2020 to 26/09/2020	Sagar Institute of Research & Technology
			Hands-on Training in Latex	28/09/2020 to 02/10/2020	Kongu Engineering College
	3.	Mr.K.S. Sudhakhar	Fixed Point Theory and its Applications	15-19/09/2020	Manipal University
			STTP on Mathematics- A Scientific Research Tool- AICTE	21-26/09/2020	Sagar Institute of Research & Technology
	4.	Dr.P. Agilan	Fixed Point Theory and its Applications	15/09/2020 to 19/09/2020	Manipal University
			Mathematica- A Scientific Research Tool (STTP)	21/09/2020 to 26/09/2020	Sagar Institute of Research & Technology
			Hands-on Training in Latex	28/09/2020 to 02/10/2020	Kongu Engineering College
	5.	Mr. K. Suresh	Fixed Point Theory and its Applications	15/09/2020 to 19/09/2020	Manipal University
			Mathematica- A Scientific Research Tool (STTP)	21/09/2020 to 26/09/2020	Sagar Institute of Research & Technology



S. No	Name of the Staff	Topic Name	Date / No of Days	Organized by
1	Dr.V.Vallinayagam	Geometry of Continued Fractions: Ramanujan and His Successors	14/09/2020 to 15/09/2020	Central University of Himachal Pradesh
		New Trends in Fuzzy and Rough Set Theory and its Applications	25/09/2020 to 29/09/2020	Manipal University
2	Dr.P. Agilan	Geometry of Continued Fractions: Ramanujan and His Successors	14/09/2020 to 15/09/2020	Central University of Himachal Pradesh
		New Trends in Fuzzy and Rough Set Theory and its Applications	25/09/2020 to 29/09/2020	Manipal University
3	Mr. K. Suresh	Geometry of Continued Fractions: Ramanujan and His Successors	14/09/2020 to 15/09/2020	Central University of Himachal Pradesh
		New Trends in Fuzzy and Rough Set Theory and its Applications	25/09/2020 to 29/09/2020	Manipal University





S. No	Name of the Staff	Topic Name	Date	Organized by
1.	Dr.V. Vallinayagm	<b>Topic Name</b>	<b>Date / No of Days</b>	<b>Organized by</b>
		National Webinar on Fractional Calculus and Dynamical Systems	12/09/2020	Jaysingpur College
		Higher Studies in Mathematics	11-09-2020	Kuriakose Elias College
		Graphs in World	15-09-2020	Rathinam Technical campus
		G.F Riemann- legacy and relevance	17-09-2020	Aurora's Degree & PG College
		Stability of Non-linear Partial Differential Equations	19-09-2020	Kongu Engineering College
		Cumulative Effects and Climate Change- An Environmental Awareness Program	20-09-2020	Government Arts and Science College
		Over View of Vedic Mathematics	26-09-2020	KPR Institute of Engineering and Technology
		Graph Theory	29/10/2020 to 01/10/2020	Rajagiri School of Engineering & Technology
Enchancing Entrepreneurship Skills Using Mathematical Mind	24-09-2020	Manipal University		
2	Dr. S. Annadurai	Higher Studies in Mathematics	11-09-2020	Kuriakose Elias College
		National Webinar on Fractional Calculus and Dynamical Systems	12/09/2020	Jaysingpur College
		Graphs in World	15-09-2020	Rathinam Technical campus



			Stability of Non-linear Partial Differential Equations	19-09-2020	Kongu Engineering College
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			Over View of Vedic Mathematics	26/09/2020	KPR Institute of Engineering & Technology
3	Dr. H. Geetha		Over View of Vedic Mathematics	26-09-2020	KPR Institute of Engineering and Technology
			Graph Theory	29/10/2020 to 01/10/2020	Rajagiri School of Engineering & Technology
4	Mr.K.S. Sudhakhar		Higher Studies in Mathematics	11/9/2020	Kuriakose Elias College
			Fractional Calculus and Dynamical Systems	12/9/2020	Jaysingpur College
			Recent Advances in Mathematical Sciences and Its Applications	16/09/2020	Indas Mahavidyalaya-IQAC
			G.F.Riemann- legacy and relevance	17/09/2020	Aurora's Degree & PG College
			Stability of Non-Linear Partial Differential Equations	19/09/2020	Kongu Engineering College
			Himalayan Trekking Expedition-An Adventure	20/09/2020	Deogiri Institute of Engineering and Management Studies
			Cumulative Effects and Climate Change	20/09/2020	Government Arts and Science College
			Over View of Vedic Mathematics	26/09/2020	KPR Institute of Engineering & Technology
			Graph Theory	29/09-01/10/2020	Rajagiri School of Engineering & Technology
5	Mr. G. Venkat Narayanan		National Webinar on Fractional Calculus and Dynamical Systems	12/09/2020	Jaysingpur College
6	Ms. B. Shoba		Recent Research in Mathematics	11-09-2020 to 15/09-2020	Gandhi Institute of Technology and Management
			Over View of Vedic Mathematics	26-09-2020	KPR Institute of Engineering and Technology
7	Ms. S. M. Balaji		Over View of Vedic Mathematics	26-09-2020	KPR Institute of Engineering and Technology
8	Mr.S. Manikanda Prabhu		National Webinar on Fractional Calculus and Dynamical Systems	12/09/2020	Jaysingpur College
			Higher Studies in Mathematics	11-09-2020	Kuriakose Elias College
			Stability of Non-linear Partial Differential Equations	19-09-2020	Kongu Engineering College

			Graph Theory	29/10/2020 to 01/10/2020	Rajagiri School of Engineering & Technology
	9	Dr.K. Suresh	National Webinar on Fractional Calculus and Dynamical Systems	12/09/2020	Jaysingpur College
			Higher Studies in Mathematics	11-09-2020	Kuriakose Elias College
			Stability of Non-linear Partial Differential Equations	19-09-2020	Kongu Engineering College
			Graph Theory	29/10/2020 to 01/10/2020	Rajagiri School of Engineering & Technology
			Enhancing Entrepreneurship Skills Using Mathematical Mind	24-09-2020	Manipal University
	10	Mr.K. Suresh	How to Handle Mathematical Lectures Using Online Technological Tools	05-09-2020	Guru Nanak College
			Higher Studies in Mathematics	11-09-2020	Kuriakose Elias College
			National Webinar on Fractional Calculus and Dynamical Systems	12/09/2020	Jaysingpur College
			G.F Riemann- legacy and relevance	17-09-2020	Aurora's Degree & PG College
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			Cumulative Effects and Climate Change- An Environmental Awareness Program	20-09-2020	Government Arts and Science College
			Over View of Vedic Mathematics	26-09-2020	KPR Institute of Engineering and Technology
			Fuzzy Linear Complementarity Problems	29-09-2020	C. Abdul Hakeem College of Engineering and Technology

