

Section Report 2013 (IEEE Uttar Pradesh Section)

PART A - SECTION SUMMARY

A.1 Executive Summary –

- **Executive Committee (2013)**

All office bearers, conveners of different committees, chairpersons of subsections and society chapters, and immediate past chairperson of the section are ex-officio members of the executive committee.

Office bearers

1. Chairperson - **Dr. S.N. Singh**, EE Department, IIT Kanpur, snsingh@iitk.ac.in
2. Vice-Chairperson- **Dr. Animesh Biswas**, EE Department, IIT Kanpur, abiswas@iitk.ac.in
3. Vice-Chairperson- **Dr. Ekram Khan**, Department of Electronics Engg, AMU, Aligarh, ekhan67@gmail.com
4. Secretary - **Dr. Kumar Vaibhav Srivastava**, EE Department, IIT Kanpur, kvs@iitk.ac.in
5. Joint Secretary - **Dr. R.K. Singh**, Department of Electrical Engineering, MNNIT, Allahabad, rksingh@mnnit.ac.in
6. Treasurer – **Dr. Nishchal K Verma**, EE Department, IIT Kanpur, nishchal@iitk.ac.in

Conveners of various committees

1. Convener, Awards and Recognition Committee - **Dr. S. C. Srivastava**, EE Department, IIT Kanpur, scs@iitk.ac.in
2. Convener, Electronic Communication and Promotion Committee - **Dr. Y.N. Singh**, EE Department, IIT Kanpur, ysingh@iitk.ac.in
3. Convener, Student Activities committee – **Dr. Rajesh Gupta**, Department of Electrical Engg, MNNIT Allahabad, rajeshgupta@mnnit.ac.in
4. Convener, Professional Activities Committee - **Dr. Adrish Banerjee**, EE Department, IIT Kanpur, adrish@iitk.ac.in
5. Convener, Membership Development Committee – **Dr. M Jaleel Akhtar**, EE Department, IIT Kanpur, mjakhtar@iitk.ac.in
6. Convener, Publication and section history committee - **Dr. A .K. Chaturvedi**, EE Department, IIT Kanpur, akc@iitk.ac.in
7. Convener, Educational Activities Committee – **Dr. Asheesh Kumar Singh**, Department of Electrical Engg, MNNIT Allahabad, asheesh@mnnit.ac.in
8. Convener, Women’s affinity Group- **Dr. Nandini Gupta**, EE Department, IIT Kanpur, ngupta@iitk.ac.in
9. Convener, Graduate of Last Decade (GOLD) group- **Dr. Saikat Chakrabarti**, IIT Kanpur saikatc@iitk.ac.in

Chairpersons of various subsections / society chapters

1. Chairperson, Roorkee subsection - **Dr. S.N. Sinha**, Dept. of Electronics & Computer Engg., IIT Roorkee, snsecfec@iitr.ernet.in
2. Chairperson, IEEE IE/PE/CS (industrial electronics/ power electronics/ control systems) Joint chapter- Prof. **R. K. Tripathi**, Department of Electrical Engineering, MNNIT, Allahabad, rktripathi@mnnit.ac.in
3. Chairperson, IEEE PE/IA (Power engineering/ industry application) chapter, **Dr. S N Singh**, EE Department, IIT Kanpur, snsingh@iitk.ac.in

4. Chairperson, IEEE ED (Electronics devices) UP (Nepal) chapter - **Prof. Sitaram Prasad Byahut**, sbyahut@gmail.com
5. Chairperson, IEEE SP/C (signal processing/ computer) Joint chapter - **Dr. A. K. Mishra**, Department of Computer Science and Engineering, MNNIT, Allahabad, arun_kmisra@hotmail.com
6. Chairperson, IEEE MTT (Microwave Theory and Techniques)- **Dr. M Jaleel Akhtar**, EE Department, IIT Kanpur, mjakhtar@iitk.ac.in

