



St. Joseph's College of Engineering




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



NOVEMBER 2020

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p align="center">PUBLICATIONS(ONLY PUBLISHED) DETAILS</p> <p>Pharmacogn. Mag. A multifaceted peer reviewed journal in the field of Pharmacognosy and Natural Products www.phcog.com www.phcog.net</p> <p align="right"><i>ORIGINAL ARTICLE</i></p> <p><i>In vitro</i> Evaluation of <i>Hydrilla verticillata</i> for Anti-Adipogenesis Activity on 3T3 L1 Cell Lines</p> <p>S. Pandi Prabha¹, S. Sadhana¹, C. Karthik², D. G. Caroline²</p> <p>¹Department of Biotechnology, Sri Venkateswara College of Engineering, Chennai, Tamil Nadu, India, ²Department of Biotechnology, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India</p> <p>Submitted: 07-Jun-2020 Revised: 06-Jul-2020 Accepted: 11-Aug-2020 Published: 30-Nov-2020</p> <div data-bbox="289 933 1171 1372"> <p>ABSTRACT Background: Obesity is a metabolic disorder that has reached pandemic proportions worldwide. Phytol, a diterpene isoprenoid alcohol found as an integral part of chlorophyll of plants, algae, and guts of ruminant animals, is proven for its lipid-lowering activity. This compound is largely present in the Indian aquatic medicinal plant, <i>Hydrilla verticillata</i>. The research is focused to screen the anti-adipogenesis activity of <i>H. verticillata</i> extract on 3T3 L1 cell lines. Materials and Methods: The ethanolic extract of <i>H. verticillata</i> was prepared and characterized by gas chromatography–mass spectroscopy and Fourier transform infrared spectroscopy analysis. <i>In vitro</i> cytotoxic effect of <i>H. verticillata</i> extract on 3T3 L1 cell line was evaluated by 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide test. The ethanolic solvent extract of this plant is screened for anti-adipogenesis activity by performing <i>in vitro</i> pancreatic lipase inhibition and Oil Red O staining assay. Results: Phytochemical analysis and characterization of the extract showed the presence of a large amount of phytol in <i>H. verticillata</i>. <i>In vitro</i> pancreatic assay of the crude extract showed maximum lipase inhibition activity at a minimal concentration of 125 µg/mL, similar to the standard anti-obesity drug, orlistat. The half-maximal inhibitory concentration (IC₅₀) of the extract on 3T3 L1 cell line was 840.91 µg/mL. Cells treated with one-third IC₅₀ showed minimal lipid accumulation, which is determined by Oil Red O staining. Conclusion: This study confirms that the ethanolic extract of <i>H. verticillata</i> possesses anti-adipogenesis activity, which can be used to control obesity-related treatments. Key words: Adipose tissue, lipase inhibition activity, obesity, Oil Red O staining, phytol</p> <p>Abbreviations used: FTIR: Fourier transform infrared spectrophotometer; GC-MS: Gas chromatography-mass spectroscopy; NIST: National Institute of Standards and Technology; NCCS: National Centre for Cell Science; PL: Pancreatic lipase; PNPB: p-Nitrophenyl butyrate; MTT: (4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide; DMSO: Dimethyl sulfoxide DMEM: Dulbecco's Modified Eagle Medium; MDI: Methylisobutylxanthine, dexamethasone, insulin; PBS: Phosphate-buffered saline; FBS: Fetal bovine serum; TBT: Tributyltin chloride; GI: Gastrointestinal.</p> </div>	<p>Dr. C. Karthik and Ms. D.G. Caroline has published a research paper on the title <i>In vitro</i> evaluation of hydrilla verticillata for Anti-Adipogenesis activity on 3T3 L1 cell lines in the journal Pharmacogn.Mag. on 30th November 2020.</p> <p>Dr. G. Baskar published paper on Process optimization, green chemistry balance and technoeconomic analysis of biodiesel production from castor oil using heterogeneous nanocatalyst in the journal Bioresource technology with impact factor 7.539</p>

	<p style="text-align: center;">Bioresource Technology 320 (2021) 124347</p> <div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: center;"> <p>Contents lists available at ScienceDirect</p> <h2 style="margin: 0;">Bioresource Technology</h2> <p>journal homepage: www.elsevier.com/locate/biortech</p> </div>  </div> <hr/> <p>Process optimization, green chemistry balance and technoeconomic analysis of biodiesel production from castor oil using heterogeneous nanocatalyst</p> <p>R. Naveenkumar, G. Baskar*</p> <p><small>Department of Biotechnology, St. Joseph's College of Engineering, Chennai 600119, India</small></p> <hr/> <p>HIGHLIGHTS</p> <ul style="list-style-type: none"> • The biodiesel conversion was optimized using the central composite method. • The factors influencing green chemistry balance and stoichiometric factor were analyzed. • The maximum biodiesel conversion of 84.9% was obtained at optimal conditions. • The technoeconomic analysis of biodiesel production from castor oil was investigated. • The sensitivity analysis of oil cost and biodiesel price were conducted. 	
2.	FUNDED PROJECTS	-
3.	<p style="text-align: center;">STAFF CONFERENCE PRESENTATION</p> 	<ul style="list-style-type: none"> • Dr. G. Sreekumar has attended the webinar on Toolkit for treasure hunt-drug discovery made easy organized by Shimadzu on 26th November 2020. • Ms. B. Sangeetha has attended the webinar on Outcome based education organized by the department of Bioengineering, Vels Institute of Science, Technology and Advanced Studies on 18th November 2020. • Ms. S. Yuwvaranni has attended the webinar on Outcome based education organized by the department of Bioengineering, Vels Institute of Science, Technology and Advanced Studies on 18th November 2020. • Ms. S. Yuwvaranni has attended Awareness talk on covid 19 in the International Awareness programme



Ms. Sangeetha copy of certificate



Ms. Yuwvaranni copy of certificate

organized by National educational Trust, Kalldikurichi on 13th November 2020.

