



THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION
ENGINEERS
IETE BUILDING, BELLARY ROAD, GANGANAGAR EXTN.
BENGALURU – 560 032

Annual Report 2018-19

On behalf of the Chairman and Members of the Executive Committee I present this Annual Report of your Institution with great pleasure and pride.

I am glad to inform you that the current Executive Committee of the Bengaluru Centre has followed in the footsteps of the previous Committee and maintained the pace of activities.

The most important technical activity of 2018-19 has been the holding of the International Conference on IOT, Big Data Analytics & 5G on 14th & 15th December 2018. It was held at the prestigious UR Rao Satellite Centre (URSC) with the kind support of Dr. K Sivan Chairman ISRO and Shri. P Kunhikrishnan, Director URSC. The event was planned and executed successfully by the team led by Shri. G Ramesh, Conference Chair (Chairman 2016-18), Prof HS Bhatia, Chairman (2018-20) and other members of the Executive Committees, 2016-18 and 2018-20.

Other important events during the year are detailed in this Report and we were fortunate to have the presence of many distinguished persons as guests at our programs. We are making every effort to reach out to all members and invite everyone and we hope that you will attend all our programs enthusiastically and lend your support to make them successful.

In an effort to provide a platform for interaction with our members and well-wishers we launched an in-house IETE Bengaluru Magazine on “Engineers Day”, 15th Sept 2018 and four quarterly editions have been published so far and we are continuing this activity which has received acclaim from readers. All issues are available on our website ietebblr.in

The Executive Committee held its meetings regularly, mostly on the Second Saturday of every month and took decisions in a cordial atmosphere. Whatever work we were able to accomplish was due to the camaraderie among us. We are, however, yet to fully achieve the targets set for ourselves and are working tirelessly towards our goal under the captaincy of the Chairman Prof. HS Bhatia.

Our membership has been growing and again this is due to the combined effort of all the Executive Committee Members including those of the previous Committee.

Some of the important technical activities and events held at the Centre are detailed below:

1. **30-06-2018:** Prof. N S Nagaraja Memorial Lecture was conducted after Annual General Body Meeting (AGM-2018). Prof. P R Mahapatra, IISc, Bengaluru delivered a Prof. N S Nagaraja Memorial lecture on “Safe & Sure Navigations”. Prof. H S Bhatia, New Chairman of IETE Bengaluru Centre proposed the presidential remarks.
2. **23-07-2018:** An FDP program was conducted by Department of Electronics & Communication Engineering of Sri. Venkateshwara College of Engineering, Bengaluru. Prof. H S Bhatia, Chairmman, IETE Bengaluru Centre was the chief guest. The Objectives of organizing this seminar was to ascertain the novel and updated concepts of 5G Wireless communication. The program was attended by 120 students and nearly 30 faculty members.



