



Mahatma Education Society's

Pillai College of Engineering

Dr. K. M. Vasudevan Pillai Campus, Sector16,

New Panvel, Navi Mumbai (M.S.) 410206

INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF THE DEPARTMENT (2018-2019)

(Provide information for last A.Y. 2018-2019)

1. Name of the Department: Electronics Department
2. Year of establishment: 2000-2001
3. Programmes offered: UG, PG.
4. Details of certificate/diploma program introduced in the last academic year:

SN	Program code	Program name	Name of the certificate/diploma introduced in last 5 years	Year of introduction	Link the relevant document
1	ETRX	Electronics Engineering	College to Corporate Program on English for communication	2018-19	View Details
2	ETRX	Electronics Engineering	College to Corporate Program on Handling large projects	2018-19	View Details
3	ETRX	Electronics Engineering	College to Corporate Program on Financial Literacy	2018-19	View Details
4	ETRX	Electronics Engineering	College to Corporate Program on Soft Skills	2017-18	View Details
5	ETRX	Electronics Engineering	College to Corporate Program on Workplace Communication	2017-18	View Details

5. Details of participation of full time teachers in various bodies of the Universities/ Autonomous Colleges/ Other Colleges, such as BoS and Academic Council:

Year	Name of Teacher	Name of the body in which full time teacher participated	RELEVANT LINK
1	RAJENDRAKUMAR KHADE	Member, Question Paper Setting Committee, University of Mumbai	
2	MONIKA BHAGWAT	Member, Question Paper Setting Committee, University of Mumbai	
3	RAVI BIRADAR	Member, Question Paper Setting Committee, University of Mumbai	
4	UJWAL HARODE	Member, Question Paper Setting Committee, University of Mumbai	
5	SANJEEVKUMAR SRIVASTAVA	Member, Question Paper Setting Committee, University of Mumbai	
		Member, Mumbai University Examination Vigilance Squad	
6	SUMAN WADKAR	Member, Question Paper Setting Committee, University of Mumbai	
7	SNEHA CHIKODI	Member, Question Paper Setting Committee, University of Mumbai	
8	DEEPTI NAIR	Member, Question Paper Setting Committee, University of Mumbai	
9	AJIT SARAF	Member, Question Paper Setting Committee, University of Mumbai	
10	RUBINA SHAIKH	Member, Question Paper Setting Committee, University of Mumbai	

6. Details of new Courses introduced of the total number of courses across all Programmes offered by the department :

Name of the new course introduced in last A.Y.	Program name	Program code	Course code	Year of introduction	Link the relevant document
Design with Linear Integrated Circuits	Undergraduate Electronics Engineering		ELX 504	2018-19	<u>ETRX revised syllabus 2017-18</u>
Business Communication and Ethics	Undergraduate Electronics Engineering		ELX 505	2018-19	
Microcontroller And Applications Lab	Undergraduate Electronics Engineering		ELXL501	2018-19	
Digital Communication Laboratory	Undergraduate Electronics Engineering		ELXL502	2018-19	
Design with Linear Integrated Circuits Lab	Undergraduate Electronics Engineering		ELXL503	2018-19	
Database and Management System	Undergraduate Electronics Engineering		ELXDLO5011	2018-19	
Digital Control system	Undergraduate Electronics Engineering		ELXDLO5012	2018-19	
ASIC Verification	Undergraduate Electronics Engineering		ELXDLO5013	2018-19	
Biomedical Instrumentation	Undergraduate Electronics Engineering		ELXDLO5014	2018-19	
Embedded System & RTOs	Undergraduate Electronics Engineering		ELX601	2018-19	
Computer Communication Network	Undergraduate Electronics Engineering		ELX602	2018-19	
VLSI Design	Undergraduate Electronics Engineering		ELX603	2018-19	
Embedded System &	Undergraduate		ELXL601	2018-19	

RTOs Lab	Electronics Engineering				
Computer Communication Network Lab	Undergraduate Electronics Engineering		ELXL602	2018-19	
VLSI Design Laboratory	Undergraduate Electronics Engineering		ELXL603	2018-19	
Microwave Engineering	Undergraduate Electronics Engineering		ELXDL06021	2018-19	
Electronic product Design	Undergraduate Electronics Engineering		ELXDL06022	2018-19	
Wireless Communication	Undergraduate Electronics Engineering		ELXDL06023	2018-19	
Computer Organization and Architecture	Undergraduate Electronics Engineering		ELXDL06024	2018-19	

7. Details of the programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented:

Name of all programs	Whether adopting CBCS course system(yes/no)	Whether adopting elective course system(yes/no)	Program Code	Year of implementation of CBCS/ elective course system	Link the relevant document
ETRX	Yes	NA	SE ETRX	2016-17	ETRX revised syllabus 2017-18
	Yes	YES	TE ETRX	2017-18	
	Yes	YES	BE ETRX	2018-19	

8. Details of students enrolled in subject related Certificate/ Diploma programs/ Add-on programs :

Year	Programme Name/Title	Certificate/ Diploma/	In Collaboration With	Resource Person	Duration	No. of Participants	Name of the Speaker/ Expert	Supporting Documents/Proof
2018-19	Networking and its Fundamentals	Certificate	-	Harsha Sharma	17-21 Dec 2018	22	Harsha Sharma	View Details
2018-19	Workshop on Web Designing	Certificate	IEEE	Prof. Padmja Bangde	1st September 2018	23	Chaitanya pawar	View Details
2018-19	Workshop on LABVIEW	Certificate	IEEE	Prof. Padmja Bangde	4th August 2018	32	Prof. Shridhar Deshmukh & Prof. Ameya Nijasure	View Link
2018-19	Workshop on DBMS-SQL	Certificate	IEEE	Prof. Padmja Bangde	2nd February 2019	28	Prof. Smita Joshi	View Details
2018-19	Workshop on Advanced Web Development	Certificate	IEEE	Prof. Padmja Bangde	2nd March 2019	28	Mr. Akhil Menon	View Link
2018-19	Workshop on Python	Certificate	IEEE	Prof. Padmja Bangde	9th March 2019	43	Prof. Dheeraj Amin	View Details
2018-19	Workshop on Machine Learning	Certificate	ETSA	Prof . Apeksha Chavan	28th july 2018	45	Dr. Sanjay Shitole	View Details
2018-19	Workshop on Arduino - I	Certificate	ETSA	Prof . Apeksha Chavan	25th August,2018	82	Prof. Ruchira Patole	View Link
2018-19	IOT Workshop	Certificate	ETSA	Prof . Apeksha Chavan	22nd Feb 19	51	Prof. Ruchira Patole	View Link
2018-19	NPTEL	Certificate	IIT		Jul-Oct 2018	2	Speakers from IIT	View Details NPTEL

9. Details of value added courses imparting transferable and life skills :

SN	Name of the value added courses (with 30 or more contact hours) offered during last five years	Course Code	Year of offering	Year of discontinuation	Number of students enrolled in the year	Number of students completing the course in the year
1	Networking and its Fundamentals	NIF01	2018-19	NIL	07	07
2	Networking and its Fundamentals	NIF01	2018-19	NIL	22	22
3	C2C-English for oral communication	C2C	2018-19	NIL	17	17
4	C2C-Financial Literacy	C2C	2018-19	NIL	17	17
5	C2C-Handling large projects	C2C	2018-19	NIL	17	17

10. Details of the students undertaking field projects/ internships:

Program name	Program code	No of students undertaking field projects / internships	Link the relevant document
NIL			

11. Analysis with action taken report of feedback received from different stakeholders i.e. students, Alumni, Employer and teachers.