Other members of the Executive Committee

1. **Dr. Ajai Jain**, CSE Department, IIT Kanpur, ajain@iitk.ac.in
2. **Dr. S Qureshi**, EE Department, IIT Kanpur, qureshi@iitk.ac.in
3. **Dr. P Chakrabarti**, Director, MNNIT, Allahabad, pchakra@bhu.ac.in
4. **Dr. NP Padhy**, Department of Electrical Engg., IIT Roorkee, narayanaprasadpadhy@yahoo.com
5. **Dr. Rajeev Tripathi**, Dept. of Electronics Engineering, MNNIT, Allahabad, tripathi_rajeev@hotmail.com
6. **Dr. U.S. Tiwari**, IIIT Allahabad, ustiiita@gmail.com
7. **Dr. Rajat Kumar Singh**, IIIT Allahabad, rajatsingh@iiita.ac.in
8. **Dr. Rachana Asthana**, HBTI, Kanpur, rachnaasthana@rediffmail.com
9. **Dr. A.R. Harish**, EE Department, IIT Kanpur, arh@iitk.ac.in
10. **Dr. Jayanta Chatterjee**, IME Department, IIT Kanpur jayanta@iitk.ac.in
11. **Dr. Bhavesh Kumar Chauhan**, Director, ABES IT, Ghaziabad, bhaveshsudan2000@yahoo.com
12. **Mr. Ramesh Negi**, All-India Radio, rameshnegi@yahoo.com
13. **Mr. Raghendra Kumar Chaudhary** (IIT Kanpur), Chairman, IEEE Student Branch, Uttar Pradesh Section (student representative), raghav@iitk.ac.in (term ended on Aug 13, 2013)
14. **Mr. P. Banerjee** (IIT Kanpur), Chairman, IEEE Student Branch, Uttar Pradesh Section (student representative), banerjee.param@gmail.com (term started on Aug 14, 2013)
15. **Dr R. Gowri**, Director, Graphic Era Hill University, Dehradun, ravigowri07@gmail.com
16. **Dr D. Saxena**, Electrical Engineering Department, Invertis University Bareilly, UP diptisx@gmail.com
17. **Dr. R. K. Pandey**, Department of Electrical Engineering, IIT BHU, Varanasi, rpsneh@yahoo.co.in
18. **Dr. Munesh Chandra Trivedi**, Department of Computer Science and Engineering, DIT School of Engineering, Greater Noida, munesh.trivedi@gmail.com
19. **Prof. R. B. Mishra**, Department of Computer Science and Engineering, IIT BHU, Varanasi, head.cse@itbhu.ac.in.
20. **Prof. Vinod Kumar**, Department of Electrical Engineering, IIT Roorkee, vinodfee@iitr.ernet.in
21. **Prof. B. S. Rai**, Department of Electronics and Communication Engineering, MMMEC, Gorakhpur, bsr_54@yahoo.com
22. **Dr. Dilip Kumar Sharma**, Dept. of Computer Engineering & Applications GLA University, Mathura, dilip.sharma@gla.ac.in
23. **Dr Seethalekshmi K**, Director, Babu Banarasi Das Northern India Institute of Technology, Lucknow, seethalk07@gmail.com
24. **Mr. Tarun Maini**, RKGEC, Pilkhua, Hapur (tarunmaini77@gmail.com)
25. **Dr. D. Bhagwan Das**, DEI Agra (Email: dbhagwandas@gmail.com)

- **Major Events (International, National)**

SEMINAR/CONFERENCE/SYMPOSIUM ETC

Technically Approved by IEEE UP Section:

