

## Section Report 2014 (IEEE Uttar Pradesh Section)

### PART A - SECTION SUMMARY

#### A.1 Executive Summary –

IEEE Uttar Pradesh (UP) Section is one of the most active sections in India which can be seen from the numerous events and activities, awards and growth of membership. It has been continuously increasing for last two years in terms of opening of new student branches, new student branch chapters, section chapters and recently Nepal subsection. This section has received the 2013 EAB meritorious award in continuing education, first time in the R10. Recently one of the student branches is awarded Darrel Chong Student Activity award, 2014 in the Gold category. Several volunteers of the section have been awarded various awards in 2014.

In 2014, section took many initiatives such as creation of new sections awards, section conference known as UPCON, various DL activities, invitation to the society chapters presidents, IEEE President, etc. The section meetings are held at various locations of the section to increase the vibrancy which is seen in form its membership growth these years instead of declined membership in R10. New webpage of the section ([www.ieeeup.org](http://www.ieeeup.org)) is created with participation of students' competition. The WIE and SIGHT affinity groups are formed in 2014. IEEE UP Section has technically sponsored 17 conferences and 15 conferences are financially supported. In 2014, Section has organized 135 events including the meetings, lectures, student programs, etc.

- **Executive Committee (2014)**

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](mailto:snsingh@iitk.ac.in)
2. Vice-Chairperson- **Dr. Animesh Biswas**, EE Department, IIT Kanpur, [abiswas@iitk.ac.in](mailto:abiswas@iitk.ac.in)
3. Vice-Chairperson- **Dr. R.K. Singh**, EED, MNNIT, Allahabad, [rksingh@mnnit.ac.in](mailto:rksingh@mnnit.ac.in)
4. Secretary - **Dr. Nischal K Verma**, EE Department, IIT Kanpur, [nishchal@iitk.ac.in](mailto:nishchal@iitk.ac.in)
5. Joint Secretary - **Dr. Dilip Kumar Sharma**, Dept. of Computer Engineering & Applications, GLA University, Mathura, [dilip.sharma@gla.ac.in](mailto:dilip.sharma@gla.ac.in)
6. Treasurer – **Dr. Saikat Chakrabarti**, EE Department, IIT Kanpur [saikatc@iitk.ac.in](mailto:saikatc@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](mailto:scs@iitk.ac.in)
2. Convener, Electronic Communication and Promotion Committee - **Dr. Y.N. Singh**, EE Department, IIT Kanpur, [ysingh@iitk.ac.in](mailto:ysingh@iitk.ac.in)
3. Convener, Student Activities committee – **Dr. Rajesh Gupta**, Department of Electrical Engg, MNNIT Allahabad, [rajeshgupta@mnnit.ac.in](mailto:rajeshgupta@mnnit.ac.in)
4. Convener, Professional Activities Committee - **Dr. Adrish Banerjee**, EE Department, IIT Kanpur, [adrish@iitk.ac.in](mailto:adrish@iitk.ac.in)
5. Convener, Membership Development Committee – **Dr. Munesh Chandra Trivedi**, CSE Department, DIT School of Engineering, Greater Noida, [munesh.trivedi@gmail.com](mailto:munesh.trivedi@gmail.com)
6. Convener, Publication and section history committee - **Dr. A.R. Harish**, EE Department, IIT Kanpur, [arh@iitk.ac.in](mailto:arh@iitk.ac.in)
7. Convener, Educational Activities Committee – **Dr. Kumar Vaibhav Srivastava**, EE Department, IIT Kanpur, [kvs@iitk.ac.in](mailto:kvs@iitk.ac.in)

8. Convener, Women in Engineering (WIE) affinity Group-**Dr Vineeta Agrawal**, EE Department, MNNIT Allahabad, [vineeta@mnnit.ac.in](mailto:vineeta@mnnit.ac.in)
9. Convener, Young Professional group- **Dr Seethalekshmi K**, Director, BBDNITM, Lucknow, [seethalk07@gmail.com](mailto:seethalk07@gmail.com)
10. Convenor, Special Interest Group of Humanitarian Technology (SIGHT) group- **Dr Asheesh K Singh**, Department of Electrical Engineering, MNNIT Allahabad, [asheesh@mnnit.ac.in](mailto:asheesh@mnnit.ac.in)

#### **Chairpersons of various subsections / society chapters**

1. Chairperson, Roorkee subsection - **Dr. Vinod Kumar**, Dept. of Electrical Engg., IIT Roorkee, [vinodfee@iitr.ernet.in](mailto:vinodfee@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](mailto:rktripathi@mnnit.ac.in)
3. Chairperson, IEEE PE/IA (Power engineering/ industry application) chapter, **Dr. Saikat Chakraborti**, EE Department, IIT Kanpur, [saikatc@iitk.ac.in](mailto:saikatc@iitk.ac.in)
4. Chairperson, IEEE ED (Electronics devices) UP (Nepal) chapter - **Prof. Sitaram Prasad Byahut**, [sbyahut@gmail.com](mailto: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](mailto:arun_kmisra@hotmail.com)
6. Chairperson, IEEE MTT (Microwave Theory and Techniques) Joint chapter- **Dr. M Jaleel Akhtar**, EE Department, IIT Kanpur, [mjakhtar@iitk.ac.in](mailto:mjakhtar@iitk.ac.in)
7. Chairman, IEEE CIS Chapter- **Dr. Nischal K Verma**, EE Department, IIT Kanpur, [nishchal@iitk.ac.in](mailto:nishchal@iitk.ac.in)

