



**Mahatma Education Society's**

**Pillai College of Engineering**

**Dr. K. M. Vasudevan Pillai Campus, Sector 16,  
New Panvel, Navi Mumbai (M.S.) 410206**

**Electronics and Telecommunication Engineering**

**INFORMATION FOR ACADEMIC AND  
ADMINISTRATIVE AUDIT OF THE DEPARTMENT**

**(2019-2020)**

**(Provide information for A.Y. 2019-2020)**

1. Name of the Department: **Electronics and Telecommunication Engineering**
2. Year of establishment: 2007
3. Programmes offered: UG/~~PG~~/~~PhD~~
4. Details of certificate/diploma program introduced in 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	EXTC	Electronics and Telecommunication	Latex	2019-20	<a href="#">View</a>
2	EXTC		Arduino-(1&2)	2019-20	<a href="#">View</a>
3	EXTC		IOT workshop	2019-20	Proof in College

SN	Program code	Program name	Name of the certificate/diploma introduced in last 5 years	Year of introduction	Link the relevant document
1	EXTC	Electronics and Telecomm	Networking and its fundamentals	2019-20	<a href="#">View</a>
2	EXTC		Industrial Internet of Things	2019-20	<a href="#">View</a>

3	EXTC		Python Programming	2019-20	<a href="#">View</a>
4	EXTC		Data Science with R	2019-20	
5	EXTC		Antenna Design Thinking	2019-20	

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

<b>Year</b>	<b>Name of Teacher</b>	<b>Name of the body in which full time teacher participated</b>	<b>RELEVANT LINK</b>
2019-20	Avinash R. Vaidya	Syllabus Setting	In office
	Dr. Avinash R Vaidya	Adjunct Faculty, Department of Technology, SPPU Pune	<a href="#">View</a>
2019-20	Sonali Kathare	Faculty orientation program on SATCOM	<a href="#">Link</a>
2019-20	Tusharika S Banerjee	1) Chairman- BE-Paper setters-ODD SEM	
		2) Chairman- ME-Paper setter-ODD SEM	
		3) Chairman- BE-Paper setters-EVEN SEM	
		4) Chairman- ME-Paper setter-EVEN SEM	
		5) Orientation Program on Optical Fibers by UoM at KJ Somaiya, Sion-ODD SEM	

		6) Orientation Program on NMT by UoM at Don Bosco ,Wdadala on 08.01.2020-EVEN SEM	
		7) Attended meeting of paper setters and chairman at RAIT, Nerul in Feb 2019-EVEN SEM	
2019-20	Dr. Sanjeev Kumar Srivastava	Chairman, Mumbai University Exam Committee	

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
Microwave Engineering	UNDER GRADUATE EXTC	320737210	ECC701	2019-20	<a href="#">View</a>
Mobile Communication System			ECC702		
Optical Communication			ECC703		
Neural Networks and Fuzzy Logic			ECCDLO7031		
Big Data Analytics			ECCDLO7032		
Internet Communication Engineering			ECCDLO7033		
CMOS Mixed Signal VLSI			ECCDLO7034		
Embedded System			ECCDLO7035		
Product Lifecycle			ILO7011		

Management				
Reliability Engineering			ILO7012	
Management Information System			ILO7013	
Design of Experiments			ILO7014	
Operation Research			ILO7015	
Cyber Security and Laws			ILO7016	
Disaster Management and Mitigation Measures			ILO7017	
Energy Audit and Management			ILO7018	
Development Engineering			ILO7019	
Microwave Engineering Lab			ECL701	
Mobile Communication System Lab			ECL702	
Optical Communication Lab			ECL703	
RF Design			ECC801	
Wireless Networks			ECC802	
Optical Networks			ECCDLO 8041	
Advanced Digital Signal Processing			ECCDLO 8042	
Satellite Communication			ECCDLO 8043	
Network management in Telecommunication			ECCDLO 8044	
Project Management			ILO8021	

Finance Management			ILO8022		
Entrepreneurship Development and Management			ILO8023		
Human Resource Management			ILO8024		
Professional Ethics and CSR			ILO8025		
Research Methodology			ILO8026		
IPR and Patenting			ILO8027		
Digital Business Management			ILO8028		
Environmental Management			ILO8029		
RF Design Lab			ECL801		
Wireless Networks Lab			ECL802		
Department Level optional Lab			ECLDLO 804X		

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

<b>Name of all programs</b>	<b>Whether adopting CBCS course system(yes/no)</b>	<b>Whether adopting elective course system(yes/no)</b>	<b>Program Code</b>	<b>Year of implementation of CBCS/ elective course system</b>	<b>Link the relevant document</b>
EXTC	YES	YES	BE-EXTC	2019-20	<a href="#">View</a>

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

<b>Year</b>	<b>Title of the programme</b>	<b>Type of the programme (Certificate/ Diploma programs/ Add-on programs)</b>	<b>Total Number of students enrolled in certificate or diploma or add-on programs</b>
2019-20	Latex	Certificate	27
2019-20	Arduino-(1&2)	Certificate	71
2019-20	IOT workshop	Certificate	19

<b>Year</b>	<b>Title of the programme</b>	<b>Type of the programme (Certificate/ Diploma programs/ Add-on programs)</b>	<b>Total Number of students enrolled in certificate or diploma or add-on programs</b>
2019-20	Networking and its fundamentals	Certificate	15
2019-20	Industrial Internet of Things	Certificate	30
2019-20	Python Programming	Certificate	24
2019-20	Antenna Design Thinking 2.0	Certificate	25
2019-20	Data Science with R	Certificate	09

