




St. Joseph's College of Engineering

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



DECEMBER 2020

DEPARTMENT OF BIOTECHNOLOGY

S.No.	Title of the Events and Photographs	Details of the Event
1.	<p style="text-align: center;">STAFF CONFERENCE PRESENTATION</p> <div style="text-align: center;">  <p><i>Ms. Sangeetha copy of certificate</i></p> </div>	<ul style="list-style-type: none"> • Ms. B. Sangeetha has attended the one week TEQIP - II sponsored STC on the topic "Advanced Nanostructured Materials for Sustainable Energy and Environmental Remediation - Tiny Particles, Big Effects" organized by the department of chemical engineering and department of chemistry, Malaviya National Institute of Technology, Jaipur, Rajasthan between 18th - 22nd December, 2020 • Ms. B. Sangeetha has attended TEQIP III sponsored E-Training on System Analysis for Biofuels and Bioproducts in the department of Biosciences and Biomedical Engineering from 7th to 12th Dec 2020 at IIT Indore



Ms. Sangeetha copy of certificate



Dr. G. Baskar copy of certificate

- **Dr. G. Baskar** has attended TEQIP III sponsored E-Training on System Analysis for Biofuels and Bioproducts in the department of Biosciences and Biomedical Engineering from 7th to 12th Dec 2020 at IIT Indore
- **Ms. B. Sangeetha** has attended online STTP on Green Technologies to treat solid wastes and waste waters from Industries between 7th to 12th Dec 2020
- **Ms. S. Geerthika** has successfully completed online course on cell culture technologies organized by NPTEL and received Elite award.
- **Ms. S. Geerthika** has successfully completed online course on Biomedical Nanotechnology organized by NPTEL and received Elite award.

	 <p style="text-align: center;"><i>Ms. Geerthika copy of certificate</i></p>	
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DEPARTMENT OF CHEMICAL ENGINEERING

Sl. No.	Photographs Captured During Events 1.	Corresponding remarks (Minimum 300 words)
1	Publication	<ul style="list-style-type: none"> • Ms Sivaranjane R Published a paper on A review on cleaner approach for effective separation of toxic pollutants from wastewater using carbon Sphere's as adsorbent: Preparation, activation and applications. Journal of Cleaner Production 291:125911. https://doi.org/10.1016/j.jclepro.2021.125911 • Ms B Senthil Rathi published a paper on A review on effective removal of emerging contaminants from aquatic systems: Current trends and scope for further research. Journal of Hazardous Materials. https://doi.org/10.1016/j.jhazmat.2020.124413 • Mr Vinod Kumar published a paper on Novel Integrated Ultrafiltration and Reverse Osmosis System in High Quality Drinking water Production. ORIENTAL JOURNAL OF CHEMISTRY

DEPARTMENT OF CIVIL ENGINEERING

Sl. No.	Photographs Captured During Events (Briefs About the Photographs)	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	FDP/Workshop/Conference attended	<ul style="list-style-type: none">● S.Banupriya , P.Sri Balaji and R.Ruthra have attended the A Five-day Faculty Development Program on “Ground Improvement Techniques” – 26.12.2020 to 31.12.2020 organized by Sri Sivasubramaniya Nadar College of Engineering Kalavakkam, Chennai, <p>WEBINAR</p> <ul style="list-style-type: none">● S.Banupriya and S.P.Senthil Kumar have attended the webinar titled “Application of NDT in Structure Evaluation” on 04.12.2020 organized by Ultra Tech Cement Limited.● S.P.Senthil Kumar has attended the webinar titled “Durability of Structural Concrete” on 25.12.2020 organized by Ultra Tech Cement Limited.