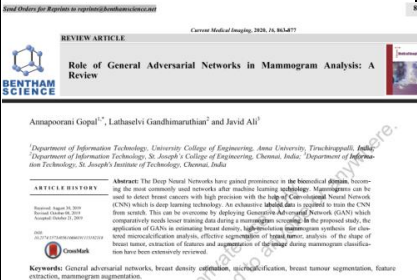

			Mathematical Modelling in Fuzzy Topological Spaces	29-09-2020	Kongu Engineering College
			Graph Theory	29/10/2020 to 01/10/2020	Rajagiri School of Engineering & Technology
			Enhancing Entrepreneurship Skills Using Mathematical Mind	24-09-2020	Manipal University
	12	Ms.K. Manasa	Disaster Resilient India 2030	05-09-2020	Sree Ayyappa College for Women
			Rethinking South India: Cultural Tradition and Knowledge Structures	11-09-2020	Manas Trust
			Disaster Resilient India 2030	12-09-2020	Sree Ayyappa College for Women
			Paradigms of Learning: Language and Literature	13-09-2020	INDAS Mahavidhalaya
			Public Institutions in Democracy	15-09-2020	Netaji Nagar Day College
			Disaster Resilient India 2030	19-09-2020	Sree Ayyappa College for Women
			Enhance Availability and Flexibility of Pathway for Regular Migration	29-09-2020	Migrant Forum in Asia
	13	Ms.A. Sathiya Jothi	Admissibility and Relevancy of Evidence	09-09-2020	Saraswathi Law College
			English Language Teaching	10-09-2020	Saradha Gangadharan College
			Propositions of Soft Skills & their Relevance's to Life and Academics	15-09-2020 to 17-09-2020	Balaji Institute of Technology & Science
			Admissibility and Relevancy of Evidence	09-09-2020	Saraswathi Law College

## 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 Blended Learning and Flipped Classroom (ATAL)</p>	<p style="text-align: center;"><b>Online FDP Attended by Faculty</b></p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Online FDP on Blended Learning and Flipped Classroom</td> <td style="text-align: center;">D. Logeshwari</td> <td>AICTE Training And Learning (ATAL) Academy, National Institute of Technical Teachers Training &amp; Research, Chandigarh.</td> <td style="text-align: center;">31-8-20 to 4-9-20 (5 days)</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>One Week STTP on Data Science</td> <td style="text-align: center;">S. Sumathi</td> <td>AICTE under AQIS, Noida Institute of Engineering and Technology, Greater Noida, Utter Pradesh.</td> <td style="text-align: center;">7-9-20 to 12-9-20 (1 week)</td> </tr> <tr> <td style="text-align: center;">3.</td> <td>Three weeks Industrial Training on Communications and Networking Technologies</td> <td style="text-align: center;">G. Lathaselvi</td> <td>Rajiv Gandhi Memorial Telecom Training Centre, BSNL, Chennai.</td> <td style="text-align: center;">8-6-20 to 26-6-20 (3 weeks)</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	Online FDP on Blended Learning and Flipped Classroom	D. Logeshwari	AICTE Training And Learning (ATAL) Academy, National Institute of Technical Teachers Training & Research, Chandigarh.	31-8-20 to 4-9-20 (5 days)	2.	One Week STTP on Data Science	S. Sumathi	AICTE under AQIS, Noida Institute of Engineering and Technology, Greater Noida, Utter Pradesh.	7-9-20 to 12-9-20 (1 week)	3.	Three weeks Industrial Training on Communications and Networking Technologies	G. Lathaselvi	Rajiv Gandhi Memorial Telecom Training Centre, BSNL, Chennai.	8-6-20 to 26-6-20 (3 weeks)
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2	 <p style="text-align: center;">Certificate of Webinar on Agile Methodologies and DevOps Philosophy for Academic and Research Projects</p>	<p style="text-align: center;"><b>Webinar attended by Faculty</b></p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Title of the topic</th> <th>Name of the Staff</th> <th>Conducted By</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>National Level Webinar on Common Man Security in Cyber World</td> <td style="text-align: center;">C. Heltin Genitha</td> <td>Computer Engineering Department, Vasandada Patil Pratishthan's College of Engineering and Visual Arts, Sion, Mumbai</td> <td style="text-align: center;">26-8-2020</td> </tr> <tr> <td style="text-align: center;">2.</td> <td>Webinar on Agile Methodologies and DevOps Philosophy for Academic and Research Projects</td> <td style="text-align: center;">Kripa Sekaran</td> <td>Department of CSE in association with BiTES, Bengaluru , Navkis College of Engineering, Hassan.</td> <td style="text-align: center;">12-9-20</td> </tr> </tbody> </table>	S.No	Title of the topic	Name of the Staff	Conducted By	Date	1.	National Level Webinar on Common Man Security in Cyber World	C. Heltin Genitha	Computer Engineering Department, Vasandada Patil Pratishthan's College of Engineering and Visual Arts, Sion, Mumbai	26-8-2020	2.	Webinar on Agile Methodologies and DevOps Philosophy for Academic and Research Projects	Kripa Sekaran	Department of CSE in association with BiTES, Bengaluru , Navkis College of Engineering, Hassan.	12-9-20					
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3	 <p><b>Certificates received through online tests</b></p>	<p style="text-align: center;"><b>Online Tests</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="600 313 680 378">S. No.</th> <th data-bbox="686 313 1079 378">Course Name</th> <th data-bbox="1085 313 1350 378">Name of the Staff</th> <th data-bbox="1356 313 1812 378">Conducted By</th> <th data-bbox="1818 313 1906 378">Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="600 383 680 448">1.</td> <td data-bbox="686 383 1079 448">National Nutrition Week 2020 - "Eat right. Bite by Bite"</td> <td data-bbox="1085 383 1350 448">Ms. Kripa Sekaran</td> <td data-bbox="1356 383 1812 448">Sri Bhagawan Mahaveer Jain First Grade College</td> <td data-bbox="1818 383 1906 448">13-09</td> </tr> </tbody> </table>					S. No.	Course Name	Name of the Staff	Conducted By	Date	1.	National Nutrition Week 2020 - "Eat right. Bite by Bite"	Ms. Kripa Sekaran	Sri Bhagawan Mahaveer Jain First Grade College	13-09															
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4	 <p><b>Certificates received through online Courses</b></p>	<p style="text-align: center;"><b>Online Courses</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="600 656 680 721">S. No.</th> <th data-bbox="686 656 995 721">Course Name</th> <th data-bbox="1001 656 1310 721">Name of the Staff</th> <th data-bbox="1316 656 1625 721">Conducted By</th> <th data-bbox="1631 656 1906 721">Date</th> </tr> </thead> <tbody> <tr> <td data-bbox="600 725 680 790">1.</td> <td data-bbox="686 725 995 790">Introduction to Data Science</td> <td data-bbox="1001 725 1310 790">Dr.N. Gobalakrishnan</td> <td data-bbox="1316 725 1625 790">Cognitive Class</td> <td data-bbox="1631 725 1906 790">19-09-2020</td> </tr> <tr> <td data-bbox="600 795 680 860">2.</td> <td data-bbox="686 795 995 860">Programming with PL/SQL</td> <td data-bbox="1001 795 1310 860">Ms. J. Thresa Jeniffer</td> <td data-bbox="1316 795 1625 860">Oracle Academy</td> <td data-bbox="1631 795 1906 860">26-08-2020</td> </tr> <tr> <td data-bbox="600 865 680 930">3.</td> <td data-bbox="686 865 995 930">Mathematics for Machine Learning: Linear Algebra</td> <td data-bbox="1001 865 1310 930">Dr. S. Sumathi</td> <td data-bbox="1316 865 1625 930">Coursera</td> <td data-bbox="1631 865 1906 930">20-09-2020</td> </tr> <tr> <td data-bbox="600 935 680 1000">4.</td> <td data-bbox="686 935 995 1000">Python Data Structures</td> <td data-bbox="1001 935 1310 1000">Dr. Tamizhselvi Ai</td> <td data-bbox="1316 935 1625 1000">Coursera</td> <td data-bbox="1631 935 1906 1000">21-09-2020</td> </tr> </tbody> </table>					S. No.	Course Name	Name of the Staff	Conducted By	Date	1.	Introduction to Data Science	Dr.N. Gobalakrishnan	Cognitive Class	19-09-2020	2.	Programming with PL/SQL	Ms. J. Thresa Jeniffer	Oracle Academy	26-08-2020	3.	Mathematics for Machine Learning: Linear Algebra	Dr. S. Sumathi	Coursera	20-09-2020	4.	Python Data Structures	Dr. Tamizhselvi Ai	Coursera	21-09-2020
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Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution
5	 <p><b>G. Lathaselvi et al.,</b> published a paper in, Current Medical Imaging, Annexure-I</p>	<p align="center"><b><u>(Staff Publication - Journal)</u></b></p> <p>G. Annapoorani, <b>G. Lathaselvi</b>, L. Javid Ali, “Role of General Adversarial Networks in Mammogram Analysis: A Review”, Current Medical Imaging, vol. 16, No. 7, pp. 863-877, Print ISSN: 1573-4056, E-ISSN: 1875-6603, Publisher: Bentham Science, doi:10.2174/1573405614666191115102318, Sep 2020.</p> <p>Annexure-I, Impact Factor-0.812</p> <p><b>Abstract.</b> The Deep Neural Networks have gained prominence in the biomedical domain, becoming the most commonly used networks after machine learning technology. Mammograms can be used to detect breast cancers with high precision with the help of Convolutional Neural Network (CNN) which is deep learning technology. An exhaustive labeled data is required to train the CNN from scratch. This can be overcome by deploying Generative Adversarial Network (GAN) which comparatively needs lesser training data during a mammogram screening. In the proposed study, the application of GANs in estimating breast density, high-resolution mammogram synthesis for clustered micro calcification analysis, effective segmentation of breast tumor, analysis of the shape of breast tumor, extraction of features and augmentation of the image during mammogram classification have been extensively reviewed.</p>
6	 <p><b>P. Kalaivani, D. Dinesh,</b> published a paper in, International Conference on Smart Electronics and Communication, Kongunadu College of Engineering and Technology, Trichy</p>	<p align="center"><b><u>(Staff and Student Publication - Conference)</u></b></p> <p><b>P. Kalaivani, D. Dinesh,</b> “Machine Learning Approach to Analyze Classification Result for Twitter Sentiment”, IEEE International Conference on Smart Electronics and Communication, Kongunadu College of Engineering and Technology, ISBN: 978-1-7281-5460-2, pp. 108-113, Trichy, 10-12 Sep 2020</p> <p><b>Abstract.</b> In this paper, twitter sentiment analysis using SVM and NN has been proposed that analyzing the twitter dataset of particular policies and finding its polarity of sentiment. With a quick increase in the use of the Internet, people can raise out their opinion on social media about a particular topic. This work compares the accuracy between the two classification algorithms namely Back Propagation Neural Network (BPNN) and Support Vector Machine (SVM). These two algorithms are supervised algorithms, which mean that the model trains itself with the use of a training dataset and performs testing with the help of the testing dataset. This work proposes the ANN and SVM classification algorithm which is used to classify the emotion behind the text, which can achieve</p>

