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#### Message from the Chairman



Dear Members, Season's Greetings

The rat race for engineering admissions is settling down slowly. Those who got the branches of their liking would be rejoicing whereas those who have not got the one to their liking would be discouraged. Dear students, do not get dejected that you did not the branch of your liking. It is too early for you to decide what branch is suitable for you. Take up the one you finally got and approach with an open

mind. There are challenges everywhere and you will start enjoying the challenges as you move on, provided you do your homework well from day one. Some of you may consider that Civil engineering is not a good branch. But think of the roads, buildings, bridges and other infrastructure, which are all due to the work of civil engineers! Marvelous is it not?

Do you know which branch of engineering came up first historically? It was the Civil engineering. This was due to the construction of buildings, roads, bridges etc. which started from time immemorial. You can now connect why it is called "Civil" During the days of war when many engineering skills were developed, those so called engineers who built bridges, roads, buildings etc. were those who were not directly involved with combat or direct fighting, rather civilians. Thus these engineers came to be known as Civil engineers. During industrial revolution, machinery started getting designed and fabricated and thus evolved Mechanical engineering. The last in the group was electrical engineering when electricity came to be used as the power to run machinery. It later developed as the main driving power for large industries like cement, steel and later on for locomotion as in electric traction.

With the above briefing, I hope you can be happy with any branch which you have chosen. IEEE is there to support you in various ways under any circumstance. You need not be one in circuit branch or computer science. Even mechanicals and civils can become member and get benefited. Do participate in the various programs of IEEE organized in your college or section along with your colleagues and friends and get benefited.

It is time for those of you who are volunteering to go through the website of IEEE and apply or nominate your colleagues for appropriate awards. There are plenty of them awaiting you.

I had indicated in one of the earlier newsletter regarding membership upgrading. Those of you who are eligible, I request you to put up your on line nomination with support from senior members. If you have any difficulty, we can support you in identifying senior members in your area of expertise and region.

Wish you all the best

Till next time,

Yours voluntarily

MAAtmanand

The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends on the unreasonable man. — George Bernard Shaw.

#### **Message from the Chief Editor**



IEEE MAS LINK is happy to present the 2<sup>nd</sup> print edition for the year 2016. As you are aware the print edition is an abridged version of the IEEE MAS LINK which comes out in electronic form (PDF edition) every month with the complete activity details of Student Branches.

This print edition is based on the electronic editions of Apr 2016 at http://goo.gl/ZUf74M, May 2016 at http://goo.gl/O4IMyQ and Jun 2016 at http://goo.gl/0qITx1.

The multifarious activities of the SBs, SCs and AGs are published as a list with reference to the detailed reports in the respective monthly electronic edition of LINK.

Along with the events, some important announcements are highlighted. Including IEEE Collabtrec, Group medical insurance, Group payment options for membership, New MOOC course, return-to-work for women etc.

We request our contributors to follow the guidelines available at http://goo.gl/5MuY0c while sending the matter for publishing.

We are sure that you will enjoy reading this print edition of IEEE MAS LINK. Please provide your valuable feedback for improvement. Send your feedback by email to jeeeemaslink@gmail.com.

With regards

H.R. Mohan

#### **Madras Section**



14th Mar 2016: Organized two talks -- "Life as Software Engineer" and "Final Year CS Projects: How to select a meaningful final year project" by Dr. Jeyakesavan Veerasamy, Director of Center for Computer Science Education & Outreach, University of Texas, Dallas, USA

 $9^{\text{th}}$  May 2016: Technical talk on "Easy ways to save the Planet - Starting with your little corner of it"

11<sup>th</sup> May 2016: Presentation on "Communication Systems in Indian Railways: Today and Tomorrow" by Mr. R. Baskaran, Group General Manager, RailTel Corporation of India Ltd, Chennai

17<sup>th</sup> May 2016: Joint meeting on "World Telecommunication and Information Society Day" by IETE, IEI, IEEE & CSI.

More in Page 33 in LINK-1604, Page 21 in LINK-1605 and Page 15 in LINK-1606

### Adhiparasakthi Engineering College, Melmaruvathur



20 - 21 Apr 2016: Two-day International Conference on Computation of Power, Energy, Information and Communication.

More in Page 4 in LINK-1605

#### **Electron Devices - Coimbatore Chapter**



- 3-5 Mar 2016:  $3^{rd}$  International Conference on Devices, Circuits and Systems was held at Karunya University, Coimbatore.
- 4<sup>th</sup> Mar 2016: One-day National Workshop on Recent Research Trends in Nanoscale Devices, Circuits and Systems was conducted.

More in Page 4 in LINK-1604

#### Kongu Engineering College, Erode



- 1 2 Mar 2016: National workshop on Python by Mr Vengatesh, CEO, Consensus Technologies, Coimbatore.
- $8^{\text{th}}$  Mar 2016: Socio-economic Village Survey for the SANGAMAM Project was conducted in Ramayagoundenpalayam of Tirupur district.
- 17- 18 Mar 2016: A two-day national level technical symposium AVANZARE v10.0 was organized. The chief guest was Ms N. Kavitha, Director, STEPS Knowledge Services Private Ltd, Coimbatore.
- 17 18 Mar 2016: A two-day national workshop on "Internet of Things (IoT)" by CSE faculty, Mr. K. Sentamilselvan, and Mr. A. Jeevanantham.
- 2<sup>nd</sup> Apr 2016: Valedictory function

More in Page 12 in LINK-1604 and Page 10 in LINK-1605

#### **IEEE Computational Intelligence Society Chapter**

- 10 11 Mar 2016: ICHCI'16: International Conference on Human Computer Interaction at Saveetha University, Chennai.
- 17-18 Mar 2016: ICIIECS'16: International Conference on Innovations in Information Embedded and Communication Systems at Karpagam College of Engineering, Coimbatore.
- 17-18 Mar 2016: ICETECH'16: International Conference on Engineering and Technology at Rathinam Institute of Technology, Coimbatore.
- 6 8 Apr 2016: ICREST'16: International Conclave on Renewable Energy Systems & Technology at Saveetha University, Chennai.



 $7^{\text{th}}$  Apr 2016: Technical Talk on "'Smart Grid – Revolutionizing Our Energy Future" at Sathyabama University, Chennai.

20 – 21 Apr 2016: ICCPEIC'16 – International Conference on Computation of Power, Energy, Information and Communication at Adhiparasakthi Engineering College, Melmaruvathur.

More in Page 21 in LINK-1605

## IEEE Madras Section Student Project Funding (SPF 2015-16)



7th May 2016: The final project demo and validation by the students was carried out.

