

## Region 10 Section Report – Bombay Section

### PART A - SECTION SUMMARY

#### A.1 Executive Summary

- Section Executive Committee Member List

No	Name	Position
1	Mr. Abhay A. Phansikar	Section Chair
2	Prof. Suryanarayana Doolla	Section Vice Chair
3	Dr. Vinit Kotak	Section Vice Chair
4	Dr. B Satyanarayana	Section Secretary
5	Prof. Sanjay Pawar	Section Treasurer
6	Mr. Anthony Lobo	Immediate Past Chair
7	Mr. Anand Gharpure	Section Jt. Secretary
8	Dr Saurabh Mehta	Technical & Professional Activities Chair
9	Prof (Ms) Ashwini Kotrashetti	Section Jt. Treasurer
10	Prof Milind Mushrif	Member
11	Aiyappan Pillai	Member
12	Mr Dnyaneshwar Kamble	Member
13	Dr Sanjay Dorle	Member
14	Seema Kawale	Member, WIE Chair
15	Hitesh Mehta	Member, Industry Relations Chair
16	Prof. Kiran Talele	Member, Student Activities Chair
17	Prof Swapnali Makdey	Member
18	Mr Mukund Sathe	Member
	Dr MPS Chawla	Chair MP Subsection, Ex-Officio Member
	Dr Preeti Bajaj	Chair Nagpur Subsection, Ex-Officio Member

- Section Highlights

<http://ieeebombay.org/events2018/>

- Major Events (International, National)

#### Technical Events

Number	Date	Event	Description	Attendees
1	14 July 2018	Nasik Industry Meet	Technical lectures and Interactions with local industry leaders	50
2	10-11 Aug 2018	AI & ML workshop NITIE	Tutorials and workshops on Ai and ML for students and industry	150
3	14-16 Sep 2018	Building of Moonshot	Engineers Day and IEEE Foundation project on 'Furthering Indian Perception on IEEE'	1000
4	29 & 30 June 2018	Workshop on Machine Learning – Concepts and Applications	These were two day long sessions done for industry one at Azilen Technologies and other at Hotel Novotel, with a view to educate participants with hands on exposure to ML	80

Number	Date	Event	Description	Attendees
1	02-10-2018	Solar Lighting Day	Jointly done with various agencies this is an attempt to create a Guinness record for lighting solar lamps at one place, to create awareness of Solar	5700 School Children
2	06-10-2018	IEEE Day Celebration	Done at the Newest IEEE branch by inviting all new branches counselors with lecture on processes to be followed, branch vitality maintenance	107

- **Major Chapter Activities**

Over 100+ activities are done by Chapters; the details are provided in list in section B. Many DL's visited and gave talks at various locations in the section.

- **Major Student and Affinity Group Activities**

Key Student Activities are listed herein. Events done by Affinity groups have been listed in Section B.

Number	Date	Event	Description	Attendees
1	11-02-2018	ORIENTATION Cum Training	IEEE ORIENTATION Cum VOLUNTEER TRAINING 2018 at Raipur, Revamping/Membership Benefits	47
2	24-03-2018	Startup Job & Internship Fair	More than 30 innovative early stage companies offered 200+ roles to 1000 plus students	1000
3	31-03-2018	Procom 2018	A national level project competition to showcase innovative ideas that can transform into a commercial product. Winners were awarded over USD 1000 dollars in prizes.	122
4	19-07-2018	SAC Volunteer Training Workshop	Organized at SITRC Nashik on 19 July 2018 by 19 volunteers across section for Branch Revival/Global Outreach/Mentorship.	25
5	06-10-2018	Student Branch Counselor Meet	Meeting of Branch Counselors to share what is done across their colleges. Focused towards new branches and their active participation & Event co-ordination	103
6	06-10-2018	Admin Committee Meet	Meeting of Student Admin Committees to share what is done across their colleges.	68
7	02-10-2018	CG Region Student Branch Officials Meet	Train and orient the SBs in the direction of working properly and lead there pathway ahead better	46

- **Awards**

Outstanding Volunteer Awards

Sponsorship of members and student members to attend various leadership conferences

Scholarships

Number	Date	Event	Description	Attendees
1		Hemant Sonawala Award	Approx USD 1500 Dollars for Needy girl engineering student with active IEEE record.	
2		XTREME AWARD	Over USD 1500 dollars were budgeted for teams that came in first 100 ranking in country	
3		Needy Girls Scholarship	Approx USD 750 Dollars total for Needy girl engineering student with active IEEE record.	
4		WIE Project win	Awarded to winners of Project	

		award	competition in international event, approx. USD 150	
5		SWYC Participation	Approx USD 1000 dollars for deserving candidates to participate in SYWC	
6		AISYC Congress Participation Award	Approx USD 500 dollars for deserving candidates to participate in SYWC	

## A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted L50)

All amounts shown herein are in Indian Rupees

BOMBAY SECTION R00121 BUDGET	Budget 17_18	Actual 17-18	Budget 18_19
<b>Inflow during the year</b>			
<b>Conf Income</b>			
Rebate from IEEE Headquarters / Reimb	1,600,000.00	1,643,075.00	1,700,000.00
Interest from SB & FD accounts	300,000.00	446,225.00	500,000.00
Income form Events and other sources	100,000.00	127,895.00	200,000.00
Grants received for various projects		793,404.00	
<b>Total Income</b>	<b>2,000,000.00</b>	<b>3,010,599.00</b>	<b>2,400,000.00</b>
<b>Expenses</b>			
Conferences (net outflow)	100,000.00	89,717.00	100,000.00
Professional Activities (Workshop/Seminars/DLs)	250,000.00	246,685.00	250,000.00
Area wise Technical activities	150,000.00	185,600.00	200,000.00
Job Fairs			
Student Activities (Section)	200,000.00	250,095.00	250,000.00
Grants and Awards (Students)	100,000.00	64,665.00	150,000.00
Meeting and Social Events	150,000.00	352,458.00	300,000.00
Promoting IEEE Brand, Website, Membership Development	50,000.00	45,398.00	50,000.00
Travel	100,000.00	156,282.00	150,000.00
Accounting, Audit, Section registration expenses	50,000.00	75,470.00	75,000.00
Other Management, General Expenses, Secretarial assistance	150,000.00	58,165.00	175,000.00
Chapters	100,000.00	98,856.00	100,000.00
Affinity Groups	100,000.00	57,550.00	100,000.00
Sub-Sections (complete)	500,000.00	239,873.00	500,000.00
Grants + Expenses for Student Activities		438,613.00	
Grants + Expenses for Professional Activities		453,647.00	
<b>Total Expenses</b>	<b>2,000,000.00</b>	<b>2,813,074.00</b>	<b>2,400,000.00</b>

- Any other financial activities

### Executive Committee and Other Admin Meetings

#### Executive Committee Meetings

These meetings last typically two and half hours each and the agenda consists of General Communications, Admin & Operations, Accounts Presentation, Technical Events, Conferences and presentation by various chairs.