acceptable accuracy in classifying results. It is trained over five hundred epochs. The resulting confusion matrix is obtained by comparing predicted with actual labels. Experiments demonstrate that Support Vector Machine outperforms the accuracy when compared with BPNN.

7

(12) PATENT APPLICATION PUBLICATION (19) INDIA (22) Date of filing of Application: 18/07/2020	(21) Application No: 202041030656 A (43) Publication Date: 31/07/2020
(54) Title of the invention: A SYSTEM AND METHOD FOR SCHEMING WATER SUSTAINABILITY INDEX OF WATER BODIES THROUGH SATELLITE IMAGERY	
(51) International classification (52) Priority Document No. (53) Priority Date (54) Name of priority country (56) International Application No. Filing Date (57) International Publication No. (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	(71) Name of Applicant: 1)Dr. S. Kanaga Suba Raja Address of Applicant S/o: T. Subramanian, Associate Professor, Department of Information Technology, Kangee Engineering College, Chennai - 600087 Tamil Nadu India 2)Dr. C. Viswanathan 3)Dr. N. Ananthi 4)Dr. E.J. Raman 5)Dr. R. Jaichandran 6)Dr. Balaji 7)S. S. L. Durai Arumugam 8)Dr. M. Mohana 9)Dr. S. Usha Kiruthika 10)Dr. J. Kalaivani 11)Dr. K. Gunasekaran (72) Name of Inventor: 1)Dr. S. Kanaga Suba Raja 2)Dr. C. Viswanathan 3)Dr. N. Ananthi 4)Dr. E.J. Raman 5)Dr. R. Jaichandran 6)Dr. Balaji 7)S. S. L. Durai Arumugam 8)Dr. M. Mohana 9)Dr. S. Usha Kiruthika 10)Dr. J. Kalaivani 11)Dr. K. Gunasekaran
(57) Abstract: The present invention is a system and method for scheming water sustainability index of water bodies through satellite imagery comprising a satellite database 202 and a cloud server processor 206. The said invention is capable of computing various relative mathematical data 204 through analyzing the satellite imagery 205 so obtained from the satellite database 202 with interpolation to the data from National Data Repository 205 arriving at the water input output ratio of the said water resource 101. The water resources data 201 of the said invention shall comprise of the classification, size, capacity and geographical location of the same and the cloud server processor 206 is capable of arriving at a regional agricultural water sustainability index 208 of any water resource 101 at a given time providing an effective water management practice with every water bodies in a landscape while providing precise water to other water deficit landscapes. No. of Pages: 18 No. of Claims: 9	

**Dr. C. J. Raman** published a patent entitled “A System and Method for Scheming Water Sustainability Index of Water Bodies through Satellite Imagery”

**PATENT PUBLISHED**

**Title of the invention : A SYSTEM AND METHOD FOR SCHEMING WATER SUSTAINABILITY INDEX OF WATER BODIES THROUGH SATELLITE IMAGERY**