SN	Stakeholder	Department	Feedback Received	Action Taken	Link for Document
1	Student	Electronics	Need more practice session for Bessel Functions	Conducted 2 hours batchwise tutorial per week to give students practice of Bessel Functions	https://drive.google.com/open?id=1mUDcLnvzi8quJKlrwWHK8AHGJUvQUoFI
2	Student	Electronics	Require more emphasis on practical applications of operational amplifier IC and other integrated circuit to clear this concept.	Project Based learning was given to emphasis on basic concepts of Operational amplifier	https://drive.google.com/open?id=1_xc3-9NFIIvy7_i68Nd8FUsuUB5vxfwH
3	Student	Electronics	Require more emphasis on information	Conducted additional mock presentation session in the tutorial	https://drive.google.com/open?id=1zwQyAjkSkKBss

			preparation and presentation.	hour.	82BVKtfIrfApE3u00N
4	Alumni	Electronics	Preparing Students for Entrance Exams	Gate training Session is conducted for final year ETRX students	https://drive.google.com/open?id=1zJAISvv4R_ehcsyKVRq1vExgGvD6BIom
5	Alumni	Electronics	Seminar or workshop on Machine Learning should be conducted	Workshop on Machine Learning was organized by ETSA on 28th July 2018 and the speaker was Dr. Sanjay Shitole	https://drive.google.com/open?id=1Um80FOXcWxL047Ue4LSibH_uM_x1YEeW
6	Teachers	Electronics	IV must be Conducted for the students to get real time knowledge of power circuits	IV to Kurla carshed was organised for TE ETRX students	
7	Teachers	Electronics	Matlab, Simulink must be used to simulate power electronic circuit	workshop on Matlab was conducted by Dinesh Tiwari on 15, 16 march 2018	https://drive.google.com/open?id=1CSWplgnMTEi6rOLB93XYbH96dKp7oIye
8	Teachers	Electronics	No. of lectures per week should be more	In next academic year, Conducted 1 hour extra lecture per week to clear the concept of signal processing (total lecture=4+1 =5 week).	https://drive.google.com/open?id=18e3fd8RGTgvtYND4HgvtKTLy0yZS3B-Y
9	Employer	Electronics	students should be trained to adapt new technologies	workshops on IOT, machine learning,python conducted	
10	Employer	Electronics	Students should be ready with management skills to work on project,team building ,using resources at industry and corporate world	Institute level elective courses are included in sem viii revised 2016 syllabus as i) Project Management ii) Finance Management iii)Human Resource Management	

12. Number of students from other States and Countries admitted in the department:

Year of enrolment	Number of students enrolled from other states	Number of students enrolled from other countries	Link of the relevant document
2018-19	03UG 01PG	--	ETRX OMS 18-19

13. Total number of students admitted in the department:

Year	Program name	Program Code	Total Number of Seats Sanctioned	Total Number of students admitted
FE	ELECTRONICS	EX	120	37
SE		EX	144	72
TE		EX	144	60
BE		EX	144	77

14. Number of seats filled against seats reserved for various categories(including Divyangjan) in the department:

29 % of total sanctioned seats	Year	Number of seats earmarked for reserved category as per GOI or State Government rule			Number of students admitted from the reserved category				
		SC	ST	OBC	SC	ST	OBC	Gen	Others
35	18-19	5	2	7	4	0	2	19	4

Name of the student enrolled under Differently abled Category	Gender	UDID Card Number	Type of Disability	Percentage of Disability	Program enrolled	Year of Enrolment
NO STUDENTS						

15. Special programmes conducted by the department for advanced learners and slow learners:

Provide the list along with the proofs for the activities undertaken by the department for advanced and slow learners.

PCE has well defined policies and procedures to allow for the identification of different types of learners. Faculty at PCE are trained to identify and support students with varying learning capabilities.

At the First year level, students are identified into different academic categories based on their performance in the first internal assessment test. The weaker students thus identified are given more attention and it is ensured that they are taught to do well enough to perform at least to a level of passing in the university examinations.

Course-in-charge and class counsellors during the teaching learning process identify the slow learners and advanced learners by observing their performance in different activities as well the results of various assessment processes during the semester.

Mentor Mentee scheme, wherein a small group of students is allotted to one faculty mentor, helps to monitor the progress and difficulties faced by the students.

Periodic Parent Teacher meetings are organized where faculty members, and mentors interact with the parents of all learners and update them about the performance of their ward. It helps to enhance the performance of slow learners and groom advanced learners.

Remedial classes are organized for the students who are not good performers. Additional support is offered through examination oriented coaching and well formulated question banks as well as notes prepared by faculty.

When the divisions are formed, the batch of students with least scores are identified and scrupulous plan to ensure more practice among these students during the practical sessions is also made. Senior teachers are usually allotted to such batches to ensure good performance.

Study camp sessions are conducted to ensure that the weakest of the students are made to practice a certain minimum number of problems/topics from curriculum to ensure their success in examinations and thus improve their chances of placement in the higher semesters.

Special counseling and extra classes are conducted for the students who have failed in any subject. Extra lab sessions, additional tutorial hours, links to e-books and subject related video lectures are some of the other initiatives for slow learners.

Extra time for slow learners with dyslexia is given during the university examinations.

Students having good academic records are encouraged to achieve higher ranks in university exams, and to take exams like GATE, GRE, TOEFL, IELTS, CAT etc. Teachers conduct extra sessions for students to prepare them for GATE examination.

Students having orientation towards research are motivated to present their work at conferences and competitions such as Aviskar, and this has helped us in winning awards at the university and also the state level.

These students are also encouraged to become part of the student council and form other student groups. Student activity fund has also been initiated to ensure that students have funds to travel to different parts of the country to participate in various competitions. Due to our efforts, multiple student teams have won 1st place in the AICTE hackathon in 2019 and well as in 2018.

16. Student- Full time teacher ratio:

Year	Number of students enrolled in the department(UG)	Number of students enrolled in the department (PG)	Number of full time teachers in the department (UG)	Number of full time teachers in the department (PG)	Number of teachers teaching both UG and PG courses	STR
2018-19	248	06	19	04	05	11.04

17. Number of teaching posts sanctioned, filled and vacant.

Designation	Sanctioned	Filled
Professor	2	3
Associate Professor	5	5
Assistant Professor	14	15
Total	21	23

18. Number of full time teachers with Ph.D. degree:

Year	Total No. Full time teachers	No. of teachers with PhD
2018-19	23	4

19. Details of full time teachers who received awards, recognition, fellowship at State, National, International level from government, recognized bodies:

Year	No. Of Full time Teachers	No. of teachers received awards/recognition/fellowship at State/National/International level	Relevant link
2018-19	23	11	<u>ETRX AWARDS</u>

20. Number of full time teachers from other States against sanctioned posts:

Year	No. Of Full time Teachers	No. of teachers from other states
2018-19	23	07

21. Details of examination related grievances received if any.

No grievances have been reported

22. Adherence to the academic calendar:

PILLAI COLLEGE OF ENGINEERING, NEW PANVEL TENTATIVE TERM CALENDAR JUL-DEC 2018 FOR SE, TE & BE

JUL			AUG			SEPT			OCT			NOV			DEC		
SU	1		WE	1	19	SA	1	PTM-1	MO	1	54	TH	1		SA	1	
MO	2		TH	2	20	SU	2		TU	2	55	FR	2		FR	2	
TU	3		FR	3	21	MO	3	40	WE	3	56	SA	3	ORAL/PRACT END	MO	3	
WE	4		SA	4	22	TU	4	41	TH	4	57	SU	4	GURU NANAK JAYANTI	TU	4	
TH	5		SU	5		WE	5	42	FR	5	58	MO	5		WE	5	
FR	6	STAFF RETURN	MO	6	23	TH	6	43	SA	6	59	TU	6		TH	6	
SA	7		TH	7	24	FR	7	44	SU	7		WE	7		FR	7	
SU	8		WE	8	25	SA	8		MO	8	60	TH	8		SA	8	
MO	9	CLASSES BEGIN	TH	9	DEFaulter ALERT-I	SU	9		TU	9	DEFaulter ALERT-I	FR	9		SU	9	
TU	10	2	FR	10	27	MO	10	DEFaulter ALERT-II	WE	10	61	SA	10		MO	10	
WE	11	3	SA	11	FACULTY SEMINAR SERIES	TU	11	46	TH	11	62	SU	11		TU	11	
TH	12	4	SU	12		WE	12	47	FR	12	63	MO	12	THEORY EXAM STARTS	WE	12	
FRI	13	5	MO	13	INTERNAL ASSESSMENT TEST I	TH	13		SA	13	64	TU	13		TH	13	
SA	14		TU	14	INDEPENDENCE DAY	FR	14		SU	14		WE	14		FR	14	
SU	15		WE	15	INTERNAL ASSESSMENT TEST I	SA	15	GANAPATI FESTIVAL MID TERM BREAK	MO	15		TH	15		SA	15	THEORY EXAM ENDS
MO	16	6	TH	16	PARSI NEW YEAR GO FOR 11 AUGUST	SU	16		TU	16	INTENSIVE STUDY, PRELIMS, MAKE-UP CLASSES, SUBMISSIONS	FR	16		SU	16	
TU	17	7	FRI	17		MO	17		WE	17		SA	17		MO	17	
WE	18	8	SA	18		TU	18	INTERNAL ASSESSMENT TEST II	TH	18		SU	18		TU	18	
TH	19	9	SU	19		WE	19		FR	19		MO	19		WE	19	
FR	20	10	MO	20	29	TH	20	MOHORAM TAJIYA	SA	20	CLASSES END 65 FACULTY SEMINAR SERIES	TU	20	EID-E-MILAD	TH	20	
SA	21	FACULTY MEETING FACULTY SEMINAR SERIES	TU	21	30	FRI	21	INTERNAL ASSESSMENT TEST II	SU	21		WE	21		FR	21	
SU	22		WE	22	31	SA	22		MO	22	VIVA/PRACT BEGIN	TH	22		SA	22	
MO	23	12	TH	23	32	SU	23		TU	23		FR	23	GURU NANAK JAYANTI	MO	23	
TU	24	13	FR	24	33	MO	24	48	WE	24		SA	24		MO	24	
WE	25	14	SA	25		TU	25	49	TH	25		SU	25		TU	25	CHRISTMAS
TH	26	15	SU	26		WE	26	50	FR	26		MO	26		WE	26	
FR	27	16	MO	27	34	TH	27	51	SA	27		TU	27		TH	27	
SA	28		TU	28	35	FR	28	52	SU	28		WE	28		FR	28	
SU	29		WE	29	36	SA	29	FACULTY SEMINAR SERIES	MO	29		TH	29		SA	29	
MO	30	17	TH	30	37	SU	30		TU	30		FR	30		SU	30	
TU	31	18	FR	31	38				WE	31		SA	31		MO	31	

