4.5 Professional Activities (20)

4.5.1. Professional societies/chapters and organizing engineering events (5)

1. **System Society of India**

   Following Members of department are office bearers of Systems Society of India
   1. Prof. Vishal Sahni: President
   2. Prof. C. Patvardhan: Vice-president
   3. Prof. D. Bhagwan Das: Secretary

   The National Systems Conference is organized every year through the Systems Society of India. SSI promotes advancement of theory, research, application & practice keeping in view the holistic systems approach for the advancement of humankind. All regular faculty members of the Department are members of this society.

   National Systems Conference
   Department has organized The 41st National Systems Conference was organized during 1-3 December 2017 at DEI and Prof. D.K. Chaturvedi of EE Department was the Conference coordinator .

   Paritantra
   Prof. Vishal Sahni of EE Department organises an annual students' system conference under the flagship of SSI and DEI.

2. **Students Chapter of Institution of Engineers India (IEI)**

   Electrical Engineering department runs a Students' Chapter of Institution of Engineers (India). All students admitting to the department joins the students' chapter. The students' chapter of IEI holds various activities round the year to aware the students about mechanical engineering fraternity and latest updates in the field. Activities like invited talks, competitions viz. quiz, essay writing, poster and model making are being held time to time.

S.No	Competition	Date		
		CAY (2018-19)	CAYm1 (2017-18)	CAYm2 (2016-17)
1	Essay Competition	3-9- 2018	1-9- 2017	8-9- 2016
2	Poster Making	3-9-2018	1-9-2017	8-9-2016
3	Quiz	4-9-2018	2-9-2017	9-9-2016
4	Model Making	5-9-2018	4-9-2017	10-9-2016

Annual Engineering Events

1. **Engineers Day**

   The Students' Chapter celebrates 'Engineers Day' on 15th September every year in the institute. A renowned engineering personality is facilitated on this auspicious occasion. The student winners of various competitions, being held round the year are awarded on this day.

2. **Sampravah**

   It is a technical-cum-cultural festival organised every year for all the students of Dayalbagh Educational Institute as well as students of other institutions.

3. **Teachers Day**

   Teachers Day is celebrated every year on 5th September.

3. IEEE Region 10 Humanitarian Technologies Conference (IEEE HTC-2016)

Members of the department are also members of IEEE at various levels. The department is involved in organizing IEEE HTC.

IEEE HTC is a flagship conference of Region 10 and IEEE HTC 2016 was organized at DEI and Prof. D. Bhagwan Das, EE Department was the coordinator for the same.

IEEE Women in Engineering track was conducted on 22nd December 2016 for a duration of 3 hours, as part of IEEE HTC 2016 organized at DEI, Dayalbagh Agra. The theme of the session is, "Women Empowerment to break barriers and lead the smart world".

A Meetup was organized by the IEEE R10 Young Professionals community on 23rd December 2016 at Dayalbagh Educational Institute, Agra, India. It was organized as a parallel track in the IEEE R10 Humanitarian Technology Conference 2016 and saw a participation of about 40 people.

Within IEEE R10 Humanitarian Technologies Conference 2016, we launched a unique initiative that has seldom been a part of IEEE Conferences - A hackathon/makethon. A hackathon/Makethon offers the opportunity to bring together the best of Academia, Industry and Students. This co-mingling of new ideas, new technology and new talent is different from anything ever done at IEEE conferences before and is the way forward in our fast changing technological society. With this in mind, with Texas Instrument's support and sponsorship we opened up this event to all the students in IEEE R10 region and received well over 150 registrations and 70 finally participated. The event was conducted from 21st to 23rd of December, 2016 at DEI Multimedia Extn. It was a rigorous prototyping camp where the 70 participants from various prestigious institutions like IIT Kanpur, IIT Roorkee, MSIT, DEI etc. worked to create innovative proto types and software solutions.

4.5.2. Publication of technical magazines, newsletters, etc. (5)

DEI News is published monthly. The magazine is edited by staff from all faculties of the Institute. From the Faculty of Engineering, Dr. V. Soamidas and Dr.Ashok Yadav are the concerned members. It contains information about

a. Technical and other events organised in the Institute
b. Conferences, workshops or other events attended by faculty members and students
c. Prizes and awards won by staff and students
d. Papers published by staff and students
e. Any other matter concerning the Institute

Paritantrika General system news: a news letter by SSI chapter of Dayalbagh. More details are given in
https://www.dei.ac.in/dei/index.php?option=com_content&view=article&id=862&Itemid=420

4.5.3 Participation in inter-institute events by students of the program of study (10)

S.No	Technical Event	Venue	Dates	No. of Participants
1	MOOD INDIGO	IIT Mumbai	27-30 December,2018	25
2	THOMSO	IIT Roorkee	26-28 October, 2018	20
3	SMART INDIA HACKATHON	BHU, Varanasi	30-31 March, 2018	6
4	COGNIZANCE	IIT Roorkee	23-25 March,2018	7
5	TECHKRITI	IIT Kanpur	15-18 March, 2018	11
6	MITSUBISHI GOLDCUP	Nirma University	15-17th February, 2018	4
7	THOMSO	IIT Roorkee	27-29 October,2017	30
8	WORLD FOOD HACKATHON	World Habitat Centre, New Delhi	27-28 October, 2017	4
9	SMART INDIA HACKATHON	Jaipur	1-2 April, 2017	6

Achievements by students

2018: Mitsubishi Gold Cup, Ahemdabad, Prize Money Rs. 1 Lakh and sponsored visit to Japan for the team and the mentor.

