IEEE Membership benefits and Resources

OVERVIEW OF IEEE

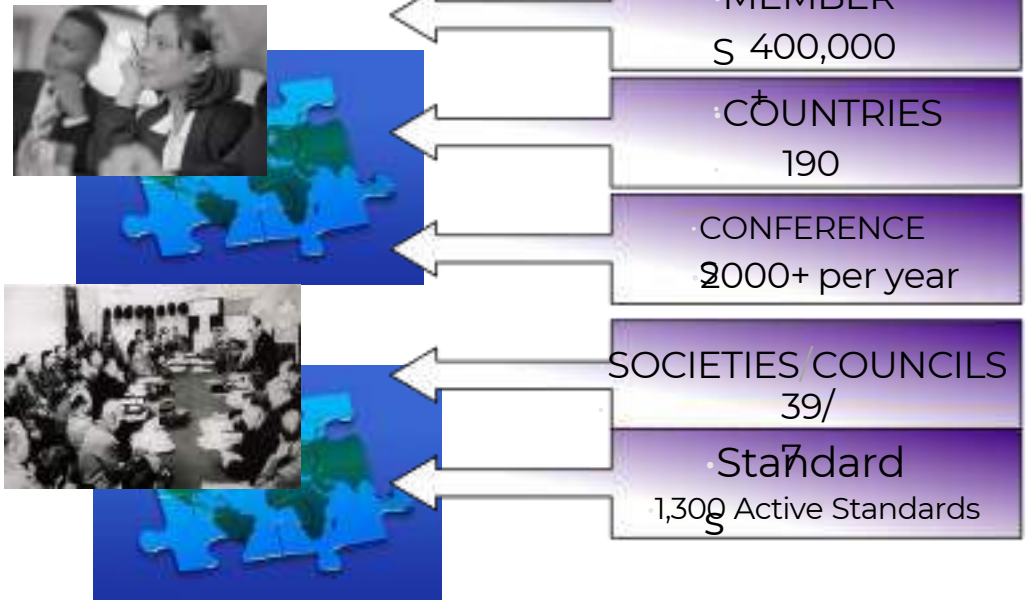
IEEE SB GNITS
Email:ieeesbgnits@gmail.com
Instagram: @ieee_gnits
https://www.linkedin.com/company/ieee-sb-gnits/

Now, you have found a new word called IEEE in your Dictionary

- What is IEEE : IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

IEEE Today

Advancing Technology for Humanity



World's largest technical professional society

IEEE at a Glance

- Membership
- Communities
- Conferences Fundings & Travel grants
- Publications & IEEE Digital Library
- IEEE Continuing Education
- Humanitarian Projects
- Networking
- Awards & Scholarships
- IEEE Contests