DEPARTMENT OF ELECTRICAL AND COMMUNICATION ENGINEERING

1. Workshop/Certificate Course:

The following staff members have attended the Workshop/Certificate Course held during 2020 at National/International Level

S. No.	Name of the Staff	Title of the Event/Course	Organization	Duration	Date of Completion
1	Dr. A. Swarnalatha	INTRODUCTION TO MACHINE LEARNING	GLOBAL AI HUB	5 days	4.12.2020
2.	Dr. Shirley selvan	8051 Microcontroller and its Applications	NITTR, Chennai	5 days	11.12.2020
3.	Mrs. E. Malarvizhi	C Programming and Assembly Language	NPTEL		December 2020

2. Webinars/FDP/STTP:

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

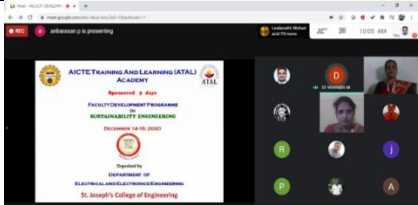

S. No.	Name of the Staff	Webinar/ FDP Program	Level	Event Date
1	Dr. I. Johnsi Stella	Insight of Digital and Analog IC Design: Industry and Research Perspective,SRM Institute of Science and Technology, SRM Nagar, Kattankulathur	National	14.12.2020 to 19.12.2020 (6days)
2.	Dr. Shirley Selvan	Digitization in Industrial Automation,KCT,CBE	National	30.11.2020 to 4.12.2020(6 days)
3.	Mrs.E. Malarvizhi	ATAL FDP "LAB ON CHIP"	National	

3. Publications:

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

S. No.	Name of the Author	Paper Title	Journal/Conference	Publication Details
1.	Dr. Shirley Selvan	A survey on Methods of Hand Gestures Recognition	VICFCNT 2020	Nov 6, 2020, SPRINGER()
2.	Dr. D. Lakshmi	Multi Class SVM Prediction Model for Lung Cancer Diagnosis	IVC-AISC 2020	Scopus Indexed
3.	Dr. J. Sivakumar	Multi Class SVM Prediction Model for Lung Cancer Diagnosis	IVC-AISC 2020	Scopus Indexed

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

S.No	Events	remarks
July 2020		
1	 <p style="text-align: center;">PIC: screenshots of the inaugural function</p>	Our department of EEE organized 5-Days AICTE sponsored FDP “SUSTAINABILITY ENGINEERING” was conducted from 14th to 18th December 2020 in which around 140 participants from different parts of the country participated.
2		<p>Dr. N.Chidambararaj</p> <ul style="list-style-type: none"> ➤ Participated in the one day webinar on “Stress Management at Workplace” organized by Department of Electrical and Electronics Engineering, SJB Institute of Technology, Bengaluru on 26.12.2020. <p>Mr. K.Aravindhan</p> <ul style="list-style-type: none"> ➤ Participated in the one day webinar on “Stress Management at Workplace” organized by Department of Electrical and Electronics Engineering, SJB Institute of Technology, Bengaluru on 26.12.2020.
3	<p style="text-align: center;">Fuzzy-C Means Clustering Based ANFIS wind speed forecast</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>M Ramesh Babu, Professor Dept of Electrical and Electronics Engineering St Joseph's College of Engg Chennai, India rameshbabum@sjosephs.ac.in</p> </div> <div style="width: 30%;"> <p>Alhaj Q H Badar Assistant Professor Dept of Electrical and Electronics Engineering IIT, (Warangal) Telangana, India alhadadar@iitw.ac.in</p> </div> <div style="width: 30%;"> <p>S Balasubramani Research Scholar Dept of Electrical and Electronics Engineering St Joseph's College of Engg Chennai, India sbhsub2k@gmail.com</p> </div> </div> <p><i>Abstract - Wind Energy is now becoming a widely used renewable source of energy for the reconstructed Power system operations around the world through Electric utilities. Unpredictability and instability of wind speed and wind power are the key problems with wind power generation. For solving the underlying problems, wind speed forecasting is essential. A lot of investigation has been going on over the last few years to predict wind speed with reduced prediction errors. This article introduces a new clustering approach based on a wind speed prediction based on the Adaptive-Neuro Fuzzy Inference Scheme (ANFIS). For the forecast, the original wind speed data for a month is used. The clustering is done with Fuzzy-C Means (FCM) algorithm. We like to specify that, we have taken user modified IEEE-30 Bus system for validation. The proposed FCM- ANFIS method proved to be better by comparing the Root Mean Square Error (RMSE) with the existing methods.</i></p> <p style="text-align: center;">shot</p> <p style="text-align: right;">PIC: paper screen</p>	<p style="text-align: right;">Criteria 3.3.4 & 3.3.5</p> <p>Our department staff member Dr. M.Ramesh Babu Presented a paper titled “Fuzzy-C Means Clustering Based ANFIS wind speed forecast” in the National Power System Conference (NPSC) conducted by IIT Gandhinagar, during DEC 17 - 19, 2020.</p>

