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NEWS LETTER



AMRITA
SCHOOL OF ENGINEERING
Bengaluru

Papers Presented

INTERNATIONAL CONFERENCE			
NAME	TITLE	DATE	NAME OF THE CONFERENCE
Presented By: Tina Babu Author(s): Tina Babu Tripty Singh Deepa Gupta Shahin Hameed	“Cancer Screening On Indian Colon Biopsy Images Using Texture and Morphological Features”	3 rd - 5 th April 2018	7 th International Conference on Communication and Signal Processing, Adhiparasakthi Engineering College, Melmaruvathur
Presented By: Anjali T. Author(s): Anjali T. Rakesh N. Akshay Krishna M. P.	“A Novel based Decision tree for Content Based Image Retrieval: An Optimal Classification Approach”		
Presented By: B. Akhila Manogna Author(s): B. Akhila Manogna Purushotham Raju N. Anubhav Kumar Siridhatri K. Prabhudeva Kavitha C. R. L. M. Frey	“Challenges and possibilities for sustainable income generation through efficient use of available resources in a village in Odisha, India”	5 th April 2018	2018 IEEE Technological Innovations in ICT for Agriculture and Rural Development (TIAR), Easwari Engineering College, Ramapuram, Chennai
Presented By: A. V. Bhanu Prakash Author(s): M. Lakshmi Pavani M. S. Shwetha Koushik A. V. Bhanu Prakash Amudha J. C. Jyotsna	“Navigation Through Eye-Tracking For Human Computer Interface”	7 th April 2018	3 rd International Conference on Information and Communication Technology for Intelligent Systems, Ahmedabad
Presented By: Naveena Reddy Mettu Author(s): Naveena Reddy Mettu T. Sasikala	“Intrusion Detection in Wireless Sensor Networks”		2 nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018), Hotel Arcadia, Coimbatore
Presented By: Mridula A. Author(s): Mridula A. Kavitha C. R.	“Opinion Mining and Sentiment Study of Tweets Polarity Using Machine Learning”	20 th - 21 st April 2018	

Papers Presented

INTERNATIONAL CONFERENCE			
NAME	TITLE	DATE	NAME OF THE CONFERENCE
Presented By: Amritha Purushothaman Author(s): Amritha Purushothaman Suja Palaniswamy	“Pose and Illumination Invariant Face Recognition for Automation of Door Lock System”	20 th - 21 st April 2018	2 nd International Conference on Inventive Communication and Computational Technologies (ICICCT 2018), Hotel Arcadia, Coimbatore
Presented By: Anagha Purushothaman Author(s): Anagha Purushothaman Vineetha K. V. Dhanesh G. Kurup	“Fall detection system using Artificial Neural Network”		
Presented By: Manikandan R. M. Author(s): Manikandan R.M. Radha D.	“A Comprehensive Approach for Network Security”		
Presented By: Sreedevi Uday Author(s): Sreedevi Uday C. Jyotsna, Amudha J.	“Detection of Stress using Wearable Sensors in IoT Platform”		
Presented By: Sreevidya B. Author(s): Sreevidya B., Rajesh M.	“Design and Performance Evaluation of an Efficient Multiple Access Protocol for Virtual Cellular Networks”	26 th - 27 th April 2018	International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT - 2018), Hotel Arcadia, Coimbatore
Presented By: Krishna C. S. Author(s): Krishna C. S., T. Sasikala	“Healthcare Monitoring System Based on IoT Using AMQP Protocol”		
Presented By: Vidya Kumari K. R. Author(s): Vidya Kumari K. R. Kavitha C. R.	“Spam Detection Using Machine Learning in R”		
Presented By: Binsy M. S. Author(s): Binsy M. S. Nalini Sampath	“User Configurable and Portable Air Pollution monitoring system using IoT”		
Presented By: N. Rakesh Author(s): N. Rakesh, T. Anjali B. Uma Maheswari	“Implementing MIMO-OFDM for the Improvement of the System Performance in WPAN”		
Presented By: Shruthi Sreedharan Author(s): Shruthi Sreedharan N. Rakesh	“Securitization of Smart home Network using Dynamic Authentication”		

Faculty Achievements/Participation/Recognition

- Karnataka State Council for Science and Technology sanctioned funds for the following final year B.Tech.- CSE projects.

