## PART A - SECTION SUMMARY

### A.1 Executive Summary –

- **Section Executive Committee Member List for year 2015**

<table>
<thead>
<tr>
<th>Designation</th>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chair, IEEE Pune Section</td>
<td>Dr Pradeep K Sinha</td>
<td><a href="mailto:Psinha58@gmail.com">Psinha58@gmail.com</a></td>
</tr>
<tr>
<td>Immediate Past Chair, IEEE Pune Section</td>
<td>Dr. Rajesh Ingle</td>
<td><a href="mailto:ingle@ieee.org">ingle@ieee.org</a></td>
</tr>
<tr>
<td>Vice-Chair, IEEE Pune Section</td>
<td>Mr. Girish Khilari</td>
<td><a href="mailto:gkhilari@cdac.in">gkhilari@cdac.in</a></td>
</tr>
<tr>
<td>Secretary, IEEE Pune Section</td>
<td>Dr Surekha R Deshmukh</td>
<td><a href="mailto:d_surekha@hotmail.com">d_surekha@hotmail.com</a></td>
</tr>
<tr>
<td>Treasurer, IEEE Pune Section</td>
<td>Prof Mandar Khurjekar</td>
<td><a href="mailto:mandarlk@gmail.com">mandarlk@gmail.com</a></td>
</tr>
<tr>
<td>Chair – Signal Processing Chapter</td>
<td>Dr. K. R. Joshi</td>
<td><a href="mailto:kripune@gmail.com">kripune@gmail.com</a></td>
</tr>
<tr>
<td>Chair - PES/IAS Chapter</td>
<td>Mr. Sachin Shelar</td>
<td><a href="mailto:sachinut@yahoo.com">sachinut@yahoo.com</a></td>
</tr>
<tr>
<td>Chair – Comsoc Chapter</td>
<td>Prof. Vivek Deshpande</td>
<td><a href="mailto:vsd.deshpande@gmail.com">vsd.deshpande@gmail.com</a></td>
</tr>
<tr>
<td>Chair- Measurement and Instrumentation Chapter</td>
<td>Prof. Ashok Gaikwad</td>
<td><a href="mailto:ashokagaikwad@yahoo.co.in">ashokagaikwad@yahoo.co.in</a></td>
</tr>
<tr>
<td>Chair, Computer Society Chapter</td>
<td>Mr. Girish Khilari</td>
<td><a href="mailto:gkhilari@cdac.in">gkhilari@cdac.in</a></td>
</tr>
<tr>
<td>Women In Engineering Affinity Group</td>
<td>Mrs. Rajeshree Jain</td>
<td><a href="mailto:rajashreejain@gmail.com">rajashreejain@gmail.com</a></td>
</tr>
<tr>
<td>Permanent Invitee</td>
<td>Dr. Dattatray J. Doke</td>
<td><a href="mailto:dattadoke@hotmail.com">dattadoke@hotmail.com</a></td>
</tr>
<tr>
<td>Permanent Invitee</td>
<td>Dr. Avinash Joshi</td>
<td><a href="mailto:dr.avinash.joshi@ieee.org">dr.avinash.joshi@ieee.org</a></td>
</tr>
<tr>
<td>Permanent Invitee</td>
<td>Dr. Bharat S. Chaudhari</td>
<td><a href="mailto:bsc@ieee.org">bsc@ieee.org</a></td>
</tr>
<tr>
<td>Permanent Invitee</td>
<td>Mr. Digambar M. Tagare</td>
<td><a href="mailto:mcp60@bsnl.in">mcp60@bsnl.in</a></td>
</tr>
<tr>
<td>Permanent Invitee</td>
<td>Mr. Arun Bahulkar</td>
<td><a href="mailto:arun.bahulkar@tcs.com">arun.bahulkar@tcs.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Prof. G. S. Mani</td>
<td><a href="mailto:gsmanihome@yahoo.com">gsmanihome@yahoo.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Mr. Gorakhnath Ghadage</td>
<td><a href="mailto:gorakhnath_vg@ieee.org">gorakhnath_vg@ieee.org</a></td>
</tr>
<tr>
<td>Member</td>
<td>Mr. Nilesh Deshmukh</td>
<td><a href="mailto:nilesh@udaradhi.com">nilesh@udaradhi.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Dr. A. D. Shaligram</td>
<td><a href="mailto:adshaligram@gmail.com">adshaligram@gmail.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Dr. Yogesh Dandawate</td>
<td><a href="mailto:yhdandawate@gmail.com">yhdandawate@gmail.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Dr. Madhuri Joshi</td>
<td><a href="mailto:punemajoshi@gmail.com">punemajoshi@gmail.com</a></td>
</tr>
<tr>
<td>Designation</td>
<td>Name</td>
<td>Email</td>
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<td>--------------------------------------</td>
</tr>
<tr>
<td>Member</td>
<td>Dr. Yogesh P. Nerkar</td>
<td><a href="mailto:ypnerkar@yahoo.com">ypnerkar@yahoo.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Dr. Anil Tavildar</td>
<td><a href="mailto:astavildar@rediffmail.com">astavildar@rediffmail.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Dr. Neha Sharma</td>
<td><a href="mailto:nvsharma@rediffmail.com">nvsharma@rediffmail.com</a></td>
</tr>
<tr>
<td>Member</td>
<td>Dr. Sandeep Deshmukh</td>
<td><a href="mailto:sandeep.deshmukh@gmail.com">sandeep.deshmukh@gmail.com</a></td>
</tr>
</tbody>
</table>

- **Section Highlights**

Pune, one of the largest urban agglomerations of India, is located in western Indian State of Maharashtra. The city is one of the biggest industrial towns in India and an important educational, industrial, and cultural center. Pune hosts several universities and well-known institutions, and research organizations. The city also houses large number of industries in the field of Information and Communication Technology (ICT), automobile, electrical, electronics, forging, foundries and other engineering Industries. More than one hundred thousand skilled engineering professionals are working in and around the city. The strength of students studying in various disciplines in the city exceeds two hundred thousand.

