Annual Report of Electrical Engineering Department for the Academic Year 2017-18

It gives me immense pleasure to put before you the Annual Report which includes various activities performed and the achievements during the academic year 2017-18 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 in April/May 2017 examination are as follows:

• University Ranks (BE Electrical)

Ms. Kangale Shubhangi Shital	– I st Rank
Ms. Daruwale AAyesha Yakub	$-V^{th}$ Rank
Ms. Anvekar Nikita Narsinha	–VIII th Rank
Ms. Mali Laxmi Mallinath	- IX th Rank
Mr. Rampure Imran Mustaq	- X th Rank

• Rankers of the Class BE (Electrical)

Rank	Name of Student	Percentage
Ι	Ms. Kangale Shubhangi Shital	84.07%
II	Ms. Daruwale AAyesha Yakub	82.53 %
III	Ms. Anvekar Nikita Narsinha	81.80 %
IV	Ms. Mali Laxmi Mallinath	81.47 %
V	Mr.Rampure Imran Mustaq	80.53 %

TE (Electrical)

Rank	Name of Student	Percentage
Ι	Ms. Gavade Pratiksha Mahadev	78.00 %
II	Ms. Kharatmal Bhagyshri Manojkumar	77.25 %
III	Ms. Chigani Sushmita Shriniwas	76.38 %
IV	Ms. Basutkar Anjali Devidas	76.06 %
V	Mr. Khot Ramchandra Balu	74.00 %

SE (Electrical)

Rank	Name of Student	Percentage
Ι	Ms. Bagban Shifa Anjum.	86.00 %
II	Ms. Dhumma Nikita .	84.53 %
III	Ms. Awar Manisha .	83.33%
IV	Ms. Barkade Aishwarya .	83.27%
V	Mr. Datar Aditya	82.27%

• Class wise Results:

S.E. (Electrical) – 96.77 % T.E. (Electrical) – 88.89 %

B.E. (Electrical) -100 %

• Special Achievements

Mr. Darshan Mahindrakar. Qualified GATE-2018 by scoring 386 marks.

2) FACULTY ACHIEVEMENT

Prof. I .I. Mujawar registered for Ph.D in Electrical Engineering at Shivaji University, Kolhapur.

Prof. V. B. Bhosale is appointed as Master Trainer in Renewable Energy by MNRE & NISE. He passed the exam in May 2017 for master trainer and successfully selected among the 25 master trainer across India.

3) FACULTY PUBLICATIONS:

1) Prof. V. B. Bhosale published a paper on "Design & Implementation of Smart Solar Street Light" DOI.10.1109/IOCEI.2017.83800980 in IEEE 22nd Feb. 2018.

2) Prof. V. S. Shirwal presented a paper on "Efficient Implementation of BAMI method for MIMO-STBC Decoder" in 15-16 June 2017 in the International Conference on Intelligent Computing and Control Systems (ICICCS) and the paper is published in IEEE Digital Library.

4) FACULTY INTERACTION WITH OTHER INSTITUTES

Sr. No	Name of Faculty	Activity	Name of Institute	Class
1		Conducted Practicals on Microprocessor & Microcontroller	S.P. Polytechnic, Alani, Osmanabad	SY & TY
2	Prof. V. S. Shirwal	Conducted Practicals on Microprocessor & Microcontroller	V. J. Shinde Polytechnic, Osmanabad	SY & TY
3		Judge for 'Poster Presentation' event in Siddhtech-2017.	Shri Siddheshwar Women's Polytechnic, Solapur	TY