- **Dr. C. Karthik** has participated in the online faculty development program on “Contemporary Advances in Bio-nanotechnology” organized by Department of Biotechnology, National Institute of Technology Andhra Pradesh, Tadepalligudem, from 02nd November to 06th November 2020.
- **Ms. S. Geerthika** has attended Online STTP sponsored by AICTE on An Awareness Program- Green Engineering Concepts and Treatment Methods for Farmers Paavai Engineering College, Namakkal between 08.11.2020- 13.11.2020 (6 Days)



Dr. Karthik copy of certificate



Ms. Caroline copy of certificate



PAAVAI ENGINEERING COLLEGE
(An Autonomous Institution affiliated to Anna University, Chennai)
NH — 44, Pachal, Namakkal — 637018, Tamilnadu, India



Department of Chemical Engineering



CERTIFICATE OF PARTICIPATION



This is to certify that **Mrs. GEERTHIKA S , Assistant Professor**
of **St.Joseph's College of Engineering** has participated
and completed successfully AICTE sponsored Six days online Short Term Training Program (STTP) on
"An Awareness Programme - Green Engineering Concepts and Treatment Methods for Farmers
in Rural Area" Series— II from 08.11.2020 to 13.11.2020 at Paavai Engineering College, Namakkal.

Mr. D. DHANARAJA
Coordinator

Dr. G. SRINIVASAN
Convener / HDD


Dr. M. PREMKUMAR
Principal / PEC

Ms. Geerthika copy of certificate






DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks
1	FDP	<ul style="list-style-type: none">• Ms Sivaranjane R attended virtual FDP on “Green Engineering Concepts and Treatment Methods for Farmers in Rural Area” from 8th to 13th November organized by Paavai Engineering College.• Ms Geerthika S attended virtual FDP on “Green Engineering Concepts and Treatment Methods for Farmers in Rural Area” from 8th to 13th November organized by Paavai Engineering College.• Ms B S Rathi attended virtual FDP on “Green Engineering Concepts and Treatment Methods for Farmers in Rural Area” from 8th to 13th November organized by Paavai Engineering College.• Mr C Karthikeyan attended virtual FDP on “Green Engineering Concepts and Treatment Methods for Farmers in Rural Area” from 8th to 13th November organized by Paavai Engineering College.• Ms A Tamilarasi attended virtual FDP on “Green Engineering Concepts and Treatment Methods for Farmers in Rural Area” from 8th to 13th November organized by Paavai Engineering College.


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING


1. Webinar on Orientation for Innovative Quality Project	Report		
 <p style="text-align: center; border: 1px solid black; padding: 5px; color: magenta; font-weight: bold;">A Webinar on Orientation for Innovative Quality Projects</p> <p> Day 1: 11th November 2020 (5.30 - 6.30 pm) Day 2: 12th November 2020 (5.30 - 6.30 pm) </p> <p style="text-align: center; color: magenta;"> Exclusively for ECE Final Year Students </p> <p style="text-align: center; color: green; font-weight: bold;"> Meeting Link: meet.google.com/qiv-kmor-bam </p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>CONVENORS</p> <p>Dr. S. Rajesh Kannan M.E., Ph.D. 9840455620</p> <p>Dr. B. Vasudevan M.E., Ph.D 9841542888</p> <p>PROGRAM ADVISORS</p> <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> </td> <td style="width: 50%; vertical-align: top;"> <p>PATRONS</p> <p>Dr. B. Babu Manoharan M.A., MB.A., Ph.D Chairman, St. Joseph's group of Institutions</p> <p>Mrs. S. Jessie Priya M.Com Managing Director</p> <p>Mr. B. Shashi Sekar M.Sc., Intl Business Director</p> <p>Dr. Vaddi Seshagiri Rao M.E., MBA., Ph.D Principal</p> <p>Dr. B. Parvathavarthini M.E., MBA., Ph.D Dean (research)</p> </td> </tr> </table>	<p>CONVENORS</p> <p>Dr. S. Rajesh Kannan M.E., Ph.D. 9840455620</p> <p>Dr. B. Vasudevan M.E., Ph.D 9841542888</p> <p>PROGRAM ADVISORS</p> <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>	<p>PATRONS</p> <p>Dr. B. Babu Manoharan M.A., MB.A., Ph.D Chairman, St. Joseph's group of Institutions</p> <p>Mrs. S. Jessie Priya M.Com Managing Director</p> <p>Mr. B. Shashi Sekar M.Sc., Intl Business Director</p> <p>Dr. Vaddi Seshagiri Rao M.E., MBA., Ph.D Principal</p> <p>Dr. B. Parvathavarthini M.E., MBA., Ph.D Dean (research)</p>	<p>A webinar, exclusively for Final Year ECE Students on the topic “Orientation for Innovative Quality Project” was organized by the department of ECE by STIGMATA Technology Solutions Limited Chennai, on 11th and 12th November using Google meet app between 5.30 to 6.30 PM.</p> <p>Day 1 : (05:30 PM to 06:30 PM) was presented by Mr. Nirmal, Embedded project developer.</p> <p>Day 2: (5:30 PM to 6:30 PM) was presented by Mrs. Divya, Software project developer from STIGMATA. Totally ECE students participated in each session from St. Joseph’s college of Engineering and got benefited. This webinar provided an opportunity for the final year students to understand the importance of final semester project work. This webinar acted as a key platform for the students to understand the role played by hardware and software sections in projects and also to know the latest research activity promoting using current technology. From the feedback submitted by the students it is observed that this webinar was very much useful and informative for all students.</p>
<p>CONVENORS</p> <p>Dr. S. Rajesh Kannan M.E., Ph.D. 9840455620</p> <p>Dr. B. Vasudevan M.E., Ph.D 9841542888</p> <p>PROGRAM ADVISORS</p> <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>	<p>PATRONS</p> <p>Dr. B. Babu Manoharan M.A., MB.A., Ph.D Chairman, St. Joseph's group of Institutions</p> <p>Mrs. S. Jessie Priya M.Com Managing Director</p> <p>Mr. B. Shashi Sekar M.Sc., Intl Business Director</p> <p>Dr. Vaddi Seshagiri Rao M.E., MBA., Ph.D Principal</p> <p>Dr. B. Parvathavarthini M.E., MBA., Ph.D Dean (research)</p>		
2.Value Added Course on RASPBERRY PI	Report		
	<p>The Department of ECE in association with RETECH SOLUTIONS PVT LTD organized a Value added course on the topic RASPBERRY PI on 9th,10th &11th of November 2020 for the second- and third-year</p>		