Number	Date	Event	Description	Attendees
1	24-02-18	First Execom	DBIT, Kurla at 9:30am	17
2	10-03-2018	Second Execom	SBJITMR, Nagpur at 4pm	13
3	14-04-2018	Third Execom	IIT Bombay	18
4	12-05-2018	Fourth Execom	IIT Bombay	13
5	09-06-2018	Fifth Execom	IIT Bombay	11
6	14-07-2018	Sixth Execom	Solitaire Hotel Nasik	11
7	11-08-2018	Seventh Execom	NITIE Mumbai	18
8	08-09-2018	Eighth Execom	IIT Bombay	16
9	29-09-2018	Ninth Execom	RBYC, Colaba	18
10	13-10-2018	Tenth Execom	DBIT, Kurla	14
11	10-11-2018	Eleventh Execom	TIFR, Mumbai	16
12	8-12-2018	Twelfth Execom	IIT Mumbai	15

#### Local Connect Meetings

Number	Date	Event	Description	Attendees
1	14-07-2018	Meeting with regional members at Nasik	This meeting was with industry and academic members with a view to enhance activities in that region. Two Technical lectures, AI- Right time for industry now? And How to measure a distance less than a hair from far were delivered.	35
2	11-10-2018	Meeting with Regional Members at Goa	This meeting was with industry and academic members with a view to enhance activities in that region.	8

#### AGM

Number	Date	Event	Description	Attendees
1	29-09-2018	Bombay Section AGM	Annual General Meeting of the section to pass accounts, update on activities during the year and pass the next year's budget.	60
2	04-08-2018	Nagpur Subsection AGM	Annual General Meeting of the subsection to pass accounts, update on activities during the year and pass the next year's budget.	57
3	23-12-2018	Madhya Pradesh Subsection AGM	Annual General Meeting of the subsection to pass accounts, update on activities during the year and pass the next year's budget.	32
4	8-12-2018	Section EGM	To pass the by-laws amendment	48

#### Section Representation at IEEE, R10 and India Council

- 3 Section officers (Mr. Abhay Phansikar, Dr Satyanarayana, Dr Surya Doolla, Sub-Section Chair Dr. Preeti Bajaj on India Council Execom (Member, Vice Chair Tech, Webmaster, Secretary) in addition to Section Chair (ex-officio Member)
- Imm. Past. Chair Mr. Anthony Lobo one of 3 India Council volunteers on R10 India Membership Task Force
- Mr Anand Gharpure & Mr. Aiyappan - volunteers in the MGA India Strategic Initiative, and also Indian Insurance Support Team
- Hitesh Mehta on MGA Elevation Committee

## PART B - ORGANIZATIONAL ACTIVITIES

### B.1 Membership Development Activities

- Total number of active members in the past 3 years.

	2018	2017	2015
<b>Life Fellow</b>	5	5	7
<b>Fellow</b>	11	9	8
<b>Life Sr Mem</b>	15	10	10
<b>Sr Memb</b>	242	217	177
<b>Life Member</b>	6	5	7
<b>Member</b>	1592	1752	1859
<b>Assoc. Mem.</b>	65	73	53
<b>Gr. St. Mem.</b>	751	633	704
<b>Affiliate/SA</b>	47		
<b>Hi Grd. Total</b>	2734	2704	2814
<b>St. Mem.</b>	5712	5537	4606
<b>Grand Total</b>	8446	8241	7420

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

#### Technically Sponsored Events

IEEE Bombay Section technically co-sponsored various conferences spanning across the region.

The section nominated on representative from the Executive Committee to ensure that the quality of the conference is maintained to IEEE standards.



#### Technical/Professional Activities : SKEP (Skill and Knowledge Enhancement Program)

The program was initiated in 2013 and is now a flagship event of the section. The events are either wholly sponsored by the section or co-sponsored by society chapters/affinity groups. It has grown from strength to strength with 2015 seeing the program extend to towns outside Mumbai. In the marathon format, 36 (12 + 24) sessions were organized in academic as well as research institutions in two waves. The highlight of the program is the practical orientation of sessions, mostly conducted by Industry experts.

THE SKEP now runs two hands on workshops on EMBEDDED SYSTEMS & VLSI, AT&ML. More workshops will be added in coming years.

## B.2 Chapter Activities

- Total number of Chapters in the Section

Computer Society
Communications Society
AP/ED Chapter
SMC Chapter
Signal Processing
IA/PE/IM Chapter
MTTS Chapter
TEMS
Life Members Affinity Group
YP - GOLD
WIE
Bombay SIGHT Pratham

- Number of Chapters formed in the current year

Two New Chapters got added at Section Level, The Consumers Electronics Society and Power Electronics Society/Industrial Electronics Society Joint Chapter. However since the approval is as of Dec 28, received in January, their installation was done in 2019.

- Number of active Chapters (Chapters who have reported required number of meetings during the year)

All the above chapters are active.

- Summary of Chapter activities (Chapter wise with attachment table/information)

#### AP/ED

Event Title	Event Date	Organizational Unit	Event Location	Number of Attendanc
IEEE EDS Distinguished Lectures on Photovoltaics at VNIT Nagpur	2/9/2019 14:00	AP03/ED15	VNIT Nagpur, Nagpur	101
Towards Complementary Logic in III-Nitrides : Is AlN the answer?	2/5/2019 11:30	AP03/ED15	Department of Electri	19
Manipulation of single photons using nanophotonics	1/11/2019 14:30	AP03/ED15	Department of Electri	15
Expert talk on Neuromorphic Systems	12/21/2018 14:30	AP03/ED15	Department of Electri	30
Expert talk on photovoltaics	12/10/2018 14:30	AP03/ED15	IIT Bombay , Departm	39
Talk on 5G by Dr. Mark Pinto	12/6/2018 15:00	AP03/ED15	Department of Electri	35
Expert Talk on Graphene Based Devices	12/1/2018 14:30	AP03/ED15	Physics Assembly Hal	100
Expert talk on silicon photovoltaic devices	11/9/2018 12:00	AP03/ED15	GG301, Department c	36
Expert lecture on Flexible Electronic Skin	11/8/2018 14:30	AP03/ED15	GG conference room,	64
Expert talk on Power Semiconductor Devices	11/1/2018 14:30	AP03/ED15	GG conference room,	55
IEEE Electron Device Society Distinguished Lecture by Prof. Vikram Dalal, Iowa State Uni	10/10/2018 14:30	AP03/ED15	Department of Electri	52
SIC Power Device Processing - An Exercise in Si Fabrication with a High Temperature Tw	3/7/2018 12:00	AP03/ED15	GG Conference room	22
Recent progress in semiconductor power devices	1/11/2018 10:00	AP03/ED15	GG Conference room	26
Neuromorphic engineering: from devices to circuits for energy- efficient computing and	1/9/2018 14:30	AP03/ED15	GG conference room,	42
Stiction aided fabrication of Silicon nanomembranes for MEMS applications	1/8/2018 14:30	AP03/ED15	Department of Electri	17
Electronics for All	1/5/2018 14:30	AP03/ED15	Mumbai, Maharashtr	17
Convergence of Science, Engineering and Technology for Global Challenges	1/4/2018 14:30	AP03/ED15	Mumbai, Maharashtr	24
Recent Status in Polarization Super Junction technologies in Gallium Nitride	1/3/2018 15:00	AP03/ED15	Mumbai, Maharashtr	26