INDICATES TENTATIVE SCHEDULE, COULD UNDERGO CHANGES AS PER EXIGENCIES

- NOTES:
- STAFF TO REJOIN FOR EVEN SEMESTER ON 02 JANUARY, 2019
 - INSTRUCTION FOR EVEN SEMESTER TO START FROM 07 JANUARY, 2019

PRINCIPAL
PCE, NEW PANVEL

PILLAI COLLEGE OF ENGINEERING, NEW PANVEL TENTATIVE TERM CALENDAR JAN-JUNE 2019 (FOR FE, SE, TE & BE)

JAN			FEB			MARCH			APR			MAY			JUNE		
TU	1		FR	1	18	FR	1	31	MO	1	48	WE	1	MAHARASHTRA DAY	SA	1	
WE	2	STAFF RETURN	SA	2	19	SU	2		TU	2	49	TH	2	VIVA/PRACT END	SU	2	
TH	3		SU	3		MO	3		WE	3	50	FR	3		MO	3	
FR	4	FACULTY MEETING	MO	4	20	TH	4	MAHASHIVRATRI	TH	4	51	SA	4		TU	4	
SA	5		TU	5		TU	5		FR	5	52	SU	5		WE	5	RAMZAN EID
SU	6		WE	6		WE	6	33	SA	6	GUDHI PADWA	MO	6		TH	6	
MO	7	CLASSES BEGIN	TH	7	ALEGRIA 2019 THE FESTIVAL OF JOY	TH	7	34	SA	7		TU	7	THEORY EXAM STARTS	FR	7	
TU	8	CTFC 2019	FR	8		FR	8	DEFaulter ALERT-II	MO	8	FINAL DEFAULTERS LIST	WE	8		SA	8	
WE	9	NON INSTRUCTIONAL	SA	9		SA	9	IN LIEU OF 2/03/2019 PTM I	TU	9	54	TH	9		SU	9	
TH	10	2	SU	10		SU	10		WE	10		FR	10		MO	10	
FRI	11	MAKERS DAY	MO	11	21	MO	11	36	TH	11	INTENSIVE STUDY, MAKE-UP CLASSES	SA	11		TU	11	
SA	12	ALUMNI MEET 2019	TU	12	22	TU	12	37	FR	12		SU	12		WE	12	
SU	13		WE	13	23	WE	13	38	SA	13	SHRI RAM NAVAMI	MO	13		TH	13	
MO	14	4	TH	14	24	TH	14	39	SU	14	AMBEDKAR JAYANTI	TU	14		FRI	14	
TU	15	5	FR	15	25	FR	15	40	MO	15		WE	15		SA	15	
WE	16	6	SA	16	DEFaulter ALERT-I FACULTY SEMINAR SERIES	SA	16	FACULTY SEMINAR SERIES	TU	16	INTENSIVE STUDY, MAKE-UP CLASSES	TH	16		SU	16	
TH	17	7	SU	17		SU	17		WE	17	MAHAVIR JAYANTI	FR	17		MO	17	
FR	18	8	MO	18	INTERNAL ASSESSMENT TEST I	MO	18	41	TH	18	SUBMISSIONS	SA	18	BUDDH POURNIMA	TU	18	
SA	19	FACULTY SEMINAR SERIES	TU	19	SHIVAJI MAHARAJ JAYANTI	TU	19	42	FR	19	GOOD FRIDAY	SU	19		WE	19	
SU	20		WE	20	INTERNAL ASSESSMENT TEST I	WE	20	43	SA	20	SUBMISSIONS, FACULTY SEMINAR SERIES, CLASSES END	MO	20		TH	20	
MO	21	9	TH	21		TH	21	DHULIVANDAN	SU	21		TU	21		FR	21	
TU	22	10	FR	22	26	FR	22	44	MO	22	VIVA/PRACT BEGIN	WE	22		SA	22	
WE	23	11	SA	23		SA	23		TU	23		TH	23		SU	23	
TH	24	12	SU	24		SU	24		WE	24		FR	24		MO	24	
FRI	25	13	MO	25	27	MO	25	45	TH	25		SA	25		TU	25	
SA	26	REPUBLIC DAY	TU	26	28	TU	26	46	FR	26		SU	26		WE	26	
SU	27		WE	27	29	WE	27	47	SA	27		MO	27		TH	27	
MO	28	14	TH	28	30	TH	28		SU	28		TU	28		FR	28	
TU	29	15	FR	29		FR	29	INTERNAL ASSESSMENT TEST II	MO	29		WE	29		SA	29	
WE	30	16	SA	30		SA	30		TU	30		TH	30		SU	30	
TH	31	17				SU	31					FR	31		MO	31	

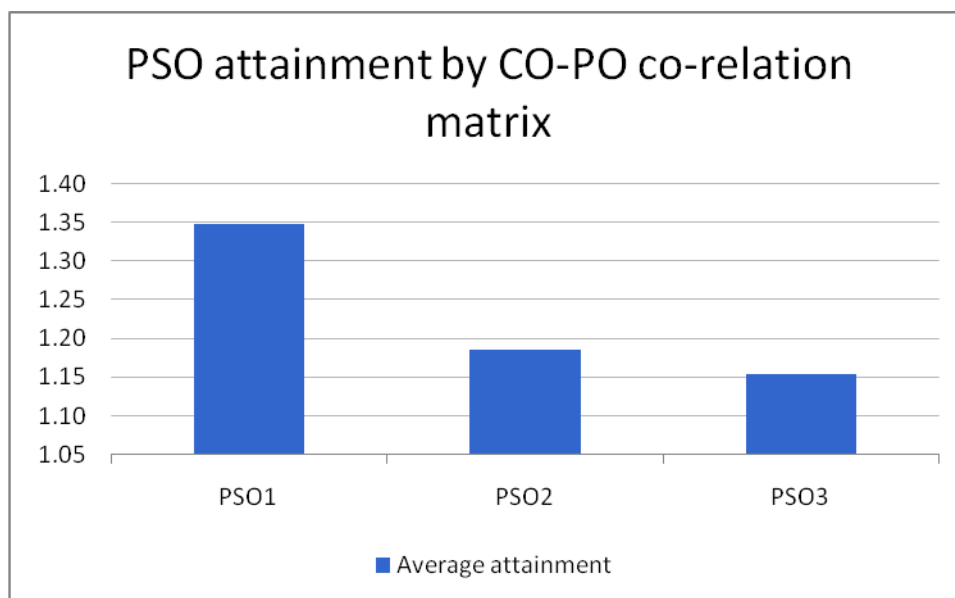
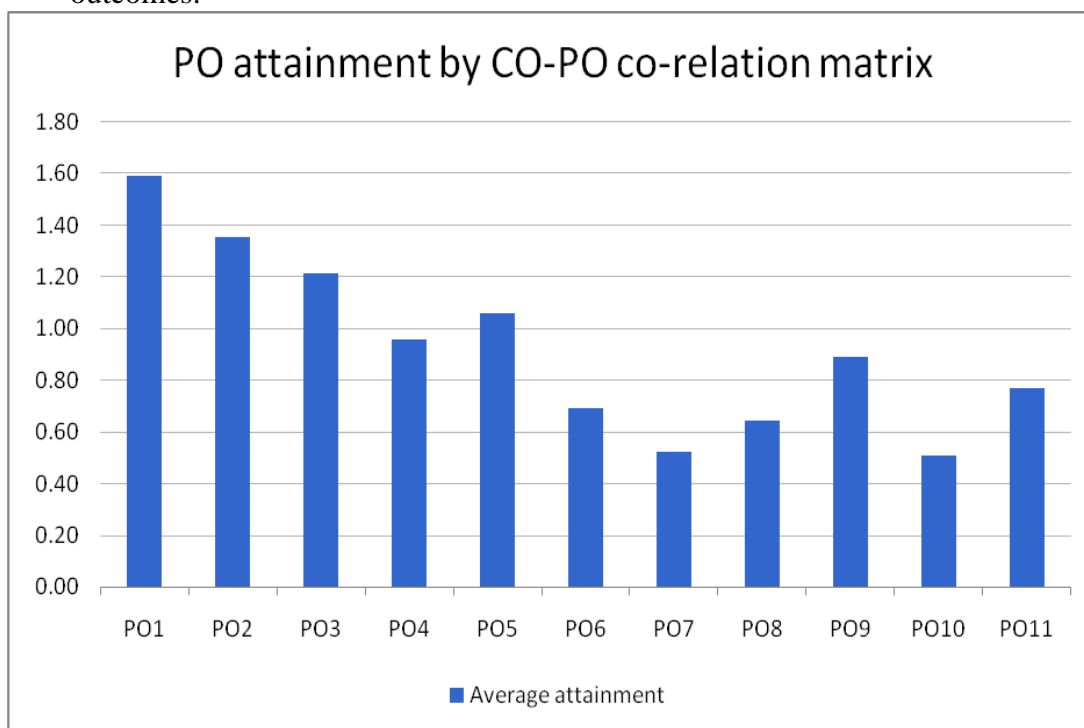
INDICATES TENTATIVE SCHEDULE, COULD UNDERGO CHANGES AS PER EXIGENCIES (54 INSTRUCTIONAL DAYS, 7 NON INSTRUCTIONAL DAYS, 6 IA DAYS, 5 INTENSIVE STUDY CAMP DAYS, 5 WORKING SATURDAYS)