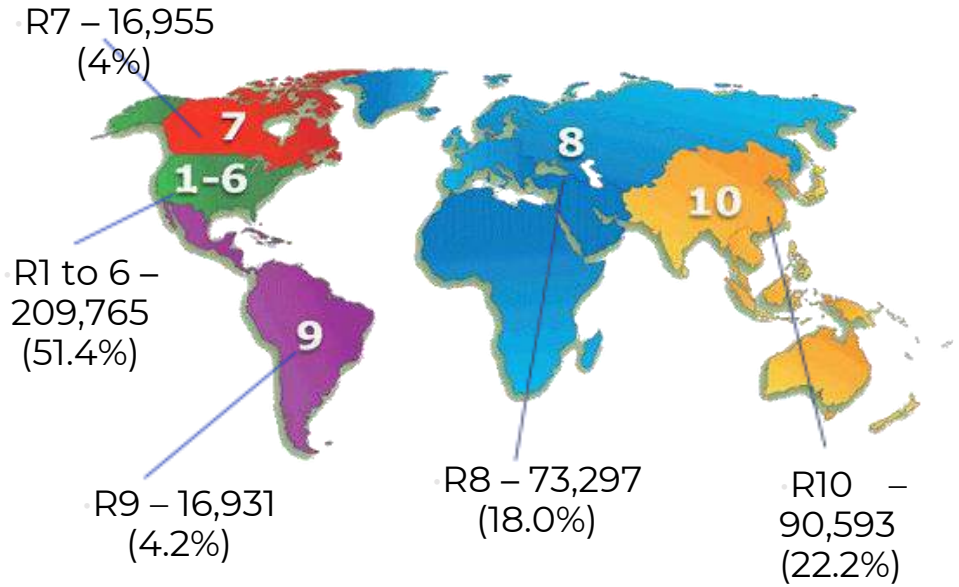
Volunteering Opportunities

Membership

There are more than 427,000 IEEE members in over 100 countries around the world. IEEE members are engineers, scientists, and allied professionals whose technical interests are rooted in electrical and computer sciences, engineering, and related disciplines.

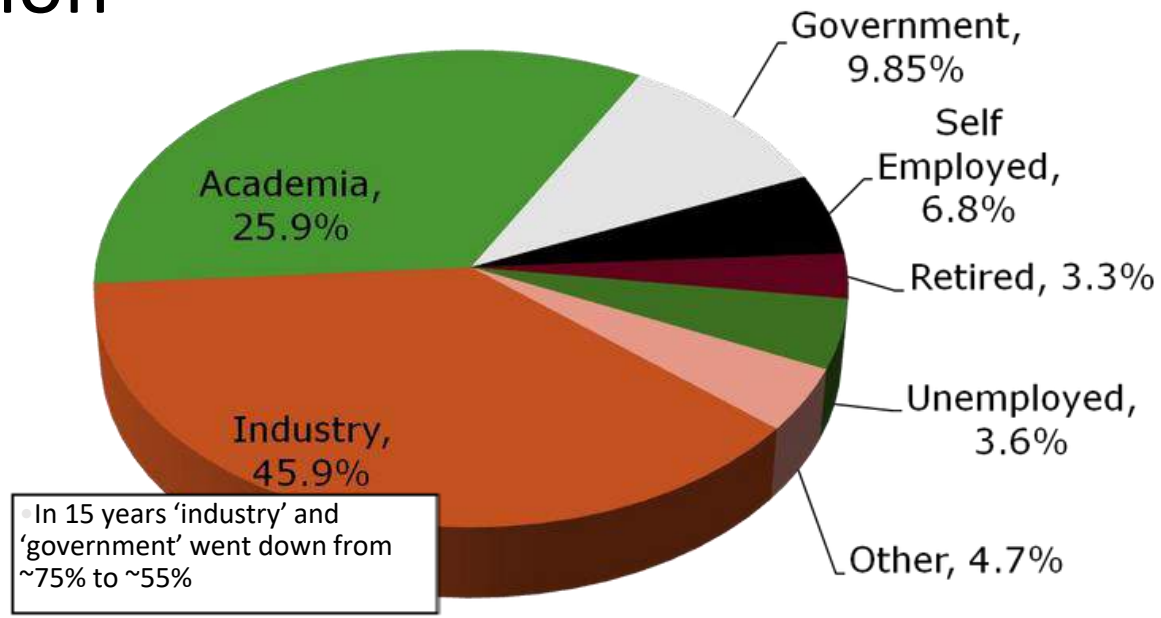
The highest grade of membership, IEEE Fellow, is attained through nomination by peers and approval by the IEEE Board of Directors for distinction in the profession.