IEEE Pune Section (R0 01 20) was established on June 26, 2010 with terrestrial boundaries confined to Pune Metropolitan City (Postal Code: 411001 to 411999). The Section falls under the jurisdiction of Asia Pacific Region (R-10) of IEEE, prior to that it was a subsection of IEEE Bombay Section since June 20, 2003 till its formation. At present, the Pune Section has more than 300 professional members and over 1100 other members, including student members.

IEEE Pune Section has 5 Chapters and one affinity group under its umbrella
- Communication Society
- Computer Society
- PES/IAS Society
- Signal Processing Society
- Instrumentation and Measurement Society
- Women in Engineering (WIE) Affinity Group

IEEE Pune Section had 19 Student Branches at start of year 2014. In year 2014, 2 more student branches added to IEEE Pune section. One more branch is established in 2015. So now IEEE Pune section is having 22 Student Branches under its umbrella.

The Section interfaces with the industries and academia through various technical and humanitarian activities. Section organizes various activities throughout the year, which are helpful to the professional members as well as for student’s community for their skill set up gradation. The Section and its student branches endeavour to contribute to the advancement of the knowledge of its community through activities that provide professional information exchanges and stimulate technological innovations. Meetings of the Section officers, interactions with the Student Branch Counselors and representatives are held on regular basis to discuss the ideas and plans for activities.
• Major Events (International, National)

1) Pune Municipal Corporation (PMC) in association with IEEE Pune Section has applied for IEEE Smart Cities Initiative.

Considering the very high value of your application, Pune city is invited to become an Affiliated Smart City for the IEEE Smart Cities Initiative, and we request your permission to publish information from your application to give visibility to Pune smart city.

Being an IEEE Affiliated Smart City entitles PMC to:

- Brand your city as an IEEE Smart Cities “Affiliated Smart City” in any official communications
- Promote your city’s developments through the IEEE Smart Cities website with contributed articles or whitepapers to inform the world of plans and progress on your ‘smartification’ process
- Preferred speaker registration to IEEE Smart Cities Initiative conferences, including the second IEEE Smart City Conference, which will be held in Trento, Italy in September 2016
- Participate in one of the two kick-off workshops of the new core cities (Kansas City, Missouri, USA and Casablanca, Morocco) that will be held before the end of 2015.

2) An MOU is signed between PMC and IEEE Pune Section, under Smart City Initiative on 1st December 2015. Prof G S Mani and Dr Surekha Deshmukh has signed the MOU on behalf of IEEE Pune Section.
3) Signal Processing Society chapter has received special recognition certification, R-10.

1) The Chapter will be certified from 1 January 2016 through 31 December 2019. (Mail received on 20/06/2015)

2) you will receive the following benefits in 2016:

3) A certificate of merit plaque for the 2015 Chapter Chair.

4) An appreciation certificate for each 2015 Chapter Officer.
5) The Chair (or his/her representative) can apply for a travel support grant (up to $1,000 per Chapter) to attend one Chapter Chairs Meeting during the four year certification period.

6) Visibility on the SPS webpage.

- **Major Chapter Activities**

1. International Conference on Pervasive Computing at SCOE (7, 8, 9 Jan 2015), Tutorials from eminent speakers; Keynote, Presentations from the researchers 210 papers presented (28% Acceptance ratio), Demonstrations from DRDO, Exhibitions from various Industries. This conference is technically sponsored by IEEE Communication Society.

2. **PES/IAS Society Chapter has arranged field visit** to 3 MWSolar Plant & Bhira Hydro; TATA Power - 3 MW Solar plant at Mulshi & 300 MW hydro Pumped Storage at Bhira, Tal Mangaon, Raigad on 23/03/2015 (Monday). Total 16 IEEE professionals, and few other engineers have participated.

3. Electrical Safety Awareness Week was organised from 1st May, 2015 to 7th May, 2015 - Rally, Road Drama, discussions on All India Radio, Training program were organised under this, Total number of participants: 300. The program was organised jointly with: IEEE Pune Section, Institution of Engineers (I), Pune Local Center, Electrical Contracts Association of Maharashtra, Consulting Electrical Engineers Association of Maharashtra, Sajag Nagrik Manch, MSEDCL, PWD and academic institutions.