4

PIC: paper screen shot

Criteria 3.3.4 & 3.3.5

Our department staff member Mr. Sriamanda Ganesh T published the paper titled Image Captioning using Machine Learning, International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume: 02/ Issue: 08 e- ISSN: 2582- 5208, August 2020.








Student Name	Date	Company Name	Pay Packa
HerenaJoshika A S	Dec 13 - Jan 13	Hamaripahchan NGO	NA
SUGASINI T	10/11/2020-Dec 30	solar complete internship	1000
Yogesh S N	10/08/2020 - till date	Webfosys Pvt Ltd	Nil

6

PIC: mini project poster

Our department of EEE organized mini project for our 3rd year students by our staff in charges during 07/12/2020 to 11/12/2020 at 6pm.

7	 <p>PIC: anna university Rank holder poster</p>	<p>Our department of EEE congratulating anna university rank holders of our department students 2016-2020 batch.</p>
8	 <p>PIC: award received by Dr.Jayarama Pradeep, HOD/EEE</p>	<p>Our department of EEE got recognition award to IEEE student branch of St.Joseph's college of engineering in appreciation to IEEE student branch activities during the year 2020</p>
9	 <p>PIC: ADZAP event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized an ADZAP contest under IEEE Power Electronics Society for the IEEE students to mainly to improve their marketing skills, which would come in handy when the students enter an industry, students were made to upload their presentation video in the google drive on 17th December 2020. Nearly 25 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>

10	 <p>PIC: Talk fest event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Talk Fest contest under IEEE Women in Engineering Affinity Group for the IEEE students to expose and develop their public speaking skills, random topics was given on spot, participants were made to talk on a specific topic which was conducted lively in google meet 13th December 2020. About 25 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>										
11	 <p>PIC: Mini Hackathon event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Mini Hackathon contest under IEEE Industrial Applications Society for the IEEE students, about 30 teams displayed their demo projects and exposed their talents, it was conducted lively in Zoom 11th December 2020. Nearly 60 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>										
12	 <p>PIC: word play event poster</p>	<p>Our department IEEE SBC - St. Joseph's College of Engineering organized a Word Play contest under IEEE Robotics and Automation Society for the IEEE students to build their practical knowledge in the field of Robotics, interactive rapid questions were conducted lively in google meet on 15th December 2020. About 30 students participated in it and got benefited. E-Certificates are distributed to the winners.</p>										
13	<p>Placement Details for month December</p>	<table border="1"> <thead> <tr> <th data-bbox="989 1146 1478 1182">Name of the Student</th> <th data-bbox="1478 1146 1908 1182">Company Placed</th> </tr> </thead> <tbody> <tr> <td data-bbox="989 1182 1478 1218">ABIGAIL JENIS DJ</td> <td data-bbox="1478 1182 1908 1424" rowspan="7"> <p style="text-align: center;">COGNIZANT</p>  </td> </tr> <tr> <td data-bbox="989 1218 1478 1253">BALAKRISHNAN V</td> </tr> <tr> <td data-bbox="989 1253 1478 1289">BAVANI PRUTHIVIRAJ</td> </tr> <tr> <td data-bbox="989 1289 1478 1325">CELESTINE RAJ RAJA</td> </tr> <tr> <td data-bbox="989 1325 1478 1360">DEEPA JAGADEESWARAN</td> </tr> <tr> <td data-bbox="989 1360 1478 1396">HARIHARAN PRABAKARAN</td> </tr> <tr> <td data-bbox="989 1396 1478 1424">JAFFREY KIRAN SUSAI LOUIS</td> </tr> </tbody> </table>	Name of the Student	Company Placed	ABIGAIL JENIS DJ	<p style="text-align: center;">COGNIZANT</p> 	BALAKRISHNAN V	BAVANI PRUTHIVIRAJ	CELESTINE RAJ RAJA	DEEPA JAGADEESWARAN	HARIHARAN PRABAKARAN	JAFFREY KIRAN SUSAI LOUIS
Name of the Student	Company Placed											
ABIGAIL JENIS DJ	<p style="text-align: center;">COGNIZANT</p> 											
BALAKRISHNAN V												
BAVANI PRUTHIVIRAJ												
CELESTINE RAJ RAJA												
DEEPA JAGADEESWARAN												
HARIHARAN PRABAKARAN												
JAFFREY KIRAN SUSAI LOUIS												