#### **Other members of the Executive Committee**

1. Dr. Ajai Jain, CSE Department, IIT Kanpur, [ajain@iitk.ac.in](mailto:ajain@iitk.ac.in)
2. Dr. Jayanta Chatterjee, IME Department, IIT Kanpur, [jayanta@iitk.ac.in](mailto:jayanta@iitk.ac.in)
3. Dr. A .K. Chaturvedi, EE Department, IIT Kanpur, [akc@iitk.ac.in](mailto:akc@iitk.ac.in)
4. Dr. S. P. Das, EE Department, IIT Kanpur, [spdas@iitk.ac.in](mailto:spdas@iitk.ac.in)
5. Dr. Ekram Khan, Department of Electronics Engg, AMU, Aligarh, [ekhan67@gmail.com](mailto:ekhan67@gmail.com)
6. Dr. Yogesh S Chauhan, EE Department, [chauhan@iitk.ac.in](mailto:chauhan@iitk.ac.in)
7. Dr. Nandini Gupta, EE Department, [ngupta@iitk.ac.in](mailto:ngupta@iitk.ac.in)
8. Mr. Ramesh Negi, All-India Radio, [rameshnegi@yahoo.com](mailto:rameshnegi@yahoo.com)
9. Dr R. Gowri, Director, Graphic Era Hill University, Dehradun, [ravigowri07@gmail.com](mailto:ravigowri07@gmail.com)
10. Prof. R K Srivastava, EE Department, IIT (BHU), Varanasi, [rksrivastava.eee@itbhu.ac.in](mailto:rksrivastava.eee@itbhu.ac.in)
11. Dr. Anoop Singh, IME Department, IIT Kanpur [anoops@iitk.ac.in](mailto:anoops@iitk.ac.in)
12. Dr. Satish K Singh, IIT Allahabad, [sk.singh@iitk.ac.in](mailto:sk.singh@iitk.ac.in)
13. Dr. Narendra Kohli, CSE Department, HBTI, Kanpur, [kohli.hbti@gmail.com](mailto:kohli.hbti@gmail.com)
14. Dr. Mohd Rihan, EE Department, AMU Aligarh, [m.rihan.ee@amu.ac.in](mailto:m.rihan.ee@amu.ac.in),
15. Dr. Sanjeev Manhas, ECE Department, IIT Roorkee, [samanfec@iitr.ac.in](mailto:samanfec@iitr.ac.in)
16. Dr. Aseem Chandel, EE Department, BSA Mathura, [aseemchandel@gmail.com](mailto:aseemchandel@gmail.com)
17. Dr. Abhay Bansal, CSE Department, Amity University, Noida, [abansal1@amity.edu](mailto:abansal1@amity.edu)
18. Dr. Parma Nand Astya, School of CSE, Galgotia University, Noida, [astya2005@gmail.com](mailto:astya2005@gmail.com)
19. Mr. P Banerjee, IEEE Student Branch, IITK (student representative), [param@iitk.ac.in](mailto:param@iitk.ac.in)
20. Dr. Sunil Kumar Khatri, Director, AIIT, Amity University, Noida, [sunilkkhatri@gmail.com](mailto:sunilkkhatri@gmail.com)
21. Dr Seethalekshmi K, Director, BBDNITM, Lucknow, ([seethalk07@gmail.com](mailto:seethalk07@gmail.com))
22. Mr Sanjeev Sehgal, Indian Railways Allahabad ([sehgal\\_sanj@rediffmail.com](mailto:sehgal_sanj@rediffmail.com))
23. Mr Tarun Gupta, TCS Ghaziabad, ([tarun.gupta@tcs.com](mailto:tarun.gupta@tcs.com))

- **Major Events (International, National): SEMINAR/CONFERENCE/SYMPOSIUM etc**

*Technically Approved by IEEE UP Section:*

1. “International Conference on Signal Processing and integrated Networks (SPIN 2014)” during Feb 20- 21, 2014, has been organized by AMITY University Noida
2. “20th National Conference on Communications” during Feb28- March 2, 2014, has been organized by Indian Institute of Technology, Kanpur
3. “2014 International Conference on Information Systems and Computer Networks (ISCON 2014)” during March 1-2, 2014, has been organized by GLA University Mathura
4. “3rd International Conference on Advances in Control and Optimization of Dynamical Systems ACOODS-2014” during March 13 – 15, 2014, has been organized by Indian Institute of Technology, Kanpur.
5. “National Conference on Trends in Signal Processing Communication (TSPC 14)” during April 12 – 14, 2014, has been organized by BIT, Muzaffarnagar.
6. “3<sup>rd</sup> Students Conference on Engineering and Systems (SCES 2014)”, during May 28 – 30, 2014, has been organized by MNNIT Allahabad.
7. “International Conference on Advances in Engineering and Technology Research (ICAETR 2014)” during August 1 –2, 2014, has been organized by Dr. VirendraSwarup Group of Institutions, Ragendra Swarup Knowledge City, Unnao.
8. “International Conference on Soft Computing Techniques for Engineering & Technology, ICSTET-2014” during August 7–8, 2014, has been organized by Graphic Era Hill University, Bhimtal Campus.
9. “5<sup>th</sup> International Conference: Confluence 2014 on Next generation Information Technology Summit” during September 25–26, 2014, has been organized by Amity School of Engineering and Technology, Noida.
10. “International Conference on Computer and Communication Technology (ICCCT2014)” during September 26–28, 2014, has been organized by MNNIT, Allahabad.
11. “3<sup>rd</sup> International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO’ 2014)” during October 8–10, 2014, has been organized by Amity Institute of Information Technology (AIIT), Amity University, Noida.
12. “International Conference on Computer and Computational Intelligence” during January 27-29, 2015, has been organized by I.T.S. Engineering College, Greater Noida.
13. “Computational Intelligence Workshop (CIW 2014)” during October 13–15, 2014, has been organized by IIIT Allahabad.
14. “International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their impact on Humanity (CIPECH-14)” during November 28–29, 2014, has been organized by Krishna Institute of Engineering and Technology (KIET), Ghaziabad.
15. “Workshop on Optimization Techniques for Solving Multidisciplinary Research Problems in Engineering Sciences” during November 28–29, 2014, has been organized by ITS Engineering College, Greater Noida.

16. “9th International Conference on Industrial & Information Systems (ICIIS2014)” during December15–17, 2014, has been organized by ABV-IIITM, Gwalior.
17. “International Conference on Power Control and Embedded Systems (ICPCES) 2014” during December 26–28, 2014, has been organized by MNNIT, Allahabad.