1. “20th National Conference on Communications” during Feb 28- March 2, 2014, will be organized by Indian Institute of Technology, Kanpur
2. “3rd International Conference on Multimedia Signal Processing and Communication Technologies (IMPACT-2013)” during Nov. 23-25, 2013, has been organized by The Department of Electronics Engineering, Aligarh Muslim University.
3. “International Conference on Recent Advances in Computing, Communication and Materials (ICRACCM-2013)” during Aug. 03-04, 2013, has been organized by United Institute of Technology, Allahabad, in Association with AIT Bangkok.
4. “3rd International Conference on Advances in Control and Optimization of Dynamical Systems ACOADS-2014” during March 13 – 15, 2014, will be organized by Indian Institute of Technology, Kanpur.
5. “International Conference on Signal Processing and integrated Networks (SPIN 2014)” during Feb 20-21, 2014, will be organized by AMITY University Noida.
6. “2014 International Conference on Information Systems and Computer Networks (ISCON 2014)” during March 1-2, 2014, will be organized by GLA University Mathura.
7. “5th International Conference on Power and Energy Systems (ICPS)” during Oct 28-30, 2013, will be organized by The Institute of Engineering, Tribhuvan University, Nepal in association with Indian Institute of Technology Bombay.
8. “National Conference on Advances in Electrical Power and Energy System” during Sept 20 – 21, 2013, has been organized by Ajay Kumar Garg Engineering College, Ghaziabad.
9. “2013 International Conference on Optical Imaging Sensor and Security (ICOSS)” during July 2-3, 2013, has been organized by TEJAA SHAKTHI INSTITUTE OF TECHNOLOGY FOR WOMEN, COIMBATORE.

Following conference has been financially approved by IEEE UP Section:

1. “National Conference on Emerging Trends in Engineering and Technology (ETEAT-2013)” during March 16-17, 2013, has been organized by Vishveshwarya Group of Institutions jointly with Institution of Engineers, Noida -Ghaziabad Chapter and CMAI New Delhi.
2. “2nd Students’ Conference on Engineering and Systems (SCES 2013)” during April 12-14, 2013, has been organized by MNNIT Allahabad.
3. “Computer Application in Electrical Engineering- Recent Advances: Smart Grid Technologies (CERA-13)” during Oct 3 -5, 2013, has been organized by IIT Roorkee.
4. IEEE Student Branch,DIT Dehradun had organized some technical events, free workshops and seminars in their college between March 14 and 15, 2013

5. "IEEE workshop on Computational Intelligence: Theories, Applications and Future Directions" during July 14, 2013, has been organized by Indian Institute of Technology, Kanpur
6. "FPGA Based Digital System Design" during July 3-7, 2013, has been organized by IIT Allahabad
7. "National Conference on Microwaves Antenna and Remote Sensing (MARS 2013)" during June 7-8, 2013, has been organized by Graphic Era Hill University (Dept of ECE) Dehradun.

- **Awards**

IEEE-EAB Meritorious Achievement Award in Continuing Education

IEEE-EAB Meritorious Achievement Award in Continuing Education was handed over to Prof S. N. Singh with the following citation:

"for leadership in creating and delivering training in advanced power systems to practicing engineers, the academic community, and policy makers"

This award was established by the IEEE EAB to provide recognition for the dedicated contribution to the design, delivery, and support of continuing education courses and programs in the fields of interest to IEEE Members.

The 2013 IEEE EAB Award Presentation Ceremony will take place during the IEEE Meeting Series in New Brunswick, NJ, USA on 22 November 2013. Attendees will include the IEEE President, members of the IEEE Board of Directors, and other IEEE Officers and companions.

A.2 Financial Report –

- **Summary (as per submitted L50)**

**IEEE
IEEE : Region 10 : Region 10 INR
Balance Sheet
End of FY 2013**

Financial Row	Amount
Current Assets	
Bank	
70218 - State Bank of India UTTAR PRADESH	Rs.1,845,739.56
72486 - UTTAR PRADESH Petty Cash	Rs.269.34
74158 - Non IEEE Investment (CD) UTTAR PRADESH	Rs.261,235.00
Total Bank	Rs.2,107,243.90
Total Current Assets	Rs.2,107,243.90
Other Assets	
14049 - Non-IEEE Investments (Other)	-Rs.48,781.00
Total Other Assets	-Rs.48,781.00
Current Assets Less Current Liabilities	Rs.2,107,243.90
Total Assets Less Current Liabilities	Rs.2,058,462.90

Long Term Liabilities	
74246 - Reserve Allocation Payable	Rs.224,590.26
Total Long Term Liabilities	Rs.224,590.26
Total Assets Less Total Liabilities	Rs.1,833,872.64
Capital and Reserves	
Retained Earnings	Rs.1,468,364.17
Net Income	Rs.365,508.47
Total Capital and Reserves	Rs.1,833,872.64