You choose, We do it
St. JOSEPH'S COLLEGE OF ENGINEERING
 St. Joseph's Group of Institutions
 OMR, Chennai-119

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 (Accredited by NBA Since 2003)
 IN ASSOCIATION WITH RETECH SOLUTIONS PVT LTD


Presents a Value Added Course on
RASPBERRY PI


09-11-2020
 TO
11-11-2020


4 PM
 TO
6 PM

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

PATRONS

Mrs. S. JESSIE PRIYA, M.Com.,
Managing Director
 Dr. VADDI SESHAGIRI RAO, M.E., MBA, Ph.D.,
Principal

Mr. B. SHASHI SEKAR, M.Sc., Intl Business
Director
 Dr. B. PARVATHAVARTHINI, M.E., MBA, Ph.D.,
Dean (Research)

CONVENORS

Dr. B. VICTORIA JANCEE, M.E., Ph.D.,
HOD - Staff Affairs

Dr. S. AGHALYA, M.E., Ph.D.,
HOD - Student Affairs

Dr. P. EZHILARASI, M.E., Ph.D.,
HOD - Lab Affairs

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 Mrs. K. JASMINE MYSTICA, M.E.,
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Mob. No.: +91 9677190102

**For All II Year
 and
 III Year ECE Students**

students of ECE.

Mr. A.Mohanasundaram, M.E., (Embedded Developer), and his team from RETECH Solutions, taught our students everything about working with the Raspberry pi board and Raspbian OS.

The program was an online course on the Google meet platform. A total of 350 students from our department (second, third year students) participated in the sessions. The students were accommodated in 4 meetings and the RETECH team handled the session in all 4 meeting links simultaneously.

Day1 session started with Raspberry Pi introduction and setup. It was followed by so many live demonstration sessions on creating simple applications with, programming for interfacing various internal peripherals like, DAC, ADC, RTC, Ethernet, etc. on Day 2 and Day 3.

The queries were discussed at the end of every presentation session. From the feedback submitted by the students it is observed that this course was very much useful and informative for all the students.

3. Workshop/Certificate Course:

The following staff members have attended the Workshop/Certificate Course held during the month of October and November 2020 at National/International Level

S. No.	Name of the Staff	Title of the Event	Level	Duration	Category
1	Dr.S.Agalya	Fiber Optic Communication Technology	NPTEL/ National	Certificate Course	-
2.	Dr. B. Vasudevan	Fiber Optic Communication Technology	NPTEL/	Certificate	-

			National	Course	
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4. Webinars/FDP/STTP:

The following staff members have attended the Webinars/FDP/STTP held during the month of October and November 2020 at National/International Level


S. No.	Name of the Staff	Webinar/ FDP Program	Level	Event Date
1	Dr. I. Johnsi Stella	Recent Trends in Energy Storage conducted by IEEE Madras section & SAC and SNSCT	National	18.11.2020
2.	Dr. P.Ezhilarasi	Pattern Recognition using Neural Networks for Image Processing, VIT University	National	19-23 Oct 2020
3.	Dr. D. Lakshmi	Supervised and Unsupervised Machine Learning using Google Cloud, RMK College of Engineering and Technology	National	02.11.2020 – 07.11.2020
4.	Mr.M.Lingeshwaran	AICTE sponsored online Short Term Training Programme (STTP) on Internet of Things and Artificial Intelligence in Smart Communication and Networking, QIS College of Engineering and Technology	National	02.11.2020 – 07.11.2020
5.	Mr. C. Ashok	AICTE sponsored online Short Term Training Programme (STTP) on Internet of Things and Artificial Intelligence in Smart Communication and Networking, QIS College of Engineering and Technology	National	02.11.2020 – 07.11.2020



5. Publications:

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

S. No.	Name of the Author	Paper Title	Journal/Conference	Publication Details
1.	Kaibalya Kumar Sethi, Vasudevan Boobhalon , Sanjay Kumar Sahu, Gopinath Palai	Realization of novel corona virus kit using silicon based 2D photonic structure via finite difference time domain method, <i>published online November 2020</i>	Microsystem Technologies - Springer	https://doi.org/10.1007/s00542-020-05080-5(0123456789).-
2.	Mr.R.Prabhu	Slum Extraction from High Resolution Satellite Data using Mathematical Morphology based approach	International Journal of Remote Sensing, SCI (Impact Factor: 2.97)	https://doi.org/10.1080/01431161.2020.1834167


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


S.No	Events	remarks
July 2020		
1	<p>FACULTY DEVELOPMENT PROGRAM</p> 	<p>Dr.Jayarama Pradeep</p> <ul style="list-style-type: none"> ➤ Attended the AICTE sponsored 6 days STP on “hybrid and electric vehicle development, integration and challenges” conducted by IQAC and Department of Electrical and electronics engineering of erode sengunthar engineering college, perundurai, erode from 02/11/2020 to 07/11/2020 <p>Dr. N.Chidambararaj</p> <ul style="list-style-type: none"> ➤ Participated AICTE sponsored 6 days Online Short Term Training Program (STTP) on "Machine Learning Approaches for Advanced Industrial Automation” from 16.11.2020 to 21.11.2020 (Phase-1) organized by School of Electrical Sciences, Department of Electronics and Communication Engineering, Hindustan Institute of Technology and Science, Chennai, Tamil Nadu. ➤ Participated AICTE sponsored 6 days Online Short Term Training Program (STTP) on "Power Utilities and Artificial Intelligence- Leveraging the Data” from 23.11.2020 to 28.11.2020 (Phase-1) organized by Department of Electrical and Electronics Engineering, CMR Institute of Technology, Bengaluru, Karnataka, 560037, INDIA. <p>Dr.V.Krishna kumar</p> <ul style="list-style-type: none"> ➤ Participated Six day AICTE sponsored Short Term Training Program (STTP) on "Modeling and Simulation of Renewable Energy Systems using MATLAB” from 02.11.2020 to 07.11.2020 (Phase-2) organized by Department of Electrical and Electronics Engineering, Misrimal Navajee Munoth Jain Engineering College, Chennai, Tamil Nadu. ➤ Participated 6 days AICTE sponsored STTP on "Recent advances and entrepreneurship in green renewable energy technology and smart grids – Series D" at B V Raju Institute of Technology, Narsapur, Telangana, India from 23.11.2020 to 28.11.2020. <p>Mr.R. Elanthirayan</p> <ul style="list-style-type: none"> ➤ participate in AICTE SPONSORED – 2 WEEKS ONLINE FDP PROGRAM ON “HIGH POWER CONVERSION ELECTRONICS FOR GREEN ENERGY BASED SMART GRID" organised by the Department of Electrical & Electronics Engineering, S.A. Engineering College(Autonomous), Tiruvallur Dt, Tamil Nadu ➤ participation in the AICTE sponsored Two weeks online FDP program on Advances in Power Electronics for Smart Grid, Renewable Energy Systems, and Electric Vehicle Technology, conducted by Department of EEE, Agni College of Technology <p>Mr. H Umesh Prabhu</p>