More in Page 25 in LINK-1605

### **IEEE Computer Society Chapter**

- 4th Jun 2016: Release of the book "Software Project Management" authored by Mr. S. Ramanathan.
- 4<sup>th</sup> Jun 2016: Presentation on "Managing Expectations Essence of Software Project Management" by Mr. S. Ramanathan

#### Jeppiaar Institute of Technology, Chennai



 $16^{\rm th}$  Mar 2016: Basic Session about Robotics by IEEE members D. Vignesh and S. Vignesh.

22<sup>nd</sup> Mar 2016: IEEE-WIE AG conducted a program on "Women as Professional" in which Ms Pachipula Pranavi, Programmer Analyst, Cognizant Technology, Student Ambassador at Xovian Start-up Space Agency & great space enthusiastic at SDNX was the chief guest.

21st Mar 2016: A blog development contest was organised.

15<sup>th</sup> Mar 2016: IEEE SB and EEE Dept. organized the national level technical symposiums Elixir 2k16 & Striders 2k16.

3 - 4 Mar 2016: IEEE SB organized CIEEMA – 2K16, a National Level Conference on Recent Trends in Computer Science, Information, Electronics, Electrical, Mechanical Engineering and their application.

20 - 28 Mar 2016: IEEE online poster design contest on the theme "Chennai Hub Congress" was organized.

8 -  $9~\mathrm{Apr}$  2016: IEEE Chennai Hub Congress 2016 (CHC-2016) was organized by the SB

More in Page 6 in LINK-1604 and Page 7 in LINK-1605

#### VIT University, Vellore



23<sup>rd</sup> - 24<sup>th</sup> Apr 2016: Organized SPAx (Student Professional Awareness Experience)

More in Page 18 in LINK-1605

### Prathyusha Engineering College, Chennai



27<sup>th</sup> Feb 2016: The 2<sup>nd</sup> IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bioinformatics-2016 (AEEICB - 2016)" was organized in association with the IEEE Madras Section, IETE and CSI.

More in Page 14 in LINK-1604

#### Knowledge Institute of Technology, Salem

5<sup>th</sup> Feb 2016: IEEE SB in association with ECE Dept. organized "German Language Training, Level A1".

3<sup>rd</sup> Mar 2016: Women Empowerment Cell in association with IEEE SB organized a guest lecture on "Manathinil Thelivu Kol" for all girl students and faculty members.

 $8^{\text{th}}$  Mar 2016: Women Empowerment Cell in association with IEEE SB organized an awareness programme entitled "Eight Secrets to become an Empowered Woman".

8th Mar 2016: Tech Talk on Recent Technology

9<sup>th</sup> Mar 2016: Women Empowerment Cell in association with IEEE SB organized an awareness programme on "Detective Pennin Anubavamum Magalirkana Seithiyum" with Detective I.S. Yasmin, Managing Director, ISY Verification Service, Coimbatore was the Chief Guest.

11th Mar 2016: Group discussion on "Privatization of Present Education System -- Boon or Bane".



12<sup>th</sup> Mar 2016: Dept. of ECE along with IEEE SB organized the 3<sup>rd</sup> National Conference on Recent Trends in Communication & Information Technology.

 $18^{\text{th}}$  Mar 2016: A discussion session on IEEE Spectrum Magazine Analysis for IEEE SB members.

 $18^{\text{th}}$  Mar 2016: IEEE SB in association with IIT Bombay started online courses on C & C++ for 2nd and Java for 3rd year students.

23<sup>rd</sup> Mar 2016: Organized a debate on "Private Job vs. Govt. Job".

1<sup>st</sup> Apr 2016: A lecture on "How Industrial Products are Marketed and what are the skills to be possessed for this field?" as a part of IEEE Blended Learning in VLSI with Mr. Y. Arunkumar, Engineer - Technical Marketing JVS Electronics Pvt. Ltd., Bangalore.

 $11^{\mbox{\tiny th}}$  Apr 2016: Discussion session on IEEE Spectrum Magazine Analysis led by Mr. M. Bharanidharan, IEEE SBC and Mr. .R. Rasu, AP/ECE.

12<sup>th</sup> Apr 2016: Hands-on training on "PLC using Siemens S7 – 200 Smart" as a part of IEEE Blended Learning in VLSI with Mrs. S. Kalpanadevi, Assoc. Prof and Mr. M. Rajendiran, AP as resource persons.

 $19^{\rm th}$  Apr 2016: IEEE SB and FORCE club arranged hands-on training on "Embedded C Language"

29<sup>th</sup> Apr 2016: Association Valedictory Function

More in Page 9 in LINK-1604 and Page 5 in LINK-1605

### Kings College of Engineering, Pudukkottai



 $4^{\rm th}$  Mar 2016: Awareness Program on Basic Electricity for Everyone and Electrical Safety" to the students of St. Mary's High School, Thirukanurpatti.

More in Page 10 in LINK-1605

#### SSN College of Engineering, Chennai



23 – 25 Mar 2016: Three days IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET-2016) on the theme of 'Advancement in Information Communication towards the creation of smart world'.

 $8^{\rm th}$  Mar 2016: Awareness Programme on DRDO and its Products & Job Opportunities led by Shri. M. Dhanabal, Scientist E, CVRD, DRDO, Avadi, Chennai.

7<sup>th</sup> Apr 2016: Inauguration of Communication Society.

 $7^{\text{th}}$  Apr 2016: Revamp program on the topic "Role of IEEE in Women Empowerment".

8 - 9 Apr 2016: Participation in IEEE Chennai Hub Congress at Jeppiaar Institute of Technology.

 $4^{\rm th}$  Apr 2016: Research Scholar Symposium on Data Analytics and Security (RSS DAS'16) was organized.

 $27^{\rm th}$  Apr 2016: Valedictory function of SSN's EMBS SB Chapter and SSN's Student Branch.

7<sup>th</sup> May 2016: Two student batches took part in "IEEE Student Project Funding (SPF-2015-16) held at the IEEE Madras Section office".

9<sup>th</sup> May 2016: Conducted a Volunteer training camp.

7<sup>th</sup> May 2016: Two student batches took part in "IEEE Student Project Funding (SPF-2015-16) held at the IEEE Madras Section office".

More in Page 21 in LINK-1604 and Page 19 in LINK-1605

#### National Engineering College, Kovilpatti



10<sup>th</sup> Mar 2016: Organized Mr. Chanakyan in which the participating students required to answer 20 tactical society-relevant questions within the stipulated 30 minutes of time duration in very keen manner.

2<sup>nd</sup> Apr 2016: The 100th birth anniversary of Claude E. Shannon was celebrated by organizing a colloquium on "Claude Shannon's Remembrance - The C3."