	JAYA VIGNESHWAR G		
	JEEVAN PRASAD PALANICHAMY		
	JIM DAVID WILSON ANANDARAJ		
	NANDHAKUMAR ANBUSELVAN		
	NIRMITHA A J		
	POOJA HARIBABU		
	RAKSITHA P		
	RENO JOSEPH S		
	SHIVANI D G		
	SURENDAR M		
	SWATHISH G		
	ABINSH AJITHKUMAR		
	ARUL MANIVANNAN		
	CELESTINE RAJ RAJA		
	DEEPA JAGADEESWARAN		
	DHINI SHEKINAH ALBERT		
	HARIHARAN R		
	NIRMITHA A J		
	PAVITHRA KALAIVANAN		
	POOJA HARIBABU		
	SHIVANI A		
	SURENDAR M		
	ROHITHKUMAR RAVI		CENTRIQUE
	SRI HARI SAMBAMOORTHY		SRUSHTY
	DHARANI DEVENDRAN		
	GAYATHRI DEVI CHANDRAN		
	SANTHIYA MATESHWARAN		
	PRIYADARSHNI K		
	GAYATHRI S		FULL CREATIVE
	ARUL MANIVANNAN		FULL
	BALAKRISHNAN V		
	DHARANI DEVENDRAN		TCS

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CENTRIQUE
SRUSHTY

MINDTREE

FULL CREATIVE
FULL

TCS

TCS
TALENT ACQUISITION
INDIA

		GAYATHRI DEVI CHANDRAN	
		NITHISHKUMAR RAVI	
		SIVAPRIYA B	
14	<p>FACULTY DEVELOPMENT PROGRAM</p> 	<p>Dr. M.Ramesh Babu</p> <ul style="list-style-type: none"> ➤ Attended AICTE Sponsored Six days Online Short Term Training Program on “Research Challenges and Applications of Internet of Things (IoT) in Smart Agriculture” organized by Department of Electronics & Communication Engineering, Kongunadu College of Engineering and Technology, Trichy from 30.11.2020 to 05.12.2020. ➤ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering. <p>Dr. N.Chidambararaj</p> <ul style="list-style-type: none"> ➤ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering. <p>Ms.R.G.Nirmala</p> <ul style="list-style-type: none"> ➤ participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering. <p>Mr.R. Elanthirayan</p> <ul style="list-style-type: none"> ➤ participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering. <p>Mr. N.Jeyaprakash</p> <ul style="list-style-type: none"> ➤ participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering. <p>Mr. R.Sreekanth</p> <ul style="list-style-type: none"> ➤ participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability 	