IEEE Membership By Region



TOTAL MEMBERSHIP – 407,541

Membership – Occupation



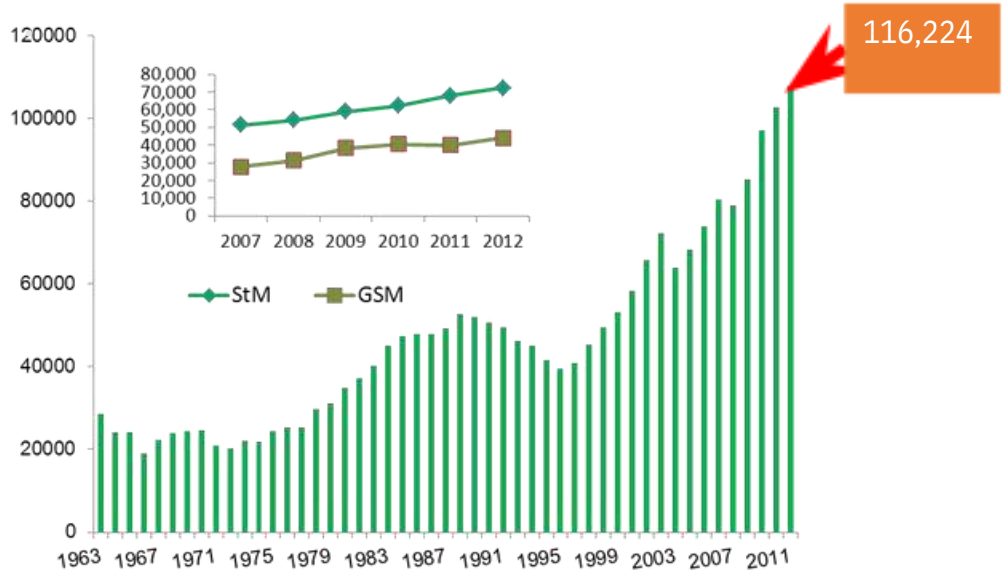
IEEE Societies and Technical Groups

- IEEE Knowledge Groups:
- Societies
- Technical Councils
- Technical committees
- General technical communities
- Technical groups and activities
- Standards Association & working
- groups Virtual networks
- IEEE In Your Area:
- Local Sections & Chapters
- Student Branches
- Affinity and special interest groups
- Geographic units and activities

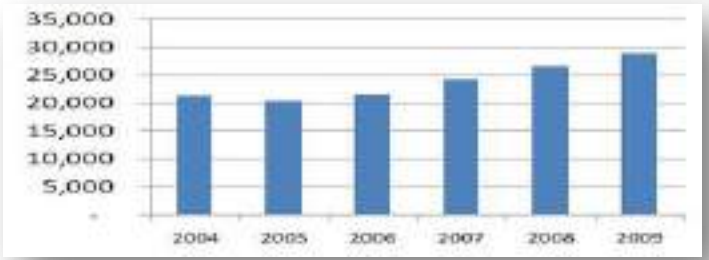
Various IEEE Societies

- IEEE Aerospace and Electronic Systems Society
- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
- IEEE Components, Packaging, and Manufacturing Technology Society IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectrics and Electrical Insulation Society
- IEEE Education Society
- IEEE Electron Devices Society
- IEEE Electromagnetic Compatibility Society
- IEEE Engineering in Medicine and Biology Society
- IEEE Geoscience and Remote Sensing Society
- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
- IEEE Information Theory Society
- IEEE Instrumentation and Measurement Society
- IEEE Intelligent Transportation Systems Society
- IEEE Magnetics Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Oceanic Engineering Society
- IEEE Photonics Society
- IEEE Power Electronics Society
- IEEE Power & Energy Society
- IEEE Product Safety Engineering Society
- IEEE Professional Communication Society
- IEEE Reliability Society
- IEEE Robotics and Automation Society
- IEEE Signal Processing Society
- IEEE Society on Social Implications of Technology
- IEEE Solid-State Circuits Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society

Student Membership—Growing Worldwide



Student Transition into Workforce



2013

- 116,224 Student members
- 2,354 Student Branches
- Students represent 27% of total IEEE membership
- 63% graduate students, 37%% undergraduate

Global

- Asia/Pacific – 40%; U.S. – 28%; Europe, Middle East, Africa – 21%; Latin America – 8%; Canada – 3%