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.	Antenna Design Thinking	ADT 2.0	2019-20	-	25	25
2.	Networking & it's Fundamentals	NIF	2019-20	-	22	22
3.	Industrial Internet of Things	IIoT	2019-20	-	30	30
4.	Python Programming	PYP	2019-20	-	30	24
5.	Data Science with R	DSR	2019-20	-	9	9

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

Program name	Program code	No of students undertaking field projects / internships	Link the relevant document
Bachelor of Electronics and Telecommunication Engineering	EC	68	<a href="#">INTERNSHIPS</a>

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	EXTC-SEM 3, DIV.B	Not able to remember and implement the concept of strings, arrays, inheritance,etc.	Included 1 hour lecture per week in Time table of 2020 - 21 ODD Sem to clear the concept of programming	<a href="#">View</a>
2	Student	EXTC- Sem 7, DIV.A	Unable to Understand Embedded systems ,its design metrics and characteristics	PCE organized a two day training/workshop on Embedded System Design and Internet of Things at L & T Corporate Technology and Engineering Academy, Madh Campus on 6 th and 7th February 2020 for Electronics & Telecommunication Engineering students.	<a href="#">View</a>
3	Teacher	Sem VII EXTC - Mobile Communication System	Emerging technologies in 4G i.e. concept of MIMO is not covered.	Industry Expert lecture on 4G Architecture was conducted on 18th July 2020, 3.00PM to 5.00PM	<a href="#">View</a>
4	Teacher	Sem VII EXTC - Optical Communication	The syllabus is vast. The re-sequencing of contents can be discussed.	The suggestions are forwarded to the member of BoS through proper channel with a request to consider at the time of syllabus revision.	<a href="#">View</a>
5	Teacher	Sem VII EXTC - Microwave Engineering	The books which are exclusively meant for impedance matching, should be added in the list of recommended books.	The suggestions are forwarded to the member of BoS through proper channel with a request to consider at the time of syllabus revision	<a href="#">View</a>
6	Teacher	Sem VII EXTC - Microwave Engineering Lab	Industrial Visit should be made compulsory for better understanding of the concepts.	The suggestions are forwarded to the member of BoS through proper channel with a request to consider at the time of syllabus revision	<a href="#">View</a>

7	Teacher	Sem VIII EXTC -RF Design Lab	Mini Project must be there so that students can have great insight into the subject.	The suggestions are forwarded to the member of BoS through proper channel with a request to consider at the time of syllabus revision	<a href="#">View</a>
8	Teacher	Sem VIII EXTC -RF Design	The subject should be in lower semester	The suggestions are forwarded to the member of BoS through proper channel with a request to consider at the time of syllabus revision	<a href="#">View</a>
9	Teacher	Sem VIII EXTC- Satellite Communication	Satellite Network topic can be added in the syllabus	The suggestions are forwarded to the member of BoS through proper channel with a request to consider at the time of syllabus revision	<a href="#">View</a>
10	Alumni	EXTC	Please provide funding to the excellent technical project teams	An amount of Rs. 50,000/- was sanctioned to team MECHATRON for TECHFEST IITB. Project Title is Wireless SUMOBOT and Robot for ROBOMAZE	<a href="#">View</a>
11	Alumni	EXTC	Industry expert lectures should be arranged for the students	Industry Expert lecture on 4G Architecture was conducted on 18th July 2020, 3.00PM to 5.00PM	<a href="#">View</a>
12	Alumni	EXTC	Workshop on Antenna designing and Simulation should be conducted	A webinar on “Antenna Design through Simulation using TaraNG: 19.1” was organized by Department of Electronics and Telecommunication Engineering, Pillai College of Engineering on May 18, 2020 from 4:00 pm – 6:00 pm.	<a href="#">View</a>

\*\*\*\* Employer Feedback- The hard copy is at college as informed by placement Cell

Dept Name	Academic Year of Feedback	Company Name	Name of Person	Designation	Email ID	Feedback Received	Action Taken	Proof of feedback
EXTC	2019-20	JSW steel	Vijay C. Bathala	Dy. Manager		Teamwork and coordination can be improved little		<a href="https://drive.google.com/file/d/1Y5v-76dMegW8KKV-lqtIJ0YcGg8wx76A/view?usp=sharing">https://drive.google.com/file/d/1Y5v-76dMegW8KKV-lqtIJ0YcGg8wx76A/view?usp=sharing</a>
						Students to be dresses formally next time, Better rooms for group discussion		
	2019-20	<a href="http://Lenskart.com">Lenskart.com</a>	Tanuja muje	AM-HR		less publicity, Candidate count is very low		
	2019-20	WQ India - Dhananjay Group	Mr. Sachin Chavan	VP sales & marketing	mob: 8888033337	Please check the above question which is not relevant to any specific person or discipline faculty. I am not able to refer above questions to any specific function.		
	2019-20	Catalyst Talent Management	Pradeep Sahu			Irrelevant questions regarding job fair. Not every candidate are from Pillai.		
	2019-20	Capgemini India ltd.	Sachin bagal	Project Manager		-		

						Please include interview preparation has a module. The placement team needs to have a standard resume format. The student need to be mandatorily be sent for internship from second year onwards so that they can understand concept better	
	2019-20	ABSTC	Sumitha Nair	Manager			

\*\*\*\* Alumni Feedback- Alumni feedback(hardcopy)few taken during Convocation is at college:

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
2019-20	04	NIL	<a href="#">Link</a>

13. Total number of students admitted in the department:

Year	Program name	Program Code	Total Number of Seats Sanctioned	Total Number of students admitted
2019-20	Electronics and Telecommunication Engg	FE(2019-20)	120	90

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	Gen	others	SC	ST	OBC	Gen	Others
35	2019-20	5	2	7	17	4	2	0	9	77	2

Name of the student enrolled under Differently abled Category	Gender	UDID Card Number	Type of Disability	Percentage of Disability	Program enrolled	Year of Enrolment
NIL	NIL	NIL	NIL	NIL	NIL	NIL

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.