**Following conference has been financially approved by IEEE UP Section:**

1. “National Workshop on MATLAB and Its Application in Electrical Engineering” during March 11-13, 2014, has been organized by BSA College of Engineering & Technology, Mathura.
2. “National Conference on Energy, Power and Intelligent Control Systems (EPICS)” during March 28-29, 2014, has been organized by Galgotias College of Engineering and Technology, Greater Noida.
3. “National Conference on Computer Intelligence and Robotics (NICCIR-14)” during April4-5, 2014, has been organized by ABES Engineering College, Ghaziabad.
4. “National Power and Energy System Conference (NPESC-2014)” during April 25-26, 2014, has been organized by Kamla Nehru Institute of Technology, Sultanpur.
5. “3rd Students’ Conference on Engineering and Systems (SCES-2014)” during May 28-30, 2014, has been organized by MNNIT, Allahabad.
6. “Summer Internship Program (SIP)” during June 4-July12, 2014, has been organized by Electrical Engineering Department, MNNIT, Allahabad.
7. Workshop on “Application to Microprocessor to Real World Problem” during July 1-August 1, 2014, has been organized by THDC Institute of Hydropower Engineering & Technology, Bhagirathipuram, Tehri, Uttarakhand.
8. National workshop on “Emerging Trends in Information Retrieval” on September 27, 2014, has been organized by GLA University, Mathura.
9. “IEEE Day Celebration” on October 1, 2014, has been organized by AMU, Aligarh.
10. ABES EC Student branch organized event OCTARATHON during October 7-13, 2014.
11. “National Conference on Recent Trends in Parallel Computing” on November 1-2, 2014, has been organized by Mangalayatan University, Aligarh.
12. “IEEE Student Leadership workshop” on November 1, 2014, has been organized by IIIT Allahabad.
13. “Section Website Design Competition” on November 1, 2014, has been organized by IIIT Allahabad.
14. Technical Quiz during November 8-9, 2015 has been organized by IEEE SB IIIT Allahabad.
15. “Industry People Meet” on December 27, 2014, has been organized by MNNIT Allahabad.

**A.2 Financial Report –**

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

<b>IEEE</b>
<b>IEEE : Region 10 : Region 10 INR</b>
<b>Balance Sheet</b>
<b>End of FY 2014</b>

Financial Row	Amount
<b>Current Assets</b>	
<b>Bank</b>	
70218 - State Bank of India UTTAR PRADESH	Rs.1,510,752.12
74158 - Non IEEE Investment (CD) UTTAR PRADESH	Rs. 397,644.00
<b>Total Bank</b>	<b>Rs.1,908,396.12</b>

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

- Total number of active members in the year 2014: **2328**
- Fellow Member: 0
- Life Member: 1
- Life Senior Members: 2
- Senior Members: 102
- Members: 823
- Associate Member: 25
- Student Members: 782
- Graduate Student Members: 579
- Affiliate Members: 14
  
- **Roorkee subsection: 308**  
Events: 2 Administrative/6 Technical/2 Professional
- **Nepal Subsection: 40**  
Events: Technical/ Professional (Newly Formed)

### B.2 Chapter Activities

- **Total number of Chapters in the Section – 7+1**
- **Number of Chapters formed in the current year-1**
  - IEEE CAS/SSC (Circuit and Systems/Solid State Circuit ) Joint chapter  
Members: 69  
Events: Technical/ Professional (NEW)
- **Summary of Chapter activities chapter wise**
  - IEEE IE/PEL/CS (industrial electronics/ power electronics/ control systems) Joint chapter  
Members: 39/49/33  
Events: 1 Technical, 2 Administrative/5 Technical/3 Professional
  - IEEE PE/IA (Power engineering/ industry application) chapter  
Members: 228/55  
Events: 4 Administrative/9 Technical/1 Professional
  - IEEE ED (Electronics devices)  
Members: 82  
Events: 1 Technical/2 Professional
  - IEEE SP/C (signal processing/ computer) Joint chapter  
Members: 49/159  
Events:
  - IEEE MTT chapter  
Members: 156  
Events: 2 Administrative/15 Technical/1 Professional
  - IEEE CIS  
Members: 64  
Events: 3 Administrative/4 Technical
  - IEEE WIE  
Members: 197  
Events: 3 Technical/1 Professional

- IEEE CAS/SSC (Circuit and Systems/Solid State Circuit ) Joint chapter  
Members: 69  
Events: Technical/ Professional

### 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 2014

DATE	NAME & ADDRESS	TITLE OF SEMINAR	Venue
01.01.2014	Prof. Sunil Khatri, Texas A&M University, USA	Application of Logic Synthesis	IIT Kanpur
03.01.2014	PulkitAgrawal, UC Berkley, California USA	Brain Reading	IIT Kanpur
06.01.2014	Prof Muhammad H. Rashid, University of West Florida, USA	OUTCOME BASED EDUCATION	Sachdeva Institute Of Technology, Farah, Mathura
06.01.2014	Vikas Rai, Sachdeva Institute Of Technology, Farah, Mathura	MTT17 AGM	Sachdeva Institute Of Technology, Farah, Mathura
08.01.2014	Prof. NavinKhaneja, Harvard School of Engineering and Applied Sciences, MA, USA	Control of Coupled Spin Dynamics	IIT Kanpur
10.01.2014	Aseem Chandel, BSA College of Engg Tech, Mathura	Student Branch AGM	BSA College of Engg Tech, Mathura
17.01.2014	Dr Mohd Rihan, AMU, Aligarh	IEEE AMU Annual GBM 2014	AMU, Aligarh
25.01.2014	Dr S. N. Singh, IIT Kanpur	IEEE UP Section Executive Committee Meeting	IIT Kanpur
25.01.2014	Dr S. N. Singh, IIT Kanpur	IEEE UP Section AGM	IIT Kanpur
31.01.2014	Dr. Pulkit Jain, Intel Corporation, Oregon, USA	Methodologies for Statistical Characterization of Circuit Reliability in Advanced Silicon Processes	IIT Kanpur
01.02.2014	Dr Mohd Rihan, AMU, Aligarh	STUDENT BRANCH OFFICERS TRAINING PROGRAM	AMU, Aligarh
04.02.2014	Jeffrey Pawlan, Pawlan Communications USA. Raviteja Chivukula, National Instruments, Bangalore	A workshop on "Software Defined Radio (SDR) Development Using LabVIEW"	IIT Roorkee
06.02.2014	Prof. Nihar Mohapatra, IIT Gandhinagar	CMOS Technology Challenges and Opportunities beyond 22nm Node	IIT Kanpur
12.02.2014	Mr. Puneet Anand, ENTUPLE Technologies, Banglore	Training cum Workshop on ANSYS HFSS	SACHDEVA INSTITUTE OF TECHNOLOGY, FARAH, MATHURA
12.02.2014	Mr. Mahesh Chandra, NIIT Technologies	Workshop on "Problem Solving and Solution Optimization in IT"	Dronacharya Group of Institutions, Greater Noida
12.02.2014	Prof B.H KHAN, AMU, Aligarh	How to Write a Technical Paper	AMU, Aligarh

