IEEE Vizag Bay Section 2023-2024

PART A - SECTION SUMMARY

A.1 Executive Summary –

- **Section Executive Committee Member List**
  1. Dr. Abraham Varughese, Chair, IEEE Vizag Bay Section
  2. Sri K.V. Sriram, Vice Chair, IEEE Vizag Bay Section
  3. Dr. Ch. Anil Kumar, Secretary, IEEE Vizag Bay Section
  4. Sri Md. Khwaja Muinuddin Chisti, Treasurer
  5. Dr. V. Sandeep, EC Member
  6. Prof. Deepika Rani, EC Member
  7. Dr. P. Siva Kumar, Chair, IEEE Computer Society Chapter
  8. Prof. VVSS Sameer Chakravarthy, Chair, IEEE COMSOC/SPS
  9. Prof. P Satish Ram Choudhary, Chair, IEEE APS
  10. Dr. Sekhar, Chair, IEEE Education Society
  11. Prof. CVK Bhanu, Chair, Chair, IEEE PES/IAS/PELS Society Joint Chapter
  12. Dr. Harini, WIE Coordinator IEEE Vizag Bay Section
  13. Dr. Lakshminarayana Sadasivuni, SAC Coordinator, IEEE Vizag Bay Section
  14. Dr. Lakshminarayana Sadasivuni, Past Chair

- **Section Highlights**
  - New Chapter inaugurated (IEEE APS).
  - Technically Sponsored SASI-ITE 24 IEEE Conference (Track no: 58663)

- **Major Events (International, National)**
  - Organized IEEE –WIE ILS 2023
  - Hosted IEEE WAMS-2024

- **Major Chapter Activities**
  - **Major Student and Affinity Group Activities**
    - Student section congress hosted
    - Inaugurated two new SB Chapters
  - **Awards**
    - R10 Best Membership Growth Larger Section Award.
    - Greentech Innovation Challenge at IEEE R10 Section Chapter Symposium Goa, 2023

A.2 Financial Report – *Audit in progress*

- **Summary (as per submitted on NetSuite)**
- **Any other financial activities**

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- **Total number of active members in the past 3 years: 12**
- **Summary:** Organized professional membership development at various institutions and organizations that includes NSTL DRDO, NIT AP, SASI, GITAM, DITE, GITE, REC, VITAM, ADITY, DADI, Andhra University, GVPE, Bullayya College and other institutions covering entire geographic area of Vizag Section.
**Event Name:** SRKR Student Branch IEEE Membership Drive  
**Date:** 21-04-2023  
**No of participants:** 70  
**Type:** Administrative  
**Organized by:** IEEEVizag BaySection  
**Description:** The meeting is conducted to bring awareness of IEEE student branch activities. All students and professional members participated.

**Event Name:** Student Branch Counsellors Meet  
**Date:** 30-04-2023  
**No of participants:** 120  
**Type:** Professional  
**Organized by:** IEEEVizag BaySection  
**Description:** Discussed on the progress of student membership and opportunities for the student members.

**Event Name:** IEEE Membership Benefits and SB Operations  
**Date:** 06-05-2023  
**No of participants:** 60  
**Type:** Professional  
**Organized by:** IEEEVizag BaySection  
**Description:** Promulgated on membership benefits to Student branch operators.

**Event Name:** Student Branch Counsellors meet  
**Date:** 22-09-2023  
**No of participants:** 200  
**Type:** Professional Development  
**Organized by:** IEEEVizag BaySection  
**Description:** Discussed the benefits of IEEE and role of Vizag bay section in promoting professional activities.

**Event Name:** IEEE benefits-BVC Engineering College IEEE SB  
**Date:** 01-12-2023  
**No of participants:** 90  
**Type:** Professional Development  
**Organized by:** IEEEVizag BaySection  
**Description:** IEEEVizag bay section briefed the benefits to students branches for promoting IEEE professionalism.