Entrance into Workforce

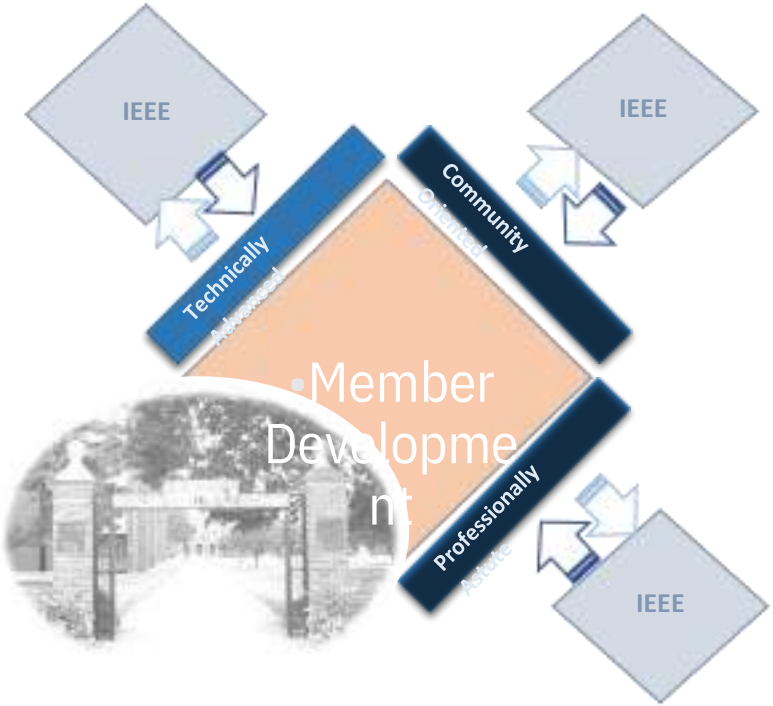
- 25,000+ student members now enter workforce annually
- 143,500 student elevations over past six years

Technical Programs & Opportunities

Technical chapters
IEEE Xtreme contest
Robotics contests
Paper contests ‘
Project showcases
Technical speakers
IEEE Spectrum
IEEE Potentials
Student member discounts
Student tracks at conferences
Society Membership

Volunteer Development

Regional Student Congresses
Face to Face Meetings



Public Programs & Opportunities

Humanitarian initiatives
President’s Change the World competition
Future Cities/E4C
Engineers w/o Borders
Pre-University activities
EPICS
Awards & Recognition

Career Programs & Opportunities

Job Fairs/Career Resources
‘Soft-skill’ seminars
Industry connections
Engineers Week
Professional Awareness Events

Awards & Scholarships

Accomplishments in IEEE technical fields are recognized with annual awards for outstanding contributions to technology, society, and the engineering profession.

Guglielmo Marconi (1920, for radio telegraphy)

Andrew S. Grove (2000, for pioneering research in metal oxide semiconductor devices and technology)

IEEE Medals are the highest awards that IEEE presents on behalf of the IEEE Board of Directors. IEEE Medals embrace significant and broad IEEE interests and purposes. The highest honour is the IEEE Medal of Honour, which recognizes an individual for an exceptional contribution or extraordinary career in the IEEE fields of interest. Past recipients have included such visionaries as:

William Shockley (1980, for junction, analogy, and junction field-effect transistors)

Gordon E. Moore (2008, for pioneering technical roles in integrated-circuit processing, and leadership in the development of MOS memory, the microprocessor computer and the semiconductor industry

BENEFITS OF IEEE

- IEEE Collabratec
- Volunteering
- opportunities Network
- growth
- IEEE TV
- IEEE Spectrum
- IEEE Xtreme
- IEEE Magazines

Financial Rewards

•Paper Publishing opportunities

•Discounts on IEEE driven events

•Travel Grants for technical Conferences

•Societies to enroll
•IEEE Digital library Xplore

What is IEEE Collabratec?

An open platform to advance community and collaborations around engineering and technology, with premium-level services for IEEE Members

Technical Networking

Innovators, engineers, technologists

Knowledge Sharing

Meaningful discussions, cutting edge info

Member Recognition

Societies, Grades, Volunteering

Cisco WebEx Meeting Center
Edit Share View Audio Participant Meeting Help
Quick Start Meeting Info Justine Spack... + New Whiteboard Chat Notes

What Is IEEE Collabratec?