The EXTC department 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 counselors 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 is identified and a 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 the 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 the GATE examination.

Students having orientation towards research are motivated to present their work at conferences and competitions such as Avishkar, 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 qualified for Smart India Hackathon.

16. Student- Full time teacher ratio:

<b>Year</b>	<b>Number of students enrolled in the department(UG)</b>	<b>Number of students enrolled in the department (PG)</b>	<b>Number of full time teachers in the department (UG)</b>	<b>Number of full time teachers in the department (PG)</b>	<b>Number of teachers teaching both UG and PG courses</b>	<b>STR</b>
2019-20	360	NA	17	NA	NA	21:1

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

<b>Designation</b>	<b>Sanctioned</b>	<b>Filled</b>
Professor	1	1
Associate Professor	4	3
Assistant Professor	13	13
Total	18	17

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

<b>Year</b>	<b>Total No. Full time teachers</b>	<b>No. of teachers with PhD</b>
2019-20	17	1

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

<b>Year</b>	<b>No. Of Full time Teachers</b>	<b>No. of teachers received awards/recognition/fellowship at State/National/International level</b>	<b>Relevant link</b>
2019-20	17	12	<a href="#">Link</a>

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

<b>Year</b>	<b>No. Of Full time Teachers</b>	<b>No. of teachers from other states</b>
2019-20	17	NIL

21. Details of examination related grievances received if any.

No grievances have been reported

22. Adherence to the academic calendar:

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

**PILLAI COLLEGE OF ENGINEERING, NEW PANVEL**  
**TENTATIVE TERM CALENDAR JUL-DEC 2019 FOR SE, TE & BE**

JUL		AUG		SEPT		OCT		NOV		DEC	
MO 1	STAFF RETURN	TH 1	19	SU 1		TU 1	IA II SE,TE,BE & IA I FE	FR 1		SU 1	
TU 2		FR 2	20	MO 2		WE 2	GANDHI JAYANTI	SA 2	FSS	MO 2	
WE 3		SA 3		TU 3		TH 3	IA II SE,TE,BE & IA I FE	SU 3		TU 3	
TH 4		SU 4		WE 4	GANAPATI FESTIVAL	FR 4	50	MO 4		WE 4	
FR 5		MO 5	21	TH 5	MID-TERM BREAK	SA 5	51	TU 5	VVA/PRACT END	TH 5	
SA 6	FACULTY MEETING	TU 6	22	FR 6		SU 6		WE 6	REMEDIAL CLASSES	FR 6	
SU 7		WE 7	23	SA 7		MO 7	52	TH 7	REMEDIAL CLASSES	SA 7	
MO 8	CLASSES BEGIN	TH 8	24	SU 8		TU 8	DASHAHARA	FR 8	REMEDIAL CLASSES	SU 8	
TU 9	2	FR 9	DEFaulter ALERT-1	MO 9	REGULAR ACADEMIC TIME TABLE AND MID TERM SUBMISSIONS	WE 9	53	SA 9		MO 9	
WE 10	3	SA 10		TU 10	MOHARRAM TAJIYA	TH 10	54	SU 10		TU 10	
TH 11	4	SU 11		WE 11	REGULAR ACADEMIC TIME TABLE AND MID TERM SUBMISSIONS	FR 11	DEFALTERS LIST	MO 11	REMEDIAL CLASSES	WE 11	
FR 12	5	MO 12	BAKARI EID	TH 12		SA 12		TU 12	GURU NANAK JAYANTI	TH 12	
SA 13		TU 13	IA I FOR SE AND TE	FR 13		SU 13		WE 13	REMEDIAL CLASSES	FR 13	
SU 14		WE 14		SA 14		MO 14		TH 14		SA 14	
MO 15	6	TH 15	INDEPENDENCE DAY	SU 15		TU 15		FR 15		SU 15	
TU 16	7	FR 16	IA I FOR SE AND TE	MO 16	40	WE 16		SA 16		MO 16	
WE 17	8	SA 17	Parsi NEW YEAR	TU 17	41	TH 17	STUDY CAMP	SU 17		TU 17	
FR 18	9	SU 18		WE 18	42	FR 18		MO 18	EXAMS BEGIN	WE 18	
TH 19	10	MO 19	26	TH 19	43	SA 19	61 SUBMISSIONS/FSS	TU 19		TH 19	
SA 20	FSS	TU 20	27	FR 20	44	SU 20		WE 20		FR 20	
SU 21		WE 21	28	SA 21	FSS	MO 21	62 SUBMISSIONS	TH 21		SA 21	
MO 22	BE CLASSES BEGIN	TH 22	29	SU 22		TU 22	VIVA/PRACT BEGIN	FR 22		SU 22	
TU 23	12	FR 23	30	MO 23	45	WE 23		SA 23		MO 23	
WE 24	13	SA 24	PTMFSS	TU 24	46	TH 24		SU 24		TU 24	
TH 25	14	SU 25		WE 25	47	FR 25		MO 25		WE 25	CHRISTMAS
FR 26	15	MO 26	REGULAR ACADEMIC TIME TABLE AND IA I FOR BE	TH 26	48	SA 26		TU 26		TH 26	
SA 27		TU 27		FR 27	49	SU 27		WE 27		FR 27	
SU 28		WE 28		SA 28		MO 28	DIWALI	TH 28		SA 28	
MO 29	16	TH 29		SU 29		TU 29		FR 29		MO 29	
TU 30	17	FR 30		MO 30	IA II SE,TE,BE & IA I FE	WE 30	VIVA/PRACT CONTINUE	SA 30		TU 30	
WE 31	18	SA 31		TH 31		TH 31		SA 31		TU 31	