**Event Name:** IEEE benefits for students and Professional members at GVPE womens.  
**Date:** 17-10-2023  
**No of participants:** 120  
**Type:** Administrative  
**Organized by:** IEEEVizag BaySection  
**Description:** Dr Chisti has delivered a talk on IEEE benefits for student and professional members. Participants are motivated to join IEEE.

**Event Name:** IEEE benefits for students and Professional members at Bullayya College of Engineering  
**Date:** 07-10-2023  
**No of participants:** 150  
**Type:** Professional Development  
**Organized by:** IEEEVizag BaySection  
**Description:** Dr Anil Kumar promoted IEEE among students highlighting the benefits.

**B.2 Chapter Activities**

- Total number of Chapters in the Section: 5  
- Number of Chapters formed in the current year: 1  
- Number of active Chapters (Chapters who have reported required number of meetings during the year): 5  
- Summary of Chapter activities (Chapter wise with attachment table/information)

**Event Name:** Data Science Industry Perspective and Used Cases  
**Date:** 08-04-2023  
**No of participants:** 172  
**Type:** Technical  
**Event link:** [https://events.vtools.ieee.org/m/369141](https://events.vtools.ieee.org/m/369141)  
**Organized by:** IEEECS, Vizag Bay Section  
**Description:** Speaker: Sri. Sudeesh Sankaravel, Associate Fellow Data Scientist, Verizon Data Services, Chennai. UG/PG Students who are having ML subjects and faculty members are requested to attend.

**Event Name:** SEC#1 (Virtual)  
**Date:** 14-04-2023  
**No of participants:** 50  
**Type:** Professional  
**Event link:** [https://events.vtools.ieee.org/m/396650](https://events.vtools.ieee.org/m/396650)  
**Organized by:** IEEECS, Vizag Bay Section  
**Description:** First SEC conducted virtually.

**Event Name:** Digital Power Control Techniques  
**Date:** 14-04-2023  
**No of participants:** 172  
**Type:** Technical
Digital Power Control Techniques

The talk started with advantages of Digital Power Control Techniques in comparison with conventional analog control techniques.

Event Name: SRKR Student Branch IEEE Membership Drive (Dr Siva Kumar)
Date: 21-04-2023
No of participants: 70
Type of event: Administrative
Organized by: SAC IEEE Vizag Bay Section
Description: The meeting is conducted to bring awareness of IEEE student branch activities. All students and professional members participated.

Event Name: Generative Modelling in ML
Date: 25-04-2023
No of participants: 250
Type of event: Technical
Event link: https://events.vtools.ieee.org/m/369146
Organized by: IEEE CS, Vizag Bay Section
Description: Speaker: Dr. Nagesh Bhattu Sristy, Assistant Professor, NIT-AP, Tadepalligudem UG/PG Students, Research Scholars who are having ML subjects and faculty members are requested to attend.

Event Name: Section Student Congress
Date: 29-04-2023 & 30-04-2023
No of participants: 172
Type of event: Professional
Event link: https://events.vtools.ieee.org/m/398001
Organized by: IEEE SAC Vizag Bay Section
Description: Student section congress conducted by IEEE VBS

Event Name: Student Branch Counsellors Meet
Date: 30-04-2023
No of participants: 120
Type of event: Professional
Organized by: IEEE SAC Vizag Bay Section
Description: Discussed on the progress of student membership and opportunities for the student members.

Event Name: Restoring Power Outages on Distribution Systems
Date: 05-05-2023
No of participants: 55
Type of event: Technical
Event link: https://events.vtools.ieee.org/m/360398
Organized by: IEEE PES and Vizag Bay Section
Description: The talk was about restoration of Power Distribution after an outage. The speaker presented a new algorithm based on voltage and current for location of fault, its isolation and restoration.