More in Page 13 in LINK-1604

#### Rajalakshmi Engineering College, Chennai

3<sup>rd</sup> Mar 2016: Orientation program, "Journey of Attitudes"



17<sup>th</sup> - 19<sup>th</sup> Mar 2016: International conference on Engineering Digital Green Era (EDGE)

More in Page 15 in LINK-1604

### St. Peter's College of Engineering and Technology, Chennai



21st - 22nd Apr 2016: National Workshop on "Software Defined Radio and Cognitive Radio Technologies"

More in Page 17 in LINK-1605

# K.S. Rangasamy College of Technology, Tiruchengode



29<sup>th</sup> Mar 2016: Student's Technical Symposium on "Current Trends in Biotechnology and Biomedical Engineering"

 $1^{\rm st}$  Apr 2016: Workshop on "PCB-Designing" by Mr. K. Raguvaran, AP/ECE.

 $2^{\rm nd}$  Apr 2016: Workshop on "ARDUINO" addressed by Dr. C. Rajasekaran, IEEE SBC; Dr. K. B. Jayanthi, HOD/ECE and Mr. M. Nepolean, IEEE SB Chair.

 $5^{\text{th}}$  May 2016: Research forum on "Tissue Engineering Biomaterials" and "India's Energy Security-The Role of Nuclear Energy".

More in Page 10 in LINK-1605 and Page 6 in LINK-1606

## IEEE Communications Society Chapter



11<sup>th</sup> May, 2016: Presentation on "Communication Systems in Indian Railways: Today and Tomorrow"

More in Page 15 in LINK-1606

## IEEE Madras Section – Women In Engineering



8 - 9 Apr 2016: IEEE Chennai Hub Congress 2016 (CHC-2016) was organized.

More in Page 23 in LINK-1605

# IEEE Product Safety Engineering Society



- 15th Apr 2016: Conducted a one-day hands-on workshop on "LED Luminaries Design, Fabrication and Testing" at Dept. of ECE, Dhirajlal Gandhi College of Technology (DGCT)
- 3 4 Mar 2016: Two days' workshop on "Electronic Circuit Design-Artwork and Practice" was organized at Sreenivasa Institute of Technology and Management Studies (Autonomous), Chittoor, Andhra Pradesh
- 9<sup>th</sup> May, 2016: A Technical Seminar on "Easy way to Save the Planet" was organized at Jayaraj Annapackiam CSI College of Engineering, Nazareth

More in Page 22 in LINK-1605 and Page 14 in LINK 1606

#### **IEEE Madras Section SIGHT**



9<sup>th</sup> Apr 2016: Assigned the task of making Solar Powered Tricycle for Fish Vending Women-II to the students of Annai Vailankanni College of Engineering (AVCE).

14<sup>th</sup> Apr 2016: Introduction of CC CAM Monitoring system to fishing boats by IEEE ADSF SIGHT.

18<sup>th</sup> Mar 2016: A discussion with Mr. John Milton on Biometric Card Project.

23<sup>rd</sup> Apr, 2016: A team of students from Tirunelveli Government College of Engineering visited Jeppiaar Fishing Harbour, Muttom, Kanyakumari District to get better exposure in the field of fishing and fisheries.

24<sup>th</sup> Apr 2016: Modern Lifebuoy Test at Chotha Vilai Beach.

30<sup>th</sup> Apr 2016: Awareness programme at the Marina beach reduce the amount of trash at the beach.

13th May 2016: Project team of Mar Ephrem College of Engineering and Technology (MECT) received a biometric reader from the Chair of IEEE Madras Section, Dr. M.A. Atmanand - under the project "Technology Adoption for the Reduction of Vulnerability in Fishing".

12 - 13 May, 2016: Introductory programme of the project "Technology Adoption for the Reduction of Vulnerability in Fishing"

13<sup>th</sup> May, 2016: Special Programme for Women on identifying possible self-employment.

16<sup>th</sup> May 2016: First test of Modern Life Buoy with GPS Tracker held at Chothavilai Beach

20<sup>th</sup> May 2016: Team conducting Luminous Intensity Study had a meeting with a company called Snows Lights.

More in Page 23 in LINK-1605 and Page 12 in LINK-1606

# IEEE Robotics & Automation Society Chapter



31st May 2016: Technical meet on "Micro Satellite"

More in Page 16 in LINK-1606

# IEEE Madras Young Professionals Affinity Group



17<sup>th</sup> Apr 2016: A white talk on "Money Management" was organized.

More in Page 24 in LINK-1605

## CAPE Institute of Technology, Kanyakumari



3 - 4 May 2016: Two-day workshop on Arduino with Mr. L. Arivazhagan, Assistant Professor and Co-coordinator of IEEE SB as subject expert.

More in Page 4 in LINK-1605

## Saveetha School of Engineering, Saveetha University, Chennai

10 - 11 Mar 2016: Second International Conference on Human Computer Interactions.



6<sup>th</sup> Apr 2016: Three days conference - International Conclave on Renewable Energy Systems and Technology.

More in Page 18 in LINK-1604 and Page 16 in LINK-1605

### Sona College of Technology,

23<sup>rd</sup> Mar 2016: Workshop on Big Data Analytics.

24<sup>th</sup> Mar 2016: Technical Symposium CIRCUITRIX

8<sup>th</sup> Apr 2016: Seminar on the topic "Internet of Things (IoT) applied to Precision Agriculture" by Prof. V. Prithiviraj, Principal, Rajalakshmi Engineering College, Chennai.

More in Page 17 in LINK-1605

## Dr. Sivanthi Aditanar College of Engineering, Tiruchendur



10<sup>th</sup> Feb 2016: Group discussion event judged by Mr. A. Jeyapaul Murugan, AP/ECE & Mrs. S. Beula, AP/ECE.

11<sup>th</sup> Feb 2016: Non Quantitative Aptitude contest for the second year ECE students.

12<sup>th</sup> Feb 2016: Technical Aptitude contest was conducted for the third year ECE students.

12<sup>th</sup> Feb 2016: Logo puzzles contest for the final year ECE students.

26<sup>th</sup> Feb 2016: Techno talk contest was conducted for the third year ECE students.

8<sup>th</sup> Mar 2016: Paper presentation contest for the second year and third year ECE students.

11<sup>th</sup> Apr 2016: National seminar on "Trends in Antenna Design & Applications". Dr. V. Prithivirajan, AP, National Engineering College, Kovilpatti and Dr. A. Beno, AP/ECE werre resource-persons.

29<sup>th</sup> Apr 2016: IEEE awareness programme was conducted

More in Page 19 in LINK-1604 and Page 14 in LINK-1605

### Sastra University, Thanjavur



19 - 20 Mar 2016: Student Professional Awareness Conference (SPAC).

28<sup>th</sup> Feb 2016: Conducted the PCB workshop in association with ASCIEE (Electronics Club at SASTRA University).