		<p>Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering.</p> <p>Mr. K.Aravindh</p> <ul style="list-style-type: none"> ➤ participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering. <p>Mr.T.Sriananda Ganesh</p> <ul style="list-style-type: none"> ➤ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2020-12-7 to 2020-12-11 at Government College of Technology, Coimbatore. ➤ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering, Chennai. <p>Ms.S.P.Vedavalli</p> <ul style="list-style-type: none"> ➤ Attended AICTE Sponsored two weeks Online faculty development program on “Electric vehicle components, Technologies, challenges and future development” organized by Department of Electrical & Electronics Engineering, B V Raju Institute of Technology from 07.12.2020 to 19.12.2020. ➤ Attended AICTE Sponsored Online short term training programme on “Modeling and simulation Renewable energy systems using Matlab” organized by Department of Electrical & Electronics Engineering, MNM Jain college of Engineering from 02.11.2020 to 7.11.2020. <p>Dr.P.Anbarasan</p> <ul style="list-style-type: none"> ➤ Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sustainability Engineering" from 2020-12-14 to 2020-12-18 at St. Joseph's College of Engineering.
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DEPARTMENT OF INSTRUMENTATION AND CONTROLS ENGINEERING

Sl. No.	Photographs Captured During Events	Corresponding remarks (Minimum 300 words) in regarding the status of activity execution stating
1.	<p style="text-align: center;">FDP</p> 	<p>Date: 11 to 15 December, 2020</p> <p>TOPIC: Advances in power electronics for hybrid electric vehicle</p> <p>Organizer: NIT Andhra Pradesh No. of Participant: 01</p>
2.	<p style="text-align: center;">Webinar</p>	<p>Date: 19 December, 2020</p> <p>TOPIC: 5G network and its real time applications in India</p> <p>Organizer: Madanapalle institute of technology and science</p> <p>No. of Participant: 01</p>



3.

FDP



Date: 14 to 19 December , 2020

TOPIC: Cyber Criminology and Network Security

Organizer: Gopalan College of Engineering and Management

No. of Participant:01

4.

Course





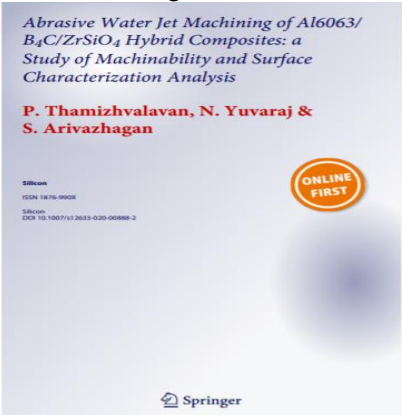
Date: November 23, 2020 to December 22, 2020

TOPIC: MATLAB Simulink
Organizer: Pantech solutions


No. of Participant: 02

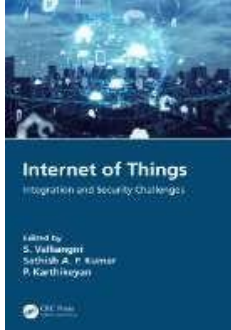
DEPARTMENT OF MECHANICAL ENGINEERING

Sl No	Name of the Activity	Remarks
Webinars,FDPs Attended by our Staff Members		
1	Mrs.N.Prasanna Iyer	"AICTE Sponsored Six days Online STTP (Phase-III) on "Manufacturing Applications of Micromachining with Emphasis on Make in India from 14 Dec to 19 Dec 2020.
2	Mr.K.Pravin Kumar	Online Webinar on “Biodegradable Biomaterials” Organized by Indian welding society student forum,Ramco Institute of Technology on 30.12.2020
		
3		Participated in FDP on ME8493-Thermal Engineering-I organized by Arassu engineering College during 14 th to 19 th Decemeber 2020.
Paper Published		