Sl. No.	Title	Guide	Amount
1	Diagnosis of Reading Disability in Dyslexic Children using Eye Tracking	Dr. Amudha J. Ms. Jyotsna C.	Rs. 5500
2	Solar Powered Smart Aquarium based on IoT	Ms. Nalini Sampath	Rs. 4500

- **Dr. Suja P.** reviewed a paper for Journal IEEE Access.
- **Dr. Amudha J.** has attended PEM HACKATHON 1.0 during 10th National Assembly on Pediatric Emergency Medicine (NAPEM-2018) held during 5th to 6th April 2018, Ramaiah Medical College, Bengaluru.
- Subex, a leader in the Security and Fraud Management market over the last 25 years, partnered with NTU (Nanyang Technological University) and hosted the first edition of the Cybersecurity Symposium on 27th of April at Vivanta by Taj from 4 PM onwards. The main goal of the half-day Symposium was to create a collaborative platform for the industry and academia to discuss ideas and initiatives around cybersecurity education. The symposium also provided the opportunity to interact with key experts, such as esteemed NTU Academician and Cybersecurity practitioner Prof. Lam Kwok Yan. **Dr. Sangeeta K., Dr. Supriya M., Dr. Ajaykumara M. A., Ms. Santhanalakshmi S., Ms. Nalini S.** from Department of CSE and **Capt. Sood (CIR)** from Amrita School of Engineering, Bengaluru attended the symposium.

Departmental Activity

• BCIC Inclusive Innovation Awards 2018

The Road Show for Bengaluru Chamber of Industry & Commerce (BCIC) Inclusive Innovation Awards 2018 started at 3 PM in Amritheshwari Hall on 26th April 2018. Ms. Sowmya Vijayalakshmi, Delivery manager, Australia and New Zealand Banking Group Limited and a member of BCIC welcomed and addressed audience. She explained to the audience about the BCIC Inclusive Innovation Awards 2018 and the various categories in which the awards are given. She also explained eligibility criteria and the procedure to apply for the award. She answered various questions asked by audience towards the end of the event. The event is coordinated by S. Saravanan, Asst. Prof., CSE.

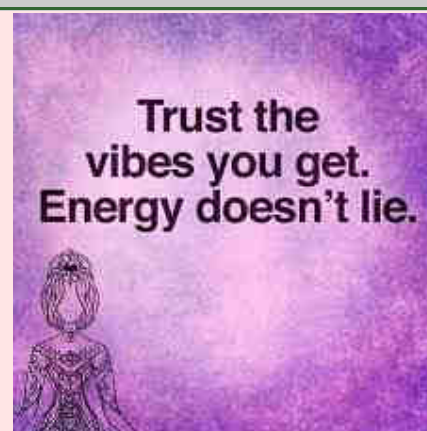


If you try to run away from your shadow, you will simply collapse due to exhaustion. Face the difficulties of life through love and faith - Amma

Papers Published

INTERNATIONAL CONFERENCE			
NAME	TITLE	DATE	NAME OF THE CONFERENCE
Presented By: Sandeep Nair Author(s): Sandeep Nair Sunitha R. N. Pradhan A. Sreedevi	“Modelling and simulation of Neuronal Communications at Microscopic and Macroscopic Level”	1 st - 2 nd April 2018	8th International Conference on Science and Innovative Engineering, ICSIE 2018 held at Jawahar Engineering College, Chennai
Presented By: K. Jeeva Priya Author(s): S. Sowmya Sree N. S. Navya K. Jeeva Priya Deepa Gupta	“Implementation of Phonetic Level Speech Recognition in Kannada Using HTK”	3 rd - 5 th April 2018	7 th IEEE International Conference on Communication and Signal Processing (ICCSP) 2018, Adhiparashakthi Engineering College, Melmaruvathur
Presented By: Veena Narayan Author(s): Veena Narayan S. Lalitha Deepa Gupta	“Stress Recognition Using Auditory features for Psychotherapy in Indian Content”		
Presented By: Ch. Sai Pavan Kumar Author(s): Ch. Sai Pavan Kumar M. Krishna Chaitanya M. Vishnu Deepak, Sanjika Devi R. V. Dhanesh G. Kurup	“Modeling Broadband RF Power Amplifiers Using a Modified Hammerstein Model”		