INDICATES TENTATIVE SCHEDULE, COULD UNDERGO CHANGES AS PER EXIGENCIES

- NOTES:
1. STAFF TO REJOIN FOR EVEN SEMESTER ON 02 JANUARY, 2020
  2. INSTRUCTION FOR EVEN SEMESTER TO START FROM 06 JANUARY, 2020

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**PILLAI COLLEGE OF ENGINEERING, NEW PANVEL**  
**TENTATIVE TERM CALENDAR JAN-JUNE 2020 FOR FE, SE, TE & BE**

JAN		FEB		MARCH		APRIL		MAY		JUNE	
WE 1		SA 1		SU 1		WE 1	IA TEST II	FR 1	MAHARASHTRA DIN	MO 1	
TH 2		SU 2		MO 2	30	TH 2	SHRIRAM NAVAMI	SA 2		TU 2	
FR 3		MO 3	18	TU 3	31	FR 3		SU 3		WE 3	
SA 4		TU 4		WE 4	32	SA 4	IA TEST II	MO 4		TH 4	
SU 5		WE 5		TH 5	33	SU 5		TU 5	THEORY EXAM STARTS	FR 5	
MO 6	STAFF RETURN	TH 6	ALEGRIA 2020	FR 6	34	MO 6	MAHAVIR JAYANTI	WE 6		SA 6	
TU 7		FR 7		SA 7		TU 7	50	TH 7	BUDHDH PORNIMA	SU 7	TERM ENDS
WE 8	CTFC	SA 8		SU 8		WE 8	51	FR 8		MO 8	
TH 9	1 CLASSES BEGIN	SU 9		MO 9	PBL MIDTERM EVALUATION	TH 9	52	SA 9		TU 9	
FR 10	2	MO 10	19	TU 10	DHULIVANDAN	FR 10	GOOD FRIDAY	SU 10		WE 10	
SA 11	STAFF MEETING / FSS	TU 11	20	WE 11	36	SA 11		MO 11		TH 11	
SU 12		WE 12	21	TH 12	37	SU 12		TU 12		FR 12	
MO 13	3	TH 13	22	FR 13	DEFaulter ALERT-II	MO 13	INTENSIVE STUDY/STUDY CAMP/PBL EVALUATION	WE 13		SA 13	
TU 14	4	FR 14	DEFaulter ALERT-I	SA 14	PTM / FSS	TU 14	AMBEDKAR JAYANTI	TH 14		SU 14	
WE 15	5	SA 15	FSS	SU 15		WE 15	INTENSIVE STUDY/STUDY CAMP/PBL EVALUATION	FR 15		MO 15	
TH 16	6	SU 16		MO 16	39	TH 16		SA 16		TU 16	
FR 17	7	MO 17	24	TU 17	40	FR 17	56 SUBMISSIONS	SU 17		WE 17	
SA 18		TU 18	25	WE 18	41	SA 18	57 SUBMISSIONS	MO 18		TH 18	
SU 19		WE 19	SHIV JAYANTI	TH 19	42	SU 19	VIVA/PRACT BEGIN	TU 19		FR 19	
MO 20	PBL PROBLEM STATEMENTS	TH 20	26	FR 20	43	MO 20		WE 20		SA 20	
TU 21	9	FR 21	MAHASHIVARATRI	SA 21		TU 21		TH 21		SU 21	
WE 22	10	SA 22		SU 22		WE 22		FR 22		MO 22	
TH 23	11	SU 23		MO 23	44	TH 23		SA 23		TU 23	
FR 24	12	MO 24	27	TU 24	45	FR 24		SU 24		WE 24	
SA 25	COMMUNITY SERVICE DAY/UBERRANG	TU 25	28	WE 25	GUDHIPADAWA	SA 25		MO 25	RAMAZAN EID	TH 25	
SU 26	REPUBLIC DAY	WE 26	29	TH 26	46	SU 26		TU 26		FR 26	
MO 27	13	TH 27		FR 27	47	MO 27	VIVA/PRACT END	WE 27		SA 27	
TU 28	14	FR 28	IA TEST I	SA 28		TU 28		TH 28		SU 28	
WE 29	15	SA 29		SU 29		WE 29		FR 29		MO 29	
TH 30	16			MO 30	48	TH 30		SA 30		TU 30	
FR 31	17			TU 31	49			SU 31			

INDICATES TENTATIVE SCHEDULE, COULD UNDERGO CHANGES AS PER EXIGENCIES

9<sup>TH</sup> MARCH TO 14<sup>TH</sup> MARCH: MID TERM SUBMISSIONS

- NOTES:
1. STAFF TO REJOIN FOR ODD SEMESTER ON 02 JULY, 2020
  2. INSTRUCTION FOR ODD SEMESTER TO START FROM 06 JULY, 2020.