4. Half day seminar by Dr. Sang Bin Lee, IAS DL, Korea on topic “Electrical Testing and Diagnostics of Induction Machines in Industrial Environment” on 18th Nov 2015. Total number of participants: 52 (30 IEEE)

5. **IEEE Computer Society** organized Start-up meet with start-ups like in2things, Serv’D, Opex Software, Techlineage, Emtec, Omnpresent, VyomLabs, Ensoft Corp, TCS (TRDDC)

6. One Week FDP on “Skill Developments in Electronics Design; 29/06/2015 to 03/07/2015, MITCOE, Pune. The objective of this FDP was to prepare faculties for the art of applying basic Concepts for designing Electronics System and verification using EDA Tools. To highlights the importance and significance of Customer Specification/Requirements. Moreover, to creates an interest in the field of electronic Design as a prospective Career option Mr. Sanjay Jogalekar (Proprietor, Kanaad Services and Training Sangali), Dr. R. B. Ghongade (Professor VIIT, Pune), Mr. Jivan B. Katariya (Director SPJ Embedded Technologies Pvt. Ltd.) weree the eminent speakers. There were 25 hours of training in the 10 sessions, conducted. Participants have spent many extra hours excluding these contact hours.

- **Major Student and Affinity Group Activities**

1. IEEE Xtreme:
IEEEXtreme 9.0 is a 24-hours online coding competition, within which a worldwide community of college and university students enjoy an engaging set of unique programming challenges.

2. **Project competition on Signal and Image Processing**  
04/07/2015, PES's MCOE, Pune  
- Competition has received huge response from UG and PG Students with more than 56 abstracts from university of Pune and outside also.  
- The abstracts were from Signal Processing, Image Processing, Speech Processing, VLSI etc.  
- Industrial experts were invited as judges to assess projects, hoping that the competition will serve as a motivational event for students of Signal Processing and an arena where learners can exchange experience.  
- The experts short-listed 17 candidates from UG and PG category.  
- A cut to cut competition took place and 3 prizes for the PG and 2 prizes for UG were distributed immediately after the competition.

3. **Internship and Entrepreneurship Meet**  
PICT IEEE Student Branch (PISB), under the Pune Section, organized an Internship and Entrepreneurship program which aimed at increasing the awareness of importance of internships and the role played by entrepreneurs in today's budding new era of startups and "Make In India". It also highlighted the role of IEEE in providing a platform for internships.  
It had more that 250 students participating from over 15 colleges across the section.  
The Internship program emphasized on the importance of internship and the significance of a résumé. It also explained how one could get an internship through IEEE.  
Guests at the Internship program were Dr. Surekha Deshmukh, Prof. Mandar Khurjekar, Dr. Rajesh Ingle, Mr. Sachin Sharma (CEO of Townscript).  
The Entrepreneurship program aimed at helping students to explore career opportunities, giving them a brief insight into the startup world.

4. WIE has organized ‘Women in are of current and emerging technology’ on 28th October, 2015, at E & TC Seminar Hall, MCOE, Pune , more than 60 lady engineers have participated

- **Awards**

  1. Dr Rajesh Ingle (Region 10, Student Activity Chair) and Mr Girish Khilar from Pune Section attended Region-10 Annual Meet at Dhaka between 6 and 8 March 2015. Pune Section owned R10 Distinguished Medium Section Award (USD 1000 Cash Prize with certificate).

  2. Dr Ingle received CERTIFICATE OF APPRECEATION for his valued contribution as a member of 2015 IEEE India Strategic Initiatives Task Force.

  7. Signal Processing Society Chapter got ‘Appreciation Certification’ from R-10 for being active chapter. This certification is valid for four years.

  8. IEEE Student Brach-PICT got Second Rank at India Council Outstanding Student Branch Award for 2015. From the data received from Piscataway, 51 out of the
600+ student branches in India had consistently reported in 2012, 2013, 2014 but there were just 12 branches which also had upward membership growth over the same period.

A.2 Financial Report –

- Prof Mandar Khurjekar, treasurer of section has submitted all financial details on NESUIT, very successfully and timely. The Summary sheet/balance sheet is included.

<table>
<thead>
<tr>
<th>Financial Row</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Current Assets</td>
<td></td>
</tr>
<tr>
<td>Bank</td>
<td></td>
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<tr>
<td>70217 - Bank of India PUNE</td>
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<tr>
<td>Total Bank</td>
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<tr>
<td>Accounts Receivable</td>
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<td>74317 - Reserve Allocation Receivable</td>
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<td>Total Accounts Receivable</td>
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<td>Other Current Asset</td>
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<td>90121 - VAT on Purchases IN</td>
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<td>Total Other Current Asset</td>
<td>Rs.245.00</td>
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<tr>
<td>Total Current Assets</td>
<td>Rs.285,924.97</td>
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<tr>
<td>Current Assets Less Current Liabilities</td>
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<td>Total Assets Less Current Liabilities</td>
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<td>Total Long Term Liabilities</td>
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<td>Total Assets Less Total Liabilities</td>
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<td>Capital and Reserves</td>
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<td>Retained Earnings</td>
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<td>Net Income</td>
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<td>Total Capital and Reserves</td>
<td>Rs.257,227.36</td>
</tr>
</tbody>
</table>

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities;

This year statistics indicate that membership is reduced by 2%. Section has taken up this as a challenge to increase membership.

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

1. IEEE Pune Section took initiative of Awareness Program which is being organized by IEEE Pune Section Student Branches of various Engineering Colleges in Pune, in order to create awareness about IEEE amongst Student.