15.02.2014	Rajeev Kanth, University of Turku, Finland	Workshop on Nanotechnology and Life Cycle Assessment	BIT Muzaffarnagar
15.02.2014	AseemChandel, BSA College of Engg Tech, Mathura	Industrial Tour	BSA College of Engg Tech, Mathura
17.02.2014	Dr Mohd Rihan, AMU, Aligarh	A Lecture on 'How to Give Effective Power Point Presentation'	AMU, Aligarh
26.02.2014	Sean Liu, Anritsu, USA	Students Interaction Program	BSA College of Engg Tech, Mathura
26.02.2014	Satish Kumar Pandey, National Institute for Entrepreneurship & Small Business Development	Workshop on " Tally Customization with Tally Definition Language(TDL)"	Dronacharya Group of Institutions, Greater Noida
26.02.2014	Dr. Mukesh Kumar, Linear Technology, USA	An Interactive Talk on Analog IC Design	IIT Roorkee
26.02.2014	Sean Liu, Anritsu, USA	EXPERT TALK ON RF MEASUREMENTS	Sachdeva Institute Of Technology, Farah, Mathura
28.02.2014	Abhilash Rawat, THDC, New Tehri	Interaction program	THDC, New Tehri
10.03.2014	Prof. Vijay Vittal, Arizona State University, USA	Improved grid resiliency through interactive system control	IIT Kanpur
10.03.2014	Dr. Shilpi Gupta, Maryland, USA	Enhanced light-matter interactions using quantum dots and photonic crystal cavities at room temperature	IIT Kanpur
11.03.2014	Agam Kumar Tyagi, UPES Dehradun	National Work Shop on MATLAB and Its application in Electrical engg	BSA College of Engg Tech, Mathura
14.03.2014	Prof. Abhisek Dixit, Delhi India	CAD Enabled Sub-10nm-FinFET Device Design	IIT Kanpur
14.03.2014	Raju Khanal, Tribhuvan University, Nepal	Fusion: Creating Star on Earth.	Tribhuvan University, Nepal
25.03.2014	Dr. Purna Gaur, Delhi India	Workshop on "Renewable Energy Simulation Using MATLAB"	Dronacharya Group of Institutions, Greater Noida
26.03.2014	Amit Kumar Srivastava, Nucleus Software, India	Workshop on 'UI Technology using Java'	Dronacharya Group of Institutions, Greater Noida
28.03.2014	Dr. R. K. Srivastava, IIT (BHU) Varanasi	Perceptron – An Image Processing workshop-cum-competition	IIT (BHU) Varanasi
29.03.2014	Dr. N. K. Verma, IIT Kanpur	CIS Executive Committee Meeting	IIT Kanpur
29.03.2014	Prof. R. K. Tripathi, MNNIT Allahabad	IEEE joint Chapter IE/PEL/CS celebration for Earth Hour	MNNIT Allahabad
30.03.2014	Abhilash Rawat, THDC, New Tehri	Industrial visit	THDC, New Tehri
02.04.2014	Vijay K. Arora, Wilkes University, USA	A Short Course on Nanotechnology Journey from Quantum Physics to Nanoengineering	IIT Roorkee
05.04.2014	Dr S. N. Singh, IIT Kanpur	1 <sup>st</sup> IEEE UP Section Executive Committee Meeting	ABES Engineering College, Ghaziabad
09.04.2014	Dr. R. K. Srivastava, IIT (BHU) Varanasi	GBM of IEEE IIT (BHU) Varanasi Student Branch	IIT (BHU) Varanasi
11.04.2014	Aseem Chandel, BSA College of Engg Tech, Mathura	General Meeting of IEEE Student Branch	BSA College of Engg Tech, Mathura