*Try to spend at least a little time thinking about what you could do for others today -
Amma*



Faculty Achievements/Participation/Recognition

- **Dr. Kaustav Bhowmick** as a chair of IEEE Photonics Society, delivered a guest lecture at PESIT south campus, Bengaluru, on “Photonic and Optical Technology: A Practical Perspective” on 10th April 2018.
- **Dr. Navin Kumar** had been invited as Chief Guest at the inauguration of IEEE Student Branch and Branch Chapter by St Joseph College of Engineering, Mangalore on 28th April 2018. He also delivered an invited talk during the occasion titled, “ICT Role in Building Smart City with a Focus on Wireless Technology”.

Student Achievements

- Ms. Shriya Nithyan (S8-ECE), Ms. Akhila S. (S8-ECE), Ms. Sowmya C. (S8-ECE) under the guidance of Ms. Priya B. K., got their project sanctioned during April 2018, under the 41st series of the student project programme 2017-2018, Karnataka State Council for Science and Technology, Indian Institute of Science, Bengaluru. The project is titled, Design and Implementation of Automatic Miniature Indoor Plant Cultivator using Artificial Environment, with sanctioned amount of Rs. 5000.

New Appointment



- **Ms. Jalpa Shah** has joined as an Assistant Professor (Sr. Gr.) in the Department of ECE on 2nd March 2018. She holds a degree in M. E. (Microelectronics Systems) from IISc, Bengaluru. She is currently pursuing Ph.D. (Wireless Sensor Network) from Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, India. Her research interests are Internet of Things, Wireless Sensor Network, Embedded Systems and Machine Learning.



Workshops/ Seminars/ Conferences organized

NAME	TITLE	DATE	VENUE
IEEE PELS	Tutorial on “Indian Power Scenario and Real Time operation of Indian Grid” by Mr. Yekambaran Kasani (Senior Engineer) Power Grid, Bengaluru	3 rd April 2018	Rama hall, Amrita School of Engineering, Bengaluru
	Seminar on “Electrical Entrepreneurship”	6 th April 2018	

Faculty Achievements/Participation/Recognition

- **Ms. Mini Sujith**, from Amrita School of Engineering, Bengaluru has been elected as the Chapter Chair, IEEE Power Electronics Society Chapter, Bengaluru for the year 2018.
- **Dr. J. Ramprabhakar** reviewed the manuscript for IEEE Transactions on Energy Conversion.
- **Ms. Anjana Jain** reviewed one paper for Journal of Green Engineering (Scopus indexed), River Publisher in April 2018.



Without faith, we are full of fear. Fear cripples the body and mind, paralyzing us, whereas faith opens our hearts and leads us to love - Amma

Departmental Activity

• Indian Power Scenario and Real Time operation of Indian Grid

The IEEE power Electronics society student branch of Amrita School of Engineering, Bengaluru organized a tutorial on 3rd April 2018 on the topic of “Indian Power Scenario and Real Time operation of Indian Grid” at Amrita School of Engineering, Bengaluru. The lecture was given by Mr. Yekambaran Kasani (Senior Engineer), Power Grid, Bengaluru and about 25 students attended the lecture. He gave a glimpse of evolution of power systems and frequencies, the Smart Grid and about the different Smart Grid technologies that are in use today. In the second session, he gave information about the Indian power system and peculiarities of regional grids in India and compared with international interconnections. Further, he explained about the transmission lines, transformers, and real time issues faced by them. He gave a detailed explanation about the SCADA System and its main components and about the PMU and its applications.