- NOTES:
- STAFF TO REJOIN FOR ODD SEMESTER ON 03 JULY, 2019
 - INSTRUCTION FOR ODD SEMESTER TO START FROM 08 JULY, 2019

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The Department follows the term calendar issued by Head of the Institute. Additional activities are planned and executed as and when required.

23. Attainment of Programme outcomes, Programme specific outcomes and course outcomes:



24. Result Analysis:

Program Code	Program Name	Level/Semester	Number of students appeared in the exam	Number of students passed in the exam
ETRX	Electronics	VIII	77	75
		VII	77	72
		VI	60	33
		V	60	34
		IV	72	44
		III	72	33

25. Total Grant received for research projects sponsored by the government and the non-government sources such as industry, corporate houses, international bodies, endowments, Chairs

S N	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Funds provided	Duration of the project	Name of the Funding Agency	Type (Government /non-Government)	Relevant Document link
1	Study on concealed pipeline Crack detection using thermal image profiles	Dr. Rajendraku mar Khade	Electronics Engineerin g	On-Going	20000	1 Year	Mumbai universi ty	Government	https://drive.google.com/file/d/1kzEA1-GSkH5GzC0hVcjSq3TiAymarEc/view?usp=sharing
2	Developm ent of Radiation Shielding Materials	Dr P S Goyal	Electronics Engineerin g	On-Going	100000	1 Year	Boron Rubber India, Bhavna gar	Non Government	https://drive.google.com/open?id=1jUcwKLk-i0kTWZ-dS9gAihFFuRdABSQk
3	Real time video image based smart traffic system.	Prof. Ajit Saraf	Electronics Engineerin g	On-going	25000	1 Year	Mumbai universi ty	Government	https://drive.google.com/file/d/1kzEA1-GSkH5GzC0hVcjSq3TiAymarEc/view?usp=sharing

26. Details of the teachers recognized as research guides:

SN	Name of teachers recognized as research guides	PG / PhD Recognition	Department	Year of Recognition
1	Dr. R. H.Khade	PG / PhD	Electronics	2007/2018
2	Prof. Monika Bhagwat	PG	Electronics	2014
3	Dr. Sanjeev Kumar Srivastava	PG	Electronics	2019
4	Prof Suman Wadkar	PG	Electronics	2007
5	Prof. Ujwal Harode	PG	Electronics	2012

27. Details of workshops/ seminars conducted on Intellectual Property Rights (IPR) and Industry- Academia Innovative practices:

SN	Year	Name of the workshop/ seminar	Date From – To	Activity (IPR/Industry-Academia Innovative practices)
1	2018-19	Seminar on PATENT: "How to Search, Draft & File Patent" Speaker: Dr. P.S.Lokhande	19.01.2019 to 19.01.2019	https://drive.google.com/open?id=1zQLy95TEF_oHQoEMKW_0yq-bmGyWF0Tsz
2	2018-19	Seminar on "Importance of IPR in Modern Global Economic Environment" Speaker:Dr. P.S.Lokhande	02 .02.2019 to 02.02.2019	https://drive.google.com/open?id=1OB49huwSgUPJDy-s_KTDhUskdFzmD1ew
3	2018-19	Seminar on "Indian Scenario of IPR" Speaker:Dr. P.S.Lokhande	16.02.2019 to 16.02.2019	https://drive.google.com/open?id=12Nqe2RQy7nETpV6S1GUc-attfrx8e1aY

28. Details of incentives to teachers who receive state, national and international recognition/ awards:

Sr. No.	Name of the Awardee with contact details	Name of the Award	Name of the Awarding Agency
NIL			

29. Details of research papers published by teachers in the Journals notified on UGC website:

SN	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number	Link of the recognition in UGC enlistment of the Journal
1	Normal mode Helical antenna on small circular ground plane	Suman P. Wadkar	Electronics Engineering	IETE Journal of Research August 2018	2018-19	ISSN: 0377-2063	https://www.tandfonline.com/doi/abs/10.1080/03772063.2018.1510748
2	Broad band and High Gain stacked microstrip antenna array	Suman P. Wadkar	Electronics Engineering	MOTL ,Feb 2019	2018-19	0895-2477	https://onlinelibrary.wiley.com/action/doSearch?AllField=+%27Broad+band+and+High+Gain+stacked+microstrip+antenna+array&SeriesKey=10982760
3	Structural and Magnetic Properties of Fe-Doped Mn2O3	R. Nikam, Sudhindra Rayaprol, P. S. Goyal, and	Electronics Engineering	Journal of Superconductivity and Novel Magnetism	2018-19	ISSN: 1557-1939 (Print) 1557-	https://link.springer.com/article/10.1007%2Fs10948-017-4464-z

	Orthorhombic Bixbyite	V. Siruguri		, July 2018, Volume 31, Issue 7, pp 2179– 2185, Springer		1947 (Online)	
4	Real-time Sensorless Torque Control of Doubly-Fed Induction Motors, IJRECE, UGC approved, Vol.6 Issue3, pp 1576-1583, September 2018	Ravi Biradar	Electronics Engineering	IJRECE	2018-19	ISSN 2348-2281	http://nebula.wsimg.com/5fa31dfa33a3fbd07987a2f5b0624736?AccessKeyId=DFB1BA3CED7E7997D5B1&disposition=0&alloworigin=1
5	Multi Rate Output Feedback control of Doubly-Fed Induction Motor, IJCSE Vol. 6 Issue 8, pp 681-686, August 2018	Ravi Biradar	Electronics Engineering	IJCSE	2018-19	ISSN: 2347-2693	https://www.researchgate.net/publication/328244003_Multi_Rate_Output_Feedback_control_of_Doubly-fed_Induction_Motor
6	"Automatic gate system with autofocus camera using node-red"	Ruchira Patole	Electronics Engineering	Springer, International Conference on Innovations in Mechanical Engineering, Hyderabad, in book series "Lecture Notes in Mechanical Engineering"	2018-19	ISSN: 2195-4356	https://drive.google.com/open?id=1E-192cSCbwhHsMXzNRITXO4DsI4FjS