2	<p>Dr.S.Arivazhagan</p> 	<p>➤ P. Thamizhvalavan, N. Yuvaraj & S. Arivazhagan (2021), “Abrasive Water Jet Machining of Al6063/ B4C/ZrSiO4 Hybrid Composites: a Study of Machinability and Surface Characterization Analysis” Silicon, Springer online edition, Published 06 Jan 2021 DOI 10.1007/s12633-020-00888-2</p>
<p>➤ NPTEL COURSES COMPLETED</p>		
1	Dr.G.M. Lionus Leo	<p>➤ Completed course on “Laws of Thermodynamics “ and Secured a consolidated score of 91%</p>
2	Mr. T. Balasubramanian	<p>➤ Completed course on “Advanced machining Process” and secured a consolidated score of 58%</p>
3	Mr. M. Ganesh	<p>➤ Completed course on “Advanced machining Process” and secured a consolidated score of 68%</p>
4	Mr. A. Ruskin Bruce	<p>➤ Completed course on “Advanced machining Process” and secured a consolidated score of 60%</p>
<p>Conference attended and paper Published</p>		
1	<p>Dr.N.Arunkumar Mr.M.Subramanian Mr.T.Balasubramanian Mr.M.Ganesh Mr.S. Aswin(IV Mech A)</p>	<p>➤ Presented paper on Experimental studies on the wear and mechanical properties of AL7075-B4c-Al2O3 Composite in International Conference on Recent Innovations in Engineering and Technology (ICRIET 2020)</p>

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 Online FDP on Cyber Security Infrastructure Configuration</p>	Online FDP Attended by Faculty <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 8%;">S.No</th> <th style="width: 32%;">Title of the topic</th> <th style="width: 20%;">Name of the Staff</th> <th style="width: 20%;">Conducted By</th> <th style="width: 20%;">Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Cyber Security Infrastructure Configuration</td> <td>M. Janani</td> <td>Palo Alto Networks, Cyber Security Academy</td> <td>23/11/20 to 1/12/20 (6 days)</td> </tr> </tbody> </table>				S.No	Title of the topic	Name of the Staff	Conducted By	Date	1	Cyber Security Infrastructure Configuration	M. Janani	Palo Alto Networks, Cyber Security Academy	23/11/20 to 1/12/20 (6 days)
S.No	Title of the topic	Name of the Staff	Conducted By	Date											
1	Cyber Security Infrastructure Configuration	M. Janani	Palo Alto Networks, Cyber Security Academy	23/11/20 to 1/12/20 (6 days)											



L. Sherly Puspha Annabel, Kripa Sekaran., published a **Book Chapter** in Internet of Things: Integration and Security Challenges

(Staff Publication)

L. Sherly Puspha Annabel, Kripa Sekaran, “Blockchain-Based Security for IoT in Cloud – a Review”, Internet of Things: Integration and Security Challenges, CRC Press, pp.53-70, ISBN: 978-0-367- 89387-3, Dec 2020 (**Book Chapter**).

Abstract: The contemporary and ever-growing internet combines objects known as Things, which comprise features of actuating, networking, and sensing capabilities with dynamic control services. Such Internet of Things (IoT) technologically enabled devices are inevitable for today's modern society and can be personalized in homes, public transport, and vehicles. It is capable of addressing challenges in various application domains, including e-health, manufacturing, and infrastructure management systems. Also, the integration of cloud computing with IoT has developed the two very closely allied internet technologies with the former benefits, the latter a platform for success by providing third party access to the infrastructure. As IoT grows speedily due to these communication and computational technologies, IoT security is essential to protect hardware and networks in IoT systems. IoT technology has various security challenges in the form of trust management issues and coordinated work of systems. Blockchain (BC) technology addresses privacy and security issues in IoT and provides tamper-proof data, robustness, high reliability, and distributed file system. Thus, the objective of this chapter is to have a broader view of security issues in IoT when applied to multiple domains.