12.04.2014	Prof Bhim Singh, IIT Delhi	DSP Applications in Power Electronics & Motion Control	Bhagwant Institute of Technology, Muzaffarnagar
12.04.2014	Prof Dharmendra Singh, IIT Roorkee	Advanced Microwave Imaging through signal processing	Bhagwant Institute of Technology, Muzaffarnagar
20.04.2014	Dr Mohd Rihan, AMU, Aligarh	Paper Presentation Competition "Newtonstein"	AMU, Aligarh
22.04.2014	Prof. Pramod K. Varshney, Syracuse University, USA	Distributed Inference in the Presence of Byzantines	IIT Kanpur
29.04.2014	Dr. Dilip Sharma, GLA University Mathura	Computer Awareness Workshop for Housewives	GLA University Mathura
03.05.2014	Prof. D S Chauhan, GLA University Mathura	One week workshop, on Computer awareness for house wives	GLA University Mathura
03.05.2014	Dr. Dilip Sharma, GLA University Mathura	Mini Project Competition	GLA University Mathura
30.04.2014	Prof. Sivaji Chakravorti, Jadavpur University, India	Dr. M A Pai Distinguished Lecture	IIT Kanpur
01.05.2014	Mr. Amit Saini, Cadre Design Systems, India	A Workshop on "Introduction to Visual TCAD"	IIT Roorkee
05.05.2014	Dr. G. Rajshekhar, University of Illinois, USA	Quantitative phase imaging techniques for engineering and biomedical applications	IIT Kanpur
09.05.2014	Dr Mohd Rihan, AMU, Aligarh	IEEE AMU Summer School	AMU, Aligarh
13.05.2014	Dr. Kaushik Mitra, Rice University, USA	Signal Processing Meets Optics: Theory, Design and Inference for Computational Imaging	IIT Kanpur
20.05.2014	Venkatesh Balasubramanian, Maury Microwave, USA	A seminar on "The RF Measurement System and Device Characterization"	IIT Roorkee
21.05.2014	Dr S. N. Singh, IIT Kanpur	2 <sup>nd</sup> IEEE UP Section Executive Committee Meeting	Graphic Era Hill University, Bhimtal
28.05.2014	Dr. Vineeta Agarwal, MNNIT Allahabad	First Meeting of IEEE WIE Uttar Pradesh Section	MNNIT Allahabad
29.05.2014	Dr. Rajesh Gupta, MNNIT Allahabad	IEEE UP Section Student members and Student Chairs meeting	MNNIT Allahabad
30.05.2014	SP Kaushik, Dr KN modi group, India & A K De Bhomick, BGI Muzaffarnagar UP	A National Level Project Competition (SRAJAN 14 )	Bhagwant Institute of Technology, Muzaffarnagar
01.06.2014	Ankur Kamboj,	Training on Computer Literacy Program for Rural Students ("DIKSHA" 2014)	Bhagwant Institute of Technology, Muzaffarnagar
02.06.2014	Dr. S.N. Singh, IIT Kanpur	Talk program on "Recent Trends on Power System"	Tribhuvan University, Nepal
02.06.2014	Dr Mohd Rihan, AMU, Aligarh	IEEE AMU General Body Meeting	AMU, Aligarh
06.06.2014	Dr. N. K. Verma, IIT Kanpur	CIS Executive Committee Meeting	IIT Kanpur
21.07.2014	Dr. Pinaki Sarder, Washington University St. Louis, USA	Design, Implementation, and Imaging of Position-Encoded Microfluidic Microsphere-Trap Arrays	IIT Kanpur
23.07.2014	Dr. Abheejeet Mohapatra, IIT Delhi	New Efficient Techniques in Power System Analysis and Optimization	IIT Kanpur



29.07.2014	Dr. Anand Bulusu, IIT Roorkee	IEEE Student Chapter General Body Meeting	IIT Roorkee
02.08.2014	Dr. Anand Bulusu, IIT Roorkee	IEEE Student orientation program for Freshers	IIT Roorkee
03.08.2014	Dr. S.N. Singh, IIT Kanpur	2 <sup>nd</sup> IEEE UP Section Executive Committee Meeting	IIT Kanpur
09.08.2014	AseemChandel, BSA College of Engg Tech, Mathura	Women Empowerment through Development of Soft Skills	BSA College of Engg Tech, Mathura
14.08.2014	Prof. S. N. Singh, IIT Kanpur	General Meeting of PES IAS	IIT Kanpur
19.08.2014	Dr. Anil RamRakhyani, University of Utah, USA	MAGNETIC COILS FOR BIOMEDICAL APPLICATIONS	IIT Kanpur
22.08.2014	Dr. VaibhavTripathi, Stanford University, USA	Analog to Digital Converters in Nano-CMOS Technologies	IIT Kanpur
24.08.2014	Dr. R. K. Srivastava, IIT (BHU) Varanasi	Orientation Ceremony for First Year Students	IIT (BHU) Varanasi
28.08.2014	Prof. B. Bandyopadhyay, IIT Bombay	Continuous Integral Sliding Mode Control: A Second Order Sliding Mode Approach	MNNIT Allahabad
30.08.2014	Dr. Anand Bulusu, IIT Roorkee, IIT Roorkee	IEEE Special Interest Group (SIG) Meeting	IIT Roorkee
04.09.2014	Shyam Parthasarathy, IBM Bangalore	RF CMOS circuits and roadmap for 5G technologies	IIT Kanpur
04.09.2014	Dr. Rakesh Kumar, TCX Technology Connexions	Webinar on 'Innovation and Entrepreneurship Opportunities in the IC world'	IIT Roorkee
05.09.2014	AseemChandel, BSA College of Engg Tech, Mathura	Technical Quiz	BSA College of Engg Tech, Mathura
05.09.2014	Prof. Ramesh Garg, IIT Kharagpur	Pattern Diversity Antenna Design for Hand-held Terminals	IIT Kanpur
05.09.2014	Dr. Dilip Sharma, GLA University Mathura	Teachers Day and IEEE WIE 20 years Celebration	GLA University Mathura
09.09.2014	Pratik Khurana, Keysight Technologies	Design of RF Circuits using KeysightEEsof EDA Design Tools	IIT Kanpur
10.09.2014	IEEE Joint Society Chapter (IE/PEL/CS) Lecture by Prof. K. N. Srivastava	Why HVDC??	MNNIT Allahabad
10.09.2014	Dr. Anand Bulusu, IIT Roorkee, IIT Roorkee	An urgent meeting for "Electing a new treasurer for IEEE MTT-S SBC IIT Roorkee"	IIT Roorkee
12.09.2014	Dr. Dilip Sharma, GLA University Mathura	Online Aptitude Test "APTI-QUEST"	GLA University Mathura
13.09.2014	Dr. Anand Bulusu, IIT Roorkee, IIT Roorkee	IEEE Special Interest Group (SIG) Meeting	IIT Roorkee
15.09.2014	AseemChandel, BSA College of Engg Tech, Mathura	General Meeting IEEE Student Branch BSACET	BSA College of Engg Tech, Mathura
16.09.2014	Dr. Kailash Nath Srivastava, ABB Sweden	Recent advances in HVDC technology	IIT Kanpur
19.09.2014	Dr. M. K. Radhakrishnan, NanoRel Technical Consultants, Singapore	Silicon Nanodevices – Analysis Challenges and Interface physics	IIT Roorkee