2. During every big event, stall was placed for IEEE Membership development initiative, where in the professionals and students were informed about IEEE. Also offer was presented them for on spot registration would get them 1 society free.

B.2 Chapter Activities

- Total number of Chapters in the Section

IEEE Pune Section has 5 chapters and 1 affinity group.

- Number of Chapters formed in the current year

IEEE Instrumentation and measurement Society chapter is started functioning in year 2015.

- Number of active Chapters

Being very active and responsive, all the chapters as well as Affinity group have reported required number of meetings and activities during this year using V tool.

- Summary of Chapter activities

1) IEEE communication society Chapter

1. International Conference on Pervasive Computing at SCOE (7,8,9 Jan 2015), Tutorials from eminent speakers ; Keynote, Presentations from the researchers 210 papers presented (28% Acceptance ratio) ,Demonstrations from DRDO ;Exhibitions from various Industries

<table>
<thead>
<tr>
<th>Member Title</th>
<th>Number</th>
</tr>
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<tbody>
<tr>
<td>Fellows</td>
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<tr>
<td>Life members</td>
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<td>Senior members</td>
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<tr>
<td>Members</td>
<td>352</td>
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<tr>
<td>Student members</td>
<td>679</td>
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<tr>
<td>Affiliate members</td>
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<td>Associate members</td>
<td>93</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1177</strong></td>
</tr>
</tbody>
</table>
2. Lecture by Dr Zhanpeng Jin Of Binghamton University, NY State, USA at MITCOE (30 Jan 2015); **Topic:** wearable, Mobile and Cloud Computing in Smart and Connected Health

3. Seminar Delivered by Dr. Suresh Borkar, IIT, Chicago at MIT (11 Aug 2015); **Topic:** 5G- Wireless

4. Workshop on IOT at ZCOE (31 July 2015); Sunil Desai, Mayur Patwa and Swapnil Khandwe presented from Maven Systems; Demonstrated WSN nodes and its cloud Interaction. Participants are from Academics and Industries

5. Industry Institute Interaction activity at AVAYA (15 Jan 2015); Attendees: Industry (Avaya, IBM, Maven), Academics (SCOE, MITCOE, ZCOE, VIT); Presentation on the collaboration/ bridging the gap by IEEE Interactive discussion on the Technology topics and evolve a theme for workshops, Guest Lectures and other allied events
2) PES/ IAS Society Chapter

1. Field Visit – 3 MW solar Plant & Bhira Hydro; TATA Power - 3 MW Solar plant at Mulshi & 300 MW hydro Pumped Storage at Bhira, Tal Mangaon, Raigad, 23/03/2015 (Monday). Total number of participants: 16 (11 IEEE)

2. Electrical Safety Awareness Week was organised from 1st May, 2015 to 7th May, 2015 - Rally, Road Drama, discussions on All India Radio, Training program were organised under this. Total number of participants: 300. The program was organised Jointly with: IEEE Pune Section, Institution of Engineers (I), Pune Local Center, Electrical Contracts Association of Maharashtra, Consulting Electrical Engineers Association of Maharashtra, Sajag Nagrik Manch, MSEDCL, PWD and academic institutions.
3. Lecture on “Wavelets, their applications, case study” by Mr. Shivaram Kamat – Senior Consultant, TCS, Pune. (IAS Senior Member) on 17 Oct 2015. Total number of participants: 29 (12 IEEE) The program was organized jointly with : IEEE Student branch of AISSMS IOIT.
5. Half day seminar by Dr. Sang Bin Lee, IAS DL, Korea on topic “Electrical Testing and Diagnostics of Induction Machines in Industrial Environment” on 18th Nov 2015. Total number of participants: 52 (30 IEEE)

6. One day seminar by Dr. Peter Sutherland, PES DL, USA on topic “Harmonics in Industrial Power Systems” on 23rd Nov 2015 Total number of participants: 76(11 IEEE)
3. IEEE Computer Society

1. Organized Start-up meet with start-ups like in2things, Serv’D, Opex Software, Techlineage, Emtec, Omnpresent, VyomLabs, Ensoft Corp, TCS (TRDDC)
2. Organized various meetings between start-ups and educational institutes in leveraging opportunities like Internship, Entrepreneurship, Industry Connect, Campus Hiring, etc

3. Organized talks of DLs, Subject Matter Experts with Start-ups, educational institutes, research institutes, enterprises in leveraging opportunities in bridging the gap and working together as a team Instrumental in organizing camps at rural areas to create awareness and towards membership development programs. Participated in Faculty Development Programs, logo competitions, poster sessions, technical workshops, etc through out the year.
4) Signal Processing Society
1. One day Seminar on Overview of NS3; 21/02/2015, PES’s MCOE, Pune
   • The main objective of the seminar was to make student aware of prerequisites, installation, configuration, usefulness & applications of NS3 and
   • To give them hands on experience of NS3 software as well as to teach creation of Wireless Sensor Network & transfer of packets between Sensor Nodes.
   The activity was conducted in two sessions where each session was of 3 hour. Students were benefited as an enthusiasm was created in them to learn such simulation software.