More in Page 16 in LINK-1604

#### Jansons Institute of Technology



June, 2016: Induction of new Office-Bearers

11<sup>th</sup> May, 2016: Organized an event named "Exploration of IEEE website and Launch of IEEE Email Alias"

More in Page 03 in LINK-1606

### Dr. NGP Institute of Technology, Coimbatore



3<sup>rd</sup> Mar 2016: Distinguished Lecture Programme on "Drives for Electrical Vehicles" by Dr. K.Raghavan, Associate Professor, Indian Institute of Technology, Gandhinagar, Gujarat.

31<sup>st</sup> Mar 2016: One-day hands-on workshop on "Industrial Automation Using Ladder Programming"

13<sup>th</sup> Apr 2016: A seminar on "Career Opportunities for Electrical Engineering in Core Functions" by Mr. Ramasundhar, Founder, Switchgear Training and Recruitment Solutions, Coimbatore & Retd. DGM, L&T Switchgear Ltd, Coimbatore.

20th Apr 2016: An industrial visit to SWELECT Energy Systems Limited, Vellakovil, Tamil Nadu.

10<sup>th</sup> May, 2016: Voter awareness programme was organized.

### Ganadipathy Tulsi's Jain Engineering College, Vellore



7<sup>th</sup> Mar 2016: Women's Welfare Committee (WWC) in association with IEEE WIE celebrated women's day. Mrs. Thangaprakash, Correspondent and Principal of Sunbeam Schools, Katpadi, Vellore was the Chief Guest.

11 - 12 Mar 2016: Dept. of ECE, IEEE COMSOC in association with SKM Electronics organized Two - Days' workshop on "Arduino Based Designs". Mr. .V. Gopi, CEO, SKM Electronics, Tirrupattur was the resource person of the workshop.

10<sup>th</sup> May 2016: One day Guest Lecture on "VLSI Design with Dr. S. Vijaykumar, Associate Professor of ECE, SITAMS, Chittoor, AP as Chief Guest.

More in Page 5 in LINK-1604 and Page 6 in LINK-1605

## Aarupadai Veedu Institute of Technology, Chennai



22<sup>nd</sup> Feb 2016: Inauguration of the Faculty Lecture Series held by IEEE SB with the ECE Dept.

22<sup>nd</sup> Feb 2016: The first in this series of lectures was delivered by Dr.B.Sridhar, Prof., ECE, on the topic "Antennas for Energy Harvesting".

14th Mar 2016: Ms. L. K. Hema, Assoc. Prof., ECE delivered a lecture on "Wireless Sensor Networks" covering the concepts of wireless sensors, wireless sensor networks, their advantages and applications along with the design concepts involved.

15th Mar 2016: Mr. B. SivachandraMahalingam, AP, ECE, delivered a talk on "video Compression Standards" which dealt with the need for video compression, types of compression techniques and existing standards.

16<sup>th</sup> Mar 2016: Mr. R Karthikeyan, AP, ECE, delivered a talk on Machine Learning.

17<sup>th</sup> Mar 2016: Mr. J. Salai Thillai Thilagam, Assoc. Prof., ECE delivered a lecture on "Micro strip Antennas".

18<sup>th</sup> Mar 2016: Mr. A Subbiah, AP/ECE, delivered a lecture on "Power Plant Instrumentation"

21<sup>st</sup> Mar 2016: Mr. R Pathamuthu, AP/ECE delivered a lecture on "ARM Processors"

22<sup>nd</sup> Mar 2016. Ms. R. Mohanapriya, AP/ECE delivered a lecture on "Skinput", an input technology that uses bioacoustics sensing.

23<sup>rd</sup> Mar 2016: Ms. K. Sasirekha, AP/ECE delivered a lecture on "Smart Sensor Networks"

29<sup>th</sup> Mar 2016: Ms. R Indumathi, AP/ECE delivered a lecture on "Telemedicine"

29<sup>th</sup> Mar 2016: Ms. C Manibharathi, AP/ECE delivered a lecture on "Multimedia Compression"

29<sup>th</sup> Mar 2016: Mr. R Suresh Kumar, Assoc. Prof/ECE delivered a lecture on "Cloud Computing"

5<sup>th</sup> Apr 2016: Mr. P Subramanian, Assoc. Prof/ECE delivered a lecture on "Content-Based Video Indexing and Retrieval"

More in Page 3 in LINK-1604 and Page 3 in LINK-1605

### Karpagam College of Engineering, Coimbatore



29<sup>th</sup> Feb 2016: The Startup Conclave 2016 was organized.

29<sup>th</sup> Feb & 1<sup>st</sup> Mar 2016: World Conference on Futuristic Trends in Research and Innovation for Social welfare (WCFTR'16) was organized by Dept. of ECE (PG), sponsored by IEEE Robotics and Automation Society, Madras Chapter.

17 – 18 Mar 2016: The 3<sup>rd</sup> International Conference on Innovations in Information Embedded and Communication Systems was organized by Dept. of ECE (PG).

2<sup>nd</sup> Apr 2016: An Entrepreneurship Development Programme on Solar Energy was organized.

9<sup>th</sup> Apr 2016: An Entrepreneurship Development Programme on "Why Self Employment – Advantages Over Wage Employment, Entrepreneurship Development – What, Why & How" was organized with Dr. B. Nagaraj, Head, Karpagam Innovation Centre as the resource person.

13<sup>th</sup> Apr 2016: Talk on Indian Startup Tour by Akshay Gunteti & Nidhiya V Raj.

16th Apr 2016: A motivational event on "Belief in Yourself" was organized with Dr. B. Nagaraj, Head, Karpagam Innovation Centre as the speaker.

29<sup>th</sup> Apr 2016: A hands-on and experiential entrepreneurship program on the theme "Building A New Venture".

2<sup>nd</sup> May 2016: A guest lecture on "Think outside the Box" by Mr. Noor Mohammed.

More in Page 7 in LINK-1604 and Page 9 in LINK-1605

# M. Kumarasamy College of Engineering, Karur



24<sup>th</sup> Mar 2016: Conducted JUARA'16, an intracollegiate meet which consisted of two events, Debate and Ad-Zap.

More in Page 13 in LINK-1604

#### Karunya University, Coimbatore



11<sup>th</sup> Feb 2016: Inauguration of IEEE Power Electronics Society (PELS) Student Chapter by Dr. R. Seyezhai, Assoc. Prof/EEE, SSN College of Engineering, Chennai and Secretary, IEEE PELS, Madras Section.

12<sup>th</sup> Feb 2016: Two-day national level workshop on, "Control of Electric Drives with Advanced Power Converters".

9<sup>th</sup> Mar 2016: Circuit debugging event

17<sup>th</sup> Mar 2016: Technical quiz on Electric circuit Analysis

6<sup>th</sup> Apr 2016: Google Tech search Competition.