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the year 2013: 2106

B.2 Chapter Activities

- Total number of Chapters in the Section – 6**
- Number of Chapters formed in the current year-1**
- Summary of Chapter activities chapter wise**
 - IEEE IE/PEL/CS (industrial electronics/ power electronics/ control systems) Joint chapter
Members: 41/38/29
Events: 1 Technical
 - IEEE PE/IA (Power engineering/ industry application) chapter
Members: 124/25
Events: 1 Technical
 - IEEE ED (Electronics devices)
Members: 45
Events:
 - IEEE SP/C (signal processing/ computer) Joint chapter
Members: 44/150
Events:
 - IEEE MTT chapter
Members:138
Events:3 Administrative/16 Technical/1 Professional
 - IEEE CIS
Members: 52
Events: 1 Administrative/1 Technical

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

ACTIVITIES ORGANISED BY IEEE UP SECTION DURING YEAR 2013

DATE	NAME & ADDRESS	TITLE OF SEMINAR
09.01.2013	Dr. Ritwik Majumder, ABB Corporate Research, Sweden	DC GRID AND MICROGRID: OPERATION AND CONTROL
11.01.2013	IIT Roorkee	IITR MTT17 SBC's 2013 Yearly Plan for Activities/Workshop/Symposia
12.01.2013	IEEE UP Section Annual General Body Meeting, IIT Kanpur	IEEE UP Section Annual General Body Meeting
18.01.2013	IIT-Roorkee IEEE MTT17 Student Branch Chapter	Hands-On LATEX Tutorial

22.01.2013	Jai Verma, University of Notre Dame	MBE grown Quantum-Dot UV Light Emitting Diodes with Tunnel-injection and Polarization-engineering
23.01.2013	BIT,Muzaffarnagar	A 1st meeting of the IEEE, students branch Chapter, BIT,Muzaffarnagar
02.02.2013	IIT-Roorkee IEEE MTT17 SBC	R&D Opportunities in India
10.02.2013	IEEE UP Section Executive Committee meeting, GLA University, Mathura	IEEE UP Section Executive Committee meeting
15.02.2013	IEEE MTTs SBC Sachdeva Institute of Technology	Exuberance-2013
19.02.2013	David Devylder, Belgium	Opportunity & Study of Higher education in Europe
22.02.2013	Dr. Animesh Kumar (I.I.T. Bombay)	Distributed A/D conversion of bandlimited fields
24.02.2013	" DIKSHA" 2013 at BIT Muzaffarnagar	Training on Computer Literacy Programme for Rural Students
10.03.2013	Mathura	IEEE UP Section Executive Committee Meeting
19.03.2013	Dr. Sandeep Anand, Cosmic Circuits, Bangalore	DC Microgrid for Renewables Intergation
20.03.2013	Kedar Kulkarni, IIT Kanpur	IEEE Student Seminar: Power allocation for OFDM-based cognitive radio systems under average interference constraint
21.03.2013	Dr. Pawan Goyal	A Context based Word Indexing Model for Document Summarization
02.04.2013	Dr. Digbijoy N Nath Ohio, United States	Advanced polarization engineering of III-nitride heterostructures towards high-speed device applications
10.04.2013	Ruchir Gupta	IEEE Student Seminar: Reputation Management System in Peer to Peer Networks