2. One Day Seminar on "Multi-modality fusion" ; 14/03/2015, PES’s MCOE, Pune, The objective of the seminar was to make aware student about the recent trends in medical imaging system were fusion of MRI or PET, PET or CT, projection X-ray or CT, X-ray or ultrasound is made for diagnosis, image analysis and image guided interventions. Dr. Mrs. K.R. Joshi delivered a two hours session in which she discussed need along with the application of this type of fusion and advantages in diagnosis.

3. One Week FDP on “Skill Developments in Electronics Design; 29/06/2015 to 03/07/2015, MITCOE, Pune ,
   The objective of this FDP was to prepare faculties for the art of applying basic Concepts for designing Electronics System and verification using EDA Tools. To highlights the importance and significance of Customer Specification/ Requirements. Moreover, to creates an interest in the field of electronic Design as a prospective Career option
   Mr. Sanjay Jogalekar (Proprietor, Kanaad Services and Training Sangali), Dr. R. B. Ghongade (Professor VIIT, Pune), Mr. Jivan B. Katariya (Director SPJ Embedded Technologies Pvt. Ltd.) weree the eminent speakers.
   There were 25 hours of training in the 10 sessions, conducted. Participants have spent many extra hours excluding these contact hours

4. One Day Seminar on "Introduction to Matlab GUI and Simulink" , 12/08/2015, PES’s MCOE, Pune ; Mr. Nachiket Kulkarni from Idea delivered a session on basics of Matlab GUI, how to design it, what are the different tools available and how it is useful in the application.
   Mr. Shounak Sharangpani from TwinTech Control System delivered a session on Simulink and its applications.
Students learnt the theoretical aspects of GUI and Simulink along with the hands on experience.

5. One Day Seminar on “Advances in Research Methodology; 29/10/2015, PES’s MCOE, Pune; The main objective of the workshop is to focus on EMI/EMC issues for RF system and about advances in Research Methodology.
   First session was conducted by Dr. S. B. Deosarkar. He delivered a session on EMI/EMC issues in RF system Designs and how to minimize it while designing any system so that it should not affect on human health.
   Second session was delivered by Dr. Mahesh Abegaonkar, Associate Professor, Centre of Applied Research in Electronics, IIT Delhi on "Advances in Research Methodology" and on "Effective Technical Paper Writing".

B.3 Professional and Continuing Education Activities

1. One Week FDP on “Skill Developments in Electronics Design; 29/06/2015 to 03/07/2015, MITCOE, Pune.”
The objective of this FDP was to prepare faculties for the art of applying basic Concepts for designing Electronics System and verification using EDA Tools. To highlights the importance and significance of Customer Specification/ Requirements. Moreover, to creates an interest in the field of electronic Design as a prospective Career option

Mr. Sanjay Jogalekar (Proprietor, Kanaad Services and Training Sangali), Dr. R. B. Ghongade (Professor VIIT, Pune), Mr. Jivan B. Katariya (Director SPJ Embedded Technologies Pvt. Ltd.) were the eminent speakers.

There were 25 hours of training in the 10 sessions, conducted. Participants have spent many extra hours excluding these contact hours

2. Two Days Faculty Development Programme on IOT and Smart City 30 and 31st October 2015

B.4 Students Activities

- **Total number of Student Branches in the Section**

There are 22 Student Branches in IEEE Pune Section

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

In the year 2015, one new Student Branch was formed.

- **Section level student activities**

1. BE Project Competition ; (25 March 2015)(First Round) at IOIT; (09 June 2015)(Final Round) at ZCOE

2.  


2. ME Project Competition at PICT
(28 Aug 2015)
3. Project competition on Signal and Image Processing
04/07/2015, PES’s MCOE, Pune
- Competition has received huge response from UG and PG Students with more than 56 abstracts from university of Pune and outside also.
- The abstracts were from Signal Processing, Image Processing, Speech Processing, VLSI etc.
- Industrial experts were invited as judges to assess projects, hoping that the competition will serve as a motivational event for students of Signal Processing and an arena where learners can exchange experience.
- The experts short-listed 17 candidates from UG and PG category.
- A cut to cut competition took place and 3 prizes for the PG and 2 prizes for UG were distributed immediately after the competition.
4. IEEE Xtreme:

IEEE Xtreme 9.0 is a 24-hours online coding competition, within which a worldwide community of college and university students enjoy an engaging set of unique programming challenges.

In this contest, teams of upto three collegiate students who are current IEEE student members could participate. The provision was made for a local college or university to form multiple teams. IEEE Xtreme is a virtual event, so the contest in Pune Section was held locally at Vishwakarma Institute of Technology, Bibwewadi, Pune on October 24, 2015; so as to provide a location for participants to organise themselves and participate in this contest. The contest started at 00:00 AM UTC (05:30 AM IST).

The required financial and managerial support was provided by the Pune Section Executive Committee, which helped us in providing tea and snacks to all the contestants. Funds for t-shirts for IEEE Xtreme were also granted by the Section. Without their efforts, this contest wouldn't have been possible.

IEEE VIT team made all the requisite arrangements for making this contest a success. The Section Ambassadors for IEEE Xtreme were appointed for every section. Two out of four of them belonged to IEEE PICT branch, because of the higher activity rate of the branch.

The Section Ambassadors worked as the liaison between the IEEE VIT team and the Section.