• Electrical Entrepreneurship

The IEEE Power Electronics society student branch of Amrita School of Engineering, Bengaluru organized a talk on 6th April 2018 on the topic of “Electrical Entrepreneurship” at Amrita School of Engineering, Bengaluru. The lecture was given by Mr. Dinesh (Entrepreneur) and about 50 students attended the lecture.



Our educational system needs to give equal importance to the intellect and the heart - Amma

Departmental Activity

- **Talk on “Energy Industry Transformation”**

On 7th of April 2018, IEEE PES and IAS joint student branch chapter of Amrita School of Engineering, Bengaluru organized a talk on the topic “Energy Industry Transformation”. The venue was filled with young curious engineers waiting with their illuminated minds for the arrival of Mr. Mariasundaram Antony, General Manager for the India Engineering operations for GE Power Business. A leap of excitement swept across room upon the arrival of Mr. Mariasundaram Antony. In his 18+ years, at GE starting from GE Aircraft Engines in 1999, Mariasundaram has progressed through various leadership positions, his last role being that of India Engineering Leader for GE Energy Connections and Site Leader for GE’s Hyderabad Technology Centre (HTC). Prior to GE, he worked with Bharat Heavy Electricals Ltd. in the area of Nuclear power generation products/system design and TVS Sundaram Clayton in the area of railway products design. He has been active in forums like CII (Confederation of Indian Industry) and is a member of the CII National Sub-Committee on Power. He is also a member of the American Society of Mechanical Engineers and the Institute of Electrical & Electronics Engineers. He is a GE Certified Six Sigma Master Black Belt (MBB). He started his talk by addressing the audience the main issues faced by today’s energy sector. One doesn’t need to be working in the energy sector to have noticed that there are some big changes under way. Over the past year, global conditions have continued to challenge the sector. The energy sector today is a big bulk of different interdependable units where the main focus along with production and distribution needs to be on solving energy usage problems and optimizing the systems. He further emphasized the importance of IOT in the field of energy sector with possibility of consumers also producing and sending energy back to the grid with the help of IOT in the near future, thus giving rise to a relatively new term known as “Prosumers”. Furthermore he explained that with constant increase in demand for energy, there is a peremptory need for greater energy production day by day. Increasing the energy demand is not an overnight process, but can be achieved through careful performance trends and projections, system/plant-level diagnostics and recommendations and tools to resolve issues. He urged the students to the peak their minds and be more inquisitive on the affairs related to energy production, usage and its conservation. The talk was concluded by a Q & A session where the speaker was happier to take on the flames of the burning questions put forth by the students.



**In order to win grace,
we must cultivate
humility in word and
deed - Amma**



Papers Published

INTERNATIONAL JOURNAL			
NAME	TITLE	DATE	NAME OF THE PUBLICATION
Author(s): Shali S. Jafarali P. Nagaraja S. R.	“Identification of second spectrum of a Timoshenko beam using differential transform method”	April 2018	Journal of Engineering Science and Technology, Vol.13, No. 4, pp. 893-908.

Papers Presented

INTERNATIONAL CONFERENCE			
NAME	TITLE	DATE	NAME OF THE EVENT
Presented By: Saneesh Nair Author(s): Saneesh Nair Vinod Kotebavi Alok Kumar Das	“Performance investigation of rotary heat exchanger installed with four ducts using CFD”	6 th - 7 th April 2018	3 rd International Conference on Design, Analysis, Manufacturing and Simulation, Saveetha School of Engineering, Chennai
Presented By: Pranita Adsul Author(s): Adsul Pranita Vinod Kotebavi Bedekar Sanjeev Mishra Ashwini	“A simulation study of cooling system for heavy duty diesel engine”		
NATIONAL CONFERENCE			
Presented By: D. Sahu Author(s): Praveen Alok D. Sahu	“Experimental study on vapor adsorption refrigeration system with carbon-methanol pair”	2 nd March 2018	IConMMEE 2018/ IOP Science conference proceedings/ MITE, Mangalore
Presented By: Pala Tejesh Author(s): Pala Tejesh Pamarthi Shyam P. Siva Durga Prasad Vinod Kotebavi	“Comparison of Performance and Emission Characteristics of a CI Engine Fuelled with Dual Blends: Palm, Sesame oils and Diesel”	28 th April 2018	2nd National Conference on Automotive systems Design, Manufacturing and Integration (ASDMI18), Kumaraguru College of Technology (KCT), Coimbatore

