

# Annual Report of Electrical Engineering Department for the Academic Year 2018-19

It gives me immense pleasure to put before you the Annual Report which includes various activities performed and the achievements during the academic year 2018-19 of our department.



## 1. ACADEMIC PERFORMANCE:

The students have shown excellent results in university examination. Result of S.E, T.E and B.E classes of April/May 2018 examination are as follows:

### a) University & Class Ranks

#### BE (Electrical)

Class Rank	University Rank	Name of Student	Percentage
I	II	Mr. Khot Ramchandra B.	87.40
II	III	Ms. Kshirsagar Aditi A.	87.27
III	VI	Ms. Mugali Bhagyashri	86.07
IV	VII	Ms. Chigani Susmita S.	85.06
V	VIII	Mr. Mahindrakar Darshan	85.02

#### TE (Electrical)

Class Rank	University Rank	Name of Student	Percentage
I	III	Ms Bagban Shifa Anjum	82.56
II	VIII	Ms. Barkade Aishwarya	81.43
III		Ms. Dhumma Nikita B.	79.31
IV		Ms. Kairamkonda B.	78.75
V		Ms. Badavane Vikram C.	77.44

#### SE (Electrical)

Class Rank	University Rank	Name of Student	Percentage
I	IV	Mr. Pawar Ajay Prasad	84.31
II	V	Ms. Futane Prerana	84.25
		Ms. Mhamane Smita	84.25
III	VI	Ms. Gaddam Shobha A.	82.94
IV	VII	Mr Jawale Prajwal Tanaji	82.69
V	IX	Ms. Naiknaware Pradnya	82.38
VI	X	Ms. Khairate Priya	81.94

### c) Class wise Results:

S.E. (Electrical) - 80.88 %

T.E. (Electrical) - 70.97 %

B.E. (Electrical) – 100 %

## d) GATE Result:

Mr. Vikram Badavane Qualified GATE-2019 by scoring 340 percentile.

## 2. STUDENT PLACEMENTS:

Sr. No.	Name of Company	No. of Students Placed
1	Wipro	01
2	Varroc Engineering	16
3	Qspider	07
4	Universal Education	05
5	Dhoot Transmission	07
6	Epic Research	03
7	Just Dial	02
8	Deen Dayal Upadhyay Grameen Kaushalya Yojna	01
9	Statistics Market Research Consulting Pvt. Ltd.	01

## 3. FACULTY PUBLICATIONS:

1. Prof. V.S. Shirwal presented a paper on “Implementation of LS Estimator on FPGA” in 2<sup>nd</sup> IEEE global conference on wireless computing at networking at SIT, Lonavala on 23-24 Nov 2018. The paper was published in IEEE digital library.

## 4. FACULTY ACHIVEMENT:

### Best Teacher award:

Prof. H. J. Mane awarded as best teacher of the department for academic year 2017-2018 on the occasion of Teachers day.

## 5. FACULTY INTERACTION WITH OTHER INSTITUTES

Resource Person	Activity	Date	Name of College
Prof. V.S. Shirwal	Conducted visit to 36KW Solar Power Generation Station at NKOCET, Solapur for TY students	16th & 27th Feb 19	G.P. Solapur
Prof. H. J. Mane	Conducted Guest Lecture on ‘PCB Designing’	23rd Aug 18	G.P. Solapur
	Conducted workshop on ‘PCB Designing’	27th Sept 18	
	Conducted practical session on ‘Power Electronics’ for TY students	21st Jan 19	MAP, Solapur