- IEEE's new professional networking / collaboration platform
- Facilitates interactive communities and collaborative research
- Open to everyone, but with exclusive privileges for IEEE members
- **Positions IEEE for the future** of professional networking, career development, and publishing

ieeecollabratec.org

Scope and depth of expertise in engineering and technology **not found** in general social networks

IEEE

Recording...
Connected

Volunteering opportunities

There are different verticals in Volunteering

Designing

Content & Documentation

Graphic Designer

Web Developer

Marketing and promotions

Sponsorships

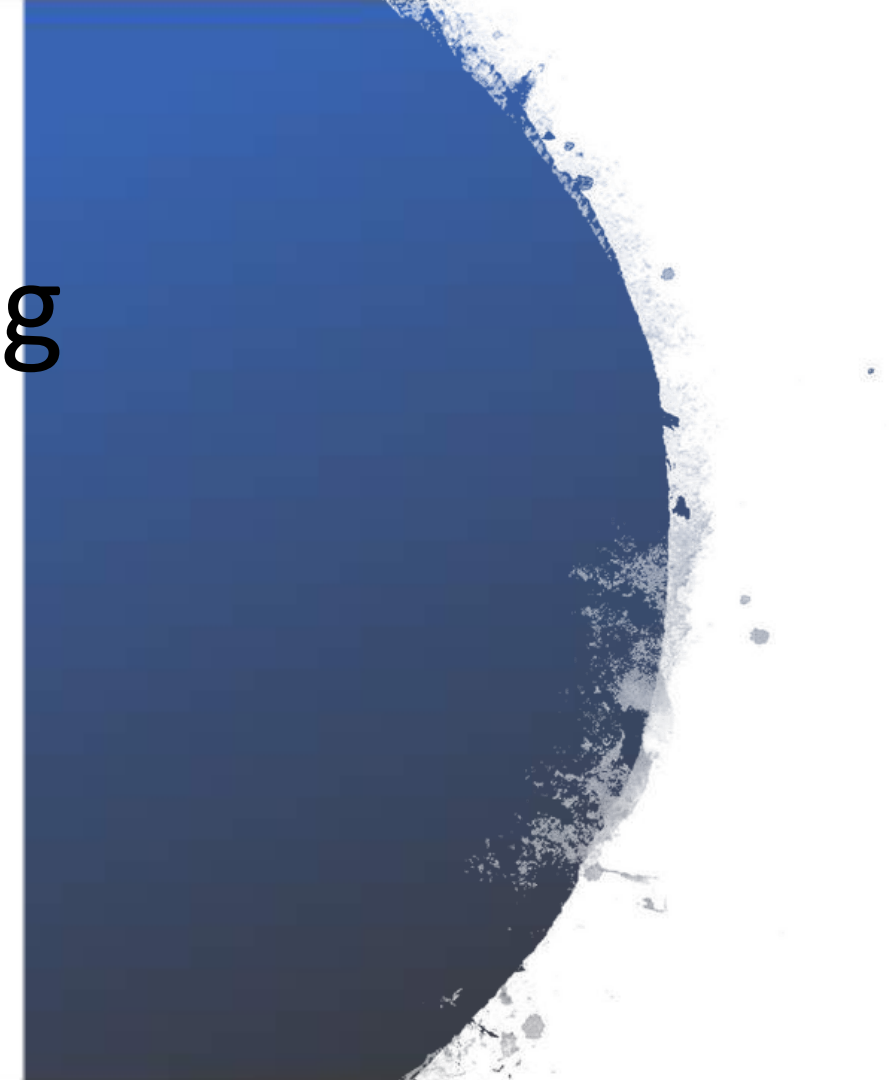
Student Development Through Volunteering

- Through the Student Branch:
- Develop professional networks
- Enhance presentation skills in low risk environments
- Develop management skills, e.g., leading without authority
- Committee experience
  - Managing projects
  - Managing people

Volunteer to Emerge

Stand Out!

What you going to get if we volunteer for events??



Knowledge
Leadership Skills
Organizing Skills
Being on Time
Resume Building
Broadened
mind
Mentorship

Networking

Professional Network

Academic Network

- Lab Visits
- Collaborative
- Research Internships
- Opportunities to continue education

Networking plays a crucial Role in Professional development

NETWORK LEARN COLLABORATE

Digital Library and Magazines

IEEE Spectrum and Digital Magazines

Valuable Content on Latest Tech

Society Magazines are very focused on state-of-the-art research topics

IEEE Xplore and Digital Libraries

Traditional Content (Research papers and abstracts)

Conferences

- IEEE sponsors more than 1,900 annual conferences and events worldwide, curating cutting-edge content for all of the technical fields of interest within IEEE.
- Major conferences and congresses happening in IEEE provides Partial or complete Funding to IEEE Members.
- IEEE R10 Flagship Conference **TENCON** Provides funding for selected papers.