3






P. Kalaivani and S. Selvi presented a paper in 2nd International Conference on Machine Learning, Advances in Computing, Renewable Energy



(Staff Publication)

P. Kalaivani, S. Selvi, “Measuring the Performance of Machine Learning Approach to Analyse Hybrid Model for E-Commerce Application”, 2nd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication, Krishna Engineering College, Ghaziabad, 17-18th Dec 2020. **(Publisher: Springer)**


Abstract: Sentiment classification focuses on analyzing the user review extracted online social media, which helps in understanding the public opinion about the product and utilizing it for future enhancement of business. Bagging and Adaboost are the techniques used in ensemble learning to learn the sentiment classifier to get better classification accuracy, using SVM, NB as a core learner for different models of attribute vectors. The bagging algorithm is the simplest technique for creating a set of models for a learning pattern gives weighted prediction and each classifier counts the majority vote. The classification results of ensemble approach are compared with Neural Network learning for classification of movie reviews. Among the ensemble methods, AdaBoost with base learner SVM outperforms in classifying attribute vectors for model m-iii. Backpropagation algorithm is used to improve classification accuracy in the Neural Network learning and Information Gain (IG) and Principal Component Analysis (PCA) are used in sentiment classification to reduce the feature length and training time. Among IG and PCA methods, IG performs better than PCA. Among all the methods feature selection IG, ensemble learning, Adaboost with the base learner, SVM performs better.

DEPARTMENT OF MBA

S.No	Events	Remarks
December 2020		
1	 <p style="text-align: center;">BOOK CHAPTER</p>	<p>Dr.K.Jawahar Rani</p> <ul style="list-style-type: none"> ➤ Published book chapter in the book titled "Sufferings of Human Resource during COVID 19", Taran Publication, Bearing ISBN 978-81-947336-1-4, title of the article, "Impact of wage recession on employee loyalty during COVID 19", 27/12/2020- Page:15-28
2		<p>Dr .S.P.Karuppiah</p> <ul style="list-style-type: none"> ➤ Webinar on “How to write Resume, Curriculum vitae and bio-data ”, Conducted by Research Circle on 20-12-2020
	Student Achievements	
	 <p style="text-align: center;">BOOK CHAPTER</p>	<ul style="list-style-type: none"> ➤ Ms. Priya Jenifer, II year MBA, Published book chapter in the book titled "Sufferings of Human Resource during COVID 19", Taran

		<p>Publication, title of the article, "Impact of wage recession on employee loyalty during COVID 19", 27/12/2020</p>
		<ul style="list-style-type: none"> ➤ Ms. Priya Jennifer of II year MBA, presented their paper titled, "Strategies for empowerment of India Post COVID", in Madras Management Association (MMA) student convention, Chennai 8/12/2020.
		<ul style="list-style-type: none"> ➤ Ms. Priya Jenifer, II year MBA, won runner up position, in Online Intercollegiate Summer Internship Project contest 2020, "THE INTERN CHALLENGE", organized by Modern College of Engineering, Pune, Maharashtra on 12/12/2020.

DEPARTMENT OF MATHEMATICS AND ENGLISH

Events	Remarks					
	S. No	Name of the Staff	Topic Name	Date	Organized by	
	1	Dr.V.Vallinayagam	Srinivasa Ramanujan, His Life and His Work	16-12-2020	KPR Institute of Engineering and Technology	
			International Virtual Conference on Bridging Innovative Trends in Mathematics, Engineering & Technology	18-12-2020 to 19-12-2020	Bannari Amman Institute of Technology	
	2	Mr. K. Sudhakar	Srinivasa Ramanujan, His Life and His Work	16-12-2020	KPR Institute of Engineering and Technology	
	3	Dr. P. Agilan	Srinivasa Ramanujan, His Life and His Work	16-12-2020	KPR Institute of Engineering and Technology	
			International Virtual Conference on Bridging Innovative Trends in Mathematics, Engineering & Technology	18-12-2020 to 19-12-2020	Bannari Amman Institute of Technology	
			Latex Programme	22-12-2020	Queens College of Arts and Science For Women	
	4	Ms. K. Manasa	Sustainable Development Goal	19-12-2020	Disaster Management and Rehabilitation Trust	
			Natural Dyes	29-12-2020	Arasu Engineering College	
	5	Ms.A.Sathiya Jothi	Three day International webinar on " Mental Well being of Teachers"	23-12-2020 to 25-12-2020	TNTEU, CHENNAJU	
Symposium	-					
Awards/Prize won by students	S. No	Name of the Student	Branch	Event	Organized by	Prize
	1	Ms. Anushruthika E	I CSE A	Paper Presentation	SMK Fomra Institute of Technology 22-12-2020	I
	2	Ms. G. Ishita	I CSE A	Poster Presentation		III
	3	Mr. M. Harene	I CSE A			