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23. Attainment of Programme outcomes, Programme specific outcomes and course outcomes:  
**Not available as of now**

24. Result Analysis: ODD SEM 2019-20

<b>Program Code</b>	<b>Program Name</b>	<b>Level/Semester</b>	<b>Number of students appeared in the exam</b>	<b>Number of students passed in the exam</b>
EXTC	Electronics and Telecommunication Engineering	VII	136	112
EXTC	Electronics and Telecommunication Engineering	V	146	103
EXTC	Electronics and Telecommunication Engineering	III	115	54

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

<b>SN</b>	<b>Name of the Project/ Endowments, Chairs</b>	<b>Name of the Principal Investigator</b>	<b>Department of Principal Investigator</b>	<b>Year of Award</b>	<b>Funds provided</b>	<b>Duration of the project</b>	<b>Name of the Funding Agency</b>	<b>Type (Government/non-Government)</b>	<b>Relevant Document link</b>
1	MODRO B	Dr. Avinash R. Vaidya	EXTC	2019-20	15.13L	2 Years	AICTE	Govt	<a href="https://drive.google.com/file/d/1ndmyo1iTFsap4OsLO5sN0Yz9MXMuqiEr/view?usp=sharing">https://drive.google.com/file/d/1ndmyo1iTFsap4OsLO5sN0Yz9MXMuqiEr/view?usp=sharing</a>

26. Details of the teachers recognized as research guides:

SN	Name of teachers recognized as research guides	PG / PhD Recognition	Department	Year of Recognition
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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	2019-20	Short Term Training Program On Management Information System	01.07.2019 to 05.07.2019	<a href="#">View</a>
2	2019-20	FDP on Antenna Design and Troubleshooting	03.06.2020 to 07.06.2020	<a href="https://drive.google.com/file/d/1zZN24GmLG4NifZ3oKxzUMjE9WnV4u7pK/view?usp=sharing">https://drive.google.com/file/d/1zZN24GmLG4NifZ3oKxzUMjE9WnV4u7pK/view?usp=sharing</a>
3	2019-20	Antenna Design through Simulation using TaraNG: 19.1	18 May 2020	<a href="https://drive.google.com/file/d/1wjX212mQ-fcr7XdofbRQ5ZwmpZvDXpeR/view?usp=sharing">https://drive.google.com/file/d/1wjX212mQ-fcr7XdofbRQ5ZwmpZvDXpeR/view?usp=sharing</a>
4	2019-20	Session on ANSYS solution for 5G technology	4 May 2020	<a href="https://drive.google.com/file/d/1JLBAxgTYTQuOO492o-88UOpfyanYxnX/view?usp=sharing">https://drive.google.com/file/d/1JLBAxgTYTQuOO492o-88UOpfyanYxnX/view?usp=sharing</a>
5	2019-20	Faculty Development Program on SCILAB	11th may to 15th May 2020	<a href="https://drive.google.com/file/d/1_N1uZGyChXeVQ_T9mYV3I1mYvsKvgIkE/view?usp=sharing">https://drive.google.com/file/d/1_N1uZGyChXeVQ_T9mYV3I1mYvsKvgIkE/view?usp=sharing</a>
6	2019-20	ANTENNA DESIGN THINKING 2.0	14 Sept to 22 Sept 2019	<a href="#">Antenna Design Thinking Report</a>

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
	NA		

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	Design and Performance Improvements in an A6 Relativistic Magnetron Using Particle-in-cell Code	Tusharika S. Banerjee, Arti Hadap, Ayush Saxena & K.T.V. Reddy	EXTC	Journal of Electrical and Electronic Engineering-Horizon Research Publishing Corporation,USA	2019-20	ISSN:2332-3280	<a href="#">View</a>
2	Particle-In-Cell Simulation of a RBWO with Experimental Voltage Input Pulse and External Magnetic Field	Tusharika S. Banerjee, Arti Hadap, Ayush Saxena & K.T.V. Reddy	EXTC	Physics Open - Elsevier	2019-20	ISSN 2666-0326	<a href="#">View</a>
3	Sheet Beam Driven Metamaterial based Backward Wave Oscillator	Tusharika S. Banerjee, Arti Hadap, Ayush Saxena & K.T.V. Reddy	EXTC	Accepted at IEEE International Conference on Plasma Sciences-2020 under Nuclear Plasma Sciences society for full paper – Oral Presentation at Singapore	2019-20		

4	Enhanced efficiency of C-band Sheet Beam Driven Backward Wave Oscillator Guided by Periodic Magnetic Field	Tusharika S. Banerjee, Arti Hadap, Ayush Saxena & K.T.V. Reddy	EXTC	Communicated on 05.03.2020 (received reviews) from Microwave and Optical Technology Letters-Wiley Publications	2019-20		
5	Performance analysis of Image coding methods using wavelet and noise shaping	Suchitra A. Patil	EXTC	IEEE and International conference on Inventive systems and control 2020	2019-20		
6	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	Dr. Sanjeev Kumar Srivastava	EXTC	Springer Journal on Smart Trends for Computing and Communication	2019-20		<a href="https://drive.google.com/file/d/1b7rYK7o83bQXVko482hZcwuXO-9-J8XN/view?usp=sharing">https://drive.google.com/file/d/1b7rYK7o83bQXVko482hZcwuXO-9-J8XN/view?usp=sharing</a>
7	Study and Analysis of NOMA downlink transmission model in 5G wireless system	Dr. Sanjeev Kumar Srivastava	EXTC	Journal on Information and Communication Technique for sustainable development Springer (Accepted)	2019-2020		<a href="https://drive.google.com/file/d/1YCA7IxuyVXkb-fkaokW-LldwuB1aN6Xp/view?usp=sharing">https://drive.google.com/file/d/1YCA7IxuyVXkb-fkaokW-LldwuB1aN6Xp/view?usp=sharing</a>

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. Avinash Vaidya	Antenna Test Measurement society India	Design and testing of Dielectric loaded high gain	ATMS	ATMS India	International	25-27 July 2019	ATMS India	Antenna Test Measurement society India	ATMS	<a href="https://drive.google.com/file/d/13oH0SGKEhTQw7x">https://drive.google.com/file/d/13oH0SGKEhTQw7x</a>