Prof. V. Santosh kumar	Conducted Guest Lecture on 'EHVAC System' for TY students	5th Feb19	SSWP, Solapur
Prof. I. I. Mujawar	Conducted Guest Lecture on 'Alternator Protection' for TY students	14th Sept 18	SSWP, Solapur
Prof. A. J. Mehta	Conducted workshop on 'PCB Designing'	27th Sept 18	G.P. Solapur
	Conducted practical session on 'Electrical Machines' for TY students	23rd Feb 19	MAP, Solapur
	Conducted Guest Lecture on 'Single Phase Transformer' for SY & TY students	22nd Sept 18	BMP, Solapur
Prof. V. B. Bhosale	Conducted Expert Lecture on Solar System Design for TY students	25th Jan 19	Jawahar College of Arts & Science, Andur, Osmanabad (B.Sc. Students)
	Conducted workshop on 36KW Solar Power Generation Station at NKOCET Solapur for TY students	21st Jan 19	MAP, Solapur
	Conducted workshop on 36KW Solar Power Generation Station at NKOCET Solapur for SY & TY students	16th & 27th Feb 19	G.P. Solapur
Prof. N. U. Gawali	Conducted Practicals on 'PLC & SCADA' for SY & TY students	16th & 27th Feb 19	G.P. Solapur
Prof. S. S. Shaha	Conducted practical session on 'Electrical Measurements' for TY students	23rd Feb 19	MAP, Solapur
Prof. D. D. Pawar	Conducted Guest Lecture on 'Power Quality' for TY students	11th Feb18	G.P. Solapur
	Judge for 'Poster Presentation' for Electrical Department	16th Feb 19	MAP, Solapur

## 6. INDUSTRY - INSTITUTE INTERACTION

### a) Testing And Consultancy Activity

#### i. Project title: Analysis of capacitor installation on agricultural pumps

This project is received from **CTARA IIT Bombay**. In the academic year 2017-18 capacitors were installed on 78 agricultural pumps on 11KV Nehrunagar Agricultural feeder. In the academic year 2018-19 technical analysis of capacitor installation is carried out. Status and health of capacitor is recorded. Attitude of farmers regarding capacitor is monitored.

Coordinators for the project: Prof. Irfan I Mujawar and Prof. V.S.Shirwal

#### ii. Project title: Energy audit of Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur

Energy audit of Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur is conducted on 20<sup>th</sup> March 2019. Coordinators for the project: Prof. V.S.Shirwal and Prof. Irfan I Mujawar

#### b) Sponsored Project:

Sr. No.	Project Title	Project Guide	Name of Sponsoring Agency
1	Solar System for Petrol Pumps in India	Prof. V. B. Bhosale	Ganraj Petroleum Osmanabd
2	Energy Audit & Solar System Design for Textile Mil	Prof. Ms. S. S. Shaha	Bura Textile Industry Solapur
3	Performance Analysis of Capacitor Installation for Enhancing Energy Efficiency of Agriculture Feeder	Prof. I. I. Mujawar	CTARA IIT BOMBAY
4	Design of Rooftop Solar System for Pump Industry.	Prof. I. I. Mujawar	Bhushan Industry Solapur
5	Electrical Power Monitoring & Protection by Using Real Time System for 3 Phase.	Prof. D. D. Pawar	SPAN Electrical, Solapur

c) All S.E. & T.E students have undergone 15 days of Industrial Training during winter vacation at various Industries.

The prominent industries are as follows:

1. Indian Railway DRM section
2. Kirloskar Ferrous Industry, Solapur
3. MSETCL
4. MSEDCL
5. Payal Pumps, Solapur
6. Raj Electricals, Osmanabad
7. Sidhanath Sugar Mill

## 7. SHORT TERM COURSES/ CONFERENCE/ WORKSHOPS ATTENDED/ ORGANISED BY OUR FACULTY MEMBERS.

A) Following faculty members have attended One day workshop on "Course Management & Technology Based Learning" organized by N. K. ORCHID College of Engineering and Technology, Solapur on 2nd Feb 2019.



1. Prof. C. B. Bagal
2. Prof. V.Santoshkumar
3. Prof. I. I. Mujaawar
4. Prof. H. J. Mane
5. Prof. A. J. Mehta
6. Prof. S. S. Shaha
7. Prof. P S Patil
8. Prof. D. D. Pawar

B) Following faculty members have attended five Days workshop on 'IOT' from 10<sup>th</sup> to 15<sup>th</sup> Dec. 2018 at DBATU Lonere.