22<sup>nd</sup> Mar 2016: Technical quiz on Electromagnetic fields

More in Page 8 in LINK-1605 and Page 4 in LINK-1606

### MAR Ephraem College of Engineering and Technology



2<sup>nd</sup> Mar 2016: Student orientation program (SOP) on "Benefits of IEEE membership"

More in Page 10 in LINK-1605

### Rathinam Technical Campus, Coimbatore



17<sup>th</sup> - 18<sup>th</sup> Mar 2016: 2nd IEEE International Conference on Engineering and Technology - ICETECH-2016".

More in Page 15 in LINK-1604

### KPR Institute of Engineering and Technology, Coimbatore



24<sup>th</sup> Mar 2016: One-day national workshop on "Energy Auditing and its Conservation Techniques" and the resource persons were Dr. P. Selvakumar, AP/Mech. Kongu Engineering College and Prof. S. B. Nithyananth, AP/Mech. Kumaraguru College of Technology.

18<sup>th</sup> Mar 2016: One-day national workshop on "Real-time Embedded Systems using ATMEGA Controller".

29<sup>th</sup> Mar 2016: National Conference on "Innovations and Advancements in Electrical Sciences" on the theme "Greener Energy for Future Generation".

12<sup>th</sup> Apr 2016: IEEE SB and EEE Dept. conducted a "Technical Ouiz".

18<sup>th</sup> May 2016: One-day Workshop on "Soft Computing Techniques" by Dr. V. Kumar Chinnaiyan, HOD/EEE and SBC and Mr. G. Sarayanan.AP/EEE.

3<sup>rd</sup> May 2016: Guest lecture on "Think out of Box" by Mr. S. Vivekanandan, AP/EEE and Dr. V. Kumar Chinnaiyan.

More in Page 12 in LINK-1604 and Page 6 in LINK-1605

### KLN College of Engineering, Madurai



2<sup>nd</sup> Mar 2016: A lecture on "Belief System and Emotional Intelligence" in association with Junior Chamber International (JCI), Madurai.

9<sup>th</sup> Mar 2016: Guest lecture on "Introduction to Automation on Drives" by Mr. S. Vignesh, Manager, Center for Excellence and Mr. Akmal, Manager-Training Siemens Ltd, Chennai.

23<sup>rd</sup> Mar 2016: An industrial visit to Kudankulam Nuclear Power Plant.

More in Page 10 in LINK-1604

All progress takes place outside the comfort zone. - Michael John Bobak

## Panimalar Institute of Technology, Chennai

4th Mar 2016: Chart-making event.

7<sup>th</sup> Mar 2016: Model-making event

9<sup>th</sup> Mar 2016: Lecture on Women Entrepreneurship and Entrepreneurs by Sree Vishnupriya K, Regional Program Executive from "ENACTUS", an international non-profit organization

10th Mar 2016: Woman's Day Celebration

10<sup>th</sup> Mar 2016: Lecture on Emerging Trends in VLSI Signal Processing by Mr. Senthil Arunachalam, Director – Automotive Business Unit, Jasmin Infotech Pvt. Ltd., Chennai

14<sup>th</sup> Mar 2016: Lectures on "Embedded Systems" and "Enjoyable Introduction to Coding" by Dr. Jey Veerasamy, Director, Center for Computer Science Education & Outreach, University of Texas, Dallas

16<sup>th</sup> Mar 2016: Lecture on Leadership Quality by Mr. S. Varadarajan, Chief Empowerment Officer & Mentor, V empower Academy, Chennai

16<sup>th</sup> Mar 2016: Lecture on Skill Development by Mr. Paul Baskaran, Competent Communicator and Competent Leader with Toastmasters International, USA.

16<sup>th</sup> Mar 2016: Lecture on Public Speaking by Mr. E. Sathyanarayanan, Software Engineer, Mphasis, Chennai

21<sup>st</sup> Mar 2016: Seminar on "How to Crack UPSC & Competitive Exams" with Mr. M. Arun, IEEE SB Counselor was the resource person.

22<sup>nd</sup> Mar 2016: Seminar on "Molecular Communications" by Mr. S. Ganesh, Assoc. Prof/ECE.

12<sup>th</sup> Apr 2016: Quiz contest on current affairs & Indian Politics

13th Apr 2016: Lecture on "Expectations of IT Industries from Young Engineers by a college alumni, Mr. Jeeva Mahendran, Senior Software Developer, Wipro & Founder of a Start Up as the resource person

14th Apr 2016: Project contest

18<sup>th</sup> Apr 2016: Seminar on Technological Advancement in the field of Communication with Dr. M. Prem Kumar, Prof/ECE was the resource person

18<sup>th</sup> Apr 2016: Seminar on Advanced Embedded Processor with Mr. S. Ganesh, Assoc. Prof/ ECE was the resource person.

19<sup>th</sup> Apr 2016: Seminar on Electromagnetism in Real World.

20<sup>th</sup> Apr 2016: Seminar on Recent trends in Image & Video Processing by Mr. L. Ashok Kumar, AP/ECE.

20<sup>th</sup> Apr 2016: Seminar on Networking with Mrs. R. Suganthi AP/ECE & Ms. Jyotshna, AP/ECE were the resource persons.

20<sup>th</sup> Apr. 2016: Seminar on Scope of VLSI Domain & its Opportunities by Mr. J. Venkatesan, AP/ECE

21<sup>st</sup> Apr 2016: Seminar on Modern Antennas & its Applications.



7<sup>th</sup> May 2016: International Conference on Innovative & Emerging Trends in Engineering & Technology -ICIETET'16

26<sup>th</sup> May, 2016: Inauguration of its IEEE Oceanic Engineering Society

26 - 27 May, 2016: Two days' Workshop on "Seed your IDEA don't weed"

13 – 20 May 2016: Seven days FDTP on CS6701-Cryptotgraphy and Network Security.

More in Page 12 in LINK-1605 and Page 6 in LINK-1606

#### Sri Krishna College of Engineering and Technology, Coimbatore



24<sup>th</sup> Feb 2016: One-day national level technical symposium, KRISNECS-2K16.

29<sup>th</sup> Mar 2016: Women's Empowerment Programme commemorating "The International Women's day" in which talk was given by Dr. P. Thamarai Selvi, SoM Dept.

More in Page 20 in LINK-1604

### Entrepreneurship & Innovation Committee Activities



12 – 13 Mar 2016: Two-day Graphic Design Workshop

More in Page 23 in LINK-1604

## Sri Ramakrishna Engineering College, Coimbatore



5<sup>th</sup> Feb, 2016: National level technical expo - Techkosmos' 16

More in Page 17 in LINK-1605

## Sri Sai Ram Engineering College, Chennai



May, 2016: Seminar on "The Benefits of joining IEEE" & Project Exhibition. Seminar covering the topics "Adaptive Cruise Control", "Anti-Locking Braking System" and "Building Security System"

More in Page 15 in LINK-1605

## Sri Venkateswara College of Engineering, Chennai



 $30^{\text{th}}$  Apr 2016: Arduino workshop

29<sup>th</sup> Apr 2016: Guest lecture by Mr. Rajasekar, Director IT, Lantrasoft on 'The Trending Engineering Practices'.