Funding & Travel Grants

- IEEE Power and Energy Society supports a Funding up to 1600$ to attend PES Student Congress.
- IEEE WIE provides a travel grant and Funding up to 1000$ especially for IEEE WIE Members.
- IEEE Student Grants - https://www.standardsuniversity.org/grants/ (upto 500$)

IEEE XTREME

IEEE Xtreme Programming Challenge

Worldwide, 24-hour programming challenge for IEEE Student Branches

Teams of Student members, advised and proctored by an IEEE Member, compete in a 24-hour time span against each other to solve a set of programming problems.

Provide Student branches with an

- exciting new competition

Increase activities that appeal to computer, programming and information technology fans in IEEE

Graduating

Student Transition and Elevation Program (STEP) Events

- Sponsored by IEEE Graduates of the Last Decade (GOLD) www.ieee.org/gold
- Allows students to network with other young professionals
- Linkage to another local entity other than student branch/chapter

Student Graduation Kits

- Mailed to every graduating student
- Recommends benefits for a beginning professional
  - Job Site, Mentoring Connection, IEEE memberNet
- Overview of members-only discounts
- Incentives to update mailing address info

Publication

S

IEEE publishes nearly a third of the world's technical literature in electrical engineering, computer science, and electronics. This includes approximately 200 transactions, journals, and magazines published annually. In cooperation with John Wiley and Sons, Inc., IEEE also produces technical books, monographs, guides, and textbooks.

IEEE journals are consistently among the most highly cited in electrical and electronics engineering, telecommunications, and other technical fields.

The IEEE *Xplore* Digital Library contains more than 4.5 million documents from IEEE and IEEE journals, transactions, magazines, letters, conference proceedings, and active IEEE standards.

IEEE Continuing Education

By awarding continuing education units and professional development hours, IEEE helps its members meet their continuing education requirements and develops products and services in support of these efforts.

•Few societies offer certification programs (ex: ComSoc, CS) •Online Courses and Books (discounted access)

Summer Schools

•Few days long program offered by some societies, aimed at Masters and PhD Students, Young Professionals, to train them in a particular domain area, Ex: ComSoc, Photonics Society

•Selected participants normally eligible for travel grants by respective society/institute/section

Financial Rewards

- Help your Student Branch grow, and be rewarded and recognized
- All student members receive personalized membership referral cards through IEEE's Member-get-a-Member program
- Earn incentive rewards (money) by recruiting other IEEE members

  •US $2 for each student recruited; US $15 for each professional grade recruited

  •Top recruiters recognized in IEEE's membership development report, circulated to 2,000+ IEEE Volunteer leaders worldwide

- More about member-get-a-member program at www.ieee.org/md

IEEE Humanitarian Projects

As the philanthropic partner of IEEE, the IEEE Foundation inspires the generosity of donors to enable IEEE programs that improve access to technology, enhance technological literacy, and support technical education and the IEEE professional community.

IEEE Humanitarian Activities Committee releases Funds for solving problems in our Local communities.

Supporting high-impact IEEE programs

Awarding grants to IEEE grassroots projects of strategic importance

Research Grants and Scholarships

- Many societies offer travel grants to sponsored conferences
- Fellowships to promote graduate research (masters or doctoral) in relevant fields

  •IEEE EPS PhD Fellowship, IEEE MTT-S Graduate Fellowships etc.
- Fellowships for undergraduate students
  - https://www.ieee-pes.org/pes-communities/students/pes-scholarship-plus-initiative (IEEE PES Scholarship Plus - Limited countries, including India)
  - Merwin Scholarship by IEEE CS
  - Larry K Wilson Award
  - Upsilon Pi Epsilon Award

IEEE CONTESTS

- IEEE PES DAY Best Ambassador
- Contest IEEE madC Best Ambassador
- Contest IEEE DAY Photo Contest
- IEEE IAS CMD Humanitarian project competition

•IEEE Contests help in Recognising Tech Geeks and offers Global exposure.