19.09.2014	Dr. Gananth Dash, Sambalpur University, INDIA	Graphere based Elctron devices	IIT Roorkee
19.09.2014	Dr. A. Dixit, IIT Delhi	Designing CMOS Devices and Circuits using Calibrated Models	IIT Roorkee
20.09.2014	Dr. N. K. Verma, IIT Kanpur	CIS Executive Committee Meeting	IIT Kanpur
20.09.2014	Dr. R. K. Srivastava, IIT (BHU) Varanasi	National Distinguished Lecture Program, Speakers: Dr. S. N. Mahendra, Dr. U. S. Tiwary	IIT (BHU) Varanasi
27.09.2014	Dr. Anand Bulusu, IIT Roorkee, IIT Roorkee	IEEE Special Interest Group (SIG) Meeting	IIT Roorkee
28.09.2014	Prof. S. N. Singh, IIT Kanpur	4 <sup>th</sup> IEEE UP Section Executive Committee Meeting	Amity University, Greater Noida
29.09.2014	Dr S. N. Singh, IIT Kanpur	Electrical Power System:Emerging trends and Future Challenges	BSA College of Engg Tech, Mathura
29.09.2014	Agam Kumar Tyagi, UPES Dehradun Deepak Parashar, BSA College of Engg Tech, Mathura	National Work on Matlab and its Application in Power Industry	BSA College of Engg Tech, Mathura
29.09.2014	Dr. Santanu Mahapatra, IISc Bangalore	How to use atomistic simulator for electron device research	IIT Kanpur
30.09.2014	Rajesh Kumar, Sachdeva Institute Of Technology, Farah, Mathura	ANNUAL GENERAL MEETING	Sachdeva Institute Of Technology, Farah, Mathura
30.09.2014	Rajesh Kumar, Sachdeva Institute Of Technology, Farah, Mathura	Debate & Quiz	Sachdeva Institute Of Technology, Farah, Mathura
30.09.2014	Dr. K. N. Srivastava, ABB Global Research Lab, Sweden	Utility Scale Energy Storage Systems - Applications and Technologies	IIT Kanpur
07.10.2014	Rajesh Kumar, Sachdeva Institute Of Technology, Farah, Mathura	IEEE Day Celebration	Sachdeva Institute Of Technology, Farah, Mathura
07.10.2014	Surabhi Gupta, Abhilasha Sharma, BSA College of Engg Tech, Mathura	IEEE Day Celebration	BSA College of Engg Tech, Mathura
07.10.2014	ABES EC Student Branch, Ghaziabad	IEEE Day Celebration	ABES EC, Ghaziabad
07.10.2014	Prakhar Jain, THDC-IHET	IEEE Day Celebration	THDC-IHET
07.10.2014	Prof. Krishna Kant, GLA University, Mathura	IEEE Day Celebration	GLA University, Mathura
07.10.2014	Dr. Rajesh Gupta, MNNIT Allahabad	IE/PEL/CS Chapter IEEE Day Celebration	MNNIT Allahabad
07.10.2014	Dr. R. K. Srivastava, IIT (BHU) Varanasi	IEEE Day Celebration	IIT (BHU) Varanasi
10.10.2014	Madhav Pathak, IIT Roorkee	IEEE Day Celebration	IIT Roorkee
12.10.2014	Madhav Pathak, IIT Roorkee	IEEE Workshop 'Introduction to VHDL and Verilog'	IIT Roorkee
15.10.2014	Satish Singh, IIIT Allahabad	Project Carnival	IIIT Allahabad
19.10.2014	Dr. AmruturBradwaj, IISc Bangalore	Ultra Low Voltage Design: Challenges and Opportunities	IIT Roorkee
19.10.2014	Dr. NagendraKrishnapura, IIT Madras	Synthesis of opamp and phase-locked loop topologies from first principles	IIT Roorkee