		<ul style="list-style-type: none"> ➤ “End to End processes in Data Analytics” from 2nd Nov to 6th Nov organized by SSN college of Engineering <p>Mr. K.Aravindh</p> <ul style="list-style-type: none"> ➤ Participated AICTE sponsored 6 days Online Short Term Training Program (STTP) on "Power Utilities and Artificial Intelligence- Leveraging the Data" from 23.11.2020 to 28.11.2020 (Phase-1) organized by Department of Electrical and Electronics Engineering, CMR Institute of Technology, Bengaluru, Karnataka, 560037, INDIA. <p>Mr.T.Sriananda Ganesh</p> <ul style="list-style-type: none"> ➤ participate in AICTE SPONSORED – 2 WEEKS ONLINE FDP PROGRAM ON “HIGH POWER CONVERSION ELECTRONICS FOR GREEN ENERGY BASED SMART GRID” organised by the Department of Electrical & Electronics Engineering, S.A. Engineering College(Autonomous), Tiruvallur Dt, Tamil Nadu ➤ participation in the AICTE sponsored Two weeks online FDP program on Advances in Power Electronics for Smart Grid, Renewable Energy Systems, and Electric Vehicle Technology, conducted by Department of EEE, Agni College of Technology <p>Dr.P.Anbarasan</p> <ul style="list-style-type: none"> ➤ Participated Six day AICTE sponsored Short Term Training Program (STTP) on "Modeling and Simulation of Renewable Energy Systems using MATLAB" from 02.11.2020 to 07.11.2020 (Phase-2) organized by Department of Electrical and Electronics Engineering, Misrimal Navajee Munoth Jain Engineering College, Chennai, Tamil Nadu. <p>Dr.Jamna A</p> <ul style="list-style-type: none"> ➤ Participated in the Six day AICTE sponsored Short Term Training Program (STTP) on "Modeling and Simulation of Renewable Energy Systems using MATLAB" from 02.11.2020 to 07.11.2020 (Phase-2) organized by Department of Electrical and Electronics Engineering, Misrimal Navajee Munoth Jain Engineering College, Chennai, Tamil Nadu. 						
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<p>4</p>	 <p>PIC: paper screen shot</p>	<p style="text-align: right;">Criteria 3.3.4 & 3.3.5</p> <p>Our department staff member Dr. Anbarasan.P Published a paper titled “Power quality analysis of three phase voltage source inverter using various SVPWM switching schemes” in International Journal of Engineering Trends and Technology (IJETT-Scopus Indexed) – Special Issues - ICT 2020</p>
<p>5</p>	 <p>PIC: placement technical discussion poster</p>	<p>Our department of EEE organized placement Technical Discussion for our students “Circuit Theory, Electro Magnetic Theory, Power system, Control system, Microprocessor & Microcontroller, Electrical Machines, liner integrated circuit and Embedded System” by our staffs held from 05/11/2020 – 19/11/2020.</p>
<p>6</p>	 <p>PIC: Project objective presentation poster</p>	<p>Our department of EEE organized Project objective presentation for our final years students by our staff members held from 19/11/2020 to 21/11/2020.</p>
<p>7</p>	 <p>PIC: IEEE webinar event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized webinar on the topic “Why IEEE” on account of “IEEE Day Celebration” by Mr. Aravindhan who is currently serving as IEEE Madras Young Professional Chair on “Why IEEE” through which our participants were able to enlighten their minds on importance of IEEE and their benefits on 01/10/2020</p>

8	 <p>PIC: IEEE event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized an Animal Photography contest under IEEE Robotics and Automation Society on account of IEEE Day Celebration for the IEEE students to enlighten their photography and their editing skills from 27th October to 31st October 2020.</p>
9	 <p>PIC: IEEE event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Robo Quiz contest under IEEE Robotics and Automation Society on account of IEEE Day Celebration for the IEEE students to enhance and develop their technical skills related to robotics from 27th October to 31st October 2020. Nearly 25 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>
10	 <p>PIC: IEEE event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Word Riddle contest under Women in Engineering Affinity Group on account of IEEE Day Celebration for the IEEE students to examine their technical knowledge related to Electrical core from 27th October to 31st October 2020. About 15 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>
11	 <p>PIC: IEEE event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Tongue Twister contest under Women in Engineering Affinity Group on account of IEEE Day Celebration for the IEEE students to build their practical knowledge in the field of Matlab Simulation, rapid-fire questions where conducted lively in google meet from 27th October to 31st October 2020. About 18 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>