30. Details of books and chapters in edited volumes/books published and papers in national/ international conference:

Sl. No.	Name of Teacher	Title of the book /chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication	ISBN /ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher	Relevant link
1	Dr.R. H. Khade	NA	FAULTS DETECTION IN ACTIVE ANALOG BANDPASS FILTER USING OBIST METHOD	BV - SSRN ELSEVEIR	CTFC 2019, PCE PANVEL	International	2018-19	-	PCE, New Panvel	SSRN - ELSEVEIR	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3349630
2	Dr.P.S. Goyal	NA	STUDY OF DIELECTRIC AND STRUCTURAL PROPERTIES OF POLYIMIDE-NANOCOMPOSITE FILMS.	BV - SSRN ELSEVEIR	CTFC 2019, PCE PANVEL	International	2018-19	-	PCE, New Panvel	SSRN - ELSEVEIR	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3358789
3	Dr. Sanjeev Kumar Srivastava	Smartcon 2019	Enhancing the performance of average throughput, end-to-end delay, drop packets and packet delivery ratio by using improved AODV (AODV+) routing protocol in ad-hoc wireless networks.	Smart Trends for Computing & communication 3 international conference	Smart Trends for Computing & communication 3 international conference	International	2018-19	-	PCE, New Panvel	Springer Journal	https://drive.google.com/drive/folders/1Itm1Zc9u3JgJkRmnmv33tmxWhCJB0mNI

31. Details of the extension activities undertaken by the department in sensitizing students to social issues and holistic development:

SN	Name of the activity	Organising unit/ agency/ collaborating agency	Year of the activity	Number of teachers participated in such activities	Number of students participated in such activities
1	Marathon	Mahatma Education Society	2018-19	12	431
2	Womens Day celebration	ETSA Student Council	2018-19	30	40
3	Handling emergencies and First aid Techniques	PCE, New Panvel	2018-19	5	90
4	Blood Donation Camp	Social Club	2018-19	5	----
5	Uberang	Mahatma Education Society	2018-19	129	32
6	Community Service Day	Mahatma Education Society	2018-19	39	156
7	Building Resilience - A key to Women Empowerment	Mahatma Education Society	2018-19		143
8	Jumble Sale	Mahatma Education Society	2018-19		600
9	Anti Narcotics Campaign	Mahatma Education Society	2018-19		150
10	National Calamity Fund (Kerala)	Mahatma Education Society	2018-19		175
11	Basic workshop on positive thinking	Mahatma Education Society	2018-19		15
12	Slum childrens' educational tour	Mahatma Education Society	2018-19		10
13	Blood Donation camp	Mahatma Education Society	2018-19	5	140
14	Yoga Workshop	Mahatma Education Society	2018-19		30

32. Total number of awards and recognition received for extension activities from Government/ recognized bodies:

SN	Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ recognised bodies	Year of award	Name of the Faculty
1	NPTEL Online Certification Course	Elite Grade in NPTEL Online Certification	IIT, Kanpur	2018-19	Dr.R H Khade
2	Project Competition April 2019	Appreciation as Mentor/Guide	PCE Panvel	2018-19	Dr.R H Khade
3	Project Competition April 2019	Appreciation as Mentor/Guide	PCE Panvel	2018-19	Padmaja Bangde
4	Project Competition April 2019	Appreciation as Mentor/Guide	PCE Panvel	2018-19	Uma K S
5	Project Competition April 2019	Appreciation as Mentor/Guide	PCE Panvel	2018-19	Seema Mishra

33. Details of extension and outreach Programmes conducted in collaboration with industry, community and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc.:

SN	Name of the activity	Organising unit/ agency/ collaborating agency	Year of the activity	Number of teachers participated in such activities	Number of students participated in such activities
1	Marathon	Mahatma Education Society	2018-19	12	431
4	Handling emergencies and First aid Techniques	PCE, New Panvel	2018-19	5	90
5	Blood Donation Camp	Social Club	2018-19	5	
6	Uberang	Mahatma Education Society	2018-19	129	32
7	Community Service Day	Mahatma Education Society	2018-19	39	156
8	International Women's Day	Mahatma Education	2018-19		120

		Society			
9	Building Resilience - A key to Women Empowerment	Mahatma Education Society	2018-19		143
10	Hackathon (Odd sem)	Mahatma Education Society	2018-19		36
11	Hackathon	Mahatma Education Society	2018-19		18
12	Deep Blue	Mahatma Education Society	2018-19		4
13	Jumble Sale	Mahatma Education Society	2018-19		600
14	Anti Narcotics Campaign	Mahatma Education Society	2018-19		150
15	Garage Sale	Mahatma Education Society	2018-19		250
16	National Calamity Fund (Kerala)	Mahatma Education Society	2018-19		175
17	Maharashtra day	Mahatma Education Society	2018-19		25
18	Marathi Bhasha Diwas	Mahatma Education Society	2018-19		51
19	Shivaji Jayanti	Mahatma Education Society	2018-19		550
20	Republic Day	Mahatma Education Society	2018-19		120
21	Teacher's Day	Mahatma Education Society	2018-19		550
22	Panvel Gadhi river clean up	Mahatma Education	2018-19		10

	drive	Society			
23	Basic workshop on positive thinking	Mahatma Education Society	2018-19		15
24	Yoga Workshop	Mahatma Education Society	2018-19		10
25	Slum childrens' educational tour	Mahatma Education Society	2018-19		10
26	Blood Donation camp	Mahatma Education Society	2018-19	5	140
27	Yoga Workshop	Mahatma Education Society	2018-19		30

34. Total number of Students participating in extension activities with Government Organization, Non-Government Organizations and Programmes such as Swachh Bharat, AIDs awareness, Gender issue etc.

SN	Name of the activity	Organising unit/ agency/ collaborating agency	Name of the scheme	Year of the activity	Number of students participated in such activities
1	Environmental Awareness Rally	PCE, New Panvel	FE Natures Club	2018-19	600
2	Marathon to Kill ill of illiteracy	MES Pillai	Marathon 2019	2018-19	431
3	National Technology Day	PCE, New Panvel	11th may 2018	2018-19	142
4	Womens Day celebration	ETSA Student Council		2018-19	40
5	Handling emergencies and First aid Techniques	PCE, New Panvel		2018-19	90

35. Details of linkages for faculty exchange, student exchange, internship, field trip, on-the-job training, research etc:

Sr. No.	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration (From-To)	Nature of linkage
1	Internship	Kurla EMU Carshed Kurla West	2018-19	26th December 2018	Kurla EMU Carshed Kurla West
2	Industrial visit	BSNL, Yeur Thane	2018-19	24th Dec to 29th Dec 2018	Industrial visit to BSNL SATELLITE EARTH STATION
3	Internship	BSNL, Yeur Thane	2018-19	3rd July to 7th July 2018	BSNL SATELLITE EARTH STATION
4	Internship	BSNL, Yeur Thane	2018-19	31 Dec 2018 to 4 Jan 2019	Industrial visit to BSNL SATELLITE EARTH STATION
5	Industrial Visit	BSNL, Yeur Thane	2018-19	28th July 2018	BSNL Satellite Earth Station
6	Internship	BSNL, YEUR, Thane	2018-19	25/06/2018 to 29/06/2018	Industrial visit to 35 Students BSNL SATELLITE EARTH STATION
7	Internship	BSNL, Bilaspur M.P	2018-19	2 July 2018	BSNL, Bilaspur M.P
8	Internship	JSW Steel Limited Salav, Raigad	2018-19	29th Dec 2018 to 7 July 2019	JSW Steel Limited Salav, Raigad
9	Industrial visit	CSI Industrial Visit	2018-19	28th to 2th March 2019	CSI Industrial Visit
10	Internship	Ambrosia designs Private Limited	2018-19	4th June 2019 to 3rd July 2019	Internship to Ambrosia designs Private

					Limited
11	Internship	Carriage Workshop, Central Railway, Matunga	2018-19	17th June 2019 to 29th June 2019	Internship to Carriage Workshop, Central Railway, Matunga

Details of functional MoUs with Institutions of national, international importance, other universities, industries, corporate houses etc. :

Sl. No.	Organisation with which MoU is signed	Name of the institution/ industry/ corporate house	Year of Signing MoU	Duration	List the actual activities under each MoU year wise	Number of students/teachers participated under MoUs
1	Franklin Electric Grid Solutions	Pillai College of Engineering	2018-19	03 Years	Summer internship for third year students	-----
2	Access telematics systemns	Pillai College of Engineering	2018-19	03 Years	Summer internship for third year students	-----