IEEE Resource Centers

- Consolidate valuable content from IEEE Societies and Technical
- Communities User-friendly e-commerce sites
- Immediate access to videos and PDFs
- Non-traditional content
  - Recorded Lectures
  - Tutorials
  - Webinars etc.
- Link: https://www.ieee.org/communities/ieee-resource-centers.html Low-
- cost/Free access to society members, Mostly Free (24 resource centers)
- Non-society members can also access this at a reasonable cost.

NETWORKING OPPORTUNITIES

- **Opportunities at Different levels**:

- **Student Branch Level** : At student Branch level you can get an opportunity to work for the roles like Student chair, Vice-chair and other responsibilities where you can add value.

- **Section Level** : At section level you will get an opportunity to work for the responsibilities of SN Member and Section student Representative (SSR)
- **India Level** : At India level you will get an opportunity to work for India Council
- SAC Team
- **Region level(R10)** : At R10 level you will get an opportunity to work for R10 SAC team in the verticals like designing,web development, Content development Team

IEEE AMBASSADOR Programmes

- IEEE PES DAY Ambassador
- IEEE Brand Ambassador
- IEEE Xtreme Ambassador
- IEEE madC Ambassador
- IEEE DAY Ambassador
- IEEE Collabratec
- Ambassador IEEE PES HAC Ambassador

CHAPTERS IN IEEE SB GNITS

GNITS IEEE SB

IEEE SB GNITS 6499

1. IEEE Sensors Council IEEE
2. Industrial Electronics Society
3. IEEE PELS
4. Women in Engineering

IEEE Sensors Council

IES

pels IEEE POWER ELECTRONICS SOCIETY

IEEE Women in Engineering WIE

1. IEEE Sensors Council

The IEEE Sensors Council focuses on the theory, design, fabrication, manufacturing and application of devices for sensing and transducing physical, chemical, and biological phenomena. With an emphasis on the electronics, physics, and reliability aspects of sensors and integrated sensor-actuators, the Council sponsors well-recognized, international conferences and publications, including:

IEEE Sensors Journal
IEEE Sensors Letters
IEEE Internet of Things Journal
IEEE SENSORS Conference - the Council's flagship annual conference
IEEE International Conference on Intelligent Sensors, Sensors Networks and Information Processing (ISSNIP)

Council-sponsored activities provide participants the opportunity to publish and collaborate on research, network with colleagues, stay current on news and events, develop standards, and participate in educational activities.

There are no membership requirements to join; participation in this Technical Council is free.

3. IEEE Industrial Electronics Society

The Industrial Electronics Society through its members encompasses a diverse range of technical activities devoted to the application of electronics and electrical sciences for the enhancement of industrial and manufacturing processes. These techn robotics, factory co ical activities address the latest developments in intelligent and computer control systems, mmunications and automation, flexible manufacturing, data acquisition and signal processing, vision systems, and power electronics. The Society continually updates its program of technical activities to meet the needs of modern industry.

Field of Interest
The Field of Interest of the IES shall be confined to the theory and applications of electronics, controls, communications, instrumentation, and computational intelligence to industrial and manufacturing systems and processes.

The IES promotes the engineering process of creating, developing, integrating, sharing, and applying knowledge about electro- and information technologies and sciences for the benefit of humanity and the profession.

4. IEEE Power Electronics Society (PELS)

The Power Electronics Society (PELS) is one of the fastest-growing technical societies of the Institute of Electrical and Electronics Engineers (IEEE). For over 35 years, the PELS has facilitated and guided the development and innovation in power electronics technology. This technology encompasses the effective use of electronic components, the application of circuit theory and design techniques, and the development of analytical tools for efficient conversion, control, and condition of electric power.

The PELS is dedicated to:

- Upholding the vital scientific and educational aspects of power electronics and their applications.
- Keeping its members around the globe up to date on state-of-the-art technological developments and advances in power electronics research.

5. Women in Engineering

IEEE Women in Engineering (WIE) is one of the largest international professional organizations dedicated to promoting women engineers and scientists, and inspiring girls around the world to follow their academic interests in a career in engineering. The mission of IEEE WIE is to facilitate the recruitment and retention of women in technical

disciplines globally . IEEE WIE envisions a vibrant community of IEEE women and men collectively using their diverse talents to innovate for the benefit of humanity. Membership is free to Life Members, Student and Graduate

Student Members.