Mitsubishi Electric India organized 3rd Mitsubishi Electric Cup at Nirma University, Ahmedabad, Gujarat from 15-17th February, 2018. A total 130 teams from several Institutes/Universities all over the country submitted their proposals out of which only top 35 were shortlisted. Four students viz. Abeer Saxena, Mehar Saran, Punarvasu Sharma and Achraj Prakash from Faculty of Engineering under the Supervision of Prof. D Bhagwan Das represented Dayalbagh Educational Institute and stood as the Winners of 3rd Mitsubishi Electric Cup winning the Gold Cup, a cash prize of One lakh rupees and a 7 days trip to Japan sponsored by Mitsubishi Electric.

The theme of the Competition was **Innovative solutions for Smart Manufacturing.** With the use of various devices such as PLC, VFD and HMI of Mitsubishi Electric they designed a **Multipurpose Mobile Powerhouse.** It uses solar energy to generate electricity which is clean

and green. The machine is able to generate DC, single phase and 3 phase power supply of 1.5 kW. The innovation is to design a remote controlled portable solar power plant with foldable solar panel mounting structure. This machine can be used as a substitute of Diesel generators without causing harm to environment.

Its applications are not only limited to Industry, but it can also be used at several places such as in Agricultural fields to supply power to irrigation pumps, threshers, feeders etc. In Military area, it can be ported to Indian borders and can supply electricity 24*7 for various application ranging from monitoring of border to electricity supply for using and charging various gadgets and devices. It can also be used as a Fire Fighting robot, as a portable coffee vending machine in industries, as a mopping device, substitute of Diesel generators in medical/other camps at remote locations, marriage & religious processions etc., your imagination is the limit.

2017 : Champion, Best Solar Skills Training Institute, Renewable Energy India Expo, September 21, 2017, Greater Noida.

2016: First Prize in Mitsubishi National Automation Contest, Pune. Prize Money Rs. 1 Lakh.
A team comprising of Prem Kumar, Rishabh Banerjee, Rahul Chugh and Mohit Gupta, all of third year Electrical Engg., participated in the Mitsubishi Electric Cup 2016 : A National Level Automation Competition, organized by Mitsubishi Electric in Pune. The Theme of the competition was "Eco-Imagination through Smart Manufacturing". The team presented a working model of the project 'Smart Microgrid'.

Almost 70 teams from different institutions all over the country participated for the first round of Mitsubishi Electric Cup 2016. Finally 24 teams were selected for the final event held from 11 to 13 feb. 2016 at VIT, Pune.
The Faculty of Engineering Team won the first prize(Gold Cup) as well as The Most Popular Team Award, which was selected by voting. The team also received a Cash prize worth Rs 1,00,000. The project was guided by Prof. D. Bhagwan Das, Faculty of Engineering.

2015: II Prize in Students' Innovation Pavilion organized by PGCIL, India at Pragati Maidan, New Delhi. Prize Money Rs. 2.5 Lakh

Students' Achievements at National Level

1. **Second PRIZE (Rs. 2.5 Lakh), Students' Innovation Pavilion**, GRIDTECH 2015:5th International Exhibition and Conference on April 8-10, 2015 at Pragati Maidan, organized by POWERGRID with the support of Ministry of Power and in association with CBI&P and IEEMA.

2. **First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at** Mitsubishi Electric Cup 2016 : A National Level Automation Competition, organized by Mitsubishi Electric in Pune.

3. Participation in **Rashtrapati Bhawan Code for India Hackathon for Social Innovations** held at President's Estate, New Delhi, India (March 2016)

4. **First prize (Mitsubishi Gold Cup and Rs. 1.0 Lakh) and The Most Popular Team Award at** Mitsubishi Electric Cup 2018 : A National Level Automation Competition, organized by Mitsubishi Electric in Pune. The participating Team and the Mentor visited Mitsubishi Industries, Japan for 5-day Trip.

5. **Champion 2017 : Best Solar Skills Training Institute,** Renewable Energy India Expo, September 21, 2017, Greater Noida.

6. **IEEE xTREME** National Rankings 4, 28, 29
7. **Selected for** participation at National Level in **ACM ICPC** 2014,2015
8. **Best Graduate Engineer Trainee/ Best New Comer/ Star Performer of the Year/ Best Analyst/ Best Team** at Maruti Udyog, HCL, TCS, ST Microelectronics, Accenture, ACC Ltd., Siemens India
9. **Google Code Jam 2015** : International ranking 3275
10. **Prizes won** at National Level Essay Writing