**ABOUT IEEE**

* **IEEE Global**

**The world's largest professional association for the advancement of technology**

IEEE is the world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity. IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities.

**MISSION STATEMENT**

IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity.

**CORE VALUES**

Core values are the essential and enduring principles that guide IEEE.

* Service to humanity: leveraging technology and engineering to benefit human welfare; promoting public awareness and understanding of the engineering profession.
* Trusted source: being a source of trusted and unbiased information to enhance the quality of life for all people through methods like peer review.
* Global focus: supporting and embracing the global nature of and need for technical work and engineering solutions.
* Intellectual activity: forward-thinking; nurturing of new and existing science and technology.
* Growth and nurturing of its members and the profession: encouraging education as a fundamental activity of engineers, scientists and technologists at all levels and at all times; ensuring a pipeline of students to preserve the profession.
* Collaboration and community building: cultivating active, vibrant, and honest, exchange among cross-disciplinary and interdisciplinary global communities of technical professionals.
* Professionalism: creating a world in which engineers and scientists are respected for their exemplary ethical behavior and volunteerism.
* Trust and respect: promoting a culture where contributions at all levels are valued; encouraging member driven, volunteer-led, knowledge-based projects; building effective volunteer/staff partnerships.
* Individual contribution: being a membership organization with individuals who contribute to the core purpose of IEEE.

**VISION STATEMENT**

IEEE will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

The IEEE is engaged in an enterprise-wide strategic planning process. A summary of the long-range strategic plan, termed the IEEE Envisioned Future, details the main elements of the plan.

IEEE applies strategic thinking, explores new ideas about strategic governance, and uses new methodologies for strategic dialogue. IEEE's strategic and long-range plan is grounded in core values, describes a desired vision, and what will be essential to achieving this vision. IEEE's commitments are articulated in goals that declare the outcomes the organization intends to achieve. Underlying this plan is the adoption of an ongoing process of planning and thinking strategically, designed to ensure relevance of direction and action over time.

**VIVID DESCRIPTIONS**

* The IEEE community and its technologies will positively impact global prosperity and quality of life.
* Governments will increasingly seek IEEE's input as an unbiased source of technical information.
* Industry will recognize and value IEEE thereby strongly supporting professionals' participation in IEEE.
* Communities around the world will universally recognize and appreciate the profession and IEEE's role.
* Technological literacy will prevail among all educated citizens.
* IEEE members will have productive, distinguished, and rewarding careers. Increasing numbers of students will choose careers in IEEE fields of interest.
* IEEE will be recognized as a global force in shaping education and curricula in IEEE fields of interest.
* IEEE will be a center of excellence in technology information and a global force in intellectual property rights management.
* IEEE members will universally find value in active engagement and involvement in the organization.
* **IEEE REGION10**

The IEEE Region 10, also sometimes referred as the Asia Pacific Region, comprises of 56 Sections, 5 Councils, 12 Sub-sections, 400+ Chapters and 583 student branches. It covers a geographical area stretching from South Korea and Japan in the north-east to New Zealand in the south, and Pakistan in the west. With a membership of 73,662, it is one of the largest regions in IEEE.

**MISSION STATEMENT**

In order to fulfill IEEE's mission of advancing the theory and practice of electrical, electronics, communications and computer engineering, as well as computer science and related areas, Region 10 activities are directed to developing and maintaining regional entities for the best interests and benefits of the IEEE members in the region. To achieve that mission, the Regional activities include:

* To formulate goals and objectives for the Region
* To plan Regional operations, including budget preparation and approval
* To report officer, financial operation and meeting reports to the Regional Activities Department
* To plan and implement programs in support of the local organizational units in meeting the needs of the members of the Region
* To plan and implement programs for the volunteer structure of the Region, for example, develop and implement leadership training programs for volunteers and members to enhance their interpersonal skills, group skills and leadership abilities
* To provide leadership opportunities for interested members to take an active role within the operations of the Region.
* **IEEE INDIA COUNCIL**

IEEE India Council is the umbrella organization which coordinates IEEE activities in India. Its primary aim is to assist and coordinate the activities of local "Sections", in order to benefit mutually, and avoid duplication of effort and resources. IEEE India Council was established on 20th May 1976 and is one of the five councils in the Asia Pacific Region (Region 10 of IEEE).