Sr. No	Name of Faculty	Activity	Name of Institute	Class	16		Conducted Practicals on	S. P. Polytechnic,	SY &		
		Conducted Guest Lecture	Shri Siddheshwar Women's	SY	10	-	Electrical Machines Conducted	Alani, Osmanabad	TY		
4		on 'Switchgear & Protection'	Polytechnic, Solapur	& TY	17		Practicals on Electrical Machines	V. J. Shinde Polytechnic, Osmanabad	SY & TY		
5		Conducted Practicals on 'Switchgear & Protection'	S. P. Polytechnic, Alani, Osmanabad	SY & TY	18	Prof. A.	Conducted Practicals on Electrical Machines	BIGCE Polytechnic, Solapur	SY & TY		
6	Prof. I. I. Mujawar	Conducted Practicals on 'Switchgear & Protection'	V. J. Shinde Polytechnic, Osmanabad	SY & TY	19	J. Mehta	Organized workshop on 'Solar Energy'	Diploma Electrical passed out Students in and around	Dipl o-ma		
7		Conducted Practicals on 'Switchgear & Protection'	BIGCE Polytechnic, Solapur	SY & TY	č			_	Conducted a	Solapur region. Polytechnics	
8		Judge for 'Project Exhibition'	Shri Siddheshwar Women's	ТҮ	20		technical event 'TECHNOVATI ON- 2K18'	(Electrical) students in and around Solapur	Dipl o-ma		
		Conducted	Polytechnic, Solapur Shri		21		Organized visit to 36KW Solar Power Generation	Government Polytechnic,	TY		
9		Guest Lecture on 'Electrical Measurements'	Siddheshwar Women's Polytechnic,	SY & TY			Station at NKOCET Solapur Conducted	Solapur Diploma			
10	Prof. V. Santoshk- umar	Conducted Practicals on 'Electrical Measurements'	Solapur S. P. Polytechnic, Alani, Osmanabad	SY & TY	22	Prof. V. B.	workshop on 'Solar Energy'	Electrical passed out Students in and around Solapur region.	ΤY		
11		Conducted Practicals on 'Electrical Measurements'	V. J. Shinde Polytechnic, Osmanabad	SY & TY	23	Bhosale	Coordinated visit to 36KW Solar Power Generation Station at NKOCET,	Government Polytechnic, Solapur	ТҮ		
12		Conducted Guest Lecture on 'Power Electronics'	Government Polytechnic, Solapur	TY	24		Solapur Conducted Practicals on 'Control Systems'	S. P. Polytechnic, Alani, Osmanabad	SY & TY		
13	Prof. H.	Conducted workshop on 'PCB Designing'	Government Polytechnic, Solapur	TY	25	Prof. N. U. Gawali	Conducted Practicals on 'Control Systems' Conducted	V. J. Shinde Polytechnic, Osmanabad SES	SY & TY		
14	J. Mane	Conducted Guest Lecture on 'Electrical	Government Polytechnic, Solapur	TY	26		Practicals on 'Control Systems'	Polytechnic, Solapur	SY & TY		
15		Machines' Conducted workshop on 'PCB Designing'	Government Polytechnic, Solapur	TY	27	Prof. S. S. Shaha	practical session on 'Analog & Digital Integrated Circuits	S. P. Polytechnic, Alani, Osmanabad	SY & TY		

Sr. No	Name of Faculty	Activity	Name of Institute	Class
28	Prof. S. S. Shaha	Conducted practical session on 'Analog & Digital Integrated Circuits'.	V. J. Shinde Polytechnic, Osmanabad	SY & TY
29	Prof. D. D. Pawar	Conducted Guest Lecture on 'Power Quality'	Government Polytechnic, Solapur	TY

5) INDUSTRY – INSTITUTE INTERACTION

 Seminar was conducted for TE (Electrical) students in order to make them aware about the PLC & SCADA in Industry Automation by Mr. Prabhakar G. Gawali of Prolific Systems and Technologies Pvt. Ltd. Pune on 28th Feb. 2018.

2) Seminar on "Power Profile of Agriculture Feeder" was conducted for BE & TE (Electrical) students by Mr. Aniket Dhamangaonkar Ph. D Student of IIT, Bombay.

3) All T.E (Electrical) students have undergone 15 days of Industrial Training during winter vacation at various Industries.

6) SHORT TERM COURSES/ CONFERENCES/ WORKSHOPS ATTENDED/ ORGANISED BY OUR FACULTY MEMBERS.

- i) Prof. I. I. Mujawar attended a Coordinator's Workshop for one week on Electric Power System organized and conducted by IIT Kharagpur from 1st May to 5th May 2017.
- ii) Following faculty members have attended Two week ISTE STTP on Electric Power System conducted by IIT Kharagpur organized by our institute from 10th July to 15th July 2017.