			Microstrip Antenna								<a href="https://drive.google.com/file/d/1E17glglTcdExhtyQuG/view?usp=sharing">E17glglTcdExhtyQuG/view?usp=sharing</a>
2	Prof .Ishmeet Singh	Antenna Test Measurement society India	Design and testing of Dielectric loaded high gain Microstrip Antenna	ATMS	ATMS India	International	25-27 July 2019	ATMS India	Antenna Test Measurement society India	ATMS	<a href="https://drive.google.com/file/d/13oH0SGKEhTQw7xE17glglTcdExhtyQuG/view?usp=sharing">https://drive.google.com/file/d/13oH0SGKEhTQw7xE17glglTcdExhtyQuG/view?usp=sharing</a>

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	Unnat Bharat Abhiyan	NSS PCE	18 Jan 2020	10	80
2	Plastic Awareness Drive	NSS PCE	5 Oct 2019	30	500
3	Jumble sale MES donation Cherity Event	NSS PCE	16 Oct 2019	20	300
4	Mini Marathon Run for Clean city	NSS PCE	14 Dec 2019	02	50

5	Tree Plantation and river clean drive	NSS PCE	11 January 2020	5	150
6	Women's day Celebration	ETSA Student Council	9 March 2020	30	10

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
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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	Unnat Bharat Abhiyan	NSS PCE	18 Jan 2020	10	80
2	Plastic Awareness Drive	NSS PCE	5 Oct 2019	30	500
3	Jumble sale MES donation Charity Event	NSS PCE	16 Oct 2019	20	300
4	Mini Marathon	NSS PCE	14 Dec 2019	02	50

	Run for Clean city				
5	Tree Plantation and river clean drive	NSS PCE	11 January 2020	5	150
6	Workshop on Reinventing Yourself	PCE	27th May 2020	10	

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	Unnat Bharat Abhiyan	NSS PCE		18 Jan 2020	80
2	Plastic Awareness Drive	NSS PCE		5 Oct 2019	500
3	Jumble sale MES donation Charity Event	NSS PCE		16 Oct 2019	300
4	Mini Marathon Run for Clean city	NSS PCE		14 Dec 2019	50
5	Tree Plantation and river clean drive	NSS PCE		11 January 2020	150

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

Sl. 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
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1	Industrial Visit	Doordarshan Sahyadri Kendra	2019	10 Oct 2019	Industrial Visit
2	Industrial Visit	CIBA	2020	24 Jan 2020	Industrial Visit
3	Internship	MSLDC	2020	12/02/2020 TO 14/02/2020	Internship
4	Internship	BARC	2020	01/06/2020 TO 31/07/2020	Internship
	Internship	BARC	2020	01/06/2020 TO 31/07/2020	Internship
5	Internship	JSW Steels Ltd, Dolvi	2019	08/07/2019 to 21/07/2019	Internship
6	Internship	Divisional Engineer, S M, BSNL, Thane	2019	03/09/2019 to 07/09/2019	Internship
	Internship	Divisional Engineer, S M, BSNL, Thane	2019	03/09/2019 to 07/09/2019	Internship
7	Internship	HRDD, BARC Training School, Mumbai-400084	2019	1/12/2019 to 31/12/2019	Internship
8	Internship	Reliance Corporate (IT) Pvt. Ltd, Ghansoli, Navi Mumbai	2019	01/12/2019 to 15/12/2019	Internship
9	Internship	Semikron Electronics Pvt. Ltd, Mahape	2020	02/12/2019 to 29/05/2020	Internship
10	Internship	HRDD BARC, BARC Training School	2020	01/12/2019 to 01/01/2020	Internship
	Internship	HRDD BARC, BARC	2020	01/12/2019	Internship

		Training School		to 01/01/2020	
11	Internship	M/s. Instakart Services Pvt Ltd, Rasayani		45 days internship	Internship
12	Internship	JNPT, Navi Mumbai	2020	08/12/2019 to 02/01/2020	Internship
	Internship	JNPT, Navi Mumbai	2020	08/12/2019 to 02/01/2020	Internship
	Internship	JNPT, Navi Mumbai	2020	08/12/2019 to 02/01/2020	Internship
13	Internship	Power Grid Corporation of India Limited, Jammu-180012	2020	17/12/2019 to 17/01/2020	Internship
14	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli	2020	15/12/2019 to 01/01/2020	Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli	2020	15/12/2019 to 01/01/2020	Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli	2020	15/12/2019 to 01/01/2020	Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd	2020	01/12/2019 to 01/01/2020	Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli	2020	01/12/2019 to 01/01/2020	Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli	2020	01/12/2019 to 01/01/2020	Internship

15	Internship	Central Railway, SanpadaCarshed	2019	01/12/2019 to 16/12/2019	Internship
	Internship	Central Railway, SanpadaCarshed	2019	01/12/2019 to 16/12/2019	Internship
16	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli			Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli			Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli			Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli			Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli			Internship
	Internship	Maharashtra State Electricity Transmission Co. Ltd, Airoli			Internship
17	Internship	Training and Industrial Engg.Dept,BEST Training and Industrial Dept	2019	02/12/2019 to 16/12/2019	Internship
18	Internship	7D, Thacker Industrial Estate	2020	21/12/2019 to 20/01/2020	Internship
19	Internship	Siemens Ltd.,, Kharghar,	2019	11/12/2019 to 30-12/2019.	Internship
20	Internship	Reliance Corporate (IT) Pvt. Ltd.,	2019	28/11/2019 to 15/12/2019	Internship
21	Internship	CWM,Matunga Central Railway Workshop,	2019	01/12/2019 to 15/12/2019	Internship