1. Prof. P S Patil
2. Prof. H J Mane

C) Prof. S. S. Shaha attended Three Day FDP on "Applications of ANSYS Maxwell, in Electromagnetic Engineering" conducted by ENTUPLE Technologies, Bangalore organized by Bharti Vidyapith COE, Pune from 4<sup>th</sup> – 6<sup>th</sup> Oct 2018.

D) Following Faculty members have attended five days workshop on "Product Design" at N. K. Orchid College of Engineering Solapur Organized by D.BATU, Lonere

1. Prof. V. B. Bhosale
2. Prof. D. D. Pawar
3. Prof. H. J. Mane

E) Prof. S. S. Shaha attended One Week FDP on "Outcome Based Education" Conducted by V.V.P. Institute of Engineering & Technology, Solapur in association with AICTE & ISTE, New Delhi from 24<sup>th</sup> to 28<sup>th</sup> Dec 2018.

F) Prof. S. S. Shaha attended One Week FDP on "Evaluating students performance & designing of question papers" Conducted by National Institute of Technical Teachers Training & Research Kolkata (NITTTRK) from 25<sup>th</sup> Feb to 1<sup>st</sup> March 2019.

G) Following Faculty members have attended One day Workshop on Moodle Learning Management System held on 15 March 2019 organized by IIT Bombay.

1. Prof. I. I. Mujaawar
2. Prof. S. S. Shaha

## 8. NPTEL COURSES:

Class	Name of the course	No. of Student registered
SE	MATLAB Programming for Numerical Computation	12
	Power System Engineering	09
	Electrical Machines II:	11

TE	Fundamentals of Power Electronics	37
	Programming In C++	8
	Problem solving through Programming In C	24

## 9. PMKVY COURSES CONDUCTED:

For the 10<sup>th</sup> & 12<sup>th</sup> drop out students and ITI passed students under different skill development program, Solar Panel Installation course was conducted by Prof. V. B. Bhosale. For this course total 24 students were participated and the course was designed for total 420 hrs.

## 10. CO-CURRICULAR COURSES FOR STUDENTS

The department conducted various Co- Curricular courses for our students as follows.

1.Prof. P S Patil organized three Days Workshop on Solar Energy for TE Electrical Students in collaboration with Orb Energy, Bengluru, 72 students were participated for the course which was conducted during 30<sup>th</sup> Aug. to 1<sup>st</sup> sept. 2018.

2.Prof. V B Bhosale organized three days workshop on AutoCAD for SE Electrical Students in collaboration with Sanjay Computers, Solapur from 20 to 22 Feb 2019. (82 students participated)

3.Prof. Nitin Gawali organized one Day Workshop on PLC & SCADA on 23/08/2018 for BE Electrical Students in collaboration with Sofcon India Pvt. Ltd, Pune (60 students participated).

## 11. CONTRIBUTION OF FACULTY MEMBERS IN VARIOUS DEPARTMENT & INSTITUTWS ACTIVITIES

Sr. No.	Name of faculty	Contribution
1.	Prof. V. Santoshkumar	Dept. timetable coordinator
		Department library coordinator
		POE coordinator
		Incubation coordinator
		Sports coordinator
		Class coordinator (SE)
3.	Prof. H. J. Mane	Class Coordinator (TE)
		Expert lecture
		Website coordinator
		Archive Coordinator
		Power Electronics & Drives Lab. In charge
4.	Prof. S. S. Shaha	Academic Monitoring Committee Member
		Dept. SUS exam coordinator
		Magazine Coordinator
		Newsletter coordinator
		Magazine (Art Section) Coordinator
		Analog & Digital Circuit Lab Incharge
		Cultural Committee Member