**Name of Inventor :**

1. Dr. S. Kanaga Suba Raja
2. Dr. C. Viswanathan
3. Dr. N. Ananthi
- 4. Dr. C.J. Raman**
5. Dr. R. Jaichandran
6. V. Balaji
7. S. S. L. Durai Arumugam
8. Dr. M. Mohana
9. Dr. S. Usha Kiruthika
10. Dr. J. Kalaivani
11. Dr. K. Gunasekaran

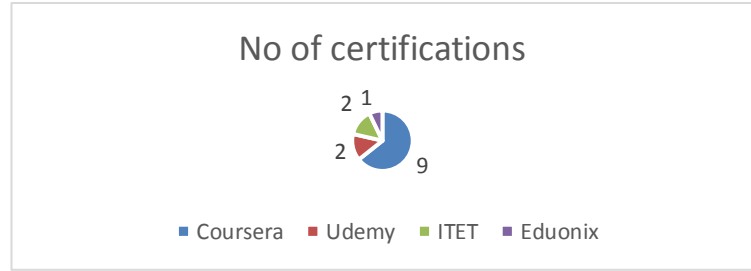
**Application No:** 202041030656 A  
**Date of filing of Application :** 18/07/2020  
**Publication Date :** 31/07/2020


8

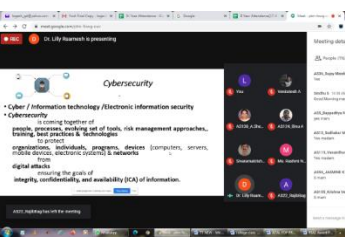


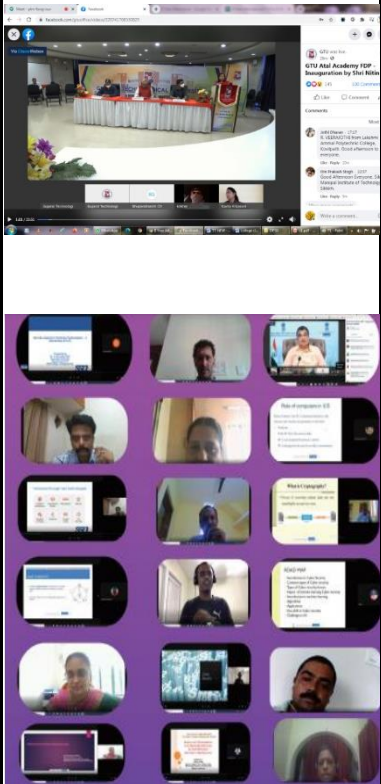
**STUDENTS ONLINE CERTIFICATION**

**14 online certifications** have been obtained by IT Students from some of the reputed online course platforms.



Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution			
9	 <p><b>Phamplet- FDP Program Advisor</b> Ms. G. Lathaselvi</p> <p><b>Coordinators</b> Dr. Lilly Raamesh Dr. Duraimurugan</p> <p><b>Organizing Committee</b> Dr. Logeshwari Ms. S. Ancy Ms. J. Thresa Jeniffer</p>	<b>AICTE Training and Learning Academy (ATAL)</b> <b>Online Five Days FDP on - CYBER SECURITY</b> <b>24<sup>th</sup> to 28<sup>th</sup> August 2020 at St. Joseph's College of Engineering, OMR, Chennai – 119</b>			
		Date	10.00 AM to 11.30 AM	12.00 PM to 1.30 PM	2.30 PM to 4.00 PM
		-08-2020	<b>Session 1a</b> Network Security & Overview of Cyber Security <b>Dr. Lilly Raamesh</b> , Professor & Head (Student Affairs), Department of IT, St. Joseph's College of Engineering, <b>Session 1b</b> Cloud Security <b>Mr. Venkatesh Anbalagan</b> , Principal Software Engineer, Fidelity Investments, North Carolina	<b>Session 2</b> Registration and Inauguration Live from Gujarat	<b>Session 3</b> Basics of Networking and Network Devices: An Information Security Perspective <b>Dr. S. Balakrishnan</b> , Professor & Head, Department of CSE, Sri Krishna College of Engineering and Technology, Coimbatore.
		25-08-2020	<b>Session 4</b> Social engineering, Cyber bullying & Biometric security <b>Mr. Sai Satish</b> , Founder & CEO of Indian Servers, Techno Geek, Ethical Hacker, Hyderabad	<b>Session 5</b> Cyber Forensics <b>Dr. Kala Baskar</b> , Director-in-Charge, Centre for Cyber Forensics and Information Security, University of Madras, Chennai	<b>Session 6</b> Pen Testing Methodologies <b>Dr. V. Ceronmani Sharmila</b> , Associate Professor & Head, Department of IT, Hindustan Institute of Technology and Science, Chennai

<p>Mr. Raja Mohammed</p>  <p>Session Screen Shot</p>	<p>26-08-2020</p>	<p><b>Session 7</b> Malware analysis for Android based smart devices <b>Mr.Sai Satish,</b> Founder &amp; CEO of Indian Servers, Techno Geek,Ethical Hacker, Hyderabad</p>	<p><b>Session 8</b> Cyber Security in Industrial Control Systems <b>Dr.Durai Raj Vincent,</b> Associate Professor, School of Information Technology,VIT University, Vellore</p>	<p><b>Session 9a</b> Cryptographic algorithms <b>Dr.Duraimurugan S,</b> Associate Professor, Department of IT, St. Joseph's College of Engineering, Chennai <b>Session 9b</b> Stress Management <b>Ms. Usha Rani,</b> Assistant Professor. Department of Psychology. Women Christian College, Chennai</p>
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	<p><b>AICTE Training and Learning Academy (ATAL)</b> <b>Online Five Days FDP on - CYBER SECURITY</b> <b>24<sup>th</sup> to 28<sup>th</sup> August 2020 at St. Joseph's College of Engineering, OMR, Chennai – 119</b></p>				
<p>Date</p>	<p>10.00 AM to 11.30 AM</p>	<p>12.00 PM to 1.30 PM</p>	<p>2.30 PM to 4.00 PM</p>	<p>Pa</p>	
<p>27-08-2020</p>	<p><b>Session 10</b> Security aspects in Evolving Technologies -1(AI &amp; ML) <b>Dr.A.Jaya,</b> Professor, Department of Computer Applications, B.S. Abdur Rahman Crescent Institute of Science and technology, Chennai</p>	<p><b>Session 11</b> Web Application Security, IT Audit &amp; Safeguard Technologies <b>Mr. Ram Sundar S,</b> Founder &amp; Director, HebeSec Security Labs,Chennai</p>	<p><b>Session 12</b> Network Infrastructure and Web Crawlers Security- case studies <b>Mr.Sai Satish,</b> Founder &amp; CEO of Indian Servers, Techno Geek,Ethical Hacker, Hyderabad</p>		
<p>28-08-2020</p>	<p><b>Session 13</b> Cyber Security – Identity and access management (IAM) <b>Mr.Ilavarasan R ,</b> Senior IAM Technical Architect, Capgemini Australia pty Ltd, Sydney</p>	<p><b>Session 14</b> Security aspects in Evolving Technologies-2 (Block chain &amp; IOT) <b>Dr.I.Joe Louis Paul,</b> Associate Professor, Department of IT, SSN College of Engineering,</p>	<p><b>Session 15</b> Discussion, Test, Feedback and Valedictory Function <b>Dr. Lilly Raamesh &amp;Dr.Duraimurugan S,</b> Department of IT, St. Joseph's College of Engineering, Chennai</p>		

Session Screen Shots			Chennai	

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**Convenors**

- Dr V.Muthulakshmi,HOD-IT Lab affairs,
- Ms G.Lathaselvi,HOD-Staff Affairs
- Dr Lilly Raamesh,HOD-Student Affairs.