36. Details of departmental infrastructural & other facilities:

- a) Departmental Library (books, journals etc.) : Yes
- c) Computers and Internet facilities for staff : Yes
- d) Total number of class rooms : 07
- e) Class rooms with ICT facility : Yes
- f) Students' laboratory : Yes
- g) Research laboratories : Yes
- h) Seminar Hall : Yes
- i) Smart class room : Yes
- j) Any other facility LCDs : Yes

37. Student – Computer ratio:

Total Number of students	Number of computers for students in working condition	Student Computer Ratio
248	105	2.3619

38. Details of e-content developed by the faculty in the department:

Name of the e-content development facilities	Provide link to videos of the media centre and recording facility
Lightboard for visually dynamic video lectures	https://www.youtube.com/watch?v=T4NfzXnWVYA
	https://www.youtube.com/watch?v=upYECwnlX0Q

39. Details of maintenance of laboratory and classrooms:

40. Number of students benefited by scholarships and freeships provided by the Government:

Name of the scheme	Number of students benefited by government scheme (Scholarships)	Number of students benefited by government scheme(freeships)	State Minority Scholarship	Merit Cum-Means Scholarship
VJNT	NIL	NIL	NIL	NIL
OBC	17	NIL	NIL	NIL
SBC	03	NIL	NIL	NIL
SC	10	NIL	NIL	NIL
EBC	31	NIL	NIL	NIL

41. Total number of students benefited by scholarships, freeships, etc provided by the institution besides government schemes:

Name of the scheme with contact information	Number of students benefited by non-government schemes
FELICITATION OF TOPPERS	8
ME SCHOLARSHIP	6
SCHOLARSHIP TO FE ETRX ADMISSION	2
ACADEMIC ADVANCE SCHEME	39
TOTAL STUDENTS BENEFITTED	55

42. Number of students enrolled capability enhancement and development scheme:

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled	Name of the agencies involved with contact details
Guidance for competitive examinations	2018-19		
Career Counselling	2018-19	46	SMEC Labs Mr Naveen Nair - Office no.-209, 2nd Floor, Krishna Plaza, Opposite thane railway station Shivaji Path, Naikwadi, Thane West, Ghantali, Thane, Maharashtra 400602 Tel:088613 41460
Soft skill development	2018-19		
Remedial coaching	2018-19	35	Prof. Rajendrakumar Haribhau Khade - rhkhade@mes.ac.in Prof. Avinash R. Vaidya - avinashvaidya@mes.ac.in
Language lab	2018-19		
Bridge courses	2018-19	40	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		46	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		45	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		32	IEEE Prof. Padmaja Bangde (IEEE,PCE) -

			pbangde@mes.ac.in
		31	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		60	ESTA Prof. Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		80	ESTA Prof. Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		50	ESTA Prof. Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		110	ESTA Prof. Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		170	ESTA Prof. Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
Yoga and Meditation	2018-19		
Personal Counselling	2018-19		

43. Number of students in the department benefitted by guidance for competitive examinations and career counseling offered by the institution:

Year	Name of the scheme	Number of students benefitted /attended/participated by career counseling/Competitive exam activities
2018-19	GATE coaching	

44. Number of students attending Vocational Education and Training(VET)

Number of students attending VET	Total number of students
128	250

45. Minutes of the meetings of student redressal committee, prevention of sexual harassment committee and Anti Ragging committee:

No. of grievances appealed	No. of grievances redressed	Average time for grievance redressal in number of days

46. Number of outgoing students placed along with name of the employer with contact details:

Number of students placed	Name of the employer with contact details	Package received	Program graduated from
1	Byjus (Think & Learn Pvt Ltd)	RS. 10.0 LPA	ETRX
1	GEP, Belapur, 61372100	5L	ETRX
1	LOTUS WIRELESS TECHNOLOGIES INDIA PVT LTD, Manpada Rd, Dombivli East	RS. 2.40 LPA	ETRX
1	LTI Ballard Estate, Mumbai 67525656	3.18L	ETRX
1	NEXA, Address: PLOT NO. 107, SEC. 1(S, Industrial Area, New Panvel East, Navi Mumbai, Maharashtra 410206	1.2L	ETRX
1	Qspider, Andheri East, 7028350006	2.5L	ETRX

47. Details of the students going for higher education:

Number of students enrolling into higher education	Program graduated from	Department graduated from	Name of institution joined	Name of program admitted to

48. Number of students appearing and qualifying in state/ national/ international level examinations (eg: NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ State government examinations):

Number of students selected/ qualifying									State government examination
Registration /Roll No for the exam	NET	SLET	GATE	GMAT	CAT	GRE	TOEFL/IELTS	Civil Services	
3883896						Pranay Sadavarte			
4626009						Shweta Mane			
34951727							Shweta Mane		
272100							Pranay Sadavarte		
2859							Chinmay Mysorekar		

49. Number of awards/medals for outstanding performance in sports/cultural activities at national / international level:

Name of the award/ medal	National/ International	Sports/ Cultural	Name of the Student	Number of students	Adhaar Number/Admission Number
Won Ms. Yogini Title And Gold Medal In Mumbai Mayor Cup Yoga Competition	National	Sports	Ms. Purva Shivram Kinare	01	2018PE0375

50. Details of the student council and the departmental student chapters:

Sr. No	Departmental Student Chapter	Number of Students
1	ETSA	23
2	IEEE	16
3	Student Council	05

51. Number of sports and cultural activities/competitions organized at the institution level:

Sr. No.	Name of the activity	Event Date
ALEGRIA 2019		5th to 9th FEB
1	FIFA 19 (PS4)	
2	NFS Most Wanted	
3	CS GO	
4	DOTA 2	
5	PUBG	
6	Mini Militia	
7	Ludo King	
8	Oculus VR Fruit Ninja	
9	Oculus VR Fruit Ninja spot	
10	Marathon (Pre-Alegria)	
11	Futsal	
12	Box Cricket	
13	Basketball	
14	Volleyball	
15	Kabaddi	
16	Tug of War	
17	10m Air Rifle Shooting	
18	Badminton (Girls)	
19	Badminton (Boys)	
20	Shotput	
21	Chess	
22	Table Tennis	
23	Carrom (Single)	
24	Carrom (Double)	
25	Football and cricket Quiz	

26	Devils Circuit	
27	Neo Cricket	
28	Neo shootout	
29	Neo Basketball	
30	Free Style Solo	
31	Classical Solo	
32	Solo Singing	
33	Rapping	
34	Beat Boxing	
35	Stand Up Comedy	
36	Mono Acting	
37	Open Mic	
38	Instrumental Music	
39	War Of DJs	
40	Duet Dance	
41	Folk Group	
42	Free Style Group	
43	Skit	
44	The Face Of Alegria	
45	Mr & Ms Alegria	
46	Fitness Physique	
47	Fashion Show	
48	Treasure Hunt	
49	Photography	
50	Fastest Finger First	
51	PTV Rowdies	
52	Food-a-thon	
53	Rose day	

54	Farewell	
55	Garba night	
56	Saree day	
57	Traditional day	
58	Shivaji Jayanti	
59	ANUBHAV	
60	Engineering Football League 2019	25 Feb to 7 Mar 2019
61	Mumbai University Volleyball Championship	10Dec to 13 Dec 2018
62	FE SPORTS	25 SEP to 28 SEP 2018

52. Details of the contributions of alumni in the development of the department/ institution through financial and non financial means:

Sr. No	Date	Title	Speaker	Attendees	Duration
1	23-24 Feb 2019 and 10th March 2019	" FLASK: Python web framework"	Dhiraj amin	35	3 Days
2	27th Feb 2019	Seminar on " Software engineering and project management " for TE IT students by Shivkumar	Shivkumar Vishwakarma	28	1 Day
3	8th March 2019	Women's Day Celebration	Apeksha Chavan	30	1 Day
4	15th and 16th March 2019	" Internet of Things "	Mimi Cherian		2 Days
5	22nd February, 2019	" Internet of Things "	Ruchira Patole	41	1 Day
6	2nd March 2019	Web Development	Akhil Menon		1 Day
7	4th Nov 2018	Flask Python Web Framework	Dhiraj Amin	33	1 Day

8	2nd October 2018	Basic Concepts of Python	Dhiraj Amin	100+	1 Day
9	2nd and 9th August 2018	LaTeX workshop	Ms. Ruchira Patole	42+34	2 Day
10	4th September 2018	Arduino	Ms. Aboli Khedkar	82	1 Day
11	29 September 2018	Web Development	Mr. Akhil Menon and Mr. Vishnu Nair.	29	1 Day