More in Page 18 in LINK-1605

#### St Joseph's College of Engineering, Chennai

13<sup>th</sup> Feb 2016: lecture on "Concepts of Embedded System" by Mr. G.S. Ayyapan, Senior Scientist, CSIO-CSIR.

More in Page 22 in LINK-1604

All progress takes place outside the comfort zone.
-- Michael John Bobak

#### **Sastra University**

 $8^{\rm th}$  Apr 2016: IEEE SB in association with SANKALP (Technical fest of SASTRA) conducted a Tech Quiz to encourage the technical knowledge of the students.

VV Chronicle: IEEE SB has started an initiative that sends electronics-related articles and research papers through e-mail to the interested students twice a week.



8<sup>th</sup> & 9<sup>th</sup> Apr 2016: Eight IEEE SB members participated in IEEE Chennai Hub Congress (CHC 2016) hosted by SB of Jeppiaar Institute of Technology, Chennai.

More in Page 9 in LINK-1605

# Thiagarajar College of Engineering, Madurai



17th Mar 2016: Technical Connexion Contest

22<sup>nd</sup> Mar 2016: Paper presentation contest

17<sup>th</sup> Feb 2016: Tech talk series event

23<sup>rd</sup> Mar 2016: InfoMeet, DemoTask and Virtual Info, Paper, Project and Animation Contests.

More in Page 22 in LINK-1604 and Page 11 in LINK-1605

## Velammal Engineering College, Chennai



23<sup>rd</sup> Jan, 2016: One-day Workshop on topic '-Research Prospective – An insight to Proposals and Patents'

1<sup>st</sup> - 5<sup>th</sup> Feb, 2016: One-week value-added course on topic 'MATLAB for Engineers'

4<sup>th</sup> Apr 2016: WIE chapter inauguration.

More in Page 11 in LINK-1606

## IEEE Professional Communication Society

23<sup>rd</sup> Jan 2016: Talk on "Trends and Ideas for the Technology Entrepreneur" by Mr. Dorai Thodla.

6<sup>th</sup> Mar 2016: CSI Day Celebrations including presentation of student projects and ICT Quiz.

14th Mar 2016: Talks on "Life as Software Engineer" and "Final year CS projects" by Dr. Jey Veerasamy, Director of Center for Computer Science Education & Outreach, CS Teaching Faculty, University of Texas at Dallas, USA.

23<sup>rd</sup> Mar 2016: Presentation on "Strategies for Effective Business Communication" by Mr. G. Thirumurugan, Managing Director, Rakshashe.com at Chennai.

23<sup>rd</sup> Mar 2016: Leadership Session on "Grow from a Functional Leader to a Business Leader" by Mr. V. Ramanathan, Management Consultant at Chennai.

20<sup>th</sup> Apr 2016: Presentation on "Life Career Fundas: LCF 101" by Mr. Deepak Mirza, Recipient of President's "Swarn Kamal" Award.



4<sup>th</sup> Jun 2016: Release of the book "Software Project Management" authored by Mr. S. Ramanathan by Mr. S. Mahalingam, Former CFO & Executive Director of TCS with the chairs of IEEE CS, PCS, TEMS and CSI Chennai.

4<sup>th</sup> Jun 2016: Presentation on "Managing Expectations - Essence of Software Project Management" by Mr. S. Ramanathan.

More in Page 23 in LINK-1605 & Page 15 in LINK-1606

### Women in Engineering (WIE) AG Activities

27<sup>th</sup> Feb 2016: STAR Programme: TechFest – 2016, was organized at Saveetha University for the benefit of Diploma College students, on 27<sup>th</sup> Feb 2016.



12<sup>th</sup> Mar 2016: Women's Day and Volunteers' Orientation Programme at at St. Joseph's College of Engineering, Chennai.

More in Page 25 in LINK-1604

#### **IEEE Computer Society**

23<sup>rd</sup> Mar 2016: Presentation on "Strategies for Effective Business Communication" by Mr. G. Thirumurugan, Managing Director, Rakshashe.com at Chennai.

23<sup>rd</sup> Mar 2016: Leadership Session on "Grow from a Functional Leader to a Business Leader" by Mr. V. Ramanathan, Management Consultant at Chennai.

26<sup>th</sup> Mar 2016: Half-day workshop on "Software Architecture". at Chennai.



29<sup>th</sup> Mar 2016: Technical Talk on "Digital India, Make in India, Skill India & Start-up India" by Mr. H.R. Mohan, Vice Chairman, IEEE Madras Section, Chairman, IEEE CS & PCS at Francis Xavier Engineering College, Tirunelveli.

4<sup>th</sup> Apr 2016: RSS DAS'16 -- Research Scholar's Symposium on Data Analytics and Security at SSNCE, Chennai.

22<sup>nd</sup> Apr 2016: Presentation on "CMMI - Future Direction, Relevance in Modern Day Products & Services" by Kirk Botula, CEO, CMMI Institute (USA).



20<sup>th</sup> Apr 2016: Presentation on "Life Career Fundas: LCF 101" by Mr. Deepak Mirza, Recipient of President's "Swarn Kamal" Award.

11<sup>th</sup> May 2016: Presentation on "Communication Systems in Indian Railways: Today and Tomorrow" by Mr. R. Baskaran, Group General Manager, RailTel Corporation of India Ltd, Chennai.

More in Page 23 in LINK-1605

## SRM University, Ramapuram Campus, Chennai



26<sup>th</sup> Mar 2016: One-day workshop on "Neural Network, Fuzzy Logic and its Applications to the Engineering Problems".

More in Page 21 in LINK-1604

#### **IEEE MAS LINK congratulates**

- Mr. S. Sellakumar, Counsellor, IEEE SB at Jeppiaar Engineering College, Chennai for having wond the third prize in R10 Website Contest organised by the IEEE Region 10 Student Activities Committee. The SB gets a cash prize of USD 200 and a certificate.
- The winners of the MAS LINK READERS QUIZ-1603 -- Mr. V. Sudarsan, Student Member, SASTRA University & Dr. R. Ramaprabha, Professional Member, SSN College of Engineering who will get Amazon Gift Coupon of value Rs. 500/= from IEEE PCS Madras Chapter.
- The winners of the MAS LINK READERS QUIZ-1604 -- Mr. M. Jawahar, Student Member, MEPCO Schlenk Engineering College, Sivakasi & Dr. K. Porkumaran, Professional Member, Dr. N. G. P. Institute of Technology, Coimbatore who will get Amazon Gift Coupon of value Rs. 500/= from IEEE Computer Society Madras Chapter.
- The winners of the MAS LINK READERS QUIZ-1605 -- Mr. Arun Srivastava, Professional Member, Leeyo, Sivakasi & Dr. P. Sakthivel, Professional Member, Anna University, Chennai who will get Amazon Gift Coupon of value Rs. 500/= from IEEE Communications Society Madras Chapter.
- The following Members for having been elevated to Senior Member grade in 2016 (till Apr).