#### C16

Event Title	Event Date	Organizational Unit	Event Location	Number of Attendanc
Embedded design and Product Development	2/28/2018 10:30	C16	SFIT, Mumbai, Mahar	52
Embedded design and Product Development	2/28/2018 10:30	C16	SFIT, Mumbai, Mahar	52
Embedded design and Product Development	2/28/2018 10:30	C16	SFIT, Mumbai, Mahar	52
Hands-on Workshop on Machine Learning: Concepts and Applications with Python	2/10/2018 09:00	C16	VITI, Mumbai, Mahaj	51
Trends and Technologies of VLSI devices	2/9/2018 15:40	C16	MET, Nashik, Mahara	45
Hands-on Workshop on FPGAs and Soft-processors	1/28/2018 10:05	C16	M.H. Saboo Siddik Co	35

#### COM19

Technical Talk on 5G	7/23/2018 13:54	COM19	MGM College of Engi	60
IEEE ComSoc Lecture	3/21/2018 15:00	COM19	Seminar Hall , Santac	150
IT for Telecom	3/19/2018 10:15	COM19	SFIT, Mumbai, Mahar	53
Nuclear Magnetic resonance Spectroscopy: Introduction and Perspective	3/17/2018 10:30	COM19	RCOEM, Nagpur, Mah	53
High speed signal processing techniques	3/10/2018 13:00	COM19	RCOEM, Nagpur, Mah	56
Hands-on Workshop on Business Intelligence Tools	3/10/2018 11:00	COM19	SFIT, Mumbai, Mahar	50
Structure and writing of a technical paper	3/5/2018 13:30	COM19	RGIT, Andheri, Mumb	54

#### MTT17

MTT-5 Promotion Activity	12/5/2018 15:00	MTT17	IIT Bombay, Powai, M	48
Distinguished Member Lecture	11/26/2018 11:00	MTT17	IIT BOMBAY, POWAI,	33
EXPERT TALK	7/18/2018 14:30	MTT17	DON BOSCO INSTITUT	110
Towards Smart Cellular Antennas	3/8/2018 10:00	MTT17	DON BOSCO INSTITUT	80

#### PE31/IA34

EV Battery Supercharger: Confluence of Advanced Power Electronics and Next-Generati	12/18/2018 15:00	PE31/IA34	Mumbai, Maharashtr	60
EV Battery Supercharger: Confluence of Advanced Power Electronics and Next-Generati	12/18/2018 14:30	PE31/IA34	Department of Electri	35
Chapter Meeting	12/15/2018 16:00	PE31/IA34	VMCC, IIT Bombay, M	22
Hybrid Standalone Power Generation Systems	12/11/2018 15:00	PE31/IA34	Department of Electri	40
Introduction: Hybrid Renewable Energy Standalone Systems	12/10/2018 15:00	PE31/IA34	Mumbai, Maharashtr	40
Chapter Meeting	7/14/2018 16:00	PE31/IA34	Victor Menezes Convi	25
Chapter Meeting	7/14/2018 16:00	PE31/IA34	Victor Menezes Convi	25
Impact of WBG (Wide-Band Gap) Devices on Power Electronics Applications	7/4/2018 15:00	PE31/IA34	Department of Electri	30
Perspectives on the Analysis and Control of Electric Machines	5/18/2018 16:00	PE31/IA34	Department of Electri	30
Industry Academia Meet - GeorgiaTech Professor	5/8/2018 18:38	PE31/IA34	Department of Energ	30
Decentralized Control Using Power Electronics Å€ A Key Enabler for the Future Grid	5/8/2018 16:00	PE31/IA34	Department of Energ	200

#### SMC28

Embedded Systems - Advances, Trends and Opportunities	4/11/2018 14:30	SMC28	Fr.Conceicao Rodrigu	57
RFID an overview & applications	4/2/2018 14:00	SMC28	Maharashtra Institue	55
Lab-on- a-chip Devices for Energy and Biomedical Applications	3/26/2018 13:30	SMC28	Hyderabad, Maharas	57
Materials, Methods and Manufacturing	3/26/2018 10:00	SMC28	RCOEM, Nagpur, Mah	54

#### SP01

Avionics and Carrier in Aerospace Industries	7/13/2018 14:31	SP01	Amrutvahini College c	53
Amateur Radio and wireless communication	7/13/2018 14:00	SP01	Amrutvahini College c	51
Recent Developments in India's National Solar Mission	7/11/2018 15:00	SP01	RCOEM, Nagpur, Mah	48
Recent Developments in India's National Solar Mission	7/11/2018 12:00	SP01	RCOEM, Nagpur, Mah	56
Importance of research at undergraduate level	7/9/2018 15:00	SP01	SITCOE, Yadrav, KOLH	51

#### TEM14

Interaction with IEEE TEMS Global Team for coursework discussion and design	12/15/2018 00:03	TEM14	Mumbai, Mumbai, M	4
PM Conclave	11/17/2018 10:00	TEM14	Mumbai, Mumbai, M	210
Interaction with IEEE TEMS Global Team for coursework discussion and design	9/15/2018 00:00	TEM14	Mumbai, Mumbai, M	4
Taming Counterfeits using Blockchain	9/14/2018 14:00	TEM14	Mumbai, Mumbai, M	38
Digital Leadership Summit	8/18/2018 08:54	TEM14	Mumbai, Mumbai, M	230
Embedded Å Design & Product Development	7/20/2018 15:02	TEM14	MET, Nashik, Mahara	57
Modern sensors, signal processing and applications	7/19/2018 15:00	TEM14	MGM CET, Navi Mum	52
Innovative Project Development	7/14/2018 13:00	TEM14	Amrutvahini College c	50
Embedded Technology: Raspberry Pi and Arduino Boards	7/14/2018 12:05	TEM14	Amrutvahini College c	52
Visit of Mr. Dileep Kotak, Treasurer, IEEE TEMS Global Board	5/4/2018 00:00	TEM14	NITIE, Mumbai, Mah	15

### 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

#### Professional and Continuing Education Activities

The section conducted various technical activities as part of SKEP and Chapter activities and they have been highlighted in other Sections. Some other activities not listed there are provided here.