53. Details of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies:

Sr.No	Name of teacher	PAN	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support (REMARK)
01	Dr. R.H.Khade	AAMPK2468 A		IEEE membership fees	3925.98
02	Monika Bhagwat	AIVPB7327G	IEEE CSS SICE International Symposium on Control Systems (SICE ISCS)		25000
03	Monika Bhagwat	AIVPB7327G	State Level Workshop on the theme 'AQAR Writing & Submission in the light of new NAAC guideline		500
04	Dr.P.S.Goyal	AAEPG5760H	Conference on Polymer Processing		150
05	Dr.R.H.Khade	AAMPK2468 A	Conference on Polymer Processing		150
06	Deepti Nair	BIQPS9120N	Conference on Polymer Processing		150
07	Uma K.S	BULPK6272L	Conference on Polymer Processing		150

08	Anup Vanage	AGDPV0278 Q	Conference on Polymer Processing		150
09	Dr.P.S.Goyal	AAEPG5760H	Conference on Technologies for Future cities 2019(CTFC-2019)		500
10	Dr.R.H.Khade	AAMPK2468 A	Conference on Technologies for Future cities 2019(CTFC-2019)		500
11	Monika Bhagwat	AIVPB7327G	Conference on Technologies for Future cities 2019(CTFC-2019)		500
12	Ujwal Harode	ABNPH6248K	Conference on Technologies for Future cities 2019(CTFC-2019)		500
13	Suman Wadkar	AANPW8671 Q	Conference on Technologies for Future cities 2019(CTFC-2019)		500
14	Padmaja Bangade	ANPPB0039C	Conference on Technologies for Future cities 2019(CTFC-2019)		500
15	Ravi Biradar	AEYPB2004H	Conference on Technologies for Future cities 2019(CTFC-2019)		500
16	Ajit Saraf	BCMPS0690F	Conference on Technologies for Future cities 2019(CTFC-2019)		500
17	Meera Kharat	AVQPK5888 H	Conference on Technologies for Future cities 2019(CTFC-2019)		500
18	Deepti Nair	BIQPS9120N	Conference on Technologies for Future cities 2019(CTFC-2019)		500
19	Uma K. S	BULPK6272L	Conference on Technologies for Future cities 2019(CTFC-2019)		500
20	Anup Vanage	AGDPV0278 Q	Conference on Technologies for Future cities		500

			2019(CTFC-2019)		
21	Seema Mishra	AQQPM1898 L	Conference on Technologies for Future cities 2019(CTFC-2019)		500
22	Rubina Shaikh	BYZPS3088L	Conference on Technologies for Future cities 2019(CTFC-2019)		500
23	Swati Patil	ATUPP2120K	Conference on Technologies for Future cities 2019(CTFC-2019)		500
24	Sonali Kathare	AXJPK5291P	Conference on Technologies for Future cities 2019(CTFC-2019)		500
25	Ruchira Patole	BTPPP6222N	Conference on Technologies for Future cities 2019(CTFC-2019)		500
26	Apeksha Chavan	AISPC5655P	Conference on Technologies for Future cities 2019(CTFC-2019)		500
27	Ameet Mehta	AQIPM9866E	Conference on Technologies for Future cities 2019(CTFC-2019)		500

54. Number of professional development/administrative training programs organized by the department for teaching and non teaching staff:

Sl. No	Title of the professional development program organised for teaching staff	Title of the administrative training program organised for non-teaching staff	Dates (from-to)	Dates (from-to) Nonteaching	No of participants (Teaching staff)	No of participants (Nonteaching staff)
01	Workshop on LaTeX at PCE		1st Sept 2018		12	

55. Details of teachers attending professional development Programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes:

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
7	Conference on "Polymer Processing" organized by PCE New Panvel	23rd Feb 2019
17	Conference on Technologies for future cities 2019(CTFC-2019)	8.01.2019 & 9.01.2019
8	Workshop on LaTeX at PCE	1st Sept 2018
1	NPTEL online certification course on, "Developing Soft Skills and Personality".	Aug-Oct 2018 (8 week course)
1	Attended Orientation Program for Digital communication at Vidyalankar college	6 July 2018
7	Attended one day workshop at PCE, New panvel on Moodle on 15 March 2019 conducted by MHRDIITB	15 March 2019
3	NPTEL course on "Introduction to Research"	Jan- April 2019
2	Advanced Topics in Embedded Systems and Robotics" organised by IIT, Bombay. (STTP)	27 August 2018 to 31st August 2018
1	Industry Institute Interaction Meet,PCE(seminar)	18.05.18
1	Attended Orientation Program for "CTN" at A.P.Shah College , Thane	10.01.19
1	Attended Orientation Program for "Design with Linear Integrated circuits" at Fr. CRCE, Bandra on 12/07/2018	12/07/2018
1	Attended Orientation Program for "MCA"	Jan 2019
1	Attended Orientation Program for "Microprocessor and Peripherals Interfacing" at A.P.Shah Institute of Technology,Thane	18th July,2018
1	NPTEL course on "Signals and system"	Jan-April 2019(12 weeks)
1	IOT Fundamental conducted by Cisco Networking Academy(STTP)	21 Aril 2019-27 April 2019

56. Total Grants received from non-government bodies, individuals, Philanthropers:
57.

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Initiative
NIL		

58. Details of quality enhancement initiatives in the academic and administrative domains of the department:

1. Academic Audit Committee: Teaching learning process is continuously reviewed through regular and in-depth manual as well as online academic audit also the AAC reviews the preparedness of every department for NBA.

(a) The following are the some of the measures initiated by IQAC through AAC to review the teaching learning outcomes:

1. Adherence to Academic calendar.
2. Regular and proper class conduction
3. Regular conduction of internal assessment with timely evaluation and intimation to students and parents through PTM.
4. Regular up gradation of study materials, assignments, tutorial questions, course contents and laboratory manuals.
5. Regular collection of feedback from the students (for teachers and curriculum), analysis and appropriate action taken on the basis of the feedbacks.
6. Computation of levels for Course attainment and Programme attainment.
7. Regular performance appraisal of the faculty members and technical staff.
8. Periodic review of the attainment of the various COs, PSOs and POs to ensure proper quality.

(b) Online monitoring System: Online Monitoring System is a cumulative term for different online portals being designed in-house to cater to the needs of PCE. The system provides data storage and monitoring of both

Student as well as faculty at PCE. Digital data helps in good organization, transparency and efficient tracking of students. This helps in taking timely disciplinary action against defaulting students. The System also provide solution to manual distribution of hall tickets and railway Concession form, thereby saving time and resource.

Faculty portal helps to monitor performance of faculty which helps in assessment during appraisals.

The challenging issues for different needs are addressed by various software tools designed and developed at PCE which include.

AMS (Attendance monitoring System)

Used for updating student attendance record, report generation, lecture planning and viewing student feedback.

Student Portal

Used for admission, Exam form filling, individual results,

Faculty Portal

Faculty Portal helps to effectively monitor the development of PCE faculty based on his/ her contribution in terms research publications, paper assessment details, roles and responsibilities during an academic year.

Online Feedback and Course Exit Survey

PCE in its efforts to provide best quality education to its students have highly skilled faculty. However student feedback of teachers is equally important to understand if the students are maintaining correct pace with the teachers or the concerned teachers need to make adjustment/correction according to needs of the students.

MMP portal

In mentor mentee portal, all the mentors and mentees can log in through their mes mail id. All the mentees have to fill and update the mentee registration form every semester. This portal has all the data of mentors as well as mentees.

2. Enhancement of quality:

The IQAC has taken various initiatives to enhance the quality of teaching and non teaching faculty.

1.The faculty are encouraged to attend various workshops and seminars to upgrade their skills.

2.The faculty are sponsored for pursuing Ph.D to upgrade the qualification.

3.The faculty and students are encouraged to take up NPTEL and MOOC courses to upgrade their knowledge.