12	 <p>PIC: IEEE event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Meme contest under Industrial Applications Society on account of IEEE Day Celebration for the IEEE students to unleash their social media poster designing idea for the development of their publicity skills from 20th October 2020 to 25th October 2020. About 30 students participated in it and got benefited. E-Certificates are distributed</p>
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13	 <p>PIC: IEEE event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a CraftyCrew contest under the Industrial Applications Society on account of the IEEE Day Celebration for the IEEE students to enlighten their basic knowledge of IEEE. Questions were posted on google forms from 20th October to 25th October. Nearly 27 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>
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14		<table border="1"> <thead> <tr> <th>Student Name</th> <th>Year</th> <th>From Date - to Date</th> <th>Company Name</th> </tr> </thead> <tbody> <tr> <td>SUGASINI T</td> <td>IV Year</td> <td>10/11/2020</td> <td>Solar Complete Internship</td> </tr> <tr> <td>V.A.AJITH</td> <td>III Year</td> <td>5/10/2020 to 19/10/2020</td> <td>Embedded Systems - Microcontrollers & Embedded C Programming using Microchip Mid-Range Enhanced Microcontrollers using MPLABX IDE" conducted by EMCOG solutions .</td> </tr> </tbody> </table>	Student Name	Year	From Date - to Date	Company Name	SUGASINI T	IV Year	10/11/2020	Solar Complete Internship	V.A.AJITH	III Year	5/10/2020 to 19/10/2020	Embedded Systems - Microcontrollers & Embedded C Programming using Microchip Mid-Range Enhanced Microcontrollers using MPLABX IDE" conducted by EMCOG solutions .
Student Name	Year	From Date - to Date	Company Name											
SUGASINI T	IV Year	10/11/2020	Solar Complete Internship											
V.A.AJITH	III Year	5/10/2020 to 19/10/2020	Embedded Systems - Microcontrollers & Embedded C Programming using Microchip Mid-Range Enhanced Microcontrollers using MPLABX IDE" conducted by EMCOG solutions .											

15	 <p>PIC: PATENT screen short</p>	<p style="text-align: right;">Criteria 3.3.4 & 3.3.5</p> <p>Our department staff members Dr.Jayarama Pradeep, Sridharan P, Velmurugan P, Dr.P.Anbarasan, Dr.V.Krishnakumar, Dr.M.Venmathi, Dr.V.VasanPrabhu R.Elanthirayan and Sriananda Ganesh.T published patent titled “RENEWABLE ROBOTIC AIDED ENERGY SYSTEM FOR FARM USE ” has granted the above patent on 11th November 2020.</p>
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DEPARTMENT OF ELCETRONICS AND INSTRUMENTATION ENGINEERING

Sl. No.	Title	Detail						
1	Webinar/ FDP Attended By Faculty	S.No	Faculty Name	Date	Webinar /Fdp attended/ workshop	Conducting agency	No. of days	
		1.	Mrs.M.Nivethitha Devi	2-6 Nov	FDP on Smart sensors in control system applications	ATAL	5	
		2.	Dr.R. Sivakumar	7-11-20	Se Seminar	Safety Lifecycle for safety instrumented systems, ISA Delhi section	1	
		3.	Mr.D.Sankaran	07-11-2020	Webinar on 'Safety Lifecycle for Safety Instrumented Systems (Process Industries)'	Organized by ISA SOUTH INDIA section	1	
		4.	Mr.R.ELAVARASA N	16-21 NOV	FDP	AICTE STTP	6	
		5.	Mrs.J.Ganasoundhra m	16-21 NOV	FDP	AICTE STTP	6	
		6.	Mr.D.Sankaran	18-11-2020	Online course "Introduction to the Internet of Things and Embedded Systems"	University of California, Irvine and offered through Coursera	4 Weeks	

		7.	Mr.D.Sankaran	21-11-2020	International webinar on Applications of Mathematics in Engineering	Bannari Amman Institute of Technology, Sathyamangalam	1
		8.	Mr.D.Sankaran	21-11-2020	Online course "Interfacing with the Arduino"	University of California, Irvine and offered through Coursera	4 Weeks
		9.	Dr.P.Deepa	23-28 NOV	FDP:	AICTE STTP	6
		10.	Dr.SENTHIL KUMAR B	23-11-2020 to 28-11-2020	FDP-RECENT ADVANCES IN COMPUTER SCIENCE AND ALLIED DOMAINS (RACSAD-II 2020)	School of Engineering and Technology, Sharadha University	6
		11.	Mr.A.Sadeesh Kumar	30-11-2020 to 05-12-2020	Recent trend in EV	Pragati engineering college ,AP	6
		12.	Mr.N.Hariprasad	30-11-2020 to 05-12-2020	Recent trend in EV	Pragati engineering college ,AP	6
2	Publications	S.No	Faculty	Title of the paper	Date	Journal	
		1	Dr. V. RAJINIKANTH	Nov, 2020	Evaluation of brain tumor using brain MRI with modified-moth-lame algorithm and Kapur's thresholding: a study	Springer Journal, Evolutionary Intelligence	

		2	Dr. N. Sri Madhava Raja,	Nov, .2020	Evaluation of brain tumor using brain MRI with modified-moth-lame algorithm and Kapur's thresholding: a study	Springer Journal, Evolutionary Intelligence																				
		3	Dr. V. RAJINIKANTH	Nov, .2020	A Beginner's Guide to Multilevel Image Thresholding	CRC Press																				
		4	Dr. N. Sri Madhava Raja,	Nov, .2020	A Beginner's Guide to Multilevel Image Thresholding	CRC Press																				
3.	Webinar/Workshop/school event Conducted	<table border="1"> <thead> <tr> <th>S.NO</th> <th>Date</th> <th>Name of the Event</th> <th>Targeted Participants</th> <th>Faculty Coordinator</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>07-11-2020</td> <td>Work shop on BAT algorithm based controller design for multiinput multi output systems</td> <td>II, III, IV year students</td> <td>Mrs.M.Angelin Ponrani M Ms.A.Kirthini Godweena</td> </tr> <tr> <td>2.</td> <td>09-13, Nov 2020</td> <td>VAC on industrial automation using PLC and SCADA</td> <td>II year</td> <td>Dr.K.Palani Thanaraj Dr.C.Pandeeswaran</td> </tr> <tr> <td>3.</td> <td>09-13 , Nov 2020</td> <td>VAC on MATLAB and Simulink for Electrical Engineers</td> <td>III & IV year</td> <td>Dr.K.Palani Thanaraj Dr.C.Pandeeswaran</td> </tr> </tbody> </table>					S.NO	Date	Name of the Event	Targeted Participants	Faculty Coordinator	1.	07-11-2020	Work shop on BAT algorithm based controller design for multiinput multi output systems	II, III, IV year students	Mrs.M.Angelin Ponrani M Ms.A.Kirthini Godweena	2.	09-13, Nov 2020	VAC on industrial automation using PLC and SCADA	II year	Dr.K.Palani Thanaraj Dr.C.Pandeeswaran	3.	09-13 , Nov 2020	VAC on MATLAB and Simulink for Electrical Engineers	III & IV year	Dr.K.Palani Thanaraj Dr.C.Pandeeswaran
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3.	09-13 , Nov 2020	VAC on MATLAB and Simulink for Electrical Engineers	III & IV year	Dr.K.Palani Thanaraj Dr.C.Pandeeswaran																						