Number	Date	Event	Description	Attendees
1	14 July 2018	Nasik Industry Meet	Technical lectures and Interactions with local industry leaders	50
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#### IEEE Day

Number	Date	Event	Description	Attendees
1	02-10-2018	Solar Lighting Day	Jointly done with various agencies this is an attempt to create a Guinness record for lighting solar lamps at one place, to create awareness of Solar	5700 School Children
2	06-10-2018	IEEE Day Celebration	Done at the Newest IEEE branch by inviting all new branches counselors with lecture on processes to be followed, branch vitality maintenance	107

#### IPR Day function

Number	Date	Event	Description	Attendees
1	26-04-2018	Thakur College	Inauguration of IPR cell at Thakur College followed by Workshop cum Seminar on IPR and its importance and steps to be taken. Inauguration of IPR cell at Thankur college was also done.	50

#### Engineers Day Event

Number	Date	Event	Description	Attendees
1	08-08-2018	Engineers Day Joint Event	Jointly done with IETE this is a half day program of technical talks followed by networking	150

### B.4 Students Activities

- Total number of Student Branches in the Section

There are currently 132 branches listed, more than 50% are inactive. The section has undertaken a campaign to revive, we have been successful with many of them, however a thrust can be provided again after the admission this year around July 2019.

No	Student Branch	No	Student Branch
1	Acropolis Institute of Technology and Research SB	67	Padmabhusan Vasantdada Patil Coll Of Eng
2	All India Shri Shivaj Mem Soc Inst of Info Tech	68	Padmashree Dr D Y Patil Inst Of Eng & Tech
3	Amrutvahini College of Engineering SB	69	Padmashri Dr Vithalrao Vikhe Patil Coll
4	Atharva College of Engineering SB	70	Padre Conceicao College Of Engrg
5	Bansal Inst Research & Tech SB	71	Parshvanath College Of Engrg
6	Bharat College of Engineering SB	72	Patel Group of Institutions - Indore, SB
7	Bharati Vidyapeeths Col of Eng For Women SB	73	Peoples Education Society Coll of Engineering SB
8	Bhilai Inst Of Tech Durg SB	74	Pillais Inst Of Info Tech Eng ,Media Studies & Research
9	Birla Institute of Tech and Science Pilani-Goa SB	75	Pimpri Chinchwad College Of Engineering
10	Central India Institute of Tech - Indore SB	76	Priyadarshini Coll Of Eng & Architec
11	Cummins College of Engineering For Women SB	77	Priyadarshini Institute of Eng & Tech, Nagpur SB
12	D Y Patil College of Engineering SB	78	R.C. Patel Institute of Technology, Shipur SB
13	D.K.T.E.'s Textile & Engin Inst Ichalakaranji SB	79	Rajarambapu Inst Of Tech SB
14	Datta Meghe College of Engineering SB	80	Rajiv Gandhi Col of Eng, Res & Tech, Chandrapur SB
15	Dilkap Research Inst of Eng & Man Studies, SB	81	Ramrao Adik Inst Of Tech
16	Don Bosco Inst of Tech SB	82	Rizvi College Of Engineering
17	Dwarkadas J Sanghvi College Of Engineering SB	83	Rungta College Of Engineering & Tech SB
18	Fr Conceicao Rodrigues College of Engineering SB	84	Rungta Group of Colleges SB
19	Fr Conceicao Rodrigues Inst of Tech SB	85	S. B. Jain Institute of Tech Nagpur SB
20	G H Raisoni College of Engineering SB	86	SND Coll of Eng and Res Center Babhulgaon SB
21	Goa College of Engineering SB	87	SOET, ITM University Gwalior, SB
22	Godavari College of Engineering - Jalgaon SB	88	SSBT College of Engrg & Tech SB Jalgaon
23	Government College of Engineering Amravati SB	89	Sagar Institute of Research & Tech SB
24	Gyan Ganga College of Technology SB	90	Sagar Institute of Science & Technology SB
25	Gyan Ganga Inst of Tech & Management - Bhopal SB	91	Sanghvi Institute of Management & Science SB
26	Gyan Ganga Inst of Tech and Management Jabalpur SB	92	Sanjay Education Society'S College Of
27	IES College of Technology - Bhopal SB	93	Sanjiwani Rural Educ Soc College Of Eng
28	IPS Academy - Inst of Eng & Sciences SB	94	Sant Gadge Baba Amravati University SB
29	Indian Inst of Technology- Bombay SB	95	Saraswati College of Engineering SB
30	Inst of Engineering & Tech SB	96	Sardar Patel College Of Engineering
31	Jabalpur Engineering College	97	Shah & Anchor Kutchhi Engrg College
32	Jawahar Education Society'S Ac Patil Col of Engrg	98	Sharadchandra Pawar College of Eng SB
33	Jawaharlal Nehru Engineering College	99	Shri G S Inst Of Tech & Science
34	Jhulelal Institute of Technology, Nagpur SB	100	Shri Ramdeobaba Kamla Nehru Eng College
35	Jspm'S Rajarshi Sharu College of Eng SB	101	Shri Sant Gajanan Maharaj College Of Eng
36	K K Wagh Inst of Engg- Edu & Research SB	102	Shri Shankarachary Inst of Prof Mgmt and Tech SB
37	K.C. College of Engineering SB	103	Shri Vaishnav Inst Of Tech & Sci
38	Kavikulguru Inst of Tech & Sci SB	104	Shrimati Indira Gandhi College Of Eng
39	Kit's College of Engineering SB	105	Sies Graduate School Of Tech Sb
40	Kj Somaiya College of Engineering SB	106	Sinhgad College Of Engineering
41	Kj Somaiya Inst of Engrg & Information Tech SB	107	Sinhgad Institute of Technology-Lonavala SB
42	Konkan Gyanpeeth College of Engr-Karjat SB	108	Sipna's College of Eng & Tech - Amravati SB
43	Lakshmi Narain College Of Tech SB	109	Sri Aurobindo Institute of Technology SB
44	Late G. N. Sapkal College of Engineering, SB	110	St Francis Inst Of Tech - Mt Poincur
45	Lokmanya Tilak College of Engineering SB	111	St John College Of Eng & Tech SB
46	M H Saboo Siddik College Of Engineering SB	112	Sushila Devi Bansal College of Technology SB
47	MBES College of Engineering - Ambajogai SB	113	Swami Vivekanand College of Engineering SB
48	MGM College Of Eng & Tech SB	114	TIT College Bhopal SB
49	Mahakal Institute of Technology SB	115	Technocrats Instute of Tech, Bhopal SB
50	Maharashtra Academy of Engineering SB	116	Terna Engineering College
51	Maharashtra Inst of Tech SB	117	Thadomal Shahani Eng College SB
52	Manoharbai Patel Inst of Eng & Tech, Gondia	118	Thakur College Of Eng & Tech
53	Mansarovar Inst of Science and Tech SB	119	Truba College of Engineering and Technology SB
54	Maulana Azad National Inst of Tech SB	120	Universal College of Engineering, SB
55	Mbm Engineering College/Jodhpur Univ	121	Usha Mittal Inst Of Tech
56	Mct Rajeev Gandhi Inst of Tech SB	122	VES Institute of Technology
57	Medi-Caps Inst of Tech & Mgmt SB	123	Veer mata Jijabai Technical Inst
58	Met's Bhujbal Knowledge City SB	124	Vidarbha Youth Welfare Soc Coll Of Eng Sb
59	Modern Educ Soc College of Engineering SB	125	Vidya Pratishthan's College of Eng - Baramati SB
60	Narsee Monjee Inst of Mgnt/High Studies- Shirpur SB	126	Vidyalankar Inst Of Tech
61	Nashik Dist Maratha Vidya Prasarak Samaj'S C.O.E.	127	Vidyavardhini'S College Of Engrg & Tech Sb
62	National Institute of Technology - Raipur SB	128	Vishwakarma Inst Of Tech
63	National Institute of Technology Goa SB	129	Visvesvaraya Nat'L Institute Of Tech
64	O.P. Jindal Institute Technology SB	130	Watumull Inst Of Elect Eng & Comp Tech
65	Oriental University, Indore SB	131	Xavier Inst Of Engineering
66	P E S Modern College Of Engineering	132	Yeshwantrao Chavan College Of Engineering



- **Number of Student Branches formed in the current year**

14 New student Branches were formed this year. Many of them got approvals in December, hence their activities will start in 2019.