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3. **23-07-2018:** A Faculty Development Program on “RF Circuits and Systems” was jointly organized by the Departments of Telecommunication Engineering and Electronics & Communication Engineering at Ramaiah Institute of Technology, Bangalore during 23rd to 28th July 2018. It was technically supported by IETE Bangalore Centre, IEEE Sensor Council, Bangalore chapter, and IMAPS India.
4. **30-07-2018:** SVCE organized one day technical seminar on “Introduction to Human Values” at SVCE, Bengaluru campus on Monday, 30th July 2018. The objective of this program was enlightening the human values in technical education. The seminar helped the student’s personality development on a large scale. This program organized for benefits of large number of faculty community from various colleges.
5. **15-09-2018:** IETE Bengaluru Centre celebrated “Engineers Day” on Saturday, 15th Sept 2018 at Centre. Sri. Anil Kumar M, Dy. Director General, Marketing Division, Prasar Bharati, the Chief Guest delivered a talk on “Digital Terrestrial Television-Solution for Infotainment on the Move” which was well received by the audience. On this occasion the 1st Edition of “IETE Bengaluru Magazine” was launched. Dr. M H Kori is Chief of the Editorial Board. Prof. B S Sonde, Former ViceChancellor, Goa University & Past President IETE and Prof. (Dr.) K T V Reddy, President IETE blessed the Magazine. Sri. C Satyanadan, Hon Secretary, IETE Bengaluru welcomed the audience and introduced the Chief Guest. Sri. G Ramesh, Immediate Past Chairman spoke about the importance of Engineer’s Day. Prof. H S Bhatia, Chairman, IETE Bengaluru gave the presidential remarks and Sri. B N Jagannatha Rao, Hon. Treasurer, IETE Bengaluru proposed the Vote Of Thanks.
6. **14-10-2018:** A workshop on “DSP: Principles and Practice” was organized by IETE Bengaluru Centre in association with Department of ECE, Ramaiah Institute of Technology, Bengaluru and IMAPS India Chapter at RIT Campus. The inauguration ceremony was graced by Prof. Bhatia, Chairman, IETE Bengaluru Centre, Dr. M H Kori, Chairman, IMAPS India Chapter, Dr. S SethuSelvi, HOD, Dept of EC, RIT, Bengaluru, Dr. Ashok Rao, Former Professor, IISc, Bengaluru, Sri C.P. Dwivedi, Vice-Chairman, IETE Bangalore and Prof. C G Raghavendra Executive Committee member, IETE Bengaluru Centre. The workshop was focused on training the students, faculties and industry experts working in the area of signal processing.
7. **22-10-2018 to 27-10-2018:** A 6 day course on Modern Radars was conducted at Nalanda, BAE, for executives of Bharat Electronics Limited, Bengaluru. The faculty members were drawn from DRDO. Dr. D C Pande was the course director and Prof. H S Bhatia, Chairman, IETE bengaluru Centre the course coordinator.
8. **28-10-2018:** A One Day workshop on Internet of Things (IoT) and its Applications was organised at IETE Bengaluru Centre by Prof. G K Venkatesh, Executive Committee Member in association with SJCIT, Chickaballapur and IndustryConnect Technologies, Bengaluru. Sri. C Satyanandan, Hon. Secretary, IETE Bengaluru Centre inaugurated the workshop. Prof. C Murali the first speaker covered the basics of IoT and WSN. Sri. M Sukumar, Principal Consultant, Industry Connect Technologies gave a brief talk about basics of Industrial



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Automation and IoT. Sri. Abhay Bharadwaj, Head – Operations & Training, Frugal Labs Tech Solutions Pvt. Ltd. delivered a talk on industry evaluations and Introduction to IoT & Industrial IoT. Prof. H S Bhatia, Chairman, IETE Bengaluru Centre distributed the certificates to the participants.

9. **02-11-2018:** IETE foundation day was celebrated on Friday 02nd Nov 2018 at IETE Bengaluru Centre. Dr. Subrata Rakshit, Associate Director (Technology), Centre for Artificial Intelligence and Robotics (CAIR), DRDO, Bengaluru delivered the IETE-NV Gadadhar Memorial lecture on “Challenges and Development of Robotics Applications”. Prof. C. Murali, Past Chairman IETE Bengaluru Centre and Recipient of IETE - B R Batra Memorial Award delivered a foundation talk on “Green IoT for Smart World”. Sri. C Satyanandan, Hon. Secretary, IETE Bengaluru Centre welcomed the gathering and read the President’s message. During the celebrations, three senior members of IETE WgCdr HR Parthasarathy (Retd.), Dr. K Soundarajan and Sri. A B Srinivasan were felicitated. They shared their experiences of life and gave valuable suggestions to members present for the growth of the Centre. Chairman, Prof. H S Bhatia presided over the function and Sri. B N Jagannatha Rao, Hon. Treasurer proposed the vote of thanks.
10. **08-12-2019:** A One Week FDP on “Applications and Hands-on Practice in Machine Learning” sponsored by IETE, Bengaluru was conducted by Department of ECE, Sri Venkateshwara College of Engineering (SVCE) for faculties of various institutions from 8th January 2019 to 12th January 2019.
11. **14-12-2019:** IETE organized the first ‘IETE International Conference India - 2018’ (iici-18), on “Technological Advances & Applications in IOT, Big Data Analytics & 5G” on 14th & 15th Dec 2018 at U R Rao Satellite Centre (ISRO) Bangalore. The conference covered not only each individual technologies and their new developments but also discussed the interplay and benefits of the convergence of these three technologies. iici-18 created a platform for experts in these domains to come together and exchange their research and developments. It also provided opportunities for industries and startups to exhibit and announce their new and innovative products, ideas and concepts.