Event Name: BVC college Student Branch PEP8-The style guide for Industry Standard Program
Date: 06-05-2023
No of participants: 31
Type of event: Professional

Event Name: IEEE Membership Benefits and SB Operations
Date: 06-05-2023
No of participants: 60
Type of event: Professional
Organized by: IEEE SAC Vizag Bay Section
Description: Promulgated on membership benefits to Student branch operators

Event Name: Big Data and Cloud Computing: Accelerating Insights and Innovations
Date: 13-05-2023
No of participants: 40
Type of event: Professional
Event link: https://events.vtools.ieee.org/m/369143
Organized by: IEEE CS Vizag Bay Section-WIE
Description: Speaker: Sri. Shanmugaraj, Distinguished Engineer - Data Engineering, Verizon India, Chennai. Who can Attend: UG/PG students/ Faculty Members

Event Name: Smart Grid Building Blocks Enabling Green Future: An Overview
Date: 13-05-2023
No of participants: 30
Type of event: Professional
Organized by: IEEE Vizag Bay Section

Event Name: PES Day Celebrations
Date: 13-05-2023
No of participants: 35
Type of event: Professional
Organized by: IEEE PES Vizag Bay Section
Description: PES day celebrated by PES chapter

Event Name: Invited Talk at IEEE Atlanta Section (Dr SLN)
Date: 30-05-2023
No of participants: 34
Type of event: Professional
Organized by: IEEE
Event Name: FDP on the protocols, norms and workflow process in Organizing an IEEE International Conferences in Institute Premises
Date: 08-06-2023  No of participants: 25  Type of event: Professional
Event link (for proof): 
Organized by: FDP conducted by SAC coordinator Salksmi Narayana

Event Name: IEEE Student branch Opportunities and Roles, Responsibilities and Functions of IEEE Student Officers (Dr Siva Kumar)
Date: 08-06-2023  No of participants: 80  Type of event: Technical
Event link (for proof): Organized by: IEEE SAC
Description: Roles and responsibilities briefed by SAC IEEE

Event Name: Section Technically Sponsored Conference AGEC-2023 (Track No: 57922)
Date: 23-06-2023 & 24-06-2023  No of participants: 90  Type of event: Technical
Event link (for proof): Organized by: IEEE Vizag Bay Section
Description:

Event Name: Role of Explainable AI in Activity Recognition
Date: 22-07-2023  No of participants: 65  Type of event: Technical
Event link (for proof): https://events.vtools.ieee.org/m/369149  Organized by: IEEE CS Chapter
Description: Computer Society Chapter of IEEE Vizag Bay Section is organizing an invited talk on Role of Explainable Artificial Intelligence in Activity Recognition by today evening from 6.30 to 07.45 PM. Speaker: Dr. E. Ramanajam, Dept. of CSE, NIT Silchar, Assam.

Event Name: Antenna Design for Space and Mobile: Trends and Challenges
Date: 28-07-2023  No of participants: 90  Type of event: Technical
Event link (for proof): https://events.vtools.ieee.org/tego_/event/manage/397507  Organized by: IEEE VBS
Description: The speaker Dimitri from QUB U.K explained about antenna design for mobile and space applications

Event Name: Volunteer Training Program
Date: 30-08-2023  No of participants: 75  Type of event: Technical
Event link (for proof): 
Organized by: IEEE VBS
Description: Volunteers trained by professionals

Event Name: SEC2
Date: 30-08-2023  No of participants: 65  Type of event: Technical
Event link (for proof): https://events.vtools.ieee.org/m/397536  Organized by: IEEE VBS
Description: SEC 2

Event Name: Wireless Communication for Computation
Date: 01-09-2023  No of participants: 60  Type of event: Technical
Event link (for proof): https://events.vtools.ieee.org/m/398746  Organized by: IEEE COMSOC/SPS Chapter
Description: Wireless Communication for Computation

Event Name: Trends in Data Science and AI/ML
Date: 04-09-2023  No of participants: 92  Type of event: Technical
Event link (for proof): 
Organized by: IEEE ECS Chapter
Description: Trends in Data Science and AI/ML discussed and presented.

Event Name: Sustainable Computing/Energy Efficient Data Centre
Date: 04-09-2023  No of participants: 172  Type of event: Technical
Event link (for proof): Organized by: IEEE Vizag Bay Section
Description: Sustainable Computing/Energy Efficient Data Centre discussed and presented.