5.	Prof. V. B. Bhosale	Industry visit coordinator
		Industry connect coordinator
		Alumni Coordinator
		Industry-Institute Partnership / MoU coordinator
		T&P coordinator
		EDP Coordinator
		PMKY Solar Panel Installation
6.	Prof. Nitin U. Gawali	GATE coordinator
		BE project coordinator
		Control System Lab Incharge
		PLC & SCADA Lab Incharge
		e-Yantra Robotics Coordinator
7.	Prof. Prasad Patil	Proctor Faculty Coordinator
		Co-curricular course coordinator
		Self-learning module coordinator
		NPTEL Course Coordinator
		Computational Lab Incharge
		Bus coordinator (Institute level)
		Parent Teacher Coordinator (PTA)
8.	Prof. D. D. Pawar	Aptitude Test Coordinator
		Industrial training coordinator
		Class coordinator (BE)
		Magazine Coordinator (Technical Section )
9.	Prof. I. I. Mujawar	Orchitech coordinator
		Switchgear & Protection Lab Incharge

## 12. AWARDS WON BY STUDENTS IN VARIOUS COMPETITIONS

Sr. No.	Name of student	Class	Competition	Organized by	Prize
1	Shifa Anjum Dhumma N.	BE	Technical Quiz	NBNSCO E	1 <sup>st</sup>
2	Swati Rathod	BE	Poster Presentation	NBNSCO E	1 <sup>st</sup>
3	Futane P. Gaddam S.	TE	Electrospark	NKOCET	1 <sup>st</sup>
4	Kulkarni H. Lawate V. Waghmare Shendage A.	BE	Modex	NKOCET	1 <sup>st</sup>
5	Shifa Anjum Nikita Dhumma	BE	Circuit Mania	NKOCET	1 <sup>st</sup>
6	Swati Rathod Vishal Sathe	BE	Technical Quiz	NBNSCO E	2 <sup>nd</sup>
7	Badavane V. Swati Rathod	BE	Circuit Mania	NKOCET	2 <sup>nd</sup>
8	Ajay Pawar Suhel Shaikh	TE	Electrospark	NKOCET	2 <sup>nd</sup>
9	Hirwe P. Manisha Tati Swati Gawali Sagar Kare	BE	Modex	NKOCET	3 <sup>rd</sup>
10	Nikita Burla Dhulam P.	SE	Circuit Mania	NKOCET	3 <sup>rd</sup>
11	Rathod S. Dhumma N.	BE	Electrospark	NKOCET	3 <sup>rd</sup>

## 13. AMBITIOUS CANAL OF ELECTRICAL ENGINEERING (ACEE) ACTIVITIES:

### a) ACEE Committee:

Following students were elected as office bearers of Ambitious Canal of Electrical Engineering Students Association (ACEE) for the academic year 2018-19.

Sr. No.	Post	Name of Student
1.	President	Ms. Barkade Aishwarya (BE)
2.	Vice-President	Mr. Utge Vikas Prakash (TE)
3.	Secretary	Ms. Naiknaware Pradnya (TE)
4.	Treasurer (Head)	Mr. Pawar Ajay Prasad (TE)
5.	Cultural (Head)	Ms. Kulkarni Shruti P. (TE)
6.	Discipline (Head)	Mr. Soma Hrushikesh (TE)
7.	Sports (Head)	Mr. Bhore Akshay (TE)
8.	Technical (Head)	Mr. Mhetraskar Kunal A. (TE)
9.	Food (Head)	Ms. Dasari Sukanya Anil (TE)
10.	Decoration (Head)	Ms. Smita Mhamane (TE)
11.	Anchoring (Head)	Ms. Shobha Gaddam (TE)
12.	Photos & Gallery	Mr. Lohar Prashant V. (TE)