A Pre-conference Tutorial was held on 13th December ‘18 at IETE Bangalore Centre

The conference was inaugurated on 14th Dec 2018 at 9.30 am by Dr. K Sivan, Chairman ISRO at UR Rao Satellite Centre’s Satish Dhawan Auditorium. Padmashri AS Kiran Kumar, former Chairman ISRO was the Guest Of Honour and Prof.(Dr.) KTV Reddy, President IETE, presided over the inaugural function. Shri. P Kunhikrishnan Director URSC and General Chair IICI 18 delivered the welcome address. Shri. G Ramesh Conference Chair, Shri. Ganga Prasad Conference Technical Chair and Shri. Bogdan Baranga from PTC Inc. participated.

The IICI-18 Exhibition, in which many industries and organizations participated, was inaugurated by the ISRO Chairman.



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Technical Sessions were held post inauguration on 14th Dec and continued on 15th Dec. Shri Vipin Tyagi, Executive Director C-DOT, delivered the Keynote talk. Several leading industry experts gave Invited talks covering many aspects of IOT, Big Data Analytics & 5G. Contributed papers in these domains were also presented during these two days. A panel discussion was organized on the theme “Convergence of Technologies – IOT, Big Data Analytics & 5G”. Experts from the industry expressed their views on the topic. Dr M H Kori moderated the panel discussion. The iici-2018 conference concluded with a valedictory function on 15th Dec evening.

12. **13-01-2019:** A course on Advanced FPGA Design was started by Sri. Anil Kumar T S. 10 students from engineering colleges and LRDE, DRDO attended. Sri. C P Dwived, Vice-Chairman, IETE Bangalore was the course director.
13. Republic Day was celebrated at IETE Bangalore with Flag Hoisting by Dr. Surendra Pal Past President IETE.
14. **10-02-2019:** IETE Student Day was celebrated at IETE Bangalore on 10th Feb. 2019. The inaugural session started at 2 pm with a welcome address by Prof. CV Ravishankar, Member Executive Committee. Shri. Satyanandan Hon. Secretary read out the Student Day Message from Dr. KTV Reddy, President IETE. Dr. MH Kori DFIETE gave a brief introduction of the Student Day and Prof. GK Venkatesh Member Executive Committee described the program in detail. Prof. HS Bhatia Chairman gave a short Presidential Address.

The program consisted of a Quiz competition in which groups of students from various engineering colleges took part and a 'Pick & Speak' Competition. Students picked topics at random and spoke on them. Prof. GK Venkatesh was the moderator of the competitions. At the end of the program certificates were distributed to the participants and the winners by the Chairman and other Members. Shri. KS Ravi Member, Executive Committee proposed the Vote of Thanks. The whole program was compered and conducted by student volunteers assisted by IETE Bangalore staff.

15. **28-02-2019:** IETE Bangalore celebrated the National Science Day 2019. Dr. VR Lalithambika Director, DHSP, ISRO HQ, Bangalore was the Chief Guest and delivered the 23rd Sir CV Raman Memorial Lecture on the topic ‘Space Exploration’. Prof. BS Sonde, eminent scientist and Past President IETE who was the Guest of Honour delivered a speech on the contributions of Sir CV Raman.