1) Prof. I. I. Mujawar

- 2) Prof. C. B. Bagal
- 3) Prof. V. Santoshkumar
- 4) Prof. H. J. Mane
- 5) Prof. S. S. Shaha
- 6) Prof. A. J. Mehta
- 7) Prof. N. U. Gawali
- 8) Prof. D. D. Pawar
- 9) Prof. P. S. Patil
- 10) Prof. V. B. Bhosale

- iii) Prof. P. S. Patil, Prof. D. D. Pawar and Prof. V.
 B. Bhosale attended a Foundation Program in ICT for education 'FDP101x' from 8th March to 12th April 2018 and 3rd May to 31st May 2018 conducted by IITB.
- iv) Prof. D. D. Pawar attended PMMMNMTT faculty induction training programme at IIT, Bombay for 21 days from 28th Nov. 2017 to 20 Dec. 2017.

7) CO-CURRICULAR COURSES FOR STUDENTS

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

1) Prof. P. S. Patil organized Six Days Workshop on Solar Energy for TE Electrical Students in collaboration with Orb Energy, Bangalore. 63 students participated during 10th to 15th July 2017.

2) Prof. V. B. Bhosale organized Six days workshop on Auto-CAD for BE Electrical Students in collaboration with Sanjay Computers, Solapur during 10th to 15th July 2017 in which 66 students participated.

3) Prof. Nitin Gawali organized Four Days Workshop on PLC & SCADA from 5th to 8th Feb 2018 for TE Electrical Students in collaboration with Prolific Solutions Pvt. Ltd, Pune in which 62 students participated.

4) Prof. P. S. Patil organized One Day Workshop on Arduino on 17th Feb 2018 for BE Electrical Students in which 66 students participated.

5) Prof. V. B. Bhosale conducted two days workshop on "Solar Energy" for SE (Electrical) and Diploma pass out students on 19th and 20th July 2017.

8) CONTRIBUTION OF FACULTY MEMBERS IN VARIOUS ACTIVITIES

Sr. No	Name of faculty	Contribution	
		Dept. timetable coordinator	
		Department library	
		coordinator	
		BE project coordinator	
		POE coordinator	
1.	Prof. V. Santoshkumar	Incubation coordinator	
		Magzine Kannada Section	
		Coordinator	
		Sports coordinator	
		NAAC Point Coordinator	

Sr. No	Name of faculty	Contribution
2.	Prof. A. J. Mehta	Student Association faculty coordinator Lab In-charge of Electrical Machine Lab I & II DSE Coordinator Dept. exam coordinator NAAC Point Coordinator
3.	Prof. H. J. Mane	Class Coordinator (SE) Expert lecture/VC coordinator ISO coordinator Website coordinator Archive coordinator Lab In-charge of Power Electronics & Drives Lab. NAAC Point Coordinator
4.	Prof. S. S. Shaha	Class Coordinator (TE) Academic Monitoring Committee member Magzine Dept. Coordinator Departmental Newsletter coordinator Lab In-charge of Analog & Digital Circuit Lab Cultural Committee member
5.	Prof. V. B. Bhosale	Industry visit coordinator Industry connect coordinator Industry Inst. Partnership/MoU coordinator T&P coordinator Magzine Dept. Technical Coordinator
6.	Prof. Nitin U. Gawali	Class Coordinator (BE) GATE coordinator & Dept. Career Counseling Coordinator R & D Coordinator (Funding) Newsletter coordinator Lab In-charge of Control System Lab Lab In-charge of PLC & SCADA Lab

6.e-Yantra Robotics Coordinator6.Prof. Nitin U. GawaliNIRF Ranking CoordinatorVideo Lecture CoordinatorAnti-Ragging MemberNAAC Point CoordinatorNAAC Point Coordinator7.Prof. Prasad PatilProctor Faculty Coordinator7.Prof. Prasad PatilSelf-learning module coordinator8.Prof. D. D. PawarAptitude Test Coordinator8.Prof. D. D. PawarAptitude Test Coordinator9.Prof. Irfan I. MujawarLab In-Charge of Switchgear & Protection Lab9.Prof. Irfan I. MujawarCoordinator		T	T
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			R & D Coordinator

9) TESTING AND CONSULTANCY ACTIVITY

A)Project title: Capacitor Installation and monitoring its performance on agricultural feeder

Electrical department has completed a project on "Capacitor Installation and monitoring its performance on agricultural feeder" in collaboration with IIT Bombay on 11KV Nehrunagar agricultural feeder Degaon, Solapur.