Don Bosco , Goa	SM Jondhale, Dombivali
Rajiv Gandhi PV Bhopal	JD COEM Nagpur
Pimpri Chinchwad COE, Ravet	Guru Gobind Singh, Nanded
ISBM, Lavale	MIT Aurangabad
Sandip University , Nashik	KJ Somaiya IMS, Ghatkopar
MET ISC Bandra	VSIT Wadala
GHRIT Nagpur	Sharad Institute Yadrav

- **Section level student activities (student congress, paper and other contests, awards etc)**

The Bombay Sections Student Congress which was to be held in later half of 2018 had to be shifted twice, now to Jan 2019, as the dates clashed with India Council events. It has been done in Jan 2019 and shall be reported in next year.

Number	Date	Event	Description	Attendees
1	11-02-2018	ORIENTATION Cum Training	IEEE ORIENTATION Cum VOLUNTEER TRAINING 2018 at Raipur, Revamping/Membership Benefits	47
2	24-03-2018	Startup Job & Internship Fair	More than 30 innovative early stage companies offered 200+ roles to 1000 plus students	1000
3	31-03-2018	Procom 2018	A national level project competition to showcase innovative ideas that can transform into a commercial product. Winners were awarded over USD 1000 dollars in prizes.	122
4	19-07-2018	SAC Volunteer Training Workshop	Organized at SITRC Nashik on 19 July 2018 by 19 volunteers across section for Branch Revival/Global Outreach/Mentorship.	25
5	06-10-2018	Student Branch Counselor Meet	Meeting of Branch Counselors to share what is done across their colleges. Focused towards new branches and their active participation & Event co-ordination	103
6	06-10-2018	Admin Committee Meet	Meeting of Student Admin Committees to share what is done across their colleges.	68
7	02-10-2018	CG Region Student Branch Officials Meet	Train and orient the SBs in the direction of working properly and lead there pathway ahead better	46

A student activities team has been formed with a tenure of two years with regional representation across the geography, with focus on increasing activities, awareness, branch revival and reporting.



- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)

Over 30-40 branches are very active, another 20 branches have shown revival in activities, we expect a good increase in this number in 2019. However, getting them to report in Vtools is still a challenge, and we now are running campaigns to educate and make them aware of the advantages of Vtools.

- Summary of Student Branch activities (Student Branch wise with attachment table/information)