**Staff Co-ordinators**

- Dr L.Sherly Puspha Annabel
- Ms J Thresa Jenifer
- Ms Kripa Sekaran

**School Event-CRESCITA-20**

**FRIBBLE**



**FIRST PLACE**

Mr. N.C ESHWAR NATH of 12<sup>th</sup> standard from MAHATMA K.K NAGAR SCHOOL.

**RUNNER UP DETAILS:**

- Mr. AJAY.K of 11<sup>TH</sup> standard from MLM MAMALLAN MATRIC HR. SEC. SCHOOL.
- Ms. KAVEEYA DHARSHNI.D of 12<sup>TH</sup> standard from ZION MATRICULATION HR. SEC. SCHOOL


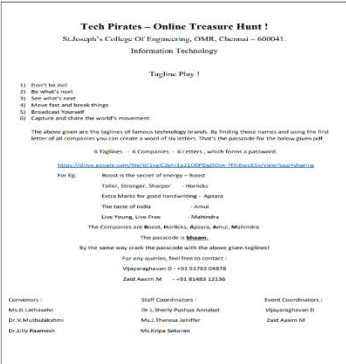

**JUNKED UP**




**FIRST PLACE**

S. BHARATH SRINIVASAN Class 12 of Modern Senior Secondary School, Kanchipuram.







Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution
	 <p style="text-align: center;"><b>Number of Schools Participated:24</b></p> <p><b>Student co-ordinators</b></p> <ul style="list-style-type: none"> <li>• Kishan Kumar-Fribble</li> <li>• Antony Prince J -Junked UP</li> <li>• Vijayaraghavan D -Online Treasure Hunt</li> <li>• Zaid Aasim M -Online Treasure Hunt</li> <li>• Nithish Thillairajan-Photogram.</li> </ul>	<p style="text-align: center;"><b>School Event- CRESCITA-20</b></p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="760 467 1167 919" style="width: 48%;"> <p style="text-align: center;"><b>TECH PIRATES-ONLINE TREASURE HUNT</b></p>  </div> <div data-bbox="1180 467 2007 919" style="width: 48%;"> <p><b>FIRST PLACE</b> SAISHEASHAN, Modern senior secondary school,Kanchipuram. SHRIRAM S ,Wisdom vidhyashram,Cheyyar. <b>I RUNNER UP</b> SRICHARAN NANTHAKUMARAN, Sri Sankara vidyalaya east Tambaram. S BHARATH SRINIVASAN –Modern Senior Secondary School, Chennai. <b>II RUNNER UP</b> S.SHREYAS, Modern Senior Secondary School, Chennai. V.KIRTHIK,Sri Jayendra Swamigal Silver Jubilee Matric Hr. Sec. School,Tirunelveli.</p> </div> </div>
		<p style="text-align: center;"><b>PHOTOGRAM-ONLINE PHOTOGRAPHY</b></p> 

## DEPARTMENT OF MBA

S.No	Events	Remarks
<b>September 2020</b>		
1		<p><b>Dr.Priya Sethuraman</b></p> <ul style="list-style-type: none"> <li>➤ Attended 2 days Workshop on “Data Analysis, Visualization and Manipulation using ‘R’”, organized by Pondicherry Research Enthusiasts’ Forum, Pondicherry” on 12/09/2020 &amp; 13/09/2020</li> <li>➤ Attended 3 days “Online Workshop on " Qualitative Data Analysis using NVIVO Software” organized by Dhanya Education and Environmental Development Society, Guntur, Andhra Pradesh, on 18/9/2020 to 20/9/2020</li> <li>➤ Attended 5 days FDP on “Five-Day EDP on Prediction using Econometric tools” organized by Pondicherry University, from 23/09/2020 &amp; 27/09/2020.</li> </ul> <p><b>Mr.P.Surenthran David</b></p> <ul style="list-style-type: none"> <li>➤ Participated in a Five- day Executive Development Programme on Prediction using Econometric Tools.23rd to 27th September, 2020, organized by Pondicherry University.</li> </ul> <p><b>Dr.S.P.Karuppiah</b></p> <ul style="list-style-type: none"> <li>➤ FDP on “Operations Management” conducted by All India Council For Technical Education From 31-08-2020 to 04-09-2020</li> <li>➤ FDP on "National Level One Week Faculty Development Programme on Highlights and Implementation of National Education Policy - 2020” conducted by C.B. BHANDARI JAIN COLLEGE on 4<sup>th</sup> September</li> <li>➤ One Week FDP on “Artificial Intelligence using Python” conducted by Department of CSE, GMR Institute of Technology, JNTUH, Kakinada from 14-09-2020 to 19-09-2020.</li> </ul>



		<p><b>Mr.S.Aravinth</b></p> <ul style="list-style-type: none"> <li>➤ Attended 3 days workshop on “Enhancing the teaching skills” organized by Department of MBA, DSEC college, Perambalur on 21 st to 23 rd September 2020</li> </ul>
2		<p><b>Mr.S.P.Karuppiah</b></p> <ul style="list-style-type: none"> <li>➤ Webinar on “NEP-2020 A Paradigm Shift in Education”, Conducted by Dr.M.G.R. Educational and Research Institute -02-09-2020</li> <li>➤ Webinar on “Cutting Edge Handloom Adaption for the Next Gen”, Conducted by Dr.M.G.R. Educational and Research Institute -05-09-2020</li> <li>➤ Webinar on “Knowledge Engineering in Artificial Intelligence “, Conducted by Stantonony college of arts and science for Women-07-09-2020</li> <li>➤ Webinar on “The Order of Global Business In Post-Pandemic”, Conducted by Kristu Jayanti College, Bangalore-08-09-2020</li> <li>➤ Webinar on “Emerging India with Resilience and Perseverance”, conducted by Alagappa University-16-09-2020.</li> </ul>
3	<p><b>WEBINARS ORGANISED</b></p>	