Without purity of mind, no one can grasp the subtle experience of Truth; and without that, there can be no lasting happiness – Amma

Faculty Achievements/Participation/Recognition

- **Dr. Debjyoti Sahu**, Assistant Professor, delivered a talk on “Fuel Cell Hydrogen Economy: Advancements and Challenges” on 9th April 2018 at a one-week faculty development programme, sponsored by TEQIP Phase III, during 9th to 13th April 2018, on “Challenges in Non-Conventional Energy Sources” held at MCE, Hassan.
- **Mr. Rajeevlochana G. Chittawadigi** was invited to deliver a lecture on “Robot Simulation using RoboAnalyzer” in **Symposium on Robotics** organized by IEEE RAS (Robotics and Automation Society) and IEEE PESIT South Campus Student Branch, at PESIT South Branch, Bengaluru on 28th April 2018.

Students Achievements

- The following students were awarded with **best paper** for the following titles at 3rd International Conference on Design, Analysis, Manufacturing and Simulation, held at Saveetha School of Engineering, Chennai.

Name of the student	Paper Title
Saneesh Nair S4-M.Tech. (TSES)	Performance investigation of rotary heat exchanger installed with four ducts using CFD
Pankaj Ravindra Badgujar	Analytical performance analysis of cross flow louvered fin automobile Radiator

- **Mr. Harshit Khokawat (S6-ME)** has been selected for UGRI (Undergraduate Research Initiative) for a 2 months summer internship in the Department of Mechanical Engineering at IIT Jodhpur under the supervision of Dr. Suril V. Shah and Dr. Kaushalkumar A. Desai.
- A safety system for women passenger was designed and developed by three B. Tech students. **Mr. Vijendra, Mr. S. Jaya Krishna Teja, Mr. Nikhil Sarika** under the guidance of **Dr. Rakesh S. G., Associate Dean, ASE-BLR and Mr. Nandi Vardhan H. R.** The prototype consists of two buttons hooked into existing central locking mechanism. A “check button” is provided to verify if the safety system is armed and if it is safe to travel. A “Panic Button” is provided to alarm the neighborhood at the time of distress. When the check button is pressed the device checks if the driver has fastened his seat belt, the child lock is engaged, and if the circuit is tampered. If the seat belt is fastened, child lock is not engaged and the circuit is not tampered, a “SAFE to TRAVEL” signal is displayed else the passenger is cautioned as unsafe to travel. At the time of crime, if the panic button is pressed, the driver seat belt is locked, the driver side door remains locked, all the passenger doors are unlocked, the hooter and blinkers are switched on to attract help. The possible victim can escape to safety. The system is robust in operation and is being extended to bring the vehicle to safe stop.



Other News

- **Mr. Rajeevlochana G. Chittawadigi** conducted a set of tutorials/sessions on Visual C# programming for the B.Tech. S4-ME students. These tutorials were aimed at helping them develop software for simulation of mechanisms. A total of 46 students attended these sessions which was also a short listing criterion for selection for various summer internships. Based on the performance in the programming assignments and their skills in CAD modeling and analysis in Autodesk Inventor and ADAMS, the following students were shortlisted for internships and the hosts have confirmed the same. These students will be undergoing summer internship for the duration May first/second week to June end, 2018.