The objectives of this project are to study the technical performance of capacitor installation on agricultural pumps and to study the acceptance of farmers regarding capacitors.

Total consultancy amount = Rs. 54,300/-

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

10) AWARDS WON BY STUDENTS IN VARIOUS COMPETITIONS.

Sr. No.	Name of student & Class	Competiti on	Organized by	Priz e
1	Bhagyashri Mugali Aditi Kshirsagar Nikita Kaharatmal Ambadas Barenkal (B.E.)	Project Exhibition	NKOCET	1 st
2	Laxman Rathod Akshay Burgute (B.E.)	GK/Tech Quiz	NKOCET	1 st
3	Akshay Burgute Ganesh Jagadale (B.E.)	Modex	NKOCET	2 nd
4	Darshan Mahindrakar (B.E.)	Techno Puzz	NKOCET	1 st
5	Darshan Mahindrakar Ambadas Barenkal (B.E.)	Circuit Debuggin g	Sinhgad College	Ru nn- er Up
6	Darshan Mahindrakar Amar Mittha Akshay Pardhe Shaikh Arsalan (B.E.)	Project Exhibition	NKOCET	2 nd
7	Suhel Perampalli Suhel Tamboli (B.E.)	Modex	NKOCET	1 st
8	Ambadas Barenkal (B.E.)	Techno Puzz	NKOCET	2 nd
9	Swati S. Rathod Vishal A Sathe ShifaAnjum A. Bagban Ranjane Payal R (T.E.)	Energy Contragoti on	NBNSCOE	1 st
10	Swati S. Rathod Vishal A Sathe (T.E.)	Quiz comption	NBNSCOE	2 nd
11	Meghana Bura Rupali Gotipamul (T.E.)	Techo Puzz	NKOCET	3 rd
13	Preana A. Futane Shobha A. Gaddam Shruti P. Kulkarni Komal R. Kota (S.E.)	Project Exhibiti- on	SVERI, Pandharpur	1 st
12	Vishal A. Sathe Patwari Prathmesh Mhetre Nikhil V Aditya Datare Kare Sagar Shinde Akshay Maddi Shripad Awar Manisha Roja Puttha	National Solar Vehicle Champi- onship	Merchant University Mehesana Gujarat	8 th

Pooja Khartamal Vijaya Halole Mahesh Sutar Gaddam Yogeshwari Pardnya Naiknware Asha Khatke Bhagyashri Kharatmal (S.E., T.E. and B.E.)	National Solar Vehicle Champi- onship	Merchant University Mehesana Gujarat	8 th
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11) AMBITIOUS CANAL OF ELECTRICAL ENGINEERING (ACEE) ACTIVITIES:

ACEE Committee:

Following students were elected as office bearers of Ambitious Canal of Electrical Engineering Students Association (ACEE) for the academic year 2017-18.

Sr. No.	Committee Name	Name of Student
1.	President	Ms. Pooja Thombre
2.	Vice-President	Ms. Aishwarya Barkade
3.	Secretary	Mr. Nikhil Mhetre
4.	Treasurer (Head)	Mr. Vishal Sathe
5.	Cultural (Head)	Ms. Roja Puttha
6.	Discipline (Head)	Mr. Aditya Datar
7.	Sports (Head)	Ms. Pooja Kharatmal
8.	Technical (Head)	Ms. Shifa Bagban
9.	Food (Head)	Ms. Manisha Tati
10.	Decoration (Head)	Ms. Yogeshwari Gaddam
11.	Anchoring (Head)	Ms. Swati Rathod
12.	Photos & Gallery	Mr. Prathamesh Patwari

12) Expert Lecture Arranged by ACEE for Benefit of Students

Class	Торіс	Resource Person
S.E.	Stress Management	Smt. Alka Kakade Psychological Councellor (26 th Sept. 2017)
B.E.	Vector control of Induction Motor	Prof. Jayant Manae from Finolex Academy and Management, Ratnagiri. (26 th Sept. 2017).