Event Name: Deep Learning Role in Image Analysis and Road map to Generative Learning
Date: 09-09-2023  No of participants: 72  Type of event: Technical
Event link (for proof): Organized by: IEEE Vizag Bay Section
Description: Deep Learning Role in Image Analysis and Road map to Generative Learning discussed and presented.

Event Name: Advanced Techniques in Teaching and Learning Processes in HEIs In line with NEP2020
Date: 09-09-2023  No of participants: 56  Type of event: Technical
Event link (for proof): Organized by: IEEE EDU

Event Name: Digital Power Control Techniques
Date: 22-09-2023  No of participants: 60  Type of event: Technical
Event link (for proof): https://events.vtools.ieee.org/m/376196  Organized by: IEEE PES, Vizag Bay
Section Description: Digital Power Control Techniques discussed and presented

Event Name: Student Branch Counsellors meet
Date: 22-09-2023  No of participants: 50  Type of event: Technical
Event link(for proof): Counsellors meet conducted
Organized by: IEEE SAC Student Branch

Event Name: Antenna Applications in Defence
Date: 22-09-2023  No of participants: 27  Type of event: Professional
Event link(for proof): https://events.vtools.ieee.org/m/399619
Bay Section-WIE Description: Antenna Applications in Defence discussed and presented
Organized by: IEEE APS Vizag

Event Name: IEEE APS Chapter Inauguration
Date: 23-09-2023  No of participants: 40  Type of event: Professional
Event link(for proof): WIE Description: IEEE APS Chapter Inauguration
Organized by: IEEE Vizag Bay Section

Event Name: SEC#3
Date: 24-09-2023  No of participants: 30  Type of event: Professional
Event link(for proof): https://events.vtools.ieee.org/m/397563
Section Description: Third SEC conducted
Organized by: IEEE, Vizag Bay

Event Name: Mutual Coupling Reduction Techniques for 5G Massive MIMO Antennas
Date: 28-09-2023  No of participants: 10  Type of event: Technical
Event link(for proof): https://events.vtools.ieee.org/m/399761
Description: Mutual Coupling Reduction Techniques for 5G Massive MIMO Antennas presented by Dr. Sukumol Dev
Organized by: IEEE APS

Event Name: Navigating AI Landscape Tools, Trends and Technologies
Date: 23-09-2023  No of participants: 30  Type of event: Technical
Event link(for proof): WIE Description: Navigating AI Landscape Tools, Trends and Technologies Discussed and presented.
Organized by: IEEE SAC

Event Name: Network Slicing in 5G and Beyond
Date: 29-09-2023  No of participants: 100  Type of event: Technical
Event link(for proof): https://events.vtools.ieee.org/m/394362
Jt. Chapter Description: Network Slicing in 5G and Beyond presented
Organized by: IEEE COMSOC/SPS

Event Name: Membership benefits of IEEE and student operations Guidelines
Date: 03-10-2023  No of participants: 25  Type of event: Technical
Event link(for proof): WIE Description: Membership benefits of IEEE and student operations Guidelines presented
Organized by: IEEE SAC

Event Name: Young Professionals Network ICIP-2023
Date: 09-10-2023  No of participants: 140  Type of event: Technical
Event link(for proof): https://events.vtools.ieee.org/m/394260
Jt. Chapter Description: Conference on ICIP-2023
Organized by: IEEE COMSOC/SPS

Event Name: Live Streaming Session, Women in Signal Processing ICIP-2023
Date: 10-10-2023  No of participants: 120  Type of event: Technical
Event link(for proof): https://events.vtools.ieee.org/m/398790
Jt. Chapter Description: Women in Signal Processing ICIP-2023 conference
Organized by: IEEE COMSOC/SPS

Event Name: SEC#4
Date: 20-10-2023  No of participants: 30  Type of event: Professional
Event link(for proof): https://events.vtools.ieee.org/m/397890
Organized by: IEEE, Vizag Bay
Section Description: Third SEC conducted

Event Name: Circularly Polarized Performance in Dielectric Resonator Antenna Using Different Coupling Schemes
Date: 27-10-2023  No of participants: 10  Type of event: Technical
**Event Name:** Microwave Technologies for 5G/6G Applications  
**Date:** 18-11-2023  
**No of participants:** 130  
**Type of event:** Technical  
**Description:** Microwave Technologies for 5G/6G Applications discussed and presented.