The programme began with a Welcome Address by Shri. C Satyanandan, Hon. Secretary. Shri. CP Dwivedi, Vice Chairman read out an introduction of the speakers and Prof. HS Bhatia, Chairman presided.

Prof. BS Sonde in his address said that the discovery of Raman Effect by Sir CV Raman brought about a resurgence of scientific research in our country and National Science Day is being celebrated in honour of this discovery, since 1988, his birth centenary year. Raman was awarded the Nobel Prize in Physics in 1930 two years after the discovery.



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Prof. Sonde enlightened the audience about some facts about the genius of CV Raman. Raman became the Director of Indian Institute of Science Bangalore in 1933, the first Indian to occupy the post which he held until 1937. Raman set up the Dept. of Physics at IISc. for the first time. He established the Indian Academy of Sciences in 1934. After his term as Director he continued his research career as a Professor. Raman was an Institution builder and a patient experimenter, said Prof. Sonde. He set up the Raman Research Institute and headed it until his death in 1970. Prof. Sonde joined the IETE community at Bangalore in paying homage to the great soul on the National Science Day 28th Feb. 2019.

Dr. VR Lalithambika Chief Guest then delivered the Sir CV Raman Memorial Lecture on Space Exploration. She made a parallel with early terrestrial explorations. Explorers have been pushing the boundary and wanting to do what none has done before. She mentioned the unmanned flights of the 1950's, sending voices across solar system, orbiting of humans around earth and moon landing. She also described the technical challenges in space exploration. Comparing rockets with commercial aircraft, she said there are huge differences in payload and fuel requirement. There were hazards too, like debris floating around earth, both natural and man-made. She predicted that interstellar travel can become a reality in about half a century. Communication with the spacecraft and autonomy of equipment on board are among the many technical challenges. Also, effects of time on human body while in Space and psychological effects have to be studied in depth before sending humans into space, she said.

At the end of the CV Raman Memorial Lecture, the third edition of 'IETE Bengaluru Magazine' was released by the distinguished guests. Dr. MH Kori, Chairman of the Editorial Committee spoke about the current and previous editions of the Magazine and the forthcoming issues.

Prof. HS Bhatia, Chairman gave a brief Presidential speech. Shri. G Ramesh, Immdt. Past Chairman spoke on IETE Bangalore's interaction with other institutions in the city.

16. **31-03-2019:** IETE Bangalore Centre conducted one day workshop on "Signals & Systems with its Applications" for students. Sri. C Satyanadan, Hon. Secretary, IETE Bangalore inaugurated the workshop. Dr. D G Rao, Sc'E', LRDE, DRDO and Member of Executive Committee, IETE Bengaluru was the Chief Guest. Prof. G K Venkatesh was the Course Director.
17. **28-04-2019:** The inaugural programme of the "Summer School In Electronics & Computers (SUSIEC-2019) was held on Sunday, 28th April 2018 at 1100 Hrs. at IETE Bengaluru Centre. It was inaugurated by Shri. P Radhakrishnan Outstanding Scientist & Associated Director, LRDE (DRDO) Bangalore, the Chief Guest. Shri. Rabindra Srikantan MD, ASM Technologies Ltd. was the Guest of Honour.

The welcome address was given by Shri. Satyanandan, Hon. Secretary. Dr. CV Ravishankar, Couse Director, SUSIEC'19 introduced the Chief Guest who spoke on Electronics and its applications. The Guest of Honour Shri. Rabindra Srikantan distributed tool kits to the



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students. Prof. HS Bhatia, Chairman presided and Shri. Jagannatha Rao Hon. Treasurer proposed the Vote of Thanks. About 60 students registered for the programme. Students and their parents attended the inaugural function.