12.04.2013	BIT Muzaffarnagar	National Conference on Trends in Signal Processing & Communication (TSPC"13)
13.04.2013	IEEE UP Section Executive Committee meeting, MNNIT Allahabad	IEEE UP Section Executive Committee meeting
13.04.2013	Prof Sanjay Gambhir Department of Nuclear Medicine SGPGI, Lucknow	Evolving Molecular Imaging techniques in Imaging
16.04.2013	Prof Sanjay Gambhir Department of Nuclear Medicine SGPGI, Lucknow	Evolving Molecular Imaging techniques in Imaging
02.05.2013	BIT Muzaffarnagar & BIT SBC Muzaffarnagar	National Workshop On Emerging Trends in Green Computing
11.05.2013	IIT-Roorkee IEEE MTT17 SBC	Student Poster Presentation Contest
25.05.2013	SBC BIT Muzaffarnagar	National level students project competition "SRAJAN"13
15.06.2013	BIT Muzaffarnagar	15 Days Training on Computer Literacy Programme for Rural Students (" DIKSHA" 2013)
27.06.2013	Mr. Soumya Ranjan Sahoo Systems and Control Engineering IIT Bombay	Coordination problems with minimal sensing and coarse actuation
14.07.2013	IIT Kanpur	IEEE Workshop On Computational Intelligence: Theories, Applications and Future Directions
16.07.2013	Dr Anurag K Srivastava of The School of Electrical Engineering and Computer Science, Washington State University	Energy Management and Control for Active Distribution Systems
16.08.2013	Prof. Akhlesh Lakhtakia Pennsylvania State University, USA	IEEE MTT-S Expert Lecture Sculptured Thin Films
28.08.2013	Prof. M. Jagadesh Kumar, IIT-Delhi	Steep Sub-threshold Green Transistors: Will they take over the conventional silicon CMOS?
30.08.2013	Prof. V. Ramgopal Rao, IIT-Bombay	Multi-disciplinary Approach to Product Development: Opportunities & Challenges
07.09.2013	Sachdeva Institute Of Technology, Mathura	National Workshop on "RF MEMS ANTENNA Design"
18.09.2013	Prof. Apurbba K Sharma, Indian Institute of Technology Roorkee	MTT Chapter Sponsored Seminar. Processing of Metal-Based Materials using 2.45 GHz Microwaves with Applications in Joining and Cladding

19.09.2013	A R Harish, IIT kanpur	MTT Sponsored Seminar, RFID - Material Interaction
19.09.2013	MR ASHWANI KUMAR FACULTY, DRONACHRYA IES COACHING AGRA	FUNDAMENTALS OF EMFT AND APPLICATIONS
20.09.2013	Dr. Kailash N. Srivastava, ABB Sweden	Role and Value of Intellectual Property Rights
21.09.2013	IEEE MTT-S SIT Mathura	ONE DAY WORKSHOP ON EMBEDDED SYSTEM AND PLC SCADA
26.09.2013	Dr. Kailash N. Srivastava, ABB Sweden	Issues and Challenges of Future Electric Grid
04.10.2013	IIT Kanpur	PES meeting of the IEEE, Uttar Pradesh Chapter
05.10.2013	IEEE UP Section Executive Committee Meeting, IIT Roorkee	IEEE UP Section Executive Committee Meeting
12.10.2013	BIT Muzaffarnagar	Workshop on Advanced Robotics and Applications(Hand on Practice)
18.10.2013	Dr. Tanaya Guha, British Columbia, Canada	Classification and Similarity Measurement by Learning Sparse Representations
25.10.2013	THDC Institute Of Hydropower Engineering & Technology, Tehri	EXHIBITION ON ROBOTICS
27.10.2013	THDC Institute Of Hydropower Engineering & Technology, Tehri	TECHNICAL QUIZ
07.11.2013	Dr. Kumar Appaiah, New Jersey, United States	Signal Processing and Incoherent-MIMO for Multimode Optical Fibers
09.11.2013	Dr. PRABODH BAJPAI of Indian Institute of Technology Kharagpur	IEEE Lecture of IE/PEL/CS chapter on Recent advances in Indian Electricity Market
10.11.2013	BIT Muzaffarnagar	Seminar on Green ICT and Life cycle Assessment
11.11.2013	Dr. Kalyan Sen, Pittsburgh	Smart Power Flow Controllers for Smart Grid Applications
17.11.2013	IEEE Student Network Initiation Meet, Aligarh Muslim University, Aligarh	IEEE Student Network Initiation Meet