Class	Торіс	Resource Person	
T.E. & B.E	Solar Energy Technology	Mr. P. Chandrashekhar from Tech Design Group, Hyderabad. (19 th Jan. 2018)	
S.E.	Application of Power Transformer in Industry	Mr. Anant. L. Deshmukh (Ret. Chief General Manager) (15 th Feb.2018)	
T.E.	Transformer and Industrial Motors	Mr. Bharam (Thermax Ltd., Solapur) (25 th Feb. 2018)	
S.E.	Electrical Machines & Its Applications	Mr. Juber Shaikh (Asst. Er) (26 th March 2018)	
T.E. & B.E.	Career Opportunity after Undergraduate and Research Paper Publications	Prof. C. L. Bhattar from RIT, Sakharale. (28 th March 2018)	

13) EDUCATIONAL TRIPS AND VISITS

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

Class	Educational Trip/Visit to	Accompanied by
BE	Automation and Robotics Expo 2017, Auto cluster Pimpri, Pune on 23/09/2017	Prof. N. U. Gawali
TE	Lakshmi Hydraulic Pumps, Solapur on 03/03/2018	Prof. C. B. Bagal
SE	132/110/33/11KV Degaon Substation Solapur on 15/03/2018.	Prof. Irfan I. Mujawar & Prof. S. S. Shaha.
SE	Thermal power plant at Parali on 05/10/2017 & 6/10/2017.	Prof. P. S. Patil, Prof. H. J. Mane, Prof. D.D. Pawar, Prof. R. U. Shinde & Prof. A. J. Mehta
TE	Swami Samarath Transformer, MIDC Chicncholi, Solapur on 03/03/2018	Prof. C. B. Bagal

14) SOCIAL ACTIVITIES OF STUDENTS

- Electrical Engineering students have donated 50 bottles of blood in the blood donation camp organized by the institute in association with NSS on 15th Sept 2017 and 20th March 2018.
- 2. B.E. Electrical students participated in Krishimahotsav 2018 held at Solapur with the project "Voltage profile and Power Factor Improvement on Agricultural Feeder by Capacitor Bank Installation at Agricultural Pumps". They received very good response from the visitors.
- 3. To clear the understanding of Fundamentals of Magnetism and Electromagnetism; electrical engineering department has designed many experiments and demonstrated to the Tenth standard students of Little Flower Convent High school Solapur on 23rd & 24th August 2017. BE Electrical and E&TC students have conducted these experiments and shared their knowledge. Students were very happy to see their theoretical concepts implemented in real sense in different applications. Dr. S. S. Metan and Prof. Irfan I. Mujawar have initiated this activity and worked for smooth conduction of this social responsibility.

15) INTERNATIONAL TIE-UPS:

NKOCET has International Tie-Up with Tyresjo Gymmasiate, Sweden for the Exchange Program of Student and Faculty members under "ATLAS" Program. Under this program eight students and two faculty members from Sweden visited to NKOCET, Solapur to study and design the products on renewable energy between 14th Jan. to 30th Jan. 2018. Four Students and one faculty from our department visited Tyresjo Sweden to study the renewable energy scenario in Sweden from 7th to 23rd April 2018. This exchange program is not only for technical activity but also to study the education system and culture in the two countries.

16) SOLAR CAR COMPETITION:

Team: Rising Rangers 2.0

Competition: National Solar Vehicle Challenge 2018.

Venue: Merchant University, Mehesana Gujarat.

Participant: Total 16 students from SE, TE and BE.

Rank: All India Rank 8th, Team Spirit – 1st

Solar Vehicle design competition included panel calculation, mounting on three tyre vehicle & making it run for acceleration, Breaking test, Mud test, Battery Loading/ Endurance, Solar Endurance.

> (Prof. V. S. Shirwal) Head Department of Electrical Engineering