DEPARTMENT OF INSTRUMENTATION AND CONTROL ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks
1	<p>AICTE training and learning FDP</p> 	<p>11 to 15 November 2019 No of Participant : 1 Venue: Madras institute of Technology 5 days FDP on Artificial Intelligence</p>
2	<p>Short term training</p> 	<p>Date: 4 to 9 November 2019 No. of Participants: 02 Venue: SVCE, Sriperumbudur Objective: Instrumental method of Analysis 6 days STTP</p>

3 AICTE Training and Learning(ATAL) Short Term Course



Date: 15 to 19 November 2019
No. of Participants: 02
Venue: IIITD&M, Kanchipuram
5 days STC on Internet of things: Concepts and Implementation




4

UDEMY online course



4.5 hours of Online course on Wearable Robotics and Exoskeletons(lower limb)
During July to October 2019
No. of Participants: 01

DEPARTMENT OF MATHEMATICS

Events	Remarks				
FDP/Workshop/Conference					
	S. No	Name of the Staff	Topic Name	Date	Organized by
			Topic Name	Date / No of Days	Organized by
	1.	Dr.V. Vallinayagm	Applications of Mathematics in Engineering	21/11/2020	Bannari Amman Institute of Technology
			Recent Developments in Applied Mathematics	27/11/2020	Korambayil Ahamed Haji Memorial Unity Women's College
			Recent Developments in Applied Mathematics	30/11/2020	Kumaraguru College of Liberal Arts and Science
			Applications of Mathematics in Engineering	21/11/2020	Bannari Amman Institute of Technology
	2	Mr. K. S.Sudhakhar	Applications of Mathematics in Engineering	21/11/2020	Bannari Amman Institute of Technology
			Recent Developments in Applied Mathematics	30/11/2020	Kumaraguru College of Liberal Arts and Science
	3	Ms. B. Shoba	Stability Analysis of Dynamical Systems	12/11/2020	Kongu Engineering College
	4	Mr.K. Suresh	Applications of Mathematics in Engineering	21/11/2020	Bannari Amman Institute of Technology
			Recent Developments in Applied Mathematics	27/11/2020	Korambayil Ahamed Haji Memorial Unity Women's College
			Recent Developments in Applied Mathematics	30/11/2020	Kumaraguru College of Liberal Arts and Science
	5	Dr.P. Agilan	Applications of Mathematics in Engineering	21/11/2020	Bannari Amman Institute of Technology
			Recent Developments in Applied Mathematics	27/11/2020	Korambayil Ahamed Haji Memorial Unity Women's College
			Recent Developments in Applied Mathematics	30/11/2020	Kumaraguru College of Liberal Arts and Science
	6	Ms.K. Manasa	Prime Minister's 10 Point Agenda on DRR & U.N.O.Day	24/11/2020	Sree Ayyappa College for Women
			GCM: Migration, Diaspora and Transnationalism	28/11/2020	Migrant Forum in Asia



S. No	Name of the Staff	Topic Name	Date	
1	Ms.K. Manasa	A Global Development Programma on Global Humanity Endeavor in Literature	16/11/2020 to 23/11/2020	Holy Cross Home Science College

Symposium

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Awards/Prize won by students

-

Industrial Projects done by students

-


Publications(only published) details

1. **Dr. P. Agilan**, Dr.John. M. Rassias and **Dr.V. Vallinayagam**, “Stability Analysis in Banach spaces for a General Additive Functional equation”, *Advances in Mathematics: Scientific Journal (Scopus)* , ISSN: 1857-8365, Volume-9 Issue-11, page 9179-9186, November 2020, <https://doi.org/10.37418/amsj.9.11.23>.
2. **Venkat Narayanan Gangatharan**, Suresh Suseela, and Kala Rukhmoni, “On 2–simple graphoidal cover of a graph”, *AIP Conference Proceedings (Scopus)*, ISSN: 1551-7616, page 100010-1 -100010-10, November 2020 <https://doi.org/10.1063/5.0025497>
3. **H.Geetha, K.Sasikala**, P.Venkatesh Babu, T.Kalyani, Suresh Suseela, and Kala Rukhmoni, “Shuffle on Trajectories over Partial Array Language”, *AIP Conference Proceedings (Scopus)*, ISSN: 1551-7616, page 030001-1- 030001-10, November 2020, <https://doi.org/10.1063/5.0026267>
4. Rajendran Senthil kumar,Sethuramalingam Prabhu & **Premalatha Vasudevan**, “Multi-Objective Optimization with Fuzzy Logic Analysis of Confined Flow Characteristics on Circular Cylinder”, *Journal of The Institution of Engineers (India): Series C (Scopus)*, ISSN: 2250-0545, page 1-14, October 2020, <https://doi.org/10.1007/s40032-020-00632-0>

Funded Projects

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DEPARTMENT OF MECHANICAL ENGINEERING



