The Student Branch
The Oxford College of Engineering

IEEE was found in the year 1884, with Alexander Graham Bell and Thomas Edison among its charter members. Today, IEEE serves over 4,00,000 members worldwide. IEEE is the world's largest technical society bringing members access to the industry, like technical information, networking opportunities, career development tools, and many other exclusive benefits.

1. All About IEEE:

Over 1,00,000 Student and Graduate Student members worldwide make up 25% of the membership of IEEE and are essential to its continued growth and vitality. Apart from being the world's largest technical and professional society, IEEE also publishes a significant amount of Electrical Engineering and Computer-Science literature. For more information about the program, you can visit IEEE website.

2. IEEE TOCE Student Branch:

In 2011, The Oxford College of Engineering started the IEEE student branch. The Geo Code is TOCE-STB 08641, School Code-60020461, and Region Code-R10. Various activities have been conducted under IEEE student branch for the benefits of the student community, which is helpful in their growth & career. While planning student branch programs for the year, events where students are highly engaged are selected. Student members are asked about their interest and invited to participate in a sub-committee of their choice. While choosing an event, the branch counselor generally asks several questions to evaluate the potential of that event like
- Will this event attract new members?
- Do we have the resources to carry it through (e.g., time, people, funding)?
- How will it satisfy the needs of existing members?
- Does it meet a specific need for your Branch?
- Will you need to undertake a fundraising effort to hold this event?

3. IEEE Student Member/ Professional Member:

There are 20 Student members along with Professional members representing IEEE Photonic Society and Computer Intelligence Society.
The main office bearers of IEEE student branch at TOCE from Bangalore Section are:
- Dr.Preeta Sharan - Vice-Chair, IEEE Photonic Society, IEEE Branch Counselor TOCE.
- Dr. Manju Devi - Student Membership Development in-Charge, IEEE Photonic Society.
- Dr.M.S.Shasidhara - Senior Member
- Mr. AnupUpadhyaya- The Student Internship Coordinator, IEEE Photonic Society.

4. IEEE Student Activities :

Some of the activities conducted by the Student Branch in recent years:
- Hosted an annual event to welcome the new members.
- Collaborated with other IEEE Branches like Photonics Society, WIE, Young Professionals.

- Conducted Talks on Technical and Professional subjects with speakers from reputed Institutes around Bangalore.
- Organized field trips to industry.
- Participated in IEEE conferences.
- Participated in engineering awareness programs.

IEEE photonics society, Bangalore Section has introduced student internship program in the year 2018-2019, where students from different colleges in Bangalore chose their mentor from expert committee of IEEE.

Dr.T.Srinivas IISC and Dr.Preeta Sharan
at internship review session

Dr.T.Srinivas, IISC and Dr. Manju Devi
during final internship review session

5. Guest/Expert Lectures:

Dr.T Srinivas Professor Photonic Lab, Dept. of ECE, IISc Bangalore delivered a talk on "Integrated Optics and Optical Sensor".

Dr.T Srinivas delivering technical talk on "Integrated Photonics"

6. IEEE Day:

IEEE day is celebrated in the month of October Worldwide. It was celebrated for the first time in the year 1884. The TOCE student branch celebrated this day on 27th of October 2018.
The function was graced by Dr, Indumathi TS, special officer in Karnataka state higher education council, Bangalore, Govt. of Karnataka (on deputation since 2017). Since 2014 she is a

Professor in the department of Digital Electronics and Communication Systems in Visvesvaraya Technological University, Centre for Post-Graduation studies, Bangalore region.

Inauguration of IEEE Day by Dr.Indumathi TS, Special officer Karnataka Higher Education

7. <u>Workshops:</u>

- Hands-on workshop on "Arduino & Robotics" workshop was conducted on 13th October 2017 in The Oxford College of Engineering, Bangalore.
- Dr. K.R.Yogesh Prasad working in Communication Systems Group, ISRO Satellite Centre, Bangalore gave a talk on his research topic.

Arduino workshop done under

IEEE student branch

Talk by Dr. K.R. Yogesh Prasad

ISRO Scientist

8. <u>Student's Achievements:</u>

- Presented papers at International Conferences ICONECC and CCEEDS
- Won the Best Paper Award at National Level Conference RISE at PESIT.
- Won the Best Paper Award at the IEEE paper presentation competition as part of Phase shift at BMSCE.
- Won the Best Paper Award at the National Level IEEE student conference "KAGADA" at UVCE.
- Won the Best Paper Award at Magnovite 2016 at Christ University.
- Their research paper was presented at the International IEEE Conference India Com 2016 which was held in Delhi.

- Our students, Allen and Ashwin, got 3rd Rank for All India Technical Paper Contest " M V Chuauhan Award 'from IEEE .

Allen   Ashwin

ECE students visited Vietnam for Presenting Paper IEEE ICEIC Conference

IEEE students presenting paper in IEEE ICEIC Conference held in Vietnam

9. **Faculty Achievements:**

- Faculty presented a paper at IEEE TENCON, Macau, China. The travel grant was funded by SERB, DST.
- Faculty presented a paper in prestigious conference of IEEE HTA R10 on Humanitarian technology at Sendai, Japan. It was funded by IEEE WIE
- The TOCE collaborated in IEEE organized workshop CRALT 2016.

Dr.Preeta Sharan with WIE President at Macau

Dr. Preeta and team bagged 1st prize From IEEE IMaRC 2015   (Hyderabad) Design contest for "Smart Device for Persons with Disability to Interact with Computer"

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10.Funded Projects From IEEE:

SI No.	Project Title	Year of sanction	Funding Agency	Project Coordinator	Total Cost	Remarks
1.	Wireless Head Mounted mouse and keyboard for Physically disabled persons	2012	IEEE R10 HTA ASIA PACIFIC	Dr. Preeta Sharan	800$	Completed
2.	Smart Wireless health monitoring system using GSM technology for pregnant lady in rural Audio interaction	2013	IEEE R10 HTA ASIA PACIFIC	Dr. Preeta Sharan	970$	Completed
3.	Automated Wrist Band Distress cell for Women, children and old people	2014	IEEE AIYEHUM 2014	Dr. Preeta Sharan	250$	Completed
4.	UAV for disaster management/pollution controller	2014	IEEE USA	Dr. Preeta Sharan	2000$	Postponed
5.	SIGHT Project	2014	IEEE R10	Dr. Preeta Sharan	250$	Ongoing

11.Upcoming IEEE Events:

- Student Internship under IEEE Photonic Society
- SIGHT Project Proposal
- Technical Paper writing
- Workshop on learning code like MEEP, MPB, QUANTUM DOT, NS2, MATLAB