

Bharatiya Vidya Bhavan's
SARDAR PATEL COLLEGE OF ENGINEERING
(Government Aided Autonomous Institute)
Andheri (W), Mumbai 400058
DEPARTMENT OF ELECTRICAL ENGINEERING

Annual Report 2017-2018

The strength of Department of Electrical Engineering is its faculty, students, supporting staff and alumni. Faculty of the department are motivated by their goal to transform young engineering students to skilled and proficient Electrical Engineers. This report presents academic activities and the achievements of Electrical Engineering Department in the academic year 2017-2018.

Academic Activities:

Curriculum:

The department offered the following new regular, elective and value added courses for students. New elective courses are useful for the students continuing higher studies whereas value added courses are helpful to them while implementing B. Tech. projects. Soft computing courses offered for S. Y. and T. Y. students are useful for understanding many Electrical Engineering concepts.

- Image Processing (Elective)
- Modern Control Theory (Elective)
- Environmental Engineering and Management Studies (Regular)
- Soft Computing I (Value Added)
- Soft Computing II (Value Added)
- Digital Signal Processing for Power Control (Value Added)

Industry offered Elective:

The elective course Industrial Automation for Semester VIII is designed and by Industry Expert (Mr. A. Ghosh from L & T).

Guest Lectures:

The following guest lectures are arranged for B. Tech. and M. Tech. students during AY2017-2018:

- "DSP interface with voltage and current sensor with PC" engaged by Ms. Kavita Hireesai on 06/02/2018 and 08/02/2018
- "Experiences in Smart Grid Implementation" engaged by Mr. Vijay L Sonavane, Hon.Advisor, India Smart Grid Forum, New Delhi, Former Member(Tech) MERC Mumbai, Former Director (Projects)MSEDCL Mumbai on 20/04/2018

Industry visits arranged:

- L and T for final year students (opted for Elective Industrial Automation)
- Virar Railway Loco Shed in last week of April 2018.for final year B.Tech students (opted for Elective Traction)

Workshop for students

The department has organized workshop on “Beginners to Python” on April 14-15,2018 for students. Our final year student Mr. Narpat Suthar has engaged theory and practical sessions during this workshop.

Achievements:

Faculty:

- The following faculty has up graded their qualification
 - Ms. Swati Lawand: Completed her Ph. D. from IIT, Bombay
 - Ms. Prajakta Joshi completed M. Tech in Power Electronics Power System
 - Ms. Matilda Jusine completed M. Tech in Power Electronics Power System
 - Ms. Ushma Shah completed M. E. in Electronics and Telecommunication
- Award:

Dr. Swati Lawand received POSOCO Power System Award 2018 for her research work.

- The following faculty has attended Induction Programme at COEP, Pune:

Dr. B. B. Pimple Dr. Anupa Sabnis Prof. V. P. Joshi

Students:

- Electrical Engineering Students Association (EESA) is active throughout the year. The students conducted and participated in many technical and extra curricular activities like SPECTRA, EESA cup etc. under the guidance of department faculty Mr. Rahul Chavan and Mr. Vishal Dake.
- Fourteen students are qualified in GATE examination and Mr. Vaikund Sudarshan is the topper among them with AIR 1043. Two of our alumni Mr. Kharde Hrishikesh and Ms. Swati Patil secured AIR 15th and 24th respectively.
- UG and PG students have published papers in various international conferences. One of our UG team (Ms. Neha Akode, Ms. Alisha Gedam, Ms. Vidhi Jain, Mr. Ankur Singhanjude) won Excellent paper award by IRAJ Research Forum.

Supporting staff:

Nine of our supporting staff have attended workshop on Civil Defence and four of them have attended three days Induction Program under TEQIP III.

Other:

MOU has been signed on 23/04/2018 with Power System Operation and Control (POSOCO) for the collaboration in the domain of Power System.

Summary of AICTE/TEQIP Mandate Information during 2017-18

- Number of research conferences/seminars attended = 5
- Number of OBE workshops attended = 1
- Number of STTP/Workshops attended = 3
- Number of guest lectures arranged = 2
- Number of industrial visits organised = 2
- Number of technical publications in international conferences = 19
- Number of new courses offered in 2017-18 = Regular: 01 Elective: 02 Value Added:03
- Number of ICC constituted for courses taught by faculty = 8 UG
- Number of faculty registered for SWAYAM portal for certification course = 7
- Number of students appeared for GATE-2018 examination = 32

Department Budget and Expenditure in AY 2017-2018

Sr. No.	Name of Laboratory	Budget Amount in Rs	Amount Spent in Rs.
1	Electrical Machine Lab	90,000	20,374.00
2	Renewable Lab & Electrical Drives Lab	80,000	26,500.00
3	Electronics & IC	80,000	
4	µp, µc & Robotics (VLSI and Embedded)	90,000	7,416.00
5	Communication & DSP	80,000	16,584.00
6	Switchgear & Power system Computation	65,000	
7	Control System	75,000	2,449.99
8	Power Electronics	80,000	
9	PLC & Industrial Automation	80,000	
10	Electrical Measurement	80,000	77,408.00
11	EED ADMIN OFFICE	50,000	18,462.00
12	UG Projects	1,50,000	69,062.64
	Total	10,00,000	2,38,256.63