23.11.2013	Executive Committee Meeting CIS11, IIT Kanpur	Executive Committee Meeting CIS11
30.11.2013	IEEE UP Section MTT-S Chapter Annual Meeting, IIT Kanpur	IEEE UP Section MTT-S Chapter Annual Meeting
02.12.2013	Dr. Ajit Barve, California, United States	Heterostructure Engineering for Third Generation Infrared Photodetectors
27.12.2013	Prof. KR Srivathsan, Chinmaya Institute of Technology, Kannur	Architecting Information Dynamical Systems in IT Enabled Services
28.12.2013	IIT Kanpur	2nd PES meeting of the IEEE, Uttar Pradesh Chapter
29.12.2013	IEEE UP Section Executive Committee Meeting, BBD Lucknow	IEEE UP Section Executive Committee Meeting

B.4 Students Activities

- Total number of Student branches in the Section – 24
 1. IIT Kanpur
 2. MNNIT, Allahabad
 3. MMMEC Gorakhpur
 4. KNIT Sultanpur
 5. IET Lucknow
 6. IIT Roorkee
 7. IT-BHU Varanasi
 8. ABES Engineering College, Ghaziabad
 9. University of Allahabad
 10. Amity School of Engineering & Technology Noida
 11. Dr K N Modi Institute of Engineering & Technology, Modinagar
 12. Bhagwant Institute of Technology, Muzaffar Nagar
 13. Dehradun Institute of Technology
 14. Raj Kumar Goel Institute of Technology, Ghaziabad
 15. Krishna Inst of Engineering & Technology, Ghaziabad
 16. Sachdeva Institute of Technology, Mathura
 17. Jaypee Inst of Information Technology, Noida
 18. J.S.S. Academy of Technical Education, Noida
 19. Zakir Hussain College of Engineering & Technology, Aligarh
 20. G. L. A. G. L. A. University Mathura
 21. University of Petroleum & Energy Studies, Dehradun
 22. Hindustan Institute of Tech. and Management, Keetham, Agra
 23. Ajay Kumar Garg Engineering College, Ghaziabad
 24. Sherwood College of Engineering, Research & Technology, Barabanki (Student Branch Chapter for MTT Society)
- Number of Student branches formed in the current year – 17
 1. BSA College Of Engineering & Tech SB
 2. BipinTripathi Kumaon Institute of Technology SB
 3. Dayalbagh Educational Inst SB

4. Delhi Technological University SB
5. Dronacharya Group of Institutions SB
6. Graphic Era University SB
7. Indian Institute of Information Tech-Allahabad SB
8. Inst of Tech & Mgmt - Gorahpur SB
9. Integral University SB
10. JRE Group of Institutions, Greater Noida SB
11. Jamia Hamdard University SB
12. Motilal Nehru National Institute of Tech SB
13. THDC Inst of Hydropower Eng & Tech SB
14. United College of Engineering & Research SB
15. Galgotias College of Engineering And Technology SB
16. National Institute of Technology-Durgapur SB
17. SRM University, NCR Campus SB

B.5 Affinity Group Activities

- GOLD: Formation is under process
- WIE: Formation is under process

B.6 Awards & Recognition Activities

- Award constituted by the section: Nil
- Award(s) received from R10:Nil
- Award(s) received from IEEE HQ: One

B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year):Nil
- Home Page of the section (give the URL and frequency which it is updated)
http://www.ewh.ieee.org/r10/uttar_pradesh/
- Other means of contacts with section members: Email

B.8 Industry Relations

- Membership growth and retention: General visits to industry and promotion for growth & retention
- Activities for/with industrial members: Invited talks for and from Industry people

B.9 Humanitarian Technology Activities: SIGHT is being formed

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)": [IEEE day celebrated](#)

PART C - OTHERS

C.1 Relationship with National Societies: Yes, vis. IE(I), IETE(I)

C.2 Special Events: Nil

C.3 Problems to be Anticipated: Nil

C.4 Best Practices of your section (which you would like share with other sections for the benefits of members): Meetings held at different locations of sections.

PART D - GOALS AND PLANS

D.1 Continuation of Project/Activity in Progress and Their Implementation Plans

D.2 Goals and Future Plans

Various activities are planned such as

- (a) Increase in industry membership and participation
- (b) Formation of student branches at several institute/colleges/Universities
- (c) Implementation of invited lectures for students
- (d) Initiation of chapter awards
- (e) Organizing India Council Meeting
- (f) Many student related activities and SIGHT