**Event Name:** SEC#5  
**Date:** 20-10-2023  
**No of participants:** 25  
**Type of event:** Professional  
**Description:** Fifth SEC conducted

**Event Name:** R10 Section Chapters Symposium  
**Date:** 30-11-2023 to 2-12-2023  
**No of participants:** 10  
**Type of event:** Technical  
**Description:** R10 Section Chapters Symposium held at Goa

**Event Name:** IEEE benefits-BVC Engineering College IEEE SB  
**Date:** 01-12-2023  
**No of participants:** 100  
**Type of event:** Professional  
**Description:** IEEE benefits conducted at BVC Engineering College for IEEE SB

**Event Name:** Active Millimeter-wave Beam-Steering Antenna System for 5G and beyond  
**Date:** 20-12-2023  
**No of participants:** 170  
**Type of event:** Technical  
**Description:** Active Millimeter-wave Beam-Steering Antenna System for 5G and beyond presented by speaker.

**Event Name:** Beyond Horizon Wireless Communication on Sea using Evaporation Duct  
**Date:** 22-12-2023  
**No of participants:** 160  
**Type of event:** Technical  
**Description:** Beyond Horizon Wireless Communication on Sea using Evaporation Duct presented by guest speaker.

**Event Name:** Significance of IEEE Society Memberships, Opportunities and Networking  
**Date:** 26-12-2023  
**No of participants:** 180  
**Type of event:** Technical  
**Description:** Significance of IEEE Society Memberships, Opportunities and Networking presented by speaker.

**Event Name:** Millimeter-Wave Wireless Sensors with Metasurfaces  
**Date:** 29-12-2023  
**No of participants:** 220  
**Type of event:** Technical  
**Description:** Millimeter-Wave Wireless Sensors with Metasurfaces presented by speaker.

**Event Name:** SEC#6  
**Date:** 30-12-2023  
**No of participants:** 20  
**Type of event:** Professional  
**Description:** Sixth SEC conducted
B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table/information

B.4 Students Activities  SAC

- Total number of Student Branches in the Section
- Number of Student Branches formed in the current year
- Section level student activities (student congress, paper and other contests, awards etc)

- Number of active Student Branches (Student Branches who have reported the required number of meetings during the year): 20
- Summary of Student Branch activities (Student Branch wise with attachment table/information): 350 plus activities

B.5 Affinity Group Activities

- Young Professional (YP): 0
- Women In Engineering (WIE): 6

Event Name: Funding opportunities on Humanitarian Projects to meet SDGs through IEEE
Date: 04-08-2023  No of participants: 60  Type of event: Technical
Event link: https://events.vtools.ieee.org/m/329921
Organized by: IEEE PES/PELS/IAS Jt. Chapter
Description: The speaker described funding opportunities to Women Volunteers and students.

Event Name: WIE Regional meet and greet
Date: 24-11-2023  No of participants: 20  Type of event: Professional
Event link: https://events.vtools.ieee.org/m/329921
Organized by: WIE
Description: WIE Regional meet and greet

B.6 Awards & Recognition Activities

- Award constituted by the Section: 1

Event Name: IEEE PELS Day Celebrations 2023
Date: 20-06-2022  No of participants: 10  Type of event: Technical
Event link: https://events.vtools.ieee.org/m/329921
Organized by: IEEE PES/PELS/IAS Jt. Chapter
Description: The IEEE PELS/IAS/PELS Joint Chapter IEEE Vizag Bay Section celebrated IEEE PELS Day 2022 on 20 June 2022. Authors' presentations for "Best Research Publication Award - PELS Category" at section level

- Please list all Awards and Recognitions received by the Section, and members in the Section, from R10 and IEEE HQ during the year