		<ul style="list-style-type: none"> <li>➤ Our Department organized an webinar on ”EDC Orientation Programme” on 13-09-20 between 10.30 to 12.00 pm.</li> </ul>
4		<p><b>Dr.Karuppaiah.S.P</b>  A Course on “Marketing Foundation” has completed on SEP 2020 authorized by Great learning Academy</p>
	<p><b>Student Achievements</b></p>	
5		<ul style="list-style-type: none"> <li>➤ <b>Priya Jenifer</b> A of II year MBA B sec completed her online course on “Business Intelligence Analyst Course 2020” on 1/9/2020, certified by Udemy</li> </ul>

## DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
1	Collabarative Quality initiatives with other institutions	-
1	Industrial Visits, Inplant Training, Internships	-
2	Guest Lecture	-
3	FDP/Workshop/Conference	<p>Organized:</p> <p>1. Dr. V.N. Nandini Devi, Mr. S. Kaleel Mohamed Ibrahim, Dr. P. Krishnan, Dr. K. Sathesh Kumar organised three days online Faculty Development Program on “Recent Trends in Physics” from 31.08.2020 to 02.09.2020.</p> <p>2. Dr. V.N. Nandini Devi, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Dr. K. Jayamoorthy, Dr. B. Subash organised three days International online Faculty Development Program on “Recent Trends in Physics” from 31.08.2020 to 02.09.2020.</p> <hr/> <p>Presented as Resource Person:</p> <p>1. Dr. S. Suresh, as a resource person, delivered a lecture during the online orientation program on Engineering Physics – an overview, conducted by Sri Venkateswara College of Technology, Sriperumbudur on 29.09.20.</p> <hr/> <p>Acted as Translator:</p> <p>1. Dr. S. Suresh acted as NPTEL- swayam course translator for Experimental Physics during the Month of September 2020.</p> <hr/> <p>AICTE-ATAL FDP course:</p> <p>1. Dr. S. Kiruba attended five days AICTE-ATAL online Faculty Development Program on Need for Artificial Intelligence in Energy Storage Systems conducted by Kallam Haranadhareddy Institute of Technology, Guntur, Andhra Pradesh from 07.09.2020 to 11.09.2020.</p>

2. Dr. N. Punitha, Ms. A. Arulmozhi attended five days AICTE-ATAL online Faculty Development Program on "Mechanics of Composite Materials and Structures" conducted by M.B.M. Engineering College, Faculty of Engineering and Architecture, J.N.V. University, Jodhpur, from 09.09.2020 to 13.09.2020.

3. Dr. V. Swarnalatha, Dr. S. Kiruba attended five days AICTE-ATAL online Faculty Development Program on Energy Engineering conducted by Velammal Engineering College, Chennai 17.09.2020 to 21.09.2020.

4. Ms. A. Mahalakshmi, Dr. S. Rama attended five days AICTE-ATAL online Faculty Development Program on Nanomaterials, Sensors & Devices conducted by AICTE Training And Learning (ATAL) Academy, Chandigarh from 21.09.2020 to 25.09.2020.

5. Dr. K. Sathesh Kumar attended five days AICTE-ATAL online Faculty Development Program on Photonics conducted by Institute of Engineering and Technology, Dr. Rammanohar Lohia Avadh University Ayodhya from 21.09.2020 to 25.09.2020.

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Paper presented in Conferences:

1. Dr. S. Kiruba presented a paper in the International online conference on Recent Trends & Innovations in Science, Engineering and Social Sciences (IVCRTISESS 2020) conducted by VHNSN College (Autonomous), Virudhunagar from 04.09.2020 to 06.09.2020.

2. Dr. S. Kiruba presented a paper in the International conference on Advanced Materials Science and Engineering (ICAMSE - 2020) conducted by Bannari Amman Institute of Technology Sathyamangalam from held from 11.09.2020 to 12.09.2020.

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Attended:

1. Dr. G. Murugan, Dr. N.R. Rajagopalan, Dr. K. Jayamoorthy, Dr. P. Saravanan, Dr. V. Swarnalatha, Dr. A. Uma Devi, Ms. J. Sharmila, Ms. S. Savitha, Dr. B. Subash, Mr. S. M. Prakash, Dr. N. Punitha, Dr. S. Manikandan, Ms. A. Mahalakshmi, Dr. S. Suresh, Ms. A. Arulmozhi, Dr. S. Rama, attended three days online Faculty Development Program on Recent Trends in Physics conducted by St. Joseph's College of Engineering, Chennai from 31.08.2020 to 02.09.2020