Sl No	Name of the Activity	Remarks
Webinars,FDPs Attended by our Staff Members		
1	Mr.G.Kasirajan 	<ul style="list-style-type: none"> ➤ Attended One Week (30/11/2020 to 04/12/2020) ATAL online FDTP on " 3D Printing & Design" @ KLN COLLEGE OF ENGINEERING
Paper Published		
2	Dr.N.Arunkumar Mrs.N.Prasanna Iyer	<ul style="list-style-type: none"> ➤ Review on Fiber reinforced/modified Bismaleimide resin composites for Aircraft Structure Application NP Iyer, N Arunkumar IOP Conference Series: Materials Science and Engineering 923 (1), 012051

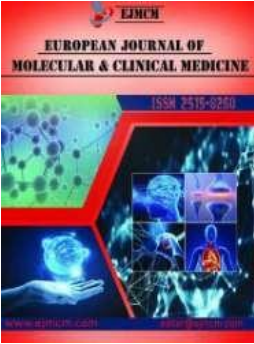

DEPARTMENT OF SCIENCE




Sl. No.	Events	Remarks
1	FDP/Workshop/Conference	<p>AICTE-ATAL FDP course:</p> <ol style="list-style-type: none"> 1. Dr. B. Subash, Mr. S.M. Prakash attended five days AICTE-ATAL online Faculty Development Program on Novel materials conducted by Shri Shankaracharya Technical Campus, Junwani from 02.11.2020 to 06.11.2020. 2. Ms. S. Savitha , Ms. J. Sharmila, Dr. P. Krihsnan attended five days AICTE online Faculty Development Program on Inculcating Universal human values in Technical education conducted by AICTE, New Delhi from 02.11.2020 to 06.11.2020 3. Dr. S. Suresh attended five days AICTE-ATAL online Faculty Development Program on Photonics conducted by Rajarshi Shahu Mahavidyalaya, Latur, Chandranagar from 03.11.2020 to 07.11.2020. 4. Dr. S. Rama, Dr. K. Sathesh Kumar, Dr. B. Subash, Mr. S.M. Prakash attended Ten days AICTE online Faculty Development program on Student Induction conducted by AICTE from 09.11.20 to 13.11.20 and 16.11.20 to 20.11.20 5. Dr. B. Subash , Mr. S.M. Prakash , attended five days AICTE-ATAL online Faculty Development Program on Molecular Manufacturing conducted by Central University of Punjab from 23.11.2020 to 27.11.2020. <hr/> <p>Other programs attended:</p> <ol style="list-style-type: none"> 1. Mr. S.M. Prakash attended a National webinar on “Nonlinear Dynamics an Evolving science” conducted by Kongu Engineering College, Perundhurai, Erode on 02.11.20 2. Mr. S. Kaleel Mohamed Ibrahim attended an International webinar on “Action Research in Education” conducted by Metas Adventist College, Surat on 03.11.20. 3. Mr. S. Kaleel Mohamed Ibrahim , Dr. N.R. Rajagopalan , attended an International webinar on “Next Generation Materials Chemistry” conducted by St. Joseph's College, Trichy from 05.11.20 to 06.11.20 4. Mr. S. Kaleel Mohamed Ibrahim attended an International workshop on “CCE's through Google classroom” conducted by Dr. D. Y. patil Institute of Management studies, Pune on 06.11.20 5. Dr. V. Swarnalatha, Dr. S. Suresh, Dr. K. Jayamoorthy, Dr. S. Rama, Ms. J. Sharmila, Dr. K. Sathesh Kumar, Dr. N.R. Rajagopalan, Mr. S.M. Prakash, Dr. B. Suabsh, Mr. S. Kaleel Mohamed Ibrahim attended National webinar on “Micro and Nano Fabrication and Characterization Techniques” conducted by Kamaraj College, Thoothukudi, on 09.11.20.


		<p>6. Dr. A. Uma Devi, Dr. B. Subash, Mr. S. Kaleel Mohamed Ibrahim attended two days online Faculty Development Program on “Astro Physics” conducted by Jamal Mohamed College ,Tiruchirappalli from 11.11.2020 to 12.11.2020.</p> <p>7. Mr. S.M. Prakash attended an International webinar on “Trends in Convergence Science of Chemistry in Medicine” conducted by Kongu Engineering College, Perundhurai, Erode from 20.11.2020 to 21.11.2020</p>
2	STTP	<p>1. Ms. A. Mahalakshmi, Dr. S. Suresh attended an online short term training program on “Nanomaterials for clean energy and environmental applications” conducted by Dr.Mahalingam College of Engineering and Technology,Pollachi from 02.11.2020 to 07.11.2020</p> <p>2. Mr. S.M. Prakash, Dr. B. Subash, Mr. S. Kaleel Mohamed Ibrahim attended an online short term training program on “Nanomaterials for clean energy and environmental applications-Phase II” conducted by Dr.Mahalingam College of Engineering and Technology,Pollachi from 16.11.2020 to 21.11.2020</p>

DEPARTMENT OF INFORMATION TECHNOLOGY

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution				
1	 <p align="center">Certificate Online STTP on Augmented Reality and Virtual Reality: A Future Technology sponsored by AICTE</p>	Online FDP Attended by Faculty				
		S.No	Title of the topic	Name of the Staff	Conducted By	Date
		1.	Online STTP on Augmented Reality and Virtual Reality: A Future Technology	Dr. V. Muthulakshmi	Department of CSE, Sri Krishna College of Engineering and Technology, Coimbatore sponsored by AICTE	2-11-20 to 7-11-20 (6 days)
		2.	FDP on End-to-End Process on Data Analytics	Dr. M. Esther Hannah	Department of IT, SSN College of Engineering, Chennai in association with IEEE Computer Society of India	2-11-20 to 6-11-20 (5 days)
3.	E-Training Program on Comprehensive Disaster Management	Kripa Sekaran	National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India in collaboration with School of Public Health, SRM Institute of Science and Technology, Chennai.	27-10-20 to 29-10-20. (3 days)		
2	 <p align="center">Certificate received through online Course</p>	Online Course attended by faculty				
		S. No	Course Name	Name of the Staff	Conducted By	Date
1.	IoT Wireless & Cloud Computing Emerging Technologies	Ms. Divya J	Coursera	16-11-2020		