'How things work?'	9/5/2018 15:30	G H Rasoni College of Engineerin Nagpur, Ma	52
Ankur 2018	9/5/2018 11:06	G H Rasoni College of Engineerin NAGPUR, M	121
Seminar on Basic hardware	9/1/2018 15:00	Jhulelal Institute of Technology, Jhulelal Inst	98
Debugging	9/1/2018 11:30	G H Rasoni College of Engineerin Nagpur, Ma	57
Bluetooth Controlled Robot Using Atmega	9/1/2018 10:00	Yeshwantrao Chavan College Of  Departmen	40
Report for IEEE Membership and IEEEExtreme Session	9/1/2018 10:00	Maharashtra Institute of Tech-Au Maharashtr	60
VLSI WORKSHOP	9/1/2018 10:00	MGM College of Eng & Tech MGMCET K	50
Workshop on Google Crowdsourcing and Machine Learning	8/31/2018 10:00	Maharashtra Institute of Tech-Au Maharashtr	78
MATLAB	8/28/2018 02:30	Jhulelal Institute of Technology, Jhulelal Inst	79
Workshop on Android Customization with custom RO	8/25/2018 13:30	G H Rasoni College of Engineerin Nagpur, Ma	53
Web Development	8/25/2018 00:00	G H Rasoni College of Engineerin Nagpur, Ma	33
Orientation	8/23/2018 17:00	Veer mata Jijabai Technical Inst VJTI COLLEC	80
IOT and its industrial applications	8/23/2018 11:00	Sardar Patel Institute of Technolc Sardar Pate	61
Seminar on Personal Interview	8/18/2018 15:38	Jhulelal Institute of Technology, Jhulelal Inst	165
IEEE SKEP at GHRCE ZERO WASTE, OUT OF BOX THINKING, S	8/18/2018 10:12	G H Rasoni College of Engineerin CRPF GATE	113
Workshop on Machine Learning using Tensorflow, c	8/18/2018 09:30	Yeshwantrao Chavan College Of  Nagpur, Ma	102
Report on Membership Drive Campaigning	8/13/2018 10:30	Maharashtra Institute of Tech-Au Maharashtr	70
Recent trends in IT	8/5/2018 15:00	Jhulelal Institute of Technology, Jhulelal Inst	75
Cyber Crime Awareness	8/5/2018 10:00	Jhulelal Institute of Technology, Nagpur, Ma	91
UNITY 3D	8/4/2018 11:30	G H Rasoni College of Engineerin Nagpur, Ma	59
SS12 Project Competition Prelims 2018	8/2/2018 09:15	Pimpri Chinchwad College Of Eng pune, Maha	107
Energy Audit for Banking Sector	8/1/2018 10:00	All India Shri Shivaj Mem Soc Inst 44, Vidyana	75
Installation of IEEE CS chapter	7/28/2018 12:35	G H Rasoni College of Engineerin Nagpur, Ma	125
Swayam E-Learning Website	7/27/2018 13:45	Jhulelal Institute of Technology, Jhulelal Inst	61
GUEST LECTURE ON NATIONAL SOLAR MISSION (DR. JUZE	7/27/2018 09:59	G H Rasoni College of Engineerin CRPF GATE	121
Workshop on Group Discussion & Personal Interview	7/23/2018 12:00	Jhulelal Institute of Technology, Jhulelal Inst	91
SAC Volunteer Training Program	7/19/2018 11:30	Sardar Patel Institute of Technolc Sandip Edu	25
IEEE Skill and Knowledge Enhancement Program	7/13/2018 09:30	Amrutvahini College of Engineeri Amrutvahin	127
Topic : - Seminar on Domain Selection	7/7/2018 12:00	Jhulelal Institute of Technology, Jhulelal Inst	91
Topic : - Seminar on Domain Selection	7/7/2018 12:00	Jhulelal Institute of Technology, Jhulelal Inst	91
IEEE Awareness Meeting	7/3/2018 16:30	Pimpri Chinchwad College Of Eng Pune, Maha	32
Introduction to current trends and technologies like Mach	6/26/2018 10:00	Yeshwantrao Chavan College Of  Nagpur, Ma	60
Identification & Testing of Basic Electronics Components	6/22/2018 14:00	Jhulelal Institute of Technology, Jhulelal Inst	79
Technology transfer	6/22/2018 10:36	Amrutvahini College of Engineeri Deaf and Di	42
INTRODUCTION ON TELECOMMUNICATION PRODUCTS & I	6/20/2018 13:30	Jhulelal Institute of Technology, Jhulelal Inst	83
Networking and Hardware	6/19/2018 14:00	Jhulelal Institute of Technology, Jhulelal Inst	92
Workshop on Step up	6/5/2018 11:00	Jhulelal Institute of Technology, Jhulelal Inst	80
Technical Paper Presentation Competition	4/13/2018 09:00	Sardar Patel Institute of Technolc Sardar Pate	40
Expert Talk on Embedded System- Hack to the Future	4/4/2018 10:30	Maharashtra Institute of Tech-Au Maharashtr	60
Expert Talk on 3D printing technology	4/3/2018 10:30	Maharashtra Institute of Tech-Au Maharashtr	70
State level project competition	4/3/2018 09:30	P E S Modern College Of Engineei Shivajinagai	60
workshop on Introduction to Robotics and Obstacle Detec	4/2/2018 14:30	Maharashtra Institute of Tech-Au Maharashtr	30
Expert talk on RFID Technology	4/2/2018 14:00	Maharashtra Institute of Tech-Au Maharashtr	50
IEEE MIT (T) Student branch Inaugural Ceremony	4/2/2018 10:00	Maharashtra Institute of Tech-Au Maharashtr	51
Expert talks under Skill and Knowledge Enhancement Prog	3/26/2018 10:00	Shri Ramdeobaba Kamla Nehru E Gittikhadan	57
Guest lecture by Prof Prabhakar Dorge on industrial applic	3/20/2018 15:02	G H Rasoni College of Engineerin NAGPUR, M	141
International Women's Day Celebration	3/19/2018 16:00	Sardar Patel Institute of Technolc Sardar Pate	45
Expert talks under Skill and Knowledge Enhancement Prog	3/17/2018 11:00	Shri Ramdeobaba Kamla Nehru E Gittikhadan	60
GOOGLE CROWDSOURCE-AN EVENT THAT INSPIRED HUNCE	3/17/2018 11:00	Bhilai Inst Of Tech Durg BIT DURG, C	280
IEEE Antennas and Propagation society inaugural	3/16/2018 09:00	Amrutvahini College of Engineeri Amrutvahin	144
Exploring Electromagnetics with MATLAB and QuickField	3/15/2018 11:00	Shri Ramdeobaba Kamla Nehru E Gitti kahdar	58
Expert talks under Skill and Knowledge Enhancement Prog	3/10/2018 13:00	Shri Ramdeobaba Kamla Nehru E Gittikhadan	45
Being a CEO - Talk by Deepa Krishnan	3/2/2018 16:00	Sardar Patel Institute of Technolc Sardar Pate	67
Coding Competition	2/28/2018 16:00	Sardar Patel Institute of Technolc Sardar Pate	39
Extempore	2/27/2018 16:00	Sardar Patel Institute of Technolc Sardar Pate	102
WEBPAGE DEVELOPMENT COMPETITION	2/27/2018 11:30	G H Rasoni College of Engineerin NAGPUR, M	61
Kick Boxing	2/26/2018 17:00	Sardar Patel Institute of Technolc Sardar Pate	38
Puzzle	2/15/2018 15:30	G H Rasoni College of Engineerin NAGPUR, M	91
TECH-WIZARD	2/6/2018 15:30	G H Rasoni College of Engineerin NAGPUR, M	72
CONVIENCE AND SELL	2/5/2018 15:30	G H Rasoni College of Engineerin NAGPUR, M	33
TECHNICAL ESSAY	2/1/2018 14:30	G H Rasoni College of Engineerin NAGPUR, M	44
Computer Vision Techniques on Raspberry Pi Platform usi	1/29/2018 11:00	Shri Ramdeobaba Kamla Nehru E Gitti kahdar	67
Debate on recent trends in Engineering Education.	1/27/2018 10:00	G H Rasoni College of Engineerin NAGPUR, M	11
LOGO QUIZ	1/25/2018 14:30	G H Rasoni College of Engineerin NAGPUR, M	68
One day Workshop on Gaming Seminar	1/25/2018 10:30	G H Rasoni College of Engineerin NAGPUR, M	64
QUIZZARDO	1/19/2018 14:33	G H Rasoni College of Engineerin NAGPUR, M	36
IEEE SB 62361 EXCOM MEETING	1/18/2018 10:32	G H Rasoni College of Engineerin NAGPUR, M	18
Elevator Pitch	1/3/2018 12:00	Sardar Patel Institute of Technolc Bhavan's Ca	28

## B.5 Affinity Group Activities

### WIE

Number	Date	Event	Description	Attendees
1	07-09-	Branch Co-	To introduce the WIE to branches	44

	2018	ordinator meet	to motivate to start WIE	
2	06-10-2018	Admin Committee meet	To introduce the WIE to branches to motivate to start WIE	67

## LMAG

Number	Date	Event	Description	Attendees
1	10-10-2018	LMAG Lunch	Invited LM, Fellows and Senior members for lunch and interaction with Dr Dalal, DL ED	12

## YP

Number	Date	Event	Description	Attendees
1	24-03-2018	SPIT Job Fair	Jointly done with SAC and reported under SAC activities, this lead to 200+ placement and internship offers.	1000
2	06-10-2018	Admin Committee meet	Vtools Presentation, Xtreme and continuing membership as YP benefits	67
3	26-10-2018	TISP	Teacher in Service Program undertaken with Maths Lab Concept. Participants included teachers fromGoa State also.	35

## EAB

Number	Date	Event	Description	Attendees
1	26-04-2018	IPR day function	Inauguration of IPR cell at Thakur College followed by Workshop cum Seminar on IPR and its importance and steps to be taken. Inauguration of IPR cell at Thankur college was also done.	50

## B.6 Awards & Recognition Activities

- Award constituted by the Section

Outstanding Volunteer Awards

Sponsorship of members and student members to attend various leadership conferences

Scholarships

Members have received various recognitions including travel awards to represent section at R10, PES Conference and Richard E Merwin Scholarship. Members also received certificate of recognition including Gold and Silver for Membership Growth and Retention from 2017 to 2018.

Members have also received grants from IEEE HAC and IEEE New Initiatives for proposals submitted by them.