**MISSION STATEMENT**

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**SECTIONS**

An "IEEE Section" is an IEEE entity which caters to the needs of a specified geographical area. At present, there are 10 IEEE Sections in India (listed alphabetically):

1. Bangalore Section
2. Bombay Section
3. Calcutta Section
4. Delhi Section
5. Gujarat Section
6. Hyderabad Section
7. Kerala Section
8. Kharagpur Section
9. Madras Section
10. Uttar Pradesh Section

**STUDENT BRANCHES**

An "IEEE Student Branch" is an IEEE entity which helps students in a specific educational institution. Presently there are 327student branches located in all major Universities and Engineering Colleges all over India. Each Student Branch is attached to the nearest IEEE Section.

**CHAPTERS**

An "IEEE Chapter" groups IEEE members who share a common interest in a specific domain. Usually Chapters are attached to the nearest IEEE Section. Some Chapters have decided to be directly attached to the India Council. The following Eight Chapters are attached to the IEEE India Council:

1. NPS 05/IE 13: Joint IEEE Chapter of Nuclear & Plasma Sciences Society and Industrial Electronics Society
2. AES 01/COM 19/LE 036: Joint IEEE Chapter of Aerospace & Electronic Systems Society, Communications Society and Lasers & Electro- optics Society
3. ED 15/MIT 17: Joint IEEE Chapter of Electronic Devices Society and Microwave Theory & Techniques Society
4. CPMT 21: IEEE Component, Packaging and Manufacturing Technology Society
5. EM 14/IA 34: Joint IEEE Chapter of Engineering Management Society and Industry Applications Society
6. Co 16: IEEE Computer Society
7. PE 31: IEEE Power Engineering Society
8. E 25: Education Society Chapter

* **IEEE DIT STUDENT BRANCH**

**Background:** DITU IEEE is DIT student chapter of the Institute of Electrical and Electronics Engineers (IEEE). It started in \_\_\_\_\_\_\_(year) and currently reaches out to more than \_\_\_\_(no of students) students on campus. The IEEE Student Chapter of DIT University brings under its umbrella some of the smartest, coolest and geekiest tech freaks on the campus. The chapter has its doors open to just about anybody who has the willingness to LEARN. The vision is not to mentor these individuals into technically sound individuals alone, but also to groom them into dynamic team players, who will in turn mentor their peers and juniors and keep the cycle going. Members exchange ideas and thoughts, interact, seek and extend support, and collaborate on projects. In this way, the chapter is very much a closely knit family.  Keeping in line with the motto of IEEE: ‘Advancing Technology for Humanity', the chapter works to develop a sense of appreciation among students towards electronics, computer science and related fields. Going beyond the standard textbook approach, it conducts several workshops and events to let students get hands-on experience with technically relevant hardware and software, which may also be important from the industrial point of view. DITU IEEE Student Branch is proud to be a part of IEEE University Partnership Program.

**Goals and Missions:** We’re a group of electrical engineering and computer science students (undergrads and grads) who want to have fun and meet new people, to learn about research and innovation in technology, to find ourselves and our passions, to help our community, and to get inspired to change the world!

* DITU students are also always very career-minded.  We hold a lot of technical talks with industry and academics, and allow DITU students to keep up to date with the most cutting edge technologies.
* At the same time, we serve as a bit of a social hub bringing engineering students together across disciplines. We’re always expanding, and reaching out to different disciplines, such as B-arch and B-pharma majors, to break out of our shell as an engineering-only group.
* All of our events serve as a great platform for attracting new members to IEEE and networking among the existing IEEE student members to keep them involved in the DITU IEEE Student Chapter.

**Activities**

* PCB and Embedded Workshop
* Raspberry Pi + Machine Learning
* Design Thinking
* In-house training program (machine learning, embedded, image processing, etc)
* Big O (Workshop+ Competition)
* PCB Workshop
* Image Processing using open CV
* Cyber Security (Hacking)
* Arduino

**Projects undergoing:-**

* Quadcopter We’re trying to build a realtime data acquisition drone which can be remotely maneuvered.
* INDIA’S DIGITAL FOOTPRINT Quadcopter It’s Google Student Community’s campaign about making India Digitally Alive one city at a time. In support with Indian Government’s Digital India Campaign, it promotes Digital Marketing and Online Business Management.
* DIGI CLUBS “Information should be available freely to everyone” With the Digi-Clubs project we aim to give all the clubs in a college a single platform where they can share about their inspiring projects and other works. Anything can be shared from Events and Meetings to Project Stories. We believe, every unnoticed event is a missed opportunity!
* Micromouse We’re trying to build intelligent a bot solving the complex maze in less time very efficiently.
* led cube The intensity of leds varies with equalizer settings of music connected to it.