### b) Events Organized By ACEE Committee in A.Y. 2018-19.

Events	Activity
<b>Guru Poornima</b>	Student Speeches
<b>Fresher's Party</b>	Welcome of 2nd Year Students
<b>Teachers Day (5<sup>th</sup> Sept 2018)</b>	Felicitation of Teachers, Drama On importance of Teacher
<b>Engineer's Day (15<sup>th</sup> Sept 2018)</b>	Technical Events- <ul style="list-style-type: none"> <li>• Poster Presentation</li> <li>• Treasure Hunt</li> <li>• Quiz Competition</li> </ul>
<b>Guest Lectures (8<sup>th</sup> Sept 2018)</b>	Motivational Guest Lectures
<b>Mahatma Gandhi Jayanti (3<sup>rd</sup> Oct 18)</b>	Introduced life and efforts taken by Mahatma Gandhi for freedom of Nation by performing Drama , Speeches and shown documetry.
<b>Marathi Bhasha Pandharwada (5<sup>th</sup> Jan19)</b>	Speeches and Poster Presentation
<b>Technovation 2k19 (9<sup>th</sup> March 2019)</b>	Technical Event for Diploma Students & Non-Technical Events for 11 <sup>th</sup> & 12 <sup>th</sup> Students
<b>Cultural Programs (25-26 Feb 2019)</b>	Blue Day Mismatch Day Bollywood Day
<b>Inter-Department Sports (27-28 Feb 2019)</b>	Cricket and Volleyball Matches



**c) Expert Lecture Arranged by ACEE for Benefit of Students**

Class	Topic	Resource Person
S.E.	Stress Management	Smt. Alka Kakade Psychological Counsellor on 26 <sup>th</sup> sept 2018
B.E.	Vector control of Induction Motor	Prof. Jayant Manae from Finolex Academy and Management, Ratnagiri.on 6 <sup>th</sup> Oct 2018
B.E	Career Opportunity in Electrical Domain	Mr. Aditya Gawali Site Incharge, JDK Enterprises, Solapur & Mr. Vivekananda Boda Electrical Engineer, Onkar Automation, Soalpur. on 13 <sup>th</sup> March 2019
S.E.	Three Phase Transformers	Mr. Juber Shaikh (Asst. Er, MSEDCL, Solapur) on 30 <sup>th</sup> Jan 2019
S.E., T.E. & B.E.	Career Opportunity after Undergraduate	Prof. K B Kulkarni Asst. Professor, GP Solapur on 5 <sup>th</sup> Sept 2018
S.E., T.E. & B.E.	How to prepare for Maharashtra Engineering Services	Mr. Amol Doiphode from ACE Engineering Academy, Pune on 22 <sup>nd</sup> April 2019

**14. EDUCATIONAL TRIPS AND VISITS**

To understand the practical aspects students have visited various industries. The details of Industrial visit are as follows.

In this academic year industrial visit for BE Electrical was organized at MSEDCL Solapur Circle office, (SCADA Centre) on 14<sup>th</sup> September 2018. Following faculty members were present during the visit.

- 1.Prof. N. U. Gawali
- 2.Prof. P. S. Patil
- 3.Prof. D. D. Pawar

**15. STUDENT DEVELOPMENT**

**1. Orientation Sessions:** In the beginning of every semester Orientation Sessions were conducted by Electrical HOD, Training and Placement coordinator, Class Coordinators, GATE Coordinator, Project Coordinator and respective subject Teachers.

**2. Personal Counseling:** Smt. Alka kakade conducted psychological aptitude test for the students of SE to BE students and personal counseling was done to help the student to improve their academics and to resolve their personal problems.

**3. Motivational lectures:**

Prof. I.I. Mujawar conducted a motivation lectures on the topic “Excel the Excellence” for the second and third year students.

**4. Parents meet:**

The department organized a parent meet to introduce engineering subject, study methods, semester Pattern, placement and academic best practices.

**5. Proctor system:**

A group of 20 students were assigned to each faculty member and they worked as their local guardian, mentor and guide to cope up with academic and personal problems.

**6. Library Facility:**

Library hours are added in the time table. The faculty member allotted for the library hour was present as per the schedule to help them in their studies.

**16. SOCIAL ACTIVITIES OF STUDENTS**

1. Electrical Engineering students have donated blood in the blood donation camp organized by the institute in association with NSS on 19<sup>th</sup> March 2019.
2. Electrical Engineering Students Participated in Special Camp Under NSS at Bibi-Darfal, Conducting Survey of Education, Health Check- up, Aadhar Enrollment and Gram Swachhata Abhiyan From 27<sup>th</sup> Jan to 2<sup>nd</sup> Feb 2019.

**(Prof. V. S. Shirwal)**  
**Head**

**Department of Electrical Engineering**