19.10.2014	Dr. Bishnu Prasad Das, IIT Roorkee	Warning flipflop	IIT Roorkee
19.10.2014	Dr. Nagendra Prasad Pathak, IIT Roorkee	RFIC design	IIT Roorkee
31.10.2014	Juin J. Liou, University of Central Florida, USA	Outlook and Challenges of Electrostatic Discharge (ESD) Protection of Modern and Future Integrated Circuits	Tribhuvan University, Nepal
02.11.2014	Prof. S. N. Singh, IIT Kanpur	5 <sup>th</sup> IEEE UP Section Executive Committee Meeting	IIT Allahabad
07.11.2014	Ananjan Basu, IIT Delhi	A Seminar on "Recent Developments in CMOS RFIC "	IIT Roorkee
07.11.2014	Dr. R. K. Srivastava, IIT (BHU) Varanasi	Emotion Detection Workshop	IIT (BHU) Varanasi
09.11.2014	Dr. Mithilesh Kumar, Government Engineering College, Jhalawar (Rajasthan)	Basics of Antenna Theory & Portable Antenna	Sachdeva Institute Of Technology, Farah, Mathura
09.11.2014	Dr. MadhurDeoUpadhyay, Shiv Nadar University, Greater Noida	Introduction to Reconfigurable UWB Portable Antennas	Sachdeva Institute Of Technology, Farah, Mathura
14.11.2014	Rajesh Kumar, Sachdeva Institute Of Technology, Farah, Mathura	Children's Day Celebration	Sachdeva Institute Of Technology, Farah, Mathura
21.11.2014	Mohd. Aamir Khan, GLA University, Mathura	Workshop on Basics of Linux	GLA University, Mathura
26.11.2014	Abhishek Kumar Awasthi, Saurav Kushmanda, IIT Kanpur	Demonstration of Full Wave Electromagnetic Solver Computer Simulation Technology	IIT Kanpur
27.11.2014	Dr. Santanu Mishra, IIT Kanpur	Inauguration of IEEE-IAS Student Branch Chapter	IIT Kanpur
29.11.2014	A S Jalal, GLA University, Mathura	Navonmesh'14 :- Technical Fest	GLA University, Mathura
06.12.2014	Mr Ashish Sharma, GLA University, Mathura	Workshop on Android Apps	GLA University, Mathura
08.12.2014	Prof. K. R. Srivathsan, Chinmaya Institute of Technology	Modern Perspectives on Quality and Quality Assurance in Education	IIT Kanpur
08.12.2014	Prof. Charul Bhatnagar, GLA University, Mathura	Indian Constitutional Provisions against Sexual Harassment	GLA University, Mathura
08.12.2014	Dr. Rachna Rastogi, GLA University, Mathura	Verbal and Behavioural Art: A Pro-Active Approach for Self Defence Techniques	GLA University, Mathura
12.12.2014	Aseem Chandel, BSA College of Engg Tech, Mathura	Technical Quiz	BSA College of Engg Tech, Mathura
12.12.2014	Aseem Chandel, BSA College of Engg Tech, Mathura	Annual General Meeting	BSA College of Engg Tech, Mathura
13.12.2014	Prof. Madhu S Gupta, University of California, San Diego, USA	Microwave Engineering: What is it, where is it headed, and how it serves the mankind	IIT Roorkee
13.12.2014	Prof Animesh Biswas, IIT Kanpur	Substrate Integrated Waveguide Circuits And Antennas	IIT Roorkee
13.12.2014	Prof. Kalyanmoy Deb, Michigan State University, USA	DLP Talk On Evolutionary MultiCriterion Optimization: Introduction to Theories and Applications	IIT Kanpur

27.12.2014	Prof. B. V. PHANI, IIT Kanpur	Innovation Ecosystem - IP Protection and Commercialisation	IIT Kanpur
27.12.2014	Mr. Sanjeev Sehgal, Indian Railways and Dr. Rajesh Gupta, MNNIT Allahabad	IEEE Industrial Interaction Meeting	MNNIT Allahabad
28.12.2014	Prof. S. N. Singh, IIT Kanpur	6 <sup>th</sup> IEEE UP Section Executive Committee Meeting	MNNIT Allahabad
29.12.2014	Prof. Krishna Shenai, Northwestern University, USA	Wide Bandgap Power Electronics	IIT Kanpur

#### B.4 Students Activities

Many student programs are organized including the leadership workshop, Branch chairs meet, 3<sup>rd</sup> Student conference, etc. which can be seen from the activities.

- Total number of Student Branches in the Section: **37**
  1. IIT Kanpur
  2. MMMEC Gorakhpur
  3. KNIT Sultanpur
  4. IET Lucknow
  5. IIT Roorkee
  6. IIT (BHU) Varanasi
  7. ABES Engineering College, Ghaziabad
  8. University of Allahabad
  9. Amity School of Engineering & Technology Noida
  10. Dr K N Modi Institute of Engineering & Technology, Modinagar
  11. Bhagwant Institute of Technology, Muzaffar Nagar
  12. Dehradun Institute of Technology
  13. Raj Kumar Goel Institute of Technology, Ghaziabad
  14. Krishna Instof Engineering & Technology, Ghaziabad
  15. Sachdeva Institute of Technology, Mathura
  16. JaypeeInst of Information Technology, Noida
  17. J.S.S. Academy of Technical Education, Noida
  18. Zakir Hussain College of Engineering & Technology, Aligarh
  19. G. L. A. University Mathura
  20. University of Petroleum & Energy Studies, Dehradun
  21. Hindustan Institute of Tech. and Management, Keetham, Agra
  22. Ajay Kumar Garg Engineering College, Ghaziabad
  23. Sherwood College of Engineering, Research & Technology, Barabanki (Student Branch Chapter for MTT Society)
  24. BSA College Of Engineering & Tech SB
  25. Bipin Tripathi Kumaon Institute of Technology SB
  26. Dayalbagh Educational Inst SB
  27. Dronacharya Group of Institutions SB
  28. Graphic Era University SB
  29. Indian Institute of Information Tech-Allahabad SB
  30. Inst of Tech &Mgmt - Gorahpur SB
  31. Integral University SB
  32. JRE Group of Institutions, Greater Noida SB
  33. Motilal Nehru National Institute of Tech SB
  34. THDC Inst of Hydropower Eng& Tech SB
  35. United College of Engineering & Research SB
  36. Galgotias College of Engineering And Technology SB
  37. SRM University, NCR Campus SB

- Number of Student Branches formed in the current year: 10

1. G. L. Bajaj Group of Institutions - Mathura SB
2. Galgotias University SB
3. IMS Engineering College - Ghaziabad SB
4. ITS Engineering College SB
5. Maharaja Agrasen Inst of Tech SB
6. Shepherd School of Eng and Tech SB
7. Manav Rachna College of Engineering SB
8. Gokaraju Rangaraju Inst of Eng & Tech SB
9. Siddaganga Inst Of Tech
10. Reva Institute of Technology and Management SB

- Total number of Student Branch Chapters in the Section: **14**

1. BSA College Of Engineering & Tech, PE31
2. Bhagwant Institute of Technology MTT17
3. Hindustan Inst of Tech and Mgmt Keetham Agra MTT17
4. Indian Inst of Technology-Roorkee, CAS04
5. Indian Inst of Technology-Roorkee, ED15
6. Lovely Professional University RA
7. Sachdeva Institute of Technology, AP03
8. Sachdeva Institute of Technology, C16
9. Sachdeva Institute of Technology, MTT17
10. Sherwood Coll of Eng Rch& Tech, Barabanki, MTT17
11. THDC Inst of Hydropower Eng& Tech, PE31
12. THDC Inst of Hydropower Eng& Tech, RA24
13. United College of Engineering & Research, MTT17
14. University of Allahabad, C016