Details:

Date: October 24, 2015 [05:30 AM (IST)] – October 25, 2015 [05:25 AM (IST)]
Venue: Vishwakarma Institute of Technology, Bibwewadi, Pune.
Number of teams from Pune Section: 36 (Team of three)
Time: 24 hours

Top three teams from Pune Section:
Rank 19 – Team KuchBhi: Vaibhav Tulsyan, Pranjal Bhor, Jainesh Patel
Rank 31 – Team Imperials: Jaya Bisht, Sanjay Rawat
Rank 70 – Team DreamTeam: Raunak Maheshwari, Pratik Pugalia, Naman Shukla
IEEEExreme was a grand success this year with 36 teams registering from Pune Section as compared to 1 team registered in year 2014. The eulogizing of the participants for IEEExreme has definitely explicated the embarkment of Xtreme to a new level this year and will certainly upswing in the years to come.

5. Internship and Entrepreneurship Meet

PICT IEEE Student Branch (PISB), under the Pune Section, organized an Internship and Entrepreneurship program which aimed at increasing the awareness of importance of internships and the role played by entrepreneurs in today's budding new era of startups and "Make In India". It also highlighted the role of IEEE in providing a platform for internships.

It had more than 250 students participating from over 15 colleges across the section.

The Internship program emphasized on the importance of internship and the significance of a résumé. It also explained how one could get an internship through IEEE.

Guests at the Internship program were Dr. Surekha Deshmukh, Prof. Mandar Khurjekar, Dr. Rajesh Ingle, Mr. Sachin Sharma (CEO of Townscript).

The Entrepreneurship program aimed at helping students to explore career opportunities, giving them a brief insight into the startup world.

Guests at the Entrepreneurship program were Mr. Nivas Ravichandran, Mr. Amit Sharma, Mr. Sachin Sharma (CEO of Townscript).

- Number of active Student Branches
This year IEEE Student Branches reported the required number of meetings and also reported on the activities performed by student branches, the following is the summary of the same.

- **Summary of Student Branch activities**

  There was variety of activities being organized by various student branches.

1. The JSCOE IEEE Student Branch conducted various activity for 2015. The branch completed three events
   1) PCB Design Using Orcad by Mr. Pranav Shukla
   2) "Project Design " by Prof. G.S. Mani sir
   3) "Spiritual and Stress management by Dr. A.P. Rao sir

2. InQUIZitive:
   An amalgamation of technical and general knowledge quiz presented by the PISB team, it is one that had seasoned quizzers go dumbfound. It was mainly divided into four rounds, the first being elimination after which the top 5 teams were shortlisted. From there on, the competition was further divided into 3 rounds for these teams, namely the theme round, the hint round and finally the connection round. The event was conducted on 5th February, 2015.

3. UNRAVEL:
   This competition was held on 11th February, 2015. It was an offline treasure hunt which had students from all classes, from FE to BE running around searching for clues and trying to crack the codes. There were 60 participating teams, where clues were hidden in the college campus. It was a success with respect to participation, organization and execution.

4. NTH:
   NTH is an online treasure hunt created by the PISB team. The participants register for the same, online, prior to the competition. Once the competition begins, the participants have to solve the hints as fast as they can to make it to the top of the leader board. They can use any online search engine for help to solve the questions presented before them. It is an extremely addictive game that comprises of 23 levels and runs for 36 hours. NTH went online on 21st February, 2015 from 8 p.m. and ended on 22nd February, 2015 at 8 a.m.

5. IDEATE
   A business event introduced by the PISB team, Ideate was an event to develop a habit of analytical thinking among the students, where the students got a perfect platform to try out their entrepreneurship skills and to showcase their talent in front of reputed cognoscenti. Ideate was mainly divided into 2 rounds, the first being the qualification round where participants were asked to answer a question and send the team their answers. On the basis of these answers, the top 5 were selected to present their marketing strategy for a pre-assigned product in front of the judges. The event was conducted on 25th February, 2015.

6. NCC
In keeping up with the tradition of bringing the best coders of the city under one roof, PISB organized National Computing Contest. The competition comprised of several algorithmic problems of varying difficulty, which were to be solved by the participants in C/C++. NCC was hosted on two levels, inter and intra college. The intra college event was hosted via CodeChef. The intra-college level took place on 26th February, 2015 from 4 p.m. To 6 p.m.

7. CTD

Credenz Tech Dayz (CTD) is held annually in the even semester. It showcases guest seminars by reputed industry cognoscenti on trending technologies of today and tomorrow, across a wide horizon of topics. CTD aims to imbibe an attitude of curiosity and learning in students and expand their perspective of the scope in technology. Also, P.I.N.G. Issue 11.0 was unveiled during CTD.