Number	Date	Event	Description	Attendees
1		Hemant Sonawala Award	Approx USD 1500 Dollars for Needy girl engineering student with active IEEE record.	
2		XTREME AWARD	Over USD 1500 dollars were budgeted for teams that came in first 100 ranking in country	
3		Needy Girls Scholarship	Approx USD 750 Dollars total for Needy girl engineering student with active IEEE record.	
4		WIE Project win award	Awarded to winners of Project competition in international event, approx. USD 150	
5		SWYC Participation	Approx USD 1000 dollars for deserving	

			candidates to participate in SYWC	
6		AISYC Congress Participation Award	Approx USD 500 dollars for deserving candidates to participate in SYWC	

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

- Home Page of the Section (give the URL and how often it is updated)

[www.ieeebombay.org](http://www.ieeebombay.org), updated regularly at least few times in a month.

E-Notices are sent on a fairly regular basis.

- Other means of contacts with Section members including social media
  - Facebook Page
  - Bombay Section Students Network site
  - Section Execom Whatsapp Group
  - Branch Counsellors Whatsapp Group
  - Student Representatives Whatsapp Group.

## B.8 Industry Relations

- Membership growth and retention

This has been covered in Membership Development and Professional Development Section.

- Activities for/with industrial members

Number	Date	Event	Description	Attendees
1	14-07-2018	Meeting with regional members at Nasik	This meeting was with industry and academic members with a view to enhance activities in that region. Two Technical lectures, AI- Right time for industry now? And How to measure a distance less than a hair from far were delivered.	35
2	11-10-2018	Meeting with Regional Members at Goa	This meeting was with industry and academic members with a view to enhance activities in that region.	8

Number	Date	Event	Description	Attendees
1	14 July 2018	Nasik Industry Meet	Technical lectures and Interactions with local industry leaders	50
2	10-11 Aug 2018	AI & ML workshop NITIE	Tutorials and workshops on Ai and ML for students and industry	150
3	14-16 Sep 2018	Building of Moonshot	Engineers Day and IEEE Foundation project on 'Furthering Indian Perception on IEEE'	1000
4	29 &30 June 2018	Workshop on Machine Learning – Concepts and Applications	These were two day long sessions done for industry one at Azilen Technologies and other at Hotel Novotel, with a view to educate participants with hands on exposure to ML	80

## B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.

- **SIGHT Activities**

Under SIGHT Vidushi Program certain life skills training and job opportunities by teaching Solar lamp assembly, maintenance and repairs were undertaken for ladies of villages. Another program was to teach computer to ladies from villages so that they do not have a challenge in communication with their kids who were becoming computer savvy, nor have any mental roadblock in using that device. This program has been continued.

Also, an effort was made for creating water maps of villages and doing rain water harvesting, however these initiatives were curtailed due to lack of funding.

HAC had provided grant for improving hygiene amongst the tribal ladies in the village of Walvanda and this program was executed successfully.

## **B.10 Community Activities**

- **IEEE Social activities (Family day, IEEE day, Engineers Week)”**

### **IPR Day function**

Number	Date	Event	Description	Attendees
1	26-04-2018	Thakur College	Inauguration of IPR cell at Thakur College followed by Workshop cum Seminar on IPR and its importance and steps to be taken. Inauguration of IPR cell at Thankur college was also done.	50

### **Engineers Day Event**

Number	Date	Event	Description	Attendees
1	08-08-2018	Engineers Day Joint Event	Jointly done with IETE this is a half day program of technical talks followed by networking	150

### **IEEE Day Events**

Number	Date	Event	Description	Attendees
1	02-10-2018	Solar Lighting Day	Jointly done with various agencies this is an attempt to create a Guinness record for lighting solar lamps at one place, to create awareness of Solar	5700 School Children
2	06-10-2018	IEEE Day Celebration	Done at the Newest IEEE branch by inviting all new branches counselors with lecture on processes to be followed, branch vitality maintenance	107

## **PART C - OTHERS**

### **C.1 Special Events**

- Please briefly describe the importance of special events and the outcomes achieved
- Funding secured from the IEEE and external sources including sponsorships

Hemant Sonawala Scholarship of Approx USD 1500 is given by Hinditron for needy girl engineering student. The section has been associated with various events including Solar Lighting Guinness Record, Building of a Moonshot Program for 3 days, TISP program for Mathematics teaching aid to teachers etc. Since many of these programs were done either in collaboration or IEEE initiatives funded, external sponsorship was not asked for.

### **C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)**

- Nature of relationship and details of any formal agreement signed
- 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.)

There are various associations already in place with IETE, CSI, PMI, Indo-German Chamber of Commerce etc, Bombay Management Association. New relationships were not established this year. IEEE Bombay Section is a Knowledge Partner or Technical Partner and IEEE members routinely get discounts for their events.

### C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
- Joint activities with any other Section

A few DL Lectures were organized jointly with other sections in India, however no significant joint activities were done. There have been such activities initiated and are being executed in 2019.

### 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

Subsections and Society chapters have been provided good support in terms of doing events in their sub sections, funding of events, scholarships and travel grants to subsection members. The subsections have been quite active and have shown growth in memberships as well as are vibrant. The list of events done by subsections are listed herein.

#### Madhya Pradesh Subsection Activities

ICACAT2018	11/27/2018 09:30	MADHYA PRADESH SILNCT, Bhopal, Madhy	325
CSNT 2018	11/24/2018 09:11	MADHYA PRADESH SIRGPV, Bhopal, Mahar	290
International conference on Communication Systems and Network technologies	11/24/2018 14:35	MADHYA PRADESH SI Bhopal, Madhya Prad	55
EXECOM	11/4/2018 17:06	MADHYA PRADESH SIMITS, Gwalior, Madh	10
IEEE Seminar 5G	11/3/2018 09:16	MADHYA PRADESH SIRGPV, Bhopal, Madhy	300
Stress Management	10/29/2018 10:32	MADHYA PRADESH SIMITS, Gwalior, Madh	200
IEEE day and One day Seminar	10/3/2018 10:28	MADHYA PRADESH SIVikrant institute of Te	150
Expert talk on corporate requirement	9/18/2018 09:34	MADHYA PRADESH SIMITS, Gwalior, Madh	120
One week STTP	5/29/2018 09:41	MADHYA PRADESH SIRGPV, Bhopal, Madhy	195
EXECOM	2/11/2018 10:00	MADHYA PRADESH SIRGPV, Bhopal, Madhy	11