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution
3	 <p data-bbox="321 735 695 865">C. J. Raman et al., published a paper in European Journal of Molecular and Clinical Medicine (Scopus Indexed)</p>	<p data-bbox="1209 342 1461 370" style="text-align: center;"><u>(Staff Publication)</u></p> <p data-bbox="768 378 1948 508">V. Balaji, S. Kanaga Suba Raja , C.J. Raman , S.Priyadarshini, S.Priyanka, S.P. Salai kamalathai, “Real Time Object Detector for Visually Impaired Using Open”, European Journal of Molecular and Clinical Medicine, Publisher: Ubiquity Press, ISSN 2515-8260 Vol. 7, No. 4, pp. 2963- 2971, Nov 2020. (Scopus Indexed)</p> <p data-bbox="747 548 1948 906">Abstract. The goal of the present project is to model an object detector to detect objects for visually impaired people and other commercial purposes by recognizing the objects at a particular distance. Available old techniques for object detection needed large training data it takes more time and its quite complicated and it’s a difficult task. Hence, in this paper, we propose computer vision concept to convert object to text by importing the pre trained dataset model from the caffemodel framework and the texts are further converted into speech. This system supports multiple object detections on a single screen that is it helps in real time object detection. This paper involves the idea and methodology and system architecture to implement the system along with the obtained intermediate results and performance analysis of the tools used in the proposed system. This system can further be implemented in any portable devices for the visually impaired people to detect objects at a particular distance from them.</p>
	 <p data-bbox="321 1300 695 1430">R. Deepa and K. Priyadarshini published a paper in Journal of Green Engineering (Scopus Indexed)</p>	<p data-bbox="758 951 1948 1081">R. Deepa and K. Priyadarshini, “Ontology-based Crop Production using Natural Language Processing with IoT applications using Deep Learning Approach”, Journal of Green Engineering, Alpha Publishers, E-ISSN: 22454586, Print ISSN: 19044720, Vol.10, No. 10, October 2020. (Scopus Indexed)</p> <p data-bbox="747 1089 1948 1487">Abstract: Recent developments in sensor and networking technologies provide various real-world objects connected to from Internet of Things (IoT). The sensors and networks are being used more in the agricultural field. In this paper, Ontology based crop production using Natural Language Processing with IoT applications using Deep Learning Approach (DLA) has been proposed. The deep learning method is to improve the productivity and quality of the crops in the agriculture sector. It collects the weather information like humidity, temperature, precipitation and sunshine and farm status information like disease information, crop status, harvest date, ground temperature and diagnoses crop diseases using ANN for more effective yield production. Ontology is used to classify the agriculture information with a knowledge database. Furthermore, Natural Language Processing is being deployed for communication exchange for farmers could get easier access to information that may be extremely critical of their activities. The experimental results show that agricultural productivity is more and enhance crop quality.</p>

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution
	 <p data-bbox="317 727 695 857">C. J. Raman & N. Gobalakrishnan., published a Book Chapter on Cyber Forensics</p>	<p data-bbox="753 310 1955 407">R. Jaichandran, , C. J. Raman, N. Gobalakrishnan, K. Pradeep, “Cyber Forensics”, Emerging Technologies in Engineering Research, Technical Research Publications, ISBN: 978-93-5419-211-1 (Online), Chapter – 12, pp. 142-150, Oct 2020 (Book Chapter)</p> <p data-bbox="753 456 1955 850">Abstract: This chapter depicts cyber forensics, otherwise called computer forensics, which is a development of advanced forensic knowledge, identifying with proof identification in computers as well as computerized stockpiling medium. The motivation behind cyber forensics is the forensically-solid examination of computerized media by the goal to: distinguish, protect, recoup, investigate, present realities, and conclusions; concerning the sophisticated data. In spite of the fact that it is commonly aligned by the examination of cyber-based violations, computer forensics may likewise be utilized in general procedures. Proof created from cyber forensic examination is ordinarily exposed to comparative systems and proceeds as beneficial advanced proof. With these headways, it was wanted that cyber forensics be to secure clients as well as remain resident driven. This chapter demonstrates that there is extra exploration expected to comprehend the ramifications of cyber forensic examination to get better location of cyber violations. Keywords: Cyber Forensics, Computer Forensics, EnCase and Servlet.</p>
4	  <p data-bbox="281 1425 653 1458">Virtual Hackathon Participation</p>	<p data-bbox="1094 906 1612 938" style="text-align: center;">Staff Participation- Gov-Tech-Thon 2020</p> <p data-bbox="821 943 1982 1084">The 36-hour, the pan-India virtual hackathon was organised by global technical professional organisation IEEE, National Informatics Centre (NIC) and Cloud major Oracle, under the aegis of the Ministry of Electronics and IT.</p> <p data-bbox="821 1105 1066 1138">Staff Participated</p> <ol data-bbox="821 1159 1192 1409" style="list-style-type: none"> 1. S. Sumathi – Team Leader 2. G. Lathaselvi 3. M. Esther Hannah 4. L. Sherly Puspha Annabel 5. R. Deepa <p data-bbox="821 1435 1562 1468">Topic: Seed Certification using Blockchain technology</p>

Sl. No.	Photographs Captured During Events	Corresponding remarks in regarding the status of activity execution						
5	 <p data-bbox="432 683 646 711">Online Certificate</p>	<p data-bbox="1209 342 1566 370" style="text-align: center;">Student Online Certification</p> <p data-bbox="795 407 1917 435">5 students have received online certifications from some of the reputed online course platforms.</p> <table border="1" data-bbox="959 475 1747 557"> <thead> <tr> <th data-bbox="959 475 1094 516">S.No</th> <th data-bbox="1094 475 1446 516">Course Platform</th> <th data-bbox="1446 475 1747 516">No of certifications</th> </tr> </thead> <tbody> <tr> <td data-bbox="959 516 1094 557">1</td> <td data-bbox="1094 516 1446 557">Coursera</td> <td data-bbox="1446 516 1747 557">5</td> </tr> </tbody> </table>	S.No	Course Platform	No of certifications	1	Coursera	5
S.No	Course Platform	No of certifications						
1	Coursera	5						