The following seminars were conducted under Credenz Tech Dayz ’15:

- 12th February 2015: ‘Robotics’ by Mr. Ashwin Agrawal, Mr. Pranay Kishore and Mr. Zainul Abedin Abbasi from Phi Robotics
- 13th February 2015: ‘A peek in 3-D Printing’ by Mr. Gaurav Godbole from 3DZest
- 13th February 2015: ‘Telecommunication Unfolding’ by Mr. Paresh Dasare from Idea Cellular Ltd.
- 23rd February 2015: ‘Wifi 802.11 and IoT’ by Mr. Sudhan Kayarkar from Airtight Networks
- 24th February 2015: ‘BIG DATA’ by Mr. Partha Roy and ‘College to Corporate’ by Mr. Uday Ghare, Mr. Sachin Kulkarni from Tech Mahindra
- 25th February 2015: ‘Startups’ by Mr. Shrikrishna Amlekar from Brueckner Seebach Filter Solutions Pvt. Ltd.
- 28th February 2015: ‘Android Studio’ by Mr. Jaydeep Wagh from Changer Technologies
- 28th February 2015: ‘Gaming and Related Technology’ by Mr. Rahul Dongare from Crest

Website: CTD ’15

8. Credenz

Credenz is a showcase event of the PISB. It is a colossal event which is organized for 3 days in the odd semester. Credenz ’15 was organized from 28th August to 30th August, 2015. The theme was ‘Evolution of Graphics’ with the tagline ‘Rendering your Imagination’. A plethora of technical events were organized, with Contraption and KeyQuest being newest additions.

No. of Colleges : 130+
No. of Participants : 5500+
Prize Money : Rs 3,50,000+

Credenz ’15 was a success because of its invariably talented participants and passionately enthusiastic organizers who worked hard to come up with such an extraordinary event.

Renowned companies like Crest and IBM were the Title Sponsors for the event. P.I.N.G. Issue 11.1 was released during Credenz ’15. Workshops on Robotics, Raspberry Pi and Sixth Sense will be conducted by K-Imaginations on 12th and 13th September, 2015.
9. Code Olympia

On the occasion of IEEE Day - 6th October, 2015, PICT IEEE Student Branch (PISB) Women In Engineering (WIE) Student Affinity Group, Pune Section, Maharashtra, India, Region 10 had organized an online international coding contest. The aim was attracting women’s attention and seeking empowerment of women in the technical world. It also aimed at boosting logical thinking and enhancing their coding skills. The competition was held online on 'Hackerearth'. The questions were algorithmic to boost logical thinking. The competition was open for all. A team had maximum 2 members. Participants had to code in C/Cpp for given problem statement. It had 6 questions. The competition begun at 1900 with total time duration of 3 hours. There were international participants from various countries like Lebanon, Egypt, Azerbaijan, Vietnam and so on. Total 239 teams had participated. There were two categories of prizes. In first category prizes were given to top two general teams. The top 2 winning teams in general category were 'Random Team' and 'Limitless'. In second category prizes were given to top 2 teams which had minimum one girl participant. Top 2 winning teams of this category were 'Hopeless Flower' and 'Dafuq'. Around 150 teams had women participants. The competition was successful in achieving it's aim.

10. P.I.N.G:
P.I.N.G is made by a group of zesty individuals, driven by a common purpose of reflecting the present-day youth’s insight on the technical advancements. It showcases a diverse array of topics stretched over the entire confines of technicalities. It provides its readers with a source of inspiration in the form of interviews of reputable people, talking about their commendable lives. The magazine is aimed at making the experience of its reader, an absolute delight and informative at the same time.
Over the years, P.I.N.G. has been appreciated by students, teachers and technical personnel. The contribution of the authors, the suggestions of the readers and the guidance by fellow PISB members have made it possible for the P.I.N.G. issues to deliver. We, the members of PISB, aspire for P.I.N.G. to be a world-class magazine and live up to all the expectations in the consequent years.

B.5 Affinity group Activities

- **Young Professional**
  IEEE Pune Section is submitting application along with petition for formation of Young Professional affinity group.

- **Women in Engineering (WIE)**

  1. Workshop on Interview skills; PICT Seminar Hall, Audience: About 70 PISB Members

  2. Women in Engineering (WIE) Chapter presents a Coding Contest, Code Olympia.
     - Registration: Open for all. A team can consist of maximum 2 members. (Preferable to have a girl member in the team)
     - Registration for prizes: [https://goo.gl/vzk32z](https://goo.gl/vzk32z)
     - Top 2 teams with minimum 1 girl member in it will receive cash prizes.
     - Prizes worth Rs 8000 have been distributed
3. Women in are of current and emerging technology; **Date:** 28th October, 2015.  
**Venue:** E & TC Seminar Hall, MCOE, Pune  
**Convenor:** Ms Rupali Kamthe, Vice Chair, WIE AG, IEEE Pune Section
1. Two Days Faculty Development Programme on IOT and Smart City 30 and 31st October 2015

- **Life Member**
  At present, life member affinity group is yet to be formed.

**B.6 Awards & Recognition Activities**

- **Award constituted by the Section**

  This year an initiative is taken in forming Award and recognition committee at section level. The committee will be fully functional very soon.

- **Award(s) received**

  1. Dr Rajesh Ingle received CERTIFICATE of APPRECEATION for his valued contribution as a member of 2015 IEEE India Strategic Initiatives Task Force
  2. Signal Processing Society Chapter got ‘Appreciation Certification’ from R-10 for being active chapter. This certification is valid for four years.
  3. IEEE Student Brach-PICT got Second Rank at India Council Outstanding Student Branch Award for 2015.

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

- **Newsletter**
  IEEE Pune Section Newsletter was published once in mid-2014 and next edition is under progress due to be published very soon.