	Internship	CWM,Matunga Central Railway Workshop,	2019	01/12/2019 to 15/12/2019	Internship
22	Internship	Hindustan Coca-Cola Beverages India Pvt. Ltd.,	2019	15/12/2019 to 30/12/2019	Internship
23	Internship	Vision Electronics Pvt. Ltd.,Rabale MIDC, Plot No. 35,	2019	29/11/2019 to 28/12/2019	Internship
	Internship	Vision Electronics Pvt. Ltd.,Rabale MIDC, Plot No. 35,	2019	29/11/2019 to 28/12/2019	Internship
	Internship	Vision Electronics Pvt. Ltd.,Rabale MIDC, Plot No. 35,	2019	30/11/2019 to 29/12/2019	Internship
	Internship	Vision Electronics Pvt. Ltd.,Rabale MIDC, Plot No. 35,	2019	30/11/2019 to 29/12/2019	Internship
	Internship	Vision Electronics Pvt. Ltd.,Rabale MIDC, Plot No. 35,	2019	30/11/2019 to 29/12/2019	Internship
24	Internship	Doordarshan Kendra,T. V. Tower, Kachari Road	2020	08/12/2019 to 08/01/2020	Internship
25	Internship	SenegyIntellution Pvt. Ltd.,Shah Industrial Estate,	2020	03/01/2020 to 30/01/2020 .	Internship
26	Internship	HRDD, BARC,BARC Training School,	2020	01/06/2020 to 30/07/2020 .	Internship
27	Internship	S & T Workshop Railway,Central Railway Workshop,	2019	04/12/2019 to 18/12/2019	Internship

				.	
	Internship	S & T Workshop Railway,Central Railway Workshop,	2019	04/12/2019 to 18/12/2019 .	Internship
	Internship	S & T Workshop Railway,Central Railway Workshop,	2019	04/12/2019 to 18/12/2019 .	Internship
28	Internship	BSNL,Deonar Village Road, Deonar, Hira Automation Pvt. Ltd.,Jambhurwadi Road, AmbegaonKhurd,	2020	09/12/2019 to 05/01/2020 .	Internship
29	Internship	Siemens Ltd., Thane-Belapur Road, Siemens Ltd., Thane-Belapur Road,	2019	11/12/2019 to 30/12/2019	Internship
30	Internship	BARC Training School,Anushakti Nagar,Mumbai-400094.	2020	01/06/2020 to 31/07/2020	Internship
	Internship	BARC Training School,Anushakti Nagar,Mumbai-400094.	2020	01/06/2020 to 31/07/2020	Internship
31	Internship	The Manager (HR)Maharashtra State Load Despatch Centre,MSEB Complex, Opp. Thane – Belapur Rd.,Airoli, Navi Mumbai – 400 708 (MH)	2020	13/01/2020 to 25/02/2020	Internship
32	Internship	BARC Training School,Anushakti Nagar,Mumbai-400094.	2020	20/05/2020 to 14/07/2020	Internship
	Internship	BARC Training School,Anushakti Nagar,Mumbai-400094.	2020	20/05/2020 to 14/07/2020	Internship

	Internship	BARC Training School, Anushakti Nagar, Mumbai-400094.	2020	01/06/2020 to 31/07/2020	Internship
33	Internship	The HR OB Energy Research Enterprises, PAPRA 523, MIDC, Rabale, Navi Mumbai – 400 701 (MH)	2020	13/01/2020 to 25/02/2020	Internship
34	Internship	Reliance Corporate (IT) Pvt. Ltd., Reliance Corporate Park, Elastomer Business Group, 8A-FF, TC-22, Thane Belapur Road, Ghansoli, Navi Mumbai – 400 701 (MH)	2019	15/12/2019 till 31/12/2019	Internship
35	Internship	Head of S & T Dept. Central Railway, Signal and Telecomm Dept., CSMT, Mumbai – 400 001 (MH)	2019	11/12/2019 to 03/01/2020	Internship
36	Internship	BARC Training School, Anushakti Nagar, Mumbai-400094.	2019	12/12/2019 to 15/01/2020	Internship
37	Internship	AbakElectrofab Engineering Pvt. Ltd., C-416/417, MIDC, TIC, Turbhe, Navi Mumbai – 400 705 (MH)	2019	02/12/2019 to 28/12/2019	Internship
	Internship	AbakElectrofab Engineering Pvt. Ltd., C-416/417, MIDC, TIC, Turbhe, Navi Mumbai – 400 705 (MH)	2019	02/12/2019 to 28/12/2019	Internship
	Internship	AbakElectrofab Engineering Pvt. Ltd., C-416/417, MIDC, TIC, Turbhe, Navi Mumbai – 400 705 (MH)	2019	02/12/2019 to 28/12/2019	Internship
	Internship	AbakElectrofab Engineering Pvt. Ltd., C-416/417, MIDC,	2019	02/12/2019 to	Internship

		TIC, Turbhe, Navi Mumbai – 400 705 (MH)		28/12/2019	
	Internship	AbakElectrofab Engineering Pvt. Ltd., C-416/417, MIDC, TIC, Turbhe, Navi Mumbai – 400 705 (MH)	2019	02/12/2019 to 28/12/2019	Internship
38	Internship	IMMECULATE A-703, Satyasiddhi CHS, Sector-11, Kalamboli Navi Mumbai- 410218	2020	5/12/2019 to 5/01/2020	Internship
39	Internship	Larsen & Toubro L&T, Saki Vihar Road, Powai, Mumbai – 400 072 (MH)	2019	09/12/2019 to 27/12/2019	Internship
40	Internship	OnidaMirc Electronics Ltd., Bhivandi Wada Rd., Kudus, Tal. Wada Plaghar – 421 312 (MH)	2020	10/12/2019 to 10/01/2020	Internship