18. **17-05-2019:** World Telecommunications & Information Society Day was celebrated at IETE Bangalore on 17th May 2019. Sri. N Janardhana Rao ITS, Principal General Manager Bangalore Telecom Dist. BSNL was the Chief Guest. Dr. MH Kori, Past Chairman IETE Bangalore delivered the Theme Lecture on 'Bridging the Standardisation Gap'.

The program commenced with a welcome address by Sri. C Satyanandan, Hon. Secretary who also introduced the Chief Guest. Sri. CP Dwivedi, Vice Charman read out the messages from Secretary General ITU and President IETE. Prof. HS Bhatia Chairman presided and Sri. KS Ravi Executive Committee Member proposed the Vote of Thanks. The IETE Bengaluru Magazine 4th edition was released on the occasion by the Chief Guest.

19. **19-05-2019:** The Valedictory Function of "SUSIEC 2019" and Dr. S Srikantan Memorial Awards was held at 1600 hrs. Prof. BS Sonde was the Chief Guest. Shri. Rabindra Srikantan Managing Director ASM Technologies Ltd. Bangalore and Dr. MVKV Prasad, Director ADE were the Guests of Honour.

Shri. C Satyanandan, Hon. Secretary welcomed the Chief Guest and Guests of Honour as well as the gathering. Shri. CP Dwivedi, Vice Chairman introduced the Chief Guest and the two Guests of Honour.

Prof. BS Sonde traced the early days of IETE Bangalore which became a full-fledged Centre in 1969. He recalled the services rendered by Prof. SVC Aiya and Prof. K Srinivasan and how the idea of SUSIEC was born. In 1974, the 100th year of Marconi's invention of the Radio the foundation stone of the present building was laid, and the construction was completed in 1985 with the efforts of late Dr. S Srikantan and Dr. RP Shenoy.

Prof. Sonde congratulated the students, parents and the Faculty involved and complemented the Course Director, Executive Committee and staff of IETE Bangalore and the Patron Dr. Rabindra Srikantan, MD of ASM Technologies Ltd.

Dr. Rabindra Srikantan expressed his happiness at the way the course was conducted and thanked IETE Bangalore for associating him and ASM Technologies.

Dr. MVKV Prasad congratulated the students and their parents for their active participation and expressed his appreciation of the efforts of IETE Bangalore and ASM Technologies.

Dr. CV Ravishankar, Course Director read out the names of the Prize winners and names of all those who participated in making SUSIEC 19 a success. Certificates were distributed to them by the distinguished Guests. Prof. HS Bhatia, Chairman delivered the Presidential Address and Shri. Jagannatha Rao, Hon. Treasurer proposed the Vote of Thanks.



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Other events

1. **15-08-2018:** Independence Day Celebrations. Flag hoisting was done by Padmashri AS Kiran Kumar Former Chairman ISRO. Dr. Kiran Kumar had a lively interaction over breakfast with IETE Bangalore members after Flag hoisting.
2. **29-09-2018:** The Department of Public Health Dentistry of Sri. Rajiv Gandhi Dental Sciences College and Hospital, Bengaluru organized a camp of “Free Dental Check Up” at IETE Bengaluru Centre for the benefit of our members. Shri. Dinesh of IETE Bengaluru coordinated the same.
3. **13-12-2019:** IETE Governing Council Meeting was held at IETE Bangalore.
4. **26-01-2019:** Republic Day Flag Hoisting was done by Prof. Surendra Pal, Past President IETE, who interacted with the members over tea.