Babu K N Dinesh

C Venkatesh

Das Sukhendu

Jayaparvathy R

K Sivasankaran

Karuppannan Sundararaju

 $Krishnan\,Kothalam\,Nagarajan$ 

Manoharan Arumugam

Nagamani Chilakapati

Nandivada V Krishna

P Vijayalakshmi

PS Mayurappriyan

Pudhupallayam Murugeasan Beulah

R Ramaprabha

Radha S

RajiniVeeraraghavalu

S Joseph Gladwin

SArumugam

S Malarvizhi

S Vijayalakshmi

Shanmugam Paramasivam

Sivakumar R

Sivarajan Ganesan

Thiripurasundari D

Uppu Dr. Ramachandraiah

Vijayan Thulasi

VP Sampath

#### **Information Resources**

The A-Z of computer and data security threats: Whether you're an IT professional, use a computer at work, or just browse the Internet, this book is for you. We explain the facts about threats to your computers and to your data in simple, easy-to understand language. https://goo.gl/XHRbJb

Top 10 IoT Platforms: In simple words the purpose of any IoT device is to connect with other IoT devices and applications (cloud-based mostly) to relay information using internet transfer protocols. The gap between the device sensors and data networks is filled by an IoT Platform. Such a platform connects the data network to the sensor arrangement and provides insights using backend applications to make sense of plethora of data generated by hundreds of sensors. In light of the possibilities that internet of things is offering tech companies has started capitalizing it. There are many IoT platforms available now that provide option to deploy internet of things applications on the go. While there are hundreds of companies and a few startups venturing into IoT platform development, players like Amazon and Microsoft are way ahead of others in the competition. Read on to know about top 10 IoT platforms you can use for your applications. http://goo.gl/sta8dJ

Master these 10 processes to sharpen your project management skills: The bigger and more complex a project gets, the more you need formal processes and techniques to effectively manage the work. Project management expert Tom Mochal explains the purpose, value, and implementation of the most critical aspects of successfully managing a project. http://goo.gl/SDshdM

7 lessons start-ups can learn from the Armed Forces: The fundamental definition of warfare is 'more contenders with less resources'. Interestingly enough, it is also the fundamental definition of a business. Raghu Raman in his recent TEDx talk in Goa taught 7 lessons that a startup can learn from an army and succeed. He said there is a single tool to make this lesson easy. The tool is simple, the Z KIT bag that an army carries. This tool has been used worldwide to understand complex problems. "This framework can be used to write a term paper or used for your startup to scale up," said Raghu. Here it begins with each alphabet. http://goo.gl/f8aGRg

25+ Alternative & Open Source Database Engines: Almost every web developer has a favorite database that he/she feels comfortable working with as all the tricks & gimmicks are already experienced. It can be one of the popular databases below: MySQL; PostgreSQL; MSSQL; SQLite; MS Access or even simpler ones like XML, text, etc. It is understandable why these databases are frequently used; they

are well-documented, have a community behind them, integrated with most popular CMSs', easy-to-use, offered by most of the hosting companies ,etc.. But there are also many other databases which are getting popular day-by-day & may have advantages over what you're already using. Here are 25+ open source alternative databases that you may consider using in your next project: http://goo.gl/fEiAjU

Your questions answered on artificial intelligence: Artificial intelligence and robotics have enjoyed a resurgence of interest, and there is renewed optimism about their place in our future. But what do they mean for us? Some questions about artificial intelligence and robotics, and the answers by the Conversation's experts. https://goo.gl/KoVu7g

Teaching Pack: Artificial Neural Networks: This teaching pack from Computational Intelligence Society is designed to introduce artificial neural networks to 14 to 18 year olds. The pack comprises: An interactive power point presentation which examines how we learn using our brain and examines, what exactly is an artificial neural network?; Provides a basic introduction to how an artificial neural network learns; Introduces a simple Eyeball Neural Network and associated activity- how does the network learn to detect apples?; and A hands-on classroom activity where you get to identify features and classify items in a bag. http://goo.gl/0mKmdP

**IoT Programming Languages You Must Know:** Internet of Things projects attracts many beginners and students. Ability to connect physical objects to create an easy human experience is a tremendous achievement in its own. For any IoT project the choice of the software and hardware is a tough call. Where selection of hardware can be truly cumbersome, choice of a language to program IoT is also not an easy call. Here we list top 10 IoT programming languages you can get started with. http://goo.gl/CYo6tZ

100 IoT Open Source Development Tools And Resources: Reasons for the popularity of the IoT open source development tools are the community of users. This community wants to have the open market for utilizing consumer technology devices and not to be dominated by a single vendor. Another reason of going open source is to provide an ecosystem where the IoT devices and applications developed can be integrated without hassles and many efforts. Finally going open source means your device or application can support numerous vendors as you will not be developing code for any specific vendor. Internet of Things (IoT) open source development tools are mostly developed by the open source community which had worked from early on in the IoT domain. You can deploy the IoT applications making use of these tools sooner than ever before. If you are beginning to build your first internet of things application then this open source tool guide is exclusively for you. Here we list 100 most widely used and reliable open source tools for developing IoT apps. We have tried our best to include IoT hardware platforms, development tools, software, integrations tools, operating systems and monitoring tools. http://goo.gl/yOqobn

Online (Mostly Free!) IoT courses You Should Know: In the realm of Internet of Things every physical object will be connected. From home appliances to security systems to healthcare devices, this tech is going to be part of our lives. Have you ever wonder what impact it is going to create on the job sector. Opportunities are endless and you can become not only a learner and innovator but also a highly successful entrepreneur if you utilize the listed IoT courses curriculum wisely. Previously when .com era created millionaires by dozens a years, hardware and software tools were extremely expensive. However not anymore you can start building some serious IoT applications from using boards costing just \$9. IoT platforms available these days are extremely versatile. All you need to do is to make use of information available to work on embedded systems. There are many internet of things courses available online both for free and with fee. Check out the latest available IoT courses that can help you to specialize in the connected world components to build new age IoT applications. http://goo.gl/2fecNP

**10 ways mobile devices are changing society:** Humanity is evolving in many ways thanks to mobile devices. But are all the changes for the better? http://goo.gl/aUJTwE

Special Report on Startups: Engineering and entrepreneurship in many ways go hand in hand. IEEE members have for decades been at the forefront of turning their ideas into successful businesses. In this issue, we present IEEE's efforts to attract more entrepreneurial types to the organization and to support members' ventures through online resources, networking events, and more. A venture capitalist whose companies have never failed shares his advice with engineers who want to turn their business or product ideas into reality. We also feature several members behind some of today's hottest startups and delve into the humble beginnings of Microsoft, Hewlett-Packard, and other multibillion-dollar companies. http://goo.gl/aP0XqI

The top 10 projects to try out with your Raspberry Pi 3: If you snapped up one of the more than 200,000 Raspberry Pi 3's available at launch, you might be wondering just what you can do with a \$35 computer. Here are 10 projects to get you going with the Pi 3 - some that make the most of the board's more capable hardware, some that are classic uses for the Pi and others that are just plain fun. http://goo.gl/VKgQG9

10 ways mobile apps are bringing breakthrough technologies to business: The best mobile apps are giving companies unprecedented efficiency, convenience, and the ability to deliver a topnotch customer experience. Tens of thousands of mobile apps have been deployed by companies in the past three years. What we've learned from these deployments is that certain application scenarios are head and shoulders above others in terms of their usability and their ability to make a difference in the business.