#### Nagpur Subsection Activities

IEEE Nagpur Subsection 10th execom Meeting at TCS, Nagpur	12/24/2018 17:30	Nagpur Subsection	TCS, Mihan, Nagpur, I	19
Three day workshop on Micro and Nano Technology	11/1/2018 10:00	Nagpur Subsection	G. H. RAISONI COLLEGE	600
THREE DAY WORKSHOP ON MICRO & NANO TECHNOLOGY: A HEURISTIC APPROACH BY	11/1/2018 09:32	Nagpur Subsection	CRPF GATE NO 3, NAC	61
Hands-on workshop on R Programming	9/1/2018 10:10	Nagpur Subsection	S. B. Jain Institute of	52
AGM of IEEE Nagpur sub- Section held in Hotel Airport Center Point on August 25, 2018	8/25/2018 18:30	Nagpur Subsection	Hotel airport centre p	71
IEEE workshop	8/24/2018 10:00	Nagpur Subsection	TCS, mihan, Nagpur,	91
IGNITE 3.0 - 03rd edition of the summit organized by G.H. Raisoni College of Engineerin	8/24/2018 09:30	Nagpur Subsection	G. H. Raisoni college c	200
Faculty Development Program @ TCS, Nagpur	8/13/2018 10:00	Nagpur Subsection	TCS, MIHAN, Nagpur,	35
Workshop on Arduino Basics and Beyond	8/11/2018 10:00	Nagpur Subsection	Visvesvaraya Nationa	71
techMUN 2018	8/10/2018 10:00	Nagpur Subsection	S. B. JAIN INSTITUTE O	74
IEEE Nagpur subsection- 6th Execom meeting (2018)	7/14/2018 10:00	Nagpur Subsection	TCS, Mihan, MIDC, N	n/a
IEEE Nagpur subsection- 5th Execom meeting (2018) with expert talks	6/12/2018 10:00	Nagpur Subsection	conference hall, Digd	202
IEEE Nagpur Subsection - 4th executive committee meeting(2018)	4/25/2018 15:30	Nagpur Subsection	GHRCE, Greenwood A	205
IEEE Nagpur Subsection - Third executive committee meeting-2018	3/11/2018 15:00	Nagpur Subsection	s. b jain institute nagr	116
Nagpur Subsection Congress (NSSC'18)	3/10/2018 10:00	Nagpur Subsection	s. b jain institute nagr	116
IEEE Nagpur Subsection - 2nd executive committee meeting-2018	2/22/2018 11:00	Nagpur Subsection	G H Raisoni college of n/a	
IEEE Nagpur Subsection - First executive committee meeting-2018	1/10/2018 15:00	Nagpur Subsection	TATA Consultancy ser	80

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

- 1 SKEP (Skills and Knowledge Enhancement Program) series of workshops/talks.
- 2 Formation of a Student Activities Core team spanning across the region. This has created a push amongst students to be active and also participate in more technical as well as leadership events.
- 3 Handing over of administrative affairs to new committee was becoming a challenge due to increased reporting norms at different times and different levels like IEEE R10 & HQ, State and Central Govt. agencies. Creation of Joint Secretary, Joint Treasurer and an Additional Vice-chair helped easy transition as well as timely reporting.
- 4 Leadership statements of Vision/Mission at Annual General Meeting
- 5 Value add to members and professionals through topical Conferences

- 6 Robust Senior Member elevation practices
- 7 Reviving dormant student branches and initiating new branches
- 8 Engaging with Students, Student Branches and Counsellors
- 9 Active website, regular mailers on forthcoming events
- 10 Delivering value to members by providing fair opportunities to attend key IEEE events
- 11 Created a section video for use during IEEE functions.
- 12 Improved governance by
  - ✧ Succession planning incorporated in the formation of the Executive Committee
  - ✧ Adopting smooth hand-over processes

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

The focus on electronics engineering at entry level is going down in this region and many colleges are struggling. The admissions to EXTC and Electronics branches have been low and many colleges are facing closure of these departments. IEEE Bombay Section is now promoting Startup, Entrepreneurships etc and making that aware to school level students, which may help membership in the longer run.

The transition from a Graduate Student Member to YP results in a jump of membership fees by 300% (27 USD to 81). We see a significant drop of members at this level. Since this is also the first year of their job, and students are going into a new town/setup, they are reluctant to spend these kind of fees. A first year reduced YP fee structure may help retention.

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

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

Bombay section s granted special budget for TISP to enhance Mathematics teaching at school level. 3 such day long workshops have been held, and many more will be undertaken in 2019

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

#### **VISION**

- Be the most preferred Technical and Professional Association for individuals in Industry, Academia and Government
- Be the Benchmark among IEEE Sections in India

#### **ACTION PLAN**

- Build on the momentum of the past years
- Firmly establish the new entity (IEEE Mumbai Section Welfare Association) and comply with all statutory obligations
- Operationalize good governance practices and simplify operations
- Enhance value of membership by conducting member development and empowerment programs
- Contribute positively to the communities we operate
- Thought leadership through original contributions in technical and professional areas of impact

#### **4 PILLARS OF ACTION**

##### **Governance & Operations**

- Set up Advisory, Finance and Statutory Compliance Committees
- Establish governance and operations processes
- Leverage website to simplify approvals, interactions
- Member Charter
- Establish registered society Infrastructure



#### Member Development and Empowerment

- To increase number of Volunteers
- Continuous Education and Skill Upgrade
- Technical Engagement, Networking & Exchange Programs
- Replicate programs across the section geography
- Rewards and Recognition
- Develop next-line office bearers, Execom members

#### Relevance to the Community

- Influence Engineering education
- Enhance Industry connect
- Invigorate SIGHT, Affinity Group and all Society Chapter activities
- Student Employability initiatives
- Enhance Faculty Effectiveness
- Drive Industry – Academia collaboration
- Conduct events of Relevance – IBSS 2015, SKEP at more geographies, SKEP targeted at Professional members, IPR workshops

#### Thought Leadership

- Leverage the intellectual capital of the section to Influence policies, standards
- Share Best (Next) practices
- Promote and publicize innovation
- Create an innovation manual
- Enhance Website, Social Media connect

### **D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.**

The section focused on IPT as a theme, along with R2IW (an IEEE New Initiatives funded program) the following activities were undertaken

- World Intellectual property day at Thakur college of Engineering & Technology on 26th April 2018
- Inauguration of Intellectual Property Cell at Thakur College of Engineering & Technology.
- IEEE IPR Event on 23rd August at IIT Bombay
- IPR Awareness program at following Schools, total 301 students participated.
- Oxford international school, Seth Vidya Mandir, Samata Vidya mandir, Oxford public school
- Environment Initiatives felicitation & Promoting Innovation and IPR at Rajiv Gandhi Institute of Intellectual Property.
- Showcasing Smarty City Solutions & smart campus posters to High Power German government Delegation
- IPR session at Somalwar School Nagpur
- IPR awareness session at Engineering colleges.
- International Connect Event
- Exposure of Indian Students to International Innovation competition: Strategic Indo-German Start-up Round Table in Karlsruhe, Germany held on 13th of July.
- H.E. Dr Ajay Gondane speaks on “International Business Opportunities for Indian Businesses”
- Nomination for H2O: Sponsored Delegation to Bologna Italy
- IEEE Bombay section was promoted as partner and necessary publicity was given to promote IEEE Bombay Section. Till now around 1.8 Lakhs are spent and remaining amount will be utilized for setup of Innovation Gallery at Rajiv Gandhi Institute of Technology Nagpur.

### **D.4. Business Plan for Sustainable Growth and Financial Stability.**

The section is currently vibrant with activities and able to break even at annual level. The section has some savings which can see through for seed funding of events and exigencies. The flagships events or larger

conferences done bi-annually do generate revenue for the section. We do not envisage any issues with financial stability or growth challenges due to lack of funds for coming 2-3 years.