Short Term Courses

1. **22-08-2018 to 24-08-2018:** IETE Bengaluru Centre conducted a course on “Passive and Active Phased Array Antennas” for BEL Executive at Nalanda-BEL Academy for Excellence, Bengaluru for 3 days. Dr. D C Pande, Former Chairman, IETE Bengaluru was the course director and Prof. H S Bhatia, Chairman, IETE Bengaluru was the course coordinator. All faculty was drawn from working Scientists at LRDE, DRDO, Bengaluru.
2. **02-09-2018:** IETE Bengaluru Centre started a weekend course on “MATLAB/SIMLINK”. Participants were from various private and government organisations. Classes would be held only on Sundays for 8-10 weeks at Centre. Dr. Shivaprasad Yadav is a resource person for this course.
3. **22-10-2018 to 27-10-2018:** A 6 day course on Modern Radars was conducted at Nalanda, BAE, for executives of Bharat Electronics Limited, Bengaluru. The faculty members were drawn from DRDO. Dr. D C Pande was the course director and Prof. H S Bhatia, Chairman, IETE Bengaluru Centre was the course coordinator.
4. **13-01-2019:** A course on Advanced FPGA Design was started by Sri. Anil Kumar T S. 10 students are attending from engineering colleges and LRDE, DRDO. Sri. C P Dwived, Vice-Chairman, IETE Bangalore is the course director for the same.

ISF Activities

ISF Centres were opened in some colleges and many programs were conducted under ISF at other colleges:

1. **17-08-2018:** Kuppam Engineering College (KEC) - IETE Student Forum (ISF) was inaugurated at Department of Electronics and Communication Engineering, Kuppam Engineering College, Kuppam. Prof. C. Murali talked about the benefits of forming ISF and delivered a technical talk on 5G and beyond. Sri C Satyanandan, Hon. Secretary IETE Bangalore Centre delivered a speech on the activities of IETE and the activities proposed



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- during the year. He focused on the importance of ISF to build professionalism in the student community. Dr. K. Rasadurai, KEC ISF faculty- in- charge proposed the vote of thanks.
2. **01-09-2018:** Department of Electrical & Electronics Engineering of SVCE conducted Student Development Programme on “How to Crack GATE/ESE/PSUs in 1st Attempt” on 1st September 2018, in association with ACE Engineering Academy, Bengaluru under IETE Student Chapter (ISF). Dr. Vijayshree R Budyal Professor and Head of E&EE Dept. was the convener for the program. Mr. Raghavendra Sarala, Manager, Academic Relations presided over the function. The Faculty and students of EEE Department attended the Program. Mr. Amit Saha, General Manager, ACE Engineering Academy was the resource person for the program held from 11.00 A.M to 01.00 P.M.
 3. **17-09-2018:** Department of ECE of SVCE conducted a technical talk on “Renewable Energy and Energy Conservation for Sustainable Development” in association with ISF at SVCE. Sri. Jagannatha Rao B N, Hon. Treasurer, IETE Bengaluru Centre , the Chief Guest of the session addressed the gathering. Dr. H Naganagouda, Director National Training Center for Solar Technology, Karnataka Power Corporation LTD., Bengaluru was the resource person. Dr. Suresha Principal delivered the presidential talk. Dr. Vijayashree R Budyal was convener of the program. Delegates for the session were HOD’s of various Departments, Faculty and students of EEE Department.
 4. **25-10-2018:** IETE Students Forum (ISF) chapter was inaugurated at Sri. Venkateswara College of Engineering (SVCE), Bengaluru in Computer Science and Information Science departments. Sri. C Satyanandan, Hon. Secretary, IETE Bengaluru Centre was the Chief Guest and Prof. C Murali was the Guest of Honor who delivered a technical talk on 5G Systems. Dr. Shoba, HoD proposed the vote of thanks.
 5. **22-12-2018:** The department of ECE at GITAM School of Technology, Bangalore campus organized a Guest Lecture on “Asic Verification & Industry Orientation “on December 22, 2018 for ECE students. The lecture was given by Prof. Sanjeev Kumar Suman, founder of the Edusaksham, EduSuccess Knowledge Systems Pvt Ltd, Bengaluru and Mr.Himanshu who is currently working in the verification of the ASIC circuits and their designing.
 6. **15-02-2019:** Department of Telecommunication Engineering under IETE Students forum conducted an open course on Wireless Sensor Networks and Its Essentials from 12th to 16th February 2019 at B M S Institute of Technology & Management. An introduction to Wireless sensor networks (WSN) and its applications Architecture of WSN by Prof. C. Murali.
 7. **16-02-2019:** The Department of Electronics and Communication Engineering of Alva’s Institute of Engineering and Technology formally inaugurated the ‘IETE Students Forum. Prof. H S Bhatia, Chairman, IETE Bangalore addressed the gathering and spoke about how important Electronics and Communication Engineering is in enhancing the interdisciplinary engineering branches. The Guest Of Honour for the event Prof. C Murali delivered a technical talk on ‘Emerging trends in Electronics and Communication for better tomorrow’ after the inaugural ceremony.