- **Home Page of the Section** (give the URL and how often it is updated)
  [http://www.ieeepunesection.org](http://www.ieeepunesection.org)
  It’s generally updated monthly basis. Also when there are request by members / chapters to publish the contents.

- **Other means of contacts with Section members**

  The Section members are generally communicated using the IEEE Lister Services via email.
The Annual general meetings and General Body Meetings

**B.8 Industry Relations**

1) With the formation of Industry relation committee, two events are conducted one on Entrepreneurship Development and Intern-ship Development along with team of IEEE India Strategic Initiatives Task Force

2) The industrial visit is organized for professionals to TATA Solar power plant. Total 32 members took the benefit.

**B.9 Humanitarian Technology Activities**

IEEE Pune Section is planning to take up some activities under Humanitarian domain.

**B.10 Community Activities**

- **IEEE Social activities**

  1) Student Awareness Contest is a technical-social activity being conducted by this section since last ten years. Under this unique activity, this year more than 500 engineering students have approached 150 schools, and presented and discussed various upcoming topics on advancement of Technology. PVG’s COET, has shared the responsibility of coordinator of this contest. The time span of complete activity is about 4 months. This activity help students for team building, social – communication building, time management etc.

  2) World Telecom and Information Society day was celebrated on jointly by IEEE, IETE, IEI @ IEI Shivajinagar Pune

  3) International Women’s day was celebrated on 8th March by WIE, IEEE Pune Section in collaboration of PEs Modern college of Engineering and Symbiosis institution.

  4) We have Student Awareness Program for students of all sections in India. Have received wide range of groups from Pune and other sections this year also We will make it now open at next event in 2016. Comsoc has organized one meeting all COMSOC Chapters in the country under leadership of Mr Munir of IEEE India office. This meeting was held in SCOE during ICPC in January 2015. The Project Competition for Communication Engineering Project, is unique and requires student groups to demonstrate working project (consisting both Hardware and Software). This will be Open for two more sections in 2016.

**PART C - OTHERS**

**C.1 Special Events ;**

- **Participation of members in various events.**

  1. Dr Surekha Deshmukh, Dr Rajashree Jain, Dr Ingle and 3 student members attended IEEE Region 10 SYW Congress 2015 at Colombo between 9th and 12th July
2. Dr Surekha and Prof Mani attended Metro Area Workshop at Bangalore on 25-26 Sept 2015 towards the preparation of similar event at Pune in Feb-2016.
3. Mr Girish Khilari represented Pune Section at IEEE India Strategy Initiative Workshop @ Hyderabad on 28th Nov, 2015. Dr Nerkar attended Education Activity Board Meeting at Coimbatore 20 & 21 April 2015

- Conference- Organization
  1) INTERNATIONAL CONFERENCE ON PERSASIVE COMPUTING, held at SCOE Pune on 8th, 9th and 10th January, 2015
  Had 3 National Level Keynote speakers and Two international level Speakers
  This was Technically sponsored by IEEE Comsoc Pune Chapter and IEEE Computer Society Pune Chapter of IEEE Pune Section

2. International Conference on Image Processing, 16-19 Dec, 2015, VIIT, Pune

C.2 Relationship with National Societies

- IEEE Pune Section supports the activities organized by CSI, IEI, IETE. Also actively participates in the activities organized by other national societies.

- Few of our execom members are active and office bearers in these national societies, i.e. Dr. Doke is officer of IEI Pune Chapter, Dr. Rajesh Ingle, Secretary, Computer Society of India. Prof Mandar Khurjekar is an active member of IETE.
C3. Collaboration with other IEEE Sections

Members of IEEE Pune Section are in contact with other section as well as India Council.

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

- Section has full support at technically, advisory capacity while organizing events such as conferences, seminars, workshops, training etc.

- IEEE Pune Section is Technical sponsors to the International/ National Conferences being organized in Pune Area. IEEE Pune Section is supporting and guiding the following conferences where IEEE Pune Section’s Society/ societies is/ are involved.

- IEEE Pune Section seeks the reports from all these conference on monthly basis and each conference is being discussed by Execom to assess the preparation of the conferences.

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

- Regular meetings with institutions who organize various activities and events in collaboration with IEEE Pune Section. This helps in smooth conduction as well as quality check, resulting in satisfactory organization.

- The regular meeting with Execom members are held to channelize the operation of all chapters with update on finance position.

- IEEE Pune Section is using IEEE Lister Service to communicate via email distribution lists. The DL have been created for EXECOM members and IEEE Pune Section members.

- Regular update and reporting of activities by all chapters, affinity group as well as student branches.

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

IEEE Pune Section can provide a platform for industry and other professional to enable to contribute. This needs more active involvement of professionals.

PART D - GOALS AND PLANS

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

1. The activities are good enough in number, still the variety of activities will focus on the fulfillment of need of professional.
2. Continuing support and guidance to the conferences technically sponsored by IEEE Pune Section.
3. Industry- meet ups
4. Encouragement for demonstrative technical exhibitions

**D.2 Goals and Future Plans**

1. Section is going to take initiative for formation of Young Professional Affinity Group, Educational Activity committee
2. Section also has inclination towards starting up activities under Humanitarian Technology.

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

1) It is suggested to organize specific programs as per the requirements of industry, consultants, and entrepreneur.
2) To encourage events with hands on demonstrations, practices and brain-storming panel discussions.