Sl. No.	Student Name	Host and Institute
1	Jai Singh Kushwah (S4 ME C)	Prof. Subir K. Saha, IIT Delhi
2	Devarshi Pandey (S4 ME C)	Prof. Subir K. Saha, IIT Delhi
3	ASD Ganesh (S4 ME A)	Dr. Sandipan Bandyopadhyay, IIT Madras
4	J Raghu Ram (S4 ME A)	Dr. Sandipan Bandyopadhyay, IIT Madras
5	Sai Vikas Maram (S4 ME B)	Dr. Suril V. Shah, IIT Jodhpur
6	K. S. Yashaswi (S4 ME B)	Dr. Suril V. Shah, IIT Jodhpur
7	Avanthika D (S4 ME A)	Dr. Abhishek Sarkar, IIIT Hyderabad
8	Gokul P (S4 ME A)	Dr. Abhishek Sarkar, IIIT Hyderabad
9	Prasanna Venkatesh (S4 ME C)	Dr. Nayan M. Kakoty, Tezpur Univ., Assam
10	S Sugandhana (S4 ME C)	Dr. Nayan M. Kakoty, Tezpur Univ., Assam
11	S S Thejas (S4 ME B)	MTAB Engineers Pvt. Ltd., Chennai

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work viewing it as
your dharma, your
actions become
sacred.

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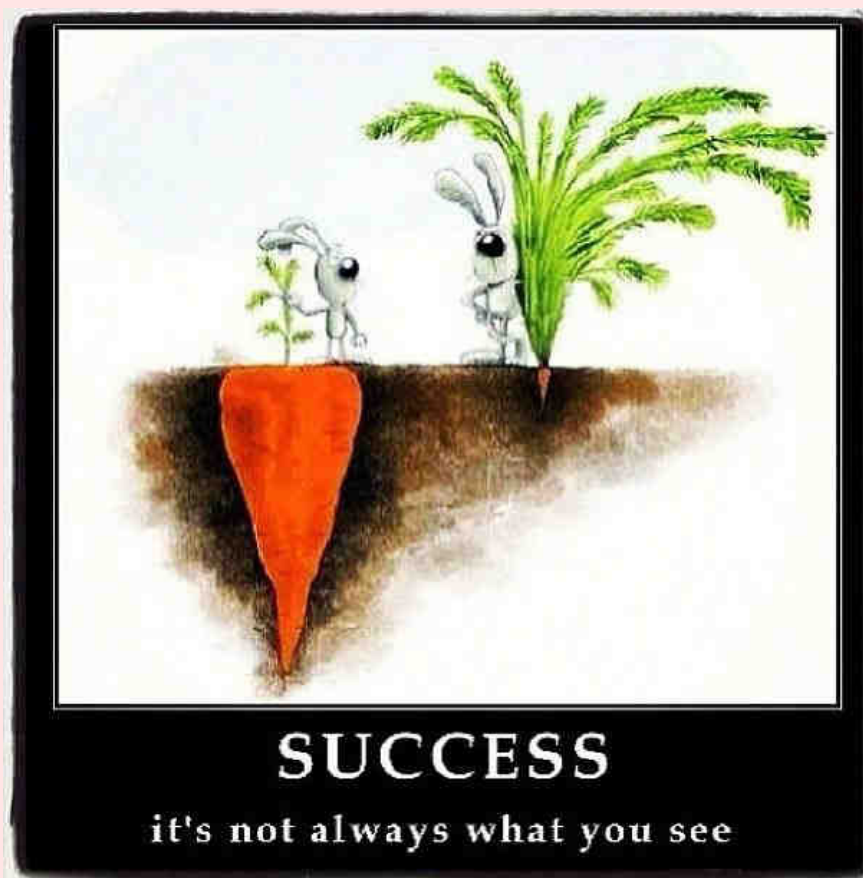


Mathematics

Papers Presented

INTERNATIONAL CONFERENCE			
NAME	TITLE	DATE	NAME OF THE CONFERENCE
Presented By: Radha Ramani Vanam Author(s): Radha Ramani Vanam Meera K. N.	“Radio degree of a graph”	April 2018	AIP Conference Proceedings 2018

*Be like a honeybee who gathers only nectar wherever it goes.
Seek the goodness that is found in everyone - Amma*



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It is pure love and selfless service that sustain this universe -

Amma



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