59. Number of gender equity promotion Programmes organized by the department:

Year	Sr. No.	Title of the program	Date and Duration (from-to)	Number of participants
2018-19	01	MOU for Development Program for girls	2019	
	02	International Women's Day	6th March 2019	45
	03	Building Resilience - A key to Women Empowerment	6th March 2019	53
	04	Hackathon (Odd sem)	2018-19	06
	05	Hackathon	2018-19	03
	06	Girls in Tech	2018-19	03

60. Details of the PBL topics floated by the department:

1. For Second Year Semester III, July-Dec 2018, the PBL topics were:

- Multimeter & power supply using Arduino,
- Energy harvesting using piezoelectric sensors,
- IR sensor based counter using Arduino,
- Fastest finger first,
- Digital dice

2. For Third year Semester V the PBL topic was :

- Arduino based Scientific Calculator

3. For Second Year Semester IV, Jan-June 2019, the PBL topics were:

- Smart Mirror
- Speed measurement of a moving object

- IC Tester
- Smart Dustbin
- Color sorter/Coin sorter
- Walkie Talkie

4. For Third Year Semester VI, Jan-June 2019, the PBL topic was:

- Smart Watch using OLED display

61. Details of the final year project:

Sr no.	Title	Name of Student	Guide/Co-Guide Name	Outcome/Benefits
1	Solar Based smart Irrigation system	Mhatre Saurabh Dilip	Prof. Swati Patil	
		Tirathkar Vikramaditya N		
		Hongekar Shreya Nitin		
		Kale Gauri Vijay		
2	Microcontroller based Rubik's cube solver	Kshirsagar Kunal Vijay	Dr.Avinash R.vaidya	
		Lohote Umesh Jagdish		
		Mahamulkar Sanket Maruti		
		Kakkad Jayesh Harish		
3	Microcontroller -Based Electrogastrography	Kane Samir Gorkashanath	Prof. Ravi Biradar	
		Malhotra Jaiti Rakesh		
		Joshi Reshma Girish		

		Mulla Yasir Umair M		
4	Eye Tracker using IR sensor	Talavdekar Sanchit Sandeep	Prof. Suchitra Patil	
		Yadav Ajay Santosh		
		Uppal Rishabh Jogesh		
		Kajal Singh		
5	Hand Gesture recognition and voice conversion system	Rathod Aspal Singh Manohar	Prof. Seema Mishra	
		Sadavarte Pranay Hemant		
		Sagvekar Anish Pramod		
6	Morse code interpreter and synthesizer with speech.	Mane Shweta Satyasheel	Prof. Padmaja Bangde	
		Divate Vishakha		
		Kadam Sheetal Shravan		
		Koyande Arthaya Shrivatsal		
7	IOT based Intelligent Traffic management system	Vaishampayan Kaustubh Uday	Prof. Uma k.s	
		Yelange Shubham Ajay		
		Patil Prasad		

		Wani Chinmay Jagdish		
8	IOT based Women security system	Nadar Vighnesh Kumar	Prof. Uma k.s	
		Patil Swaranjali Praful		
		Arya Mayank		
		Satpute Priyanka		
9	Gesture controlled wireless Robot using Radio Frequency (RF)	Rockey Anthony	Prof. Suman Wadkar	
		Aditya Deshpande		
		Thorat Rutuja Goraksh		
		Parab Nehal Vilas		
10	Intelligent Agriculture UAV	Aditya Dharmveer Singh	Dr.R. H. Khade	
		Moolya Shreyas Sadanand		
		Abhishek Pawar		
		Kanchan Kartik		
11	Wi-Fi Controlled ROBOT using Wemos D1 ESP8266,Arduino IDE and Blynk app.	Menon Pallavi Ravikumar	Prof. Anup Vange	
		Chhabra Anuj Vinod		
12	Automatic sunlight tracking	Patil Utkarsha		

	system with maximum power point tracking.	Pradeep	Prof. B.Hariharan	
		Thushara Gopinathan Nambiar		
		Nair Anish		
13	Intelligent Library Management System	Sreerag Varma	Prof. Seema Mishra	
		Afsar Khan		
		Swami S Rohan		
14	Multi robot co ordination for swarm robots	Shinde Neha Nawnath	Prof. Ujwal Harode	
		Bhatia Manishq		
		Puttur Shishir Mohanlal		
15	Face recognition system for Attendance marking/door security and access control	Naik Pranali Prabhakar	Prof. Swati Patil	
		Tapase Ratnamala Suresh		
		Shetty Anish Jayraj		
16	Digital Control Touch Panel for electrical applications	Koul Happy Rajesh	Prof. Seema Mishra	
		Shinde Deepak Sudhakar		
17	IOT based patient monitoring system using FRDM KL 25Z.	Mysorekar Chinmai Sushant	Prof. Deepti Nair	
		Sharma Shruti Lalit		

		Nair Rohit		
		Asif Sayyed		
18	Gesture Controlled robotic arm.	Nair Vikram	Prof. Ravi Biradar	
		Pathak Ashish Rajendrakumar		
		Sharma Pankaj Devraj		
		Meraj Ali Shaikh		
19	Solar panel based Automatic Lawn Mower using Microcontroller.	Naik Sandeep Raghunath	Prof. Rubina Shaikh	
		Tupe Sujit Ramchandra		
		Mallick Shrutik Swapan		
		Kazi Abdul Rehman Shabbir		
20	Intra Vehicular Communication by using LIFI for PRE-EMPITIVE COLLISION AVOIDANCE	Surendran Akash	Prof.. Ravi Biradar	
		Menon Kiran Achuthankutty		
		Patil Atul Ankush		
		Thakur Nitesh Shasheekant		
21	Forest sensors for alert indication to secure wildlife.	Joshi Ninad Nitin	Prof. Tusharika Banarjee	
		Khamkar Amar Pralhad		

		Babar Sushant Subhash		
		Dhanawade Akash		
22	Control and operation of Electric loads with a centralized PC .	Khatmode Vitthal Hanumant	Prof. Tusharika Banarjee	
		Ghag Sagar Sharad		
		Kadam Rahul Sanjay		

62. Initiatives taken by the department to enhance quality of teaching learning process, research and entrepreneurship:

Innovation and creativity are fundamental and essential qualities the PCE seeks to develop both in its students and faculty. It does this by creating an environment of opportunities around them and then allow them the freedom to be creative and innovative. Some of the initiatives for innovative and improved teaching learning are listed below.

PCE has a dedicated recording room called as “E-Learning Studio”. An inhouse developed Light Board an recording facility in this E-learning studio is part chalkboard and part projection screen that floats course content in space between the instructor and their student audience. Many faculty members have recorded the lectures respective subjects in stipulated time of 10 minutes each in our studio. Once edited, these videos are shared with students via YouTube or other learning platforms. These online lectures allow the faculty to more easily incorporate interactive, audio-visual tools, digital resources, animation and simulations in their lectures. This allows students to

review lectures and various concepts at home and then come to class and ask questions. It also allows for faculty to cover material not in the syllabus but is still relevant to industry.

1. PCE is a recognised Remote Center of eOutreach program of IIT Bombay since 2012. Till date more than 30faculty development workshops encompassing variety of subjects including use of ICT in education have been conducted through the remote center. These courses have enriched PCE faculty members with advanced teaching methods adopted by eminent teachers/professors of various IITs.

2. Google Classroom and moodle is being used by a few of our faculty members and assignments/quizzes are given out through such classrooms.

3. Effective implementation of Problem/project based learning, demo models, mini projects in addition to seminars and case studies contribute in enhancing further creativity and innovation in teaching-learning.

4. Component library is a unique facility of teaching learning process in PCE. Faculty members and students borrow different components to create/demonstrate/experiment different concepts, systems or subsystems that they learn in the theory classes and beyond syllabus.

5. Skill based learning is facilitated with additional certificate courses, workshops and trainings which helps in improving their employability. Such courses and workshops are conducted after the normal working hours and mostly on weekends or in vacations.

6. Field visits and Industrial visits to various software/hardware/Electronics/ Communication companies, Power Plants, Process plants, Showrooms and service centres in and around Mumbai help students in understanding beyond syllabus concepts and latest trends in industry.

7. Facilitating students for various Project Competitions is integral part of our college culture. Students regularly participate in project competitions like all India level Hackathons, project Deep Blue, Car Racing (SAE and BAJA) etc.

Students are also encouraged to present technical papers in reputed conferences as well as competitions. A separate student activities fund of Rs 10 Lakh is allocated per year to encourage participation in such activities. The institute also conducts project competition and cash awards are given to the best performing teams.

Declaration by the Head of the Department/Institution:
I am aware that the above information provided by the department will be
validated by the AAA committee during the visit.

Phade
Head of Department
(Dr. R.H. Khade)

S.M. Joshi
S.M. Joshi

P.S. Goyal
P.S. Goyal

Shyamani Goinkar
Shyamani Goinkar

Manika Bhagwat
Manika Bhagwat

(Pragat one)
(Pragat one)

Pragat
Pragat

Sachin S. Wani
Sachin S. Wani