DEPARTMENT OF SCIENCE

Sl. No.	Events	Remarks
3	FDP/Workshop/Conference	<p>AICTE-ATAL FDP course:</p> <p>1. Ms. A. Arulmozhi attended five days AICTE-ATAL online Faculty Development Program on Sustainable Engineering conducted by St. Joseph's College Of Engineering, Chennai – 119 from 14.12.2020 to 18.12.2020.</p> <p>Other programs attended:</p> <p>1. Dr. B. Subash, Mr. S.M. Prakash attended “International Virtual Conference on Advanced Materials for Energy and Environmental Applications” conducted by Bharath Institute of Higher Education and Research, Chennai from 03.12.20 to 04.12.20</p> <p>2. Dr. N. Punitha, Dr. S. Suresh, Mr. S. Kaleel Mohamed Ibrahim, Dr. P. Krishnan, Dr. S. Rama attended a National workshop on “An Introductory Workshop On Virtual Physics Lab” conducted by The National Institute Of Engineering- Mysuru on 08.12.20</p> <p>3. Dr. V.N.Nandini Devi, Dr. K. Jayamoorthy, Dr. B. Subash, Mr. S.M. Prakash attended an International webinar on “Polymer electrolyte membrane fuel cells” conducted by Vinayaga Mission's Kirupananda Variar Engineering College, Salem on 21.12.20</p> <p>4. Dr. S. Suresh, Mr. S. Kaleel Mohamed Ibrahim, Dr. K. Sathesh Kumar, Ms. J. Sharmila attended a National webinar on “Applications of DFT to calculations of phase diagram, diffusion coefficient and phase field simulation” conducted by Bharath Institute of Science and Technology, Selaiyur, Chennai on 24.12.20</p> <p>5. Ms. J. Sharmila attended an International virtual conference on “Recent Advances in Biochemical and Material Sciences 2020” conducted by Annai Violet Arts and Science College, Ambattur, Chennai from 24.12.20 to 25.12.20</p> <p>6. Mr. S. Kaleel Mohamed Ibrahim, Dr. P. Krishnan attended an International webinar on “Novel Materials and Characterization for Technological Applications” conducted</p>

		<p>by Pithapur Rajah's Govt College, Kakinada on 27.12.20</p> <p>7. Dr. N. Punitha, Dr. K. Sathesh Kumar attended a National webinar on “Nanomaterials And Its Applications” conducted by Mohamed Sathak A. J College Of Engineering, Chennai on 30.12.20</p> <p>8. Dr. V.N.Nandini Devi, Mr. S. Kaleel Mohamed Ibrahim, Dr. P. Krishnan, Dr. G. Murugan, Dr. P. Saravanan, Dr. A. Uma Devi, Dr. N.R. Rajagopalan, Ms. J. Sharmila, Ms. S. Savitha, Dr. K. Jayamoorthy, Dr. B. Subash, Mr. S.M. Prakash attended an International webinar on “Porous Solid zeolites in Petroleum refining and Biomedical applications” conducted by Vinayaga Mission's Kirupananda Variar Engineering College, Salem on 31.12.20</p>
5	STTP	<p>1. Dr. P. Krishnan attended six days AICTE sponsored Quality Improvement Programme (QIP) short-term course on "Recent Advances in Biomedical Engineering" conducted by Indian Institute of Technology, Roorkee from 30.11.2020 to 04.12.2020.</p>
10	Publications(only published) details	<p>1. K. Jayamoorthy, Photodynamic cancer therapy: Role of Ag and Au based hybrid nano photosensitizers, Journal of Biomolecular Structure & Dynamics https://doi.org/10.1080/07391102.2020.1858965 December 2020</p>