2. Dr. S. Kiruba attended five days International Faculty Development

	<p>Program on Applications of Advanced Materials and Technology in Chemical Science conducted by Easwari Engineering College, Ramapuram, Chennai from 31.08.2020 to 04.09.2020</p> <p>3. Dr. A. Uma Devi, Dr. B. Subash attended an International webinar Model-based Process Development of Continuous Chromatography for Antibody Separation conducted by Sri Sivasubramaniya Nadar College of Engineering, Chennai on 02.09.2020.</p> <p>4. Dr. S. Manikandan attended an International webinar on Silicon and beyond conducted by Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai on 03.09.2020.</p> <p>5. Dr. N. Punitha, Ms. A. Arulmozhi attended an International online conference on Recent Trends &amp; Innovations in Science, Engineering and Social Sciences (IVCRTISESS 2020) conducted by VHNSN College (Autonomous), Virudhunagar from 04.09.2020 to 06.09.2020.</p> <p>6. Ms. A. Arulmozhi, Dr. S. Kiruba, Dr. N. Punitha, attended a National level webinar on Model Teacher conducted by RMK Institute of Technology, Chennai on 05.09.2020.</p> <p>7. Dr. S. Suresh, Ms. J. Sharmila, Ms. S. Savitha attended an International webinar on Nanotechnology conducted by Vignana Bharathi Institute of Technology, Hyderabad on 05.09.2020.</p> <p>8. Dr. S. Manikandan attended an National webinar on Sports for Healthy life conducted by Amazing Grace corporation, Chennai on 05.09.2020.</p> <p>9. Dr. P. Krishnan attended a National level webinar on Advanced Materials for Energy storage and fuel cell application conducted by Gangadhar Meher University, Amruta Vihar, Sambalpur, Odisha from 6.09.2020 to 7.09.2020</p> <p>10. Ms. A. Mahalakshmi, Dr. S. Kiruba, Dr. S. Rama attended a National level webinar on Current and future aspects of electro-organic synthesis conducted by Saveetha Engineering College, Chennai on 07.09.2020.</p> <p>11. Dr. P. Krishnan attended an International virtual conference on Super-capacitors and Batteries for Future Avenues (ICSBFA-2020) conducted by Bharathidasan University, Tiruchirappalli from 8.09.2020 to 9.09.2020</p> <p>12. Dr. A. Uma Devi attended an International webinar Fibrous Silica Catalysts for Green</p>
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		<p>Technologies conducted by Sri Sivasubramaniya Nadar College of Engineering, Chennai on 09.09.2020.</p> <p>13. Ms. A. Mahalakshmi attended a National level webinar on Great contribution of Physics to Chemistry and Life Sciences for Structural Engineering :XRD conducted by C.Abdul Hakeem College of Engineering and Technology, Vellore on 10.09.2020.</p> <p>14. Dr. N. Punitha, Dr. S. Kiruba, Ms. A. Arulmozhi attended an International online conference on Nonlinear Systems and its Applications conducted by SRM Institute of Science &amp; Technology, Ramapuram, Chennai from 11.09.2020 to 12.09.2020.</p> <p>15. Dr. N.Punitha, Ms. A. Arulmozhi attended an International conference on the Advanced Materials Science and Engineering (ICAMSE - 2020) conducted by Bannari Amman Institute of Technology Sathyamangalam from held from 11.09.2020 to 12.09.2020.</p> <p>16. Dr. B. Subash, Mr. S. M. Prakash , Dr. A. Uma Devi , Dr. S. Kiruba, Dr. P. Krishnan, Ms. A. Arulmozhi, Ms. A. Mahalakshmi, attended five days International Faculty Development Program on smart and nano Materials conducted by Easwari Engineering College, Ramapuram, Chennai from 14.09.2020 to 18.09.2020</p> <p>17. Ms. A. Arulmozhi attended a national online workshop on Science Foundation and MHRD-IIC-DDUC Chapter "Frontiers in Science &amp; Engineering - Opportunities for Graduates" conducted by Deen Dayal Upadhyaya College, University of Delhi, New Delhi from 14.09.2020. to 19.09.2020.</p> <p>18. Dr. P. Krishnan attended a National level webinar on Synthesis, Characterization and Applications of Advanced materials conducted by Rajiv Gandhi University Of Knowledge Technologies, A.P from 16.09.2020 to 17.09.2020</p> <p>19. Ms. A. Mahalakshmi , Dr. S. Manikandan, Dr. P. Krishnan, Dr. S. Suresh, Mr. S. Kaleel Mohamed Ibrahim, Ms. A. Arulmozhi, Dr. S. Kiruba, Dr. N. Punitha, Dr. K. Sathesh Kumar, Dr. S. Rama Dr. G. Murugan, Dr. P. Saravanan, Dr. V. Swarnalatha, Ms. J. Sharmila, Ms. S. Savitha, Mr. S. M. Prakash attended three days International Faculty Development Program on Frontiers in Chemistry (FC - 2020) conducted by St.Joseph's College of Engineering, Chennai from 16.09.2020 to 18.09.2020</p> <p>20. Ms. A. Arulmozhi , Dr. P. Krishnan, attended an International conference on "ICANEE-2020 - International Virtual Conference on Advanced Nanomaterials for Energy and</p>
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	<p>Environmental Applications" conducted by Alagappa University, Karaikudi from 16.09.2020. to 18.09.2020.</p> <p>21. Ms. A. Arulmozhi attended an International webinar on "Innovative Data Analytics Tools for Chemical and Life Sciences Research" conducted by Jharkhand Chemical Society, Ranchi on 20.09.2020.</p> <p>22. Ms. A. Arulmozhi attended a National level webinar on "Steps Towards Complex Matter: Chemistry!" conducted by Deen Dayal Upadhyaya College Chapter (University of Delhi) on 21.09.2020.</p> <p>23. Dr. S. Kiruba attended five days International Students Induction program Program on Universal Human Values for DEEKSHARAMBH conducted by NIT, Patna from 21.09.2020 to 25.09.2020.</p> <p>24. Dr. S. Kiruba attended a National level online Faculty Development Program on Recent Advances in Material Science conducted by M.M.M. University of Technology, Gorakhpur from 21.09.2020 to 25.09.2020.</p> <p>25. Dr. S. Kiruba attended an International webinar on Atomic Force Microscopy (AFM) conducted by Park Webinar Series ASIA on 22.09.2020.</p> <p>26. Dr. S. Suresh attended an International webinar on What does trustworthy peer review look like? conducted by Royal Society of Chemistry Webinars on 23.09.2020.</p> <p>27. Dr. S. Rama attended an International webinar on Material Science conducted by St. John's College, Kerala from 23.09.2020 to 25.09.2020.</p> <p>28. Ms. A. Arulmozhi attended a National level webinar on "Organic Electronics" conducted by Deen Dayal Upadhyaya College Chapter (University of Delhi) on 30.09.2020.</p> <p>29. Dr. K. Sathesh Kumar attended an International webinar on ACS Science Talks on Advances in Perovskite single crystals: Fundamentals and applications conducted by American Chemical Society-India on 30.09.2020.</p>	
4	<b>Symposium</b>	-
5	<b>STTP</b>	-
6	<b>Value added Courses/Courses other than VAC</b>	-




7	Competitions attended by students	-
8	Awards/Prize won by students	-
9	Industrial Projects done by students	-
10	Publications(only published) details	-
11	Funded Projects	-
12	Other activities(if any)	<p><b><u>PROGRAMS CONDUCTED FOR SCHOOL / COLLEGE STUDENTS</u></b></p> <p>1. The Department of Science conducted an online e-quiz program titled “Riddles on Destination” for school students on 30.9.20.</p> <p><b><u>NATIONAL SERVICE SCHEME (NSS) DAY CELEBRATION</u></b></p> <p>1. NSS day was celebrated on 24.09.2020. As a part of NSS day, NSS volunteers involved in social service activities such as Donating groceries to the needy people (Ms. K. Keerthana, II – Biotech, Mr. J. Sankar Guru (II – EIE), Ms. T. Janani ( II – ECE A), Donating sanitisers (Mr. Sai Praneet – II CSE – C) and Tree plantation (Mr. J. Sankar Guru, II – EIE) activities.</p>

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Sl. No.	Event with Photo	Description
1	UPSC Civil Service Examination 2020	<p>Date : 21.09.2020 – 27.09.2020            Venue : Online mode            Nature of Event : Webinar            Participants : Students            Duration : 3 Hours            No. of Days : 6 days            Resource Person : Shri V Nandha Kumar, IRS and his team</p> <p><b>Objective:</b> To give the awareness about various UPSC exams and how to handle civil service exams, this program were organized in association with ICT Academy.</p> <p>During the program various topics were discussed such as Indian Polity, Indian Economy, Indian History, Geography, Ecology Environment, General Science, Science and Technology, and Prelims Orientation for General Studies &amp; CSAT.</p> <p><b>Outcome:</b> The civil service aspirants were actively participated in the program and they received lot of information about how to crack civil service exam</p>