1) R10 Best Membership Growth Larger Section Award.
2) Green-tech Innovation Challenge at IEEE R10 Section Chapter Symposium Goa, 2023
B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year)-0
- Home Page of the Section (give the URL and how often it is updated)
  Our website: [https://r10.ieee.org/vizagbay/](https://r10.ieee.org/vizagbay/)
- Our Selected Event Videos: [https://r10.ieee.org/vizagbay/event-videos/](https://r10.ieee.org/vizagbay/event-videos/)
- Our Conference: [https://r10.ieee.org/vizagbay/icissgt-2023/](https://r10.ieee.org/vizagbay/icissgt-2023/)
- Section Technically sponsored conferences: [https://r10.ieee.org/vizagbay/other/conferences/](https://r10.ieee.org/vizagbay/other/conferences/)
- Other means of contacts with Section members including social media: WhatsApp Groups

B.8 Industry Relations

- Membership growth and retention
- Activities for/with industrial members
  Visited industry with student members (Dream Chip- Visakhapatnam)
  Visit to NSTL, Visakhapatnam

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
- Visit to blind school
- SIGHT Activities

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)
- Beach Cleaning at Ramakrishna Beach

PART C- OTHERS

C.1 Special Events

- Organized events at rural school, WIE-ILS events encouraging women students.
  **Event Name:** Pre--Post Pandemic (PPP) challenges in Women at workspace
  **Date:** 14-12-2022  **No of participants:** 35  **Type of event:** Technical
  **Event link (for proof):** [https://events.vtools.ieee.org/m/347189](https://events.vtools.ieee.org/m/347189)
  Organized by: IEEE Vizag Bay Section-WIE
  Description: It was an excellent day, it started with a talk by Prof G Sree Lakshmi, WIE Chair, IEEE Hyd Section, and then followed by A talk by Prof Sushmita Mishra, Machine Intelligence Unit, Indian Statistical Institute, Kolkata, on ML applications. This has given many research problems to the students who have attended. Then followed by Debate Competition was conducted with the theme on “Pre Post-Pandemic Challenges in Women at Workspace.” At the last, a talk by Mrs. Ilin Dinah Abraham, English Language, and Literature has highlighted the out of box thinking that helps in powering women and A talk by Prof P K Sen, Emeritus Professor gave an excellent opportunity to the participants to know about India culture and future role of the Engineers.
C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)

- Nature of relationship and details of any formal agreement signed: 0
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

C3. Collaboration with other IEEE Sections

C.4 Support extended to Sub-sections & Society Chapters within the Section

- Support extended for organising technical, educational and professional activities
- Joint activities for membership development
- Support extended for the formation of a Sub-section or transition of a Sub-section into a full Section

Support to Chapters from Section from Incentive:

- has conducted best paper award and these awards are met from Section incentive

Support to SBs

- Supported 2 M.Tech Students who attended IEEE MAPCON-2023
- Free registrations to students for SSC

C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)

- Continuous professional members meets and membership development.

C.6 Problems anticipated and suggestions for solutions, if any

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans

2024 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE) - #58663 which is scheduled to begin on 24-Feb-24 has been approved by all conference sponsors.

2024- IEEE International Conference on Intelligent Systems, Smart and Green Technologies (ICISSGT – 2023)

2024- IEEE WAMS-2024 at Raghu Engineering College

D.2 Goals and Future Plans

Organize invited talks/workshops/events to impart new innovations and their use, benefit to humanity, improve the IEEE Membership by organizing events in remote institutions, where student branches do not exist, remote schools and enhance technical knowledge with practical approach. Organizes skill development events.
D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.
Encouraging student and professional members funding and recognition for their contribution to societal projects. Induction programs for the first year admitted students in various fields of education.

Support researchers by connecting industry personnel for applications, guidance and validation of results. Visit more remote schools and enhance technical knowledge with the practical approach. Organize skill development events. Visiting Industries for their support in terms of technical as well financially in organizing conference and events.

SEC-1 Meeting (Virtual)
Volunteer Training Program