- Number of Student Branch Chapters formed in the current year: **13**

1. ABES Engineering College Branch Chpt, MTT17
2. ABES Engineering College, MTT17
3. ABES Engineering College, WIE
4. BSA College Of Engineering & Tech, WIE
5. G. L. A. University - Mathura, C16
6. G. L. A. University Mathura WIE
7. ITS Engineering College, PE31
8. ITS Engineering College, WIE
9. Indian Inst of Technology-Kanpur, IA34
10. Indian Inst of Technology-Kanpur, MTT17
11. Indian Inst of Technology-Roorkee, MTT17
12. Motilal Nehru National Institute of Tech, PE31
13. THDC Inst of Hydropower Eng & Tech, WIE

## **B.5 Affinity Group Activities**

- WIE: Formation is completed  
Various activities of WIE are such as Computer Awareness Workshop for house wives and WIE Student chapter meets. Several WIE chapters are formed in the sections.
- SIGHT: Formation is completed and various SGHT projects with help of R10 and Section are underway.

## B.6 Awards & Recognition Activities

- **Award constituted by the section:4**
  1. Outstanding Branch Counselor Advisor Award: Dr. Mohd. Rihan
  2. Outstanding Section Volunteer Award: Dr. Rajesh Gupta and Mr. Dhawan Gupta
  3. Best Student Branch Chapter Award: IEEE-SB-IIT-Allahabad
  4. Largest Student Branch Award: IIT-BHU
- **Award(s) received from R10:**
  1. R10 Major Educational Innovation to Dr YN Singh
  2. Mr. Sagar Bhardwaj, (Student AMU, Aligarh) to be a part of Region 10 Social Media Wing
- **Award(s) received from IEEE HQ:**
  1. Dr. Rajesh Gupta (Motilal Nehru National Inst. of Tech. Allahabad)- IEEE Outstanding Branch Counselor Award, by IEEE Headquarter
  2. Dr. Sanjeev Kumar (Amity School of Engineering and Technology)- IEEE Outstanding Branch Counselor Award, by IEEE Headquarter
  3. Darrel Chong Student Activity award, 2014 in the Gold category

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

- New Home Page of the section launched (give the URL and frequency which it is updated) <http://www.ieeeup.org> . The newsletter is generated through this URL and send to all the members.

## B.8 Industry Relations

- **Membership growth and retention:** Excom members approached many industries for renewal and to have the activities in their premise. General visits and promotion for growth & retention
- **Activities for/with industrial members:** We had one Industry meet and planned to have in future. There were 10 industry people came and expressed their viewed and agreed to promote the industry linkage in future too. Many industry people from Indian Railways, ABB Sweden and other places are invited for talk. Industrial visits to the students are also organized.

## B.9 Humanitarian Technology Activities:

SIGHT has been formed in the section. Activities related to SIGHT are started with the help of R10 and Section funding.

## B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Day, etc)": IEEE day celebrated. SIGHT projects are funded from the R10 and Section are under execution.

## PART C - OTHERS

**C.1 Relationship with National Societies:** Yes. Section is actively involved with the local /national societies, vis. IE(I), IETE(E). UP Section organized Engineers day on 15 September with IE(I) and IETE(I). Many technical events are planned with IE(I), Kanpur Local Center.

**C.2 Special Events:** Section organized the programs for the house wives such as computer usage, self defense against the eve teaser etc.

**C.3 Problems to be Anticipated:** The membership retention is one of the major concerns and UP Section is providing all the helps to the members to continue their membership.

**C.4 Best Practices of your section (which you would like share with other sections for the benefits of members):** Various initiatives are taken such as

1. Meetings held at different locations of sections.
2. Organize the Section Excom meeting in parallel with the Section sponsored conferences.
3. Approaching the industry and the Institute where limited members are there for forming the branches and chapters.
4. Organizing the leadership workshops for the volunteers of Section.

## **PART D - GOALS AND PLANS**

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

As in previous years, our basic goal remains one of providing an interesting and professionally exciting set of technical activities for our members so that we can help in promoting their professional growth. We will continue to hold as many good quality technical meetings as possible to achieve this goal and would like them to be held in a distributed manner in the geographical section represented by us, i.e. the U.P. Region. In the U.P. Region, wherever we have a sufficient concentration of members or where we feel that IEEE membership can be promoted, we have been organizing and would like to continue to organize technical activities (or help in organizing them). This has helped and will help further in our goal of promoting IEEE membership within the engineering professionals and students in this area. Projects on WIE and SIGHT are done in last year and the same will continue in years to come.

### **D.2 Goals and Future Plans**

We will continue to promote other regular technical activities in the U.P. Region by providing joint sponsorship, support and publicity to conference and symposia organized in and around this region. We continue to encourage our members to promote such activities and assist them in organizing these as far as possible. We intend to use our communication channels (email, WWW web page, newsletter etc.) to publicize these activities so that our members can gain maximum advantage from them. We also generally request the organizers of these activities to charge a reduced registration fee for IEEE members so that we can then use this to promote the benefits of IEEE membership.

We plan to encourage student membership by organizing activities focused on students' needs. We plan to organize useful panel discussions as has been done in the past. We also plan to organize site visits to local industrial organizations, power stations and laboratories for them. We are considering starting some lectures and group discussions, which can help in providing career guidance and counseling to students. We wish to promote better industry academia ties in our region and the first two special initiatives are planned accordingly.

Various activities are planned such as

- (a) Increase in industry members with various industries meet in the IEEE UP Section conference.
- (b) Formation of student branches at several potential institutes and providing the guidance to organize the various activities.
- (c) Implementation of invited lectures with DL and local speakers
- (d) Invitation of chapter awards as created in 2014.
- (e) Organizing India Council Meeting at the section. Bidding for TENCON and TENSYSM in the section.
- (f) Many student related activities