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

1.A Webinar on GATE: The door way of Opportunities in India	Report
 <p><b>11<sup>th</sup> September 2020</b>  <b>5.00 pm -6.00 pm</b>  <b>Google Meet</b>  <a href="https://forms.gle/ycbgSddN7XjeaBRHA">https://forms.gle/ycbgSddN7XjeaBRHA</a></p> <p><b>Resource Persons:</b>  <b>Mr . M. DINESH KUMAR</b>  M.Tech (IIT Madras)  GATE 2009 (All India Rank- 41) &amp;  <b>Mr . R. MUKESH KUMAR</b>  M.Tech (IIT Kharagpur)  GATE 2015 (All India Rank- 187)  IITians <b>GATE CLASSES,</b>  <b>EXCLUSIVE GATE COACHING BY</b>  <b>IIT/IISC GRADUATES,</b>  <b>A division of PhIE Learning Center, Bangalore.</b></p> <p><b>CHIEF PATRON</b>  <b>Dr. B. Babu Manoharan, M.A., M.B.A., Ph.D</b>  Chairman, St .Joseph's Group of Institutions.</p> <p><b>PATRONS</b>  <b>Mrs. S. Jessie Priya, M.Com</b>  Managing Director  <b>Dr. Vaddi Seshagiri Rao, M.E., M.B.A., Ph.D</b>  Principal</p> <p><b>Mr. S. Shashi Sekar, M.Sc</b>  Director  <b>Dr. S. Parvathavarthini, M.E., M.B.A., Ph.D</b>  Dean [Research]</p> <p><b>CONVENORS</b>  <b>Dr. B. Victoria Janicee, M.E., Ph.D</b>  HOD-Staff Affairs  <b>Dr. S. Aghalya, M.E., Ph.D</b>  HOD-Student Affairs  <b>Dr. P. Eshwarasi, M.E., Ph.D</b>  HOD-Lab Affairs</p> <p><b>COORDINATORS</b>  <b>Dr. I. Johnal Stella, M.E., Ph.D</b>  Professor  <b>Dr. A. M. Balamurugan, M.E., Ph.D</b>  Associate Professor  <b>Dr. J. Sivakumar, M.E., Ph.D</b>  Associate Professor  <b>Mr. R. Prabhu, M.E., (Ph.D)</b>  Assistant Professor</p> <p style="text-align: center;"><b>Targeted Audience: UG Students</b>  <b>Registration free</b></p>	<p>A webinar for Electronics and Communication Engineering Students on “GATE: The door way of Opportunities in India” was organized by the Department of ECE on 11.09.2020 at 5.00 pm IST to get an insight of GATE exam using Google meet platform. The Resource persons were Mr.M.Dinesh Kumar M.Tech (IIT Madras) GATE 2009 (All India Ranking-41) and Mr.R.Mukesh Kumar M.Tech (IIT Kharagpur) GATE 2015 (All India Ranking187). A total of 148 students from the department including second, third and final year students participated in the session. The session started with detailed information on the numerous opportunities and benefits of clearing GATE exam. The pattern of exam and the subjects related to Electronics and Communication were highlighted during the presentation. Important books and the method of preparing for each subject were discussed. Our Principal Dr.Vaddi Seshagiri Rao M.E, MBA, Ph.D addressed the students in the middle of the session and highlighted the importance of GATE exam that it is an essential requirement to apply in PSU and the salary package offered which is the best and competent with IT industry. The Resource persons focused on GATE 2021 exam pattern, syllabi, age limit, validity of the score etc. Tips and the ways to explore the exam were also briefed up during the session. The queries were discussed at the end of the presentation session. From the feedback submitted by the students it is observed that this webinar was very much useful and informative for all the students and in future many such webinars may be organized for shaping their career and to achieve better position in their field of interest.</p>
2.EWizard Club Event- 404 NOT FOUND	Report
	<p>A technical event for the students of ECE Department on the topic “<b>404 NOT FOUND</b>” was organized by the <b>E-Wizard club</b>”, of ECE Department on <b>19.09.2020</b> using Google meet app between</p>

YOU CHOOSE, WE DO IT

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

**Department of Electronics & Communication Engineering**  
 (Accredited by NBA since 2003)  
 In Association with E-Wizard Students Club

**nirf**  
RANK : 160

**26**  
Years of Excellence

**A+**  
NAAC

**ARIA**  
ATMA BARANATA DEKORATIFITINDIA  
AN INDICATOR OF ACHIEVEMENT

**E-WIZARD**  
Win the Fear of Attempt

**PROUDLY PRESENTS**  
**"404 NOT FOUND"**  
 (For ECE Students only)  
**FEATURING**



**HARISH VIDH**  
IV YEAR ECE B



**MOKESH KUMAR**  
IV YEAR ECE B



**JUDAH GEORGE**  
IV YEAR ECE B



**JEREMIAH JOHN**  
IV YEAR ECE B



**JITHENDAR K**  
IV YEAR ECE B

**SEPTEMBER 19, 2020 • 5:00PM-6:30PM**

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

**Patrons**

<p>Mrs. S. Jessie Priya M.Com. Managing Director</p> <p>Dr. Vaddi Seshagiri Rao M.E, MBA, Ph.D Principal</p>	<p>Mr. B. Shashi Sekar M.Sc. (INTL business) Director</p> <p>Dr. B. Parvathavartini M.E, MBA, Ph.D Dean (Research)</p>
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**Convenors**

<p>Dr. B. Victoria Jancee M.E, Ph.D [HOD - Staff Affairs]</p>	<p>Dr. S. Aghalya M.E, Ph.D [HOD - Student Affairs]</p>	<p>Dr. P. Ezhilarasi M.E, Ph.D [HOD - Lab Affairs]</p>
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**Co-ordinators**

<p>Dr. D. Lakshmi M.E, Ph.D [Associate Professor]</p>	<p>Dr. R. Avudalammal M.E, Ph.D [Professor]</p>
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 <https://forms.gle/mAeL5DZieSCMnbtu6>
 <https://meet.google.com/gkz-huxk-cda>

Free Registration      E-Certificates will be provided

05.00 AM and 06.30 PM. The event was presented by Mr. Jeremiah John, Mr. Judah George, Mr. Harish, Mr. Jithendar, and Mr. Mokesh Kumar of final year ECE Department, St. Joseph's College of Engineering. A Total of **51** members participated from **St. Joseph's College of Engineering**. The event began with the starting round of technical and aptitude based questions. Based on the score, students were selected for the next round. The second round, consists of electronics-based questions. The students were scrutinized based on their score and the selected students moved on to the next round which was a coding based round, they had to answer 3 questions (fill in the code). Based on their scores the top 3 students were selected as the winners. From the **feedback** submitted by the participants, it is observed that this event was very much **useful and informative** for all the participants and in future many such eventss may be organized for checking the student's application based knowledge and also to refresh and recollect what they have studied. **E-Certificate** was issued to all the 51 participants as an acknowledgement of their participation.

**3. Workshop/Certificate Course/ Conference:**

**\*\* NIL \*\***

**4. Webinars:**

**\*\* NIL \*\***

**5. Publications:**

The following staff member have published the research papers during the month of September 2020 in Journals/ Conferences at National/International Level

<b>S. No.</b>	<b>Name of the Author</b>	<b>Paper Title</b>	<b>Journal/Conference</b>	<b>Publication Details</b>
1.	<u>Suresh, K., Sakthi, U., Raja, N.S.M., Prabhu, R</u>	Analysis of Histogram Distance Measures for Change Detection in Brain Symmetry	6th International Conference on Bio Signals, Images, and Instrumentation, ICBSII 2020	Scopus