Compiled by
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#### **IEEE Madras Section Student Project Funding (SPF 2015-16)**

IEEE Madras Section SPF 2015-16 called for proposals from the various student branches. The received proposals were shortlisted for preliminary evaluation and recommended for the final project submission. The final project demo and validation by the students was carried out at the IEEE Madras Section on 7<sup>th</sup> May 2016. The projects funded include the following:

S. No.	Project Title	Name of the Student	Name of the College	Amount Funded
1.	Life Protector Robot for Child in the Borehole	A.S. Hemnath Kowshick G. Barath Vignesh A. Balachandran R. Gayathri	Knowledge Institute of Technology	5000/-
2.	Evaluation of Anti-cancer Properties of Lichens using Experimental Rats as an Animal Model for Biomedical Applications	V. Vishnu Priyan G. Gayathri N.S. Yoka Barrathi K. Dheenadhayalan	K.S.Rangasamy College of Technology	15000/-
3.	Automatic Fall Detection for the Elderly People using Motion Sensing	D. Sharmila S. Lukeman Hakkim	Sri Ramakrishna Engineering College	7000/-
4.	Torque Ripple and Harmonics Reduction in BLDC drive using SVPWM Cascaded Multilevel Inverter	K. Haripriya R. Jeevabharati G. Nandini S. Piyanga	Dr.N.G.P. Institute of Technology	5000/-
5.	Development of Biomedical Remote Data Logging System with Raspberry Pl Based Embedded Webserver.	S. Ranjith T. Poopal	Jeppiaar Institute of Technology	3000/-
6.	Automated Wheel Chair using Sensor Networks	N. Srividya V. Soniya	SSN College of Engineering	15000/-
7.	Intelligent Accident Alert and Safety System using GSM.	M. Premihaar N.P. Ria	Panimalar Institute of Technology	2000/-
8.	Realtime Public Road Transport Information & Monitoring System	R. Kiran M. Sathya S. Surendran M. Vikram	Dr.N.G.P. Institute of Technology	5000/-
9.	Internet of E&E Appliances	M.S. Saravanan Mohammed Burhanuddin Dadni	Panimalar Institute of Technology	10000/-

#### **Announcements**

**Group Medical Insurance:** IEEE members residing in India are now eligible to subscribe to IEEE-supported group medical insurance. The new, exclusive insurance program will provide comprehensive medical benefits for eligible members and their families, including members' parents or inlaws. Ongoing IEEE membership will be required in order to renew the insurance every year. Learn more about the IEEE Group Medical Insurance from http://www.ieee.org/membership\_services/membership/discounts/group insurance.html

Career Opportunities in IEEE Collabratec: Leverage the benefits your IEEE Membership offers to advance your career. Upload your resume/CV and complete your employment preferences to be discovered by organizations seeking talent. Employers are looking for qualified candidates to fill their open technology positions. Explore your career opportunities in IEEE Collabratec today at http://ieee-collabratec.ieee.org

**Join exclusive IEEE Collabratec communities:** Joining Communities on IEEE Collabratec allows you to stay connected with others who share similar interests. Contribute to group discussions, ask questions of your peers, or share content that others might be searching for. Join these communities.

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CareersConnect - India at

https://ieee-collabratec.ieee.org/app/community/72

IEEE Membership Forum at

https://ieee-collabratec.ieee.org/app/community/80/activities

**Group Challan Payment Option for IEEE membership:** IEEE is officially launching the Group Challan payment option for student branches, institutions, and any individual or organization that wish to make group payment for IEEE Membership(s) using Indian Rupees. For further details and instructions on the Group Challan payment option, please visit https://www.ieee.org/membership\_services/membership/rupee\_join\_option.html

If you have any additional questions or concerns, please direct them to groupchallan@ieee.org

#### Editorial Team

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**Upgrade to Senior Member Grade:** If you are not yet become a senior member, pl. visit the webpage on "Become an IEEE Senior Member" at http://www.ieee.org/membership services/membership/senior/index.html

New IEEE Smart Cities MOOC: Big Data for Smart Cities: Cities run on a stream of data. In the smart city, the innovative use of data helps provide better and more inventive services to improve people's lives and make the entire city run more smoothly. But the data our cities collect nowadays is more massive and varied, and is accessed at higher speeds than ever before. This is Big Data. New technologies are constantly being developed to better manage Big Data. This computer science course, from the IEEE Smart Cities initiative and the University of Trento, helps students understand and use these new technologies to help improve a city. Learn more and enroll today at edX.

**Return-To-Work:** Any of your friends or former colleagues ready to resume her career after a break? eWIT has recently launched Return-To-Work program. Several organizations like, iNautix Technologies, Virtusa-Polaris, Sutherland Global, Fifth Generation Technologies, Maarga Systems, RR Donnelley have come forward to support this initiative. There are many openings, in different functional areas. Experience, career break and wanting to resume one's career are the only prerequisites to apply. For registration link visit eWIT website home page www.ewit.co.in

For clarifications, please write to admin@ewit.co.in or call 044-42120706.

**How IEEE Helps Entrepreneurs:** Pramod Abichandani, IEEE member and CEO/founder of Locorobo, discusses how IEEE helped him launch his concept for low-cost educational robotics into a viable company. See the video at http://ieeetv.ieee.org/ieeetv-specials/how-ieee-helps-entrepreneurs

**IEEE Madras Section is recognized for retention goal:** Mr. Antonio Luque, Chair (2016), IEEE Membership Recruitment and Recovery Committee has sent a communication to the Chair, IEEE Madras Section recognizing the Section for meeting its retention goal for the 2016 membership year. The membership development goals were developed based on the Section's four year performance. We have been commended for continuing to grow the IEEE membership in the Madras Section. In recognition of this achievement, an image is presented to us for placing in our e-mail signature and in the Section website and newsletters, which signifies the outstanding achievement for the 2016 membership year.

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