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8. **12-02-2019:** Department of Telecommunication Engineering, B M S Institute of Technology & Management, Bangalore under IETE Students forum conducted an open course on “Embedded System and Application Using 8051 Arduino” from 12th to 16th February 2019 at the BMSIT. Mr. Malar Deshpande, Country Head, Macnica (Japan based Leading Solutions Provider and Partner for many leading Global Semiconductor companies conducted it.
9. **25-03-2019:** Computer Science Engineering department of SV College of Engineering, Bangalore conducted a seminar on “BigData and Hadoop” under the IETE Banner.
10. **26-03-2019:** Prof. Narayana S Aiyer delivered a technical talk on “Control Systems” at SJCIT, Chickballapur. Prof. H S Bhatia, Chairman, IETE Bengaluru was the chief guest and Prof. G K Venaktesh was the coordinator.
11. **03-04-2019:** IETE Student Forum was inaugurated at Gopalan College of Engineering and Management Bangalore. Shri. C Satyanandan, Hon. Secretary IETE Bangalore was the Chief Guest Prof. C Murali, former Vice President IETE and Guest of Honour was the keynote speaker. Dr. Gemson, Guest of Honour, Dr. Sengottaiyan, Principal, Dr. S Anantha Padmanabhan HoD, ECE and Brig. Jagadeesh Chandran, COO Gopalan Foundations participated.

Resource Generation

IETE Bengaluru helped in conducting the following Examinations during the year under review:

1. **01-11-2018 to 17-11-2018:** CA Exams were held. Dr. DC Pande, Past Chairman, IETE Bengaluru was the Superintendent of Examination.
2. **15-11-2018 to 22- 11-2018:** IETE Examination was held. Dr. MH Kori was the Superintendent of Examination.
3. **16-12-2018:** IETE Bengaluru Centre conducted chartered accountant common Proficiency Test (CPT) examination on Sunday, 16th Dec 2018. Dr. D C Pande, Governing Council Member was the Chief Superintendent of Examinations and Prof. H S Bhatia, Chairman and Sri B N Jagannatha Rao, Hon. Treasurer were chief invigilators.
4. **27-05-2019 to 12-06-2019:** CA examinations were held at IETE from 27th to 31st May and 1st to 12th June 2019. Dr. DC Pande was the Superintendent of Examination.

Major Decisions

The Executive Committee took some major steps during the year, some of which are:

1. Setting up an IoT Lab with help from C-DAC Bangalore. C-DAC supplied an IoT Research Lab kit at a cost of about 5 Lakh. An amount of 10 Lakh was advanced by IETE HQ as loan. IoT Lab kit can be used to do research and development in various sectors. It is designed with a gateway and several nodes which support different protocols. 10 nos. of desktop computers were also procured to set up training facility for about 25 students



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at a time. A qualified support person recommended by C-DAC has been appointed to run the Lab.

2. Wi-Fi facility is proposed to be installed shortly.
3. Purchase of a van to be equipped with computer facility has been approved by IETE HQ. Modalities are being worked out to acquire the van.
4. It has been decided to hold an international conference IICI 2020 as a follow-up of IICI 18.

C Satyanandan
Hon. Secretary