WIE International Leadership Conference that provides leading-edge professional development sessions focusing on leadership, innovation, technology, and entrepreneurship that aims to inspire and advance mid-level and senior

technical professionals globally.

OUR EVENTS YEAR 2023

EcoShe SUMMIT

IEEE WIE Hyderabad Section in association with
GNITS WIE Sb presents
SUMMIT
GNITS
IEEE SB
IEEE SB GNITS

G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(For Women) AUTONOMOUS

GNITS
IEEE Student Branch

IN ASSOCIATION WITH

IEEE Sensors Council
Hyderabad Chapter

WIE
IEEE Hyderabad Section

IEEE GNITS SENSORS COUNCIL & WIE AG PRESENTS

A GUEST LECTURE

on

Electronics : Building Blocks of Smart Cities

BY

ANURADHA VATTEM

LEAD ARCHITECT AT SMART CITY LIVING LAB@ IIITH, HYDERABAD

- Electronic components and sensors are essential for smart cities.
- They gather data, enhance resource

08/09/23

IEEE SB GNITS
IEEE Sensors Council
GPS Map Camera
Hyderabad, Telangana, India
C96X+R7C, Ambedkar Nagar, Film Nagar, Hyderabad, Telangana 500033, India
Lat 17.411976°

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Shaikpet , Hyderabad

GNITS

IEEE Student Branch

IEEE SB GNITS Presents

A Talk On

IEEE MEMBERSHIP BENEFITS AND RESOURCES

BY IEEE GNITS ALUMNAE 2019 batch

Venue : IT Seminar hall, F-block

Date : 10-08-2023, Thursday

Time : 2:30 - 3:30 pm

G. Vaishnavi
Capgemini

B. Raja Rajeshwari
Deloitte

GPS Map Camera
Hyderabad, Telangana, India
DEGREE BLOCK, G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE,
Ambedkar Nagar, Film Nagar, Hyderabad, Telangana 500033, India
Lat 17.411878°

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AND RESOURCES
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Shaikpet, Hyderabad

GNITS
IEEE Student Branch

VIDYOUTH 2K23

OLYMPIAD

Last day to register 14-06-23 TILL 11:59PM

-GENERAL APTITUDE
-MATHEMATICS
-ENGLISH

DATE: 16-06-2023
TIME: 10:00 AM to 11:00AM
VENUE: ROOM NUMBER: F10,3rd FLOOR, IT DEPARTMENT
TEAM SIZE: SOLO
REGISTRATION FEE: 20/-

CONTACT FOR QUERIES : 9177250286 , 9598069874

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Shaikpet, Hyderabad

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IEEE Student Branch

VIDYOUTH '23

POSTER PRESENTATION

DATE: 16-06-23
TIME: 1:15 PM TO 4:00 PM
VENUE: IT SEMINAR HALL
REGISTRATION FEE : 30/-
TEAM SIZE: 1-2

Last date to register : 14-06-23 TILL 11:59pm

CONTACT FOR QUERIES : 9177250286 , 9598069874

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GNITS
IEEE Student Branch

VIDYOUTH '23

PAPER PRESENTATION

DATE : 16-06-2023
TIME: 9:30 AM TO 12:30PM
VENUE: IT SEMINAR HALL
REGISTRATION FEE : 30/-
TEAM SIZE : 1-2

Last date to register : 14-06-23 11:59pm

CONTACT FOR QUERIES : 9177250286 , 9598069874

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OUR EVENTS YEAR 2022

- Guest lecture on A Plug and play operational approach for implementation of an autonomous –micro-grid system.
- AMPHITECH – Web speed, Guest lecture, Techdiz, Tech Artistry, Techflyer, Physhoot.
- Star program – Enkindling Career.

Opportunities on being IEEE member and Insights on present Industry

IEEE EVENTS by IEEE SB GNITS

- Digital safety in information age
- Two days hands-on workshop on Web Application Hacking

Reach us at

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- Email :
- ieeesbgnits@gmail.com

Instagram: @ieee_gnits