36. 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	Relevant Document Proof
1	BridgeLabz solution LLP	BridgeLabz solution LLP	15 January 2020	01 year	1. Campus recruitment 2. Training 3. Workshop		<a href="https://drive.google.com/file/d/11yLRZ6-urv29qZBvLDPsXNVc2RuNH7vH/view?usp=sharing">https://drive.google.com/file/d/11yLRZ6-urv29qZBvLDPsXNVc2RuNH7vH/view?usp=sharing</a>
2	CISCO	Mahatma Education	2018-19	01 Year	IoT Connecting Things , Big Data	03 faculties,	<a href="https://drive.google.com/file/d/11B6HHd00">https://drive.google.com/file/d/11B6HHd00</a>

		Society			& Analytics Instructor Training ,CCNA R & S Instructor Training	50 students	<a href="http://www.ywrBbpgGZr2jJ5aSlWhciT6J/view?usp=sharing">ywrBbpgGZr2jJ5aSlWhciT6J/view?usp=sharing</a>
3	Access Telematic System voice and data	Access Telematic System, Mumbai	2018-19	05 years	1. Internships for students, 2 Development of projects, 3.Live projects at client locations,4. Training and workshops.	internship for 15 students	<a href="https://drive.google.com/open?id=1ho0VA MfcEQixurrHK0oPe-jjTQo-aWiQ">https://drive.google.com/open?id=1ho0VA MfcEQixurrHK0oPe-jjTQo-aWiQ</a>
4	Franklin Electric Grid Solutions	Pillai College of Engg	2018-19	03 Years	Summer internship for third year students	R&D in EXTC Engineering and skill development programme	<a href="https://drive.google.com/open?id=1IwCXnWlejS EwA-5vTOhMziONbMnE XYd">https://drive.google.com/open?id=1IwCXnWlejS EwA-5vTOhMziONbMnE XYd</a>
5	Microchip Technology Inc.	Microchip Technology Inc.	2018-19	2 Year	BE projects and student internship	50 to 100 students	<a href="https://drive.google.com/open?id=1yW1yp lae61PizYu-ob0Ky-sba7J8SCe3">https://drive.google.com/open?id=1yW1yp lae61PizYu-ob0Ky-sba7J8SCe3</a>
6	SAP Education University Partner	SAP Education Pvt.Ltd	2016-17	1year	e learning centre and sap student Academy course	100 students	<a href="https://drive.google.com/open?id=1oA1jIBj1lPI6le0x2LAlq6OIr wkRUVFj">https://drive.google.com/open?id=1oA1jIBj1lPI6le0x2LAlq6OIr wkRUVFj</a>
7	Reliance Jio Infocomm Limited	Reliance Pvt.Ltd.	2014-15	3 Years	Course program on IPR	100 Students	<a href="https://drive.google.com/open?id=0B9h6lmdZEBImNIVleEVV VWh5d3hWcVdJUFhERFN6TlpSNjNR">https://drive.google.com/open?id=0B9h6lmdZEBImNIVleEVV VWh5d3hWcVdJUFhERFN6TlpSNjNR</a>

37. 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 : 6
- 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

38. Student – Computer ratio:

<b>Total Number of students</b>	<b>Number of computers for students in working condition</b>	<b>Student Computer Ratio</b>
397	116	3.42:1

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

<b>Name of the e-content development facilities</b>	<b>Provide link to videos of the media center and recording facility</b>
Harsha Sharma	<a href="#">Link</a>
Yogesh Kene	<a href="#">Link</a>

40. Details of maintenance of laboratory and classrooms:

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

<b>Name of Scheme</b>	<b>Number of Students benefited by government scheme(scholarship)</b>	<b>Number of Students benefited by government</b>	<b>State minority scholarship</b>	<b>Merit cum means scholarship</b>
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		<b>scheme(Freeship)</b>		
OBC	10	29		
SC	07	07		
VJNT	01	05		
SBC	01	01		
EBC	147			

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

<b>Name of the scheme with contact information</b>	<b>Number of students benefited by non-government schemes</b>
Felicitation of Toppers	7
Academic Advance Scheme	98
Coursera	320
<b>TOTAL</b>	<b>425</b>

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

<b>Name of the capability enhancement scheme</b>	<b>Year of implementation</b>	<b>Number of students enrolled</b>	<b>Name of the agencies involved with contact details</b>
LATEX	2019-20	27	ETSA
Arduino-01	2019-20	29	ETSA

Arduino-02	2019-20	33	ETSA
IV to Doordarshan Sahyadri kendra	2019-20	42	ETSA
ETSA TALKS	2019-20	120+	ETSA
CIBA Industrial Visit	2019-20	46	ETSA
IoT Workshop	2019-20	19	ETSA
Big Data Workshop	2019-20	16	IEEE PCE
ZinZout talk	2019-20	45	IEEE PCE
Robotics workshop	2019-20	10	IEEE PCE
IEEE Day	2019-20	40+	IEEE PCE

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

<b>Year</b>	<b>Name of the scheme</b>	<b>Number of students benefitted /attended/participated by career counseling/Competitive exam activities</b>
2019-20	CV writing workshop	46
2019-20	Session on GATE exam Preparation	57

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

<b>Number of students attending VET</b>	<b>Total number of students</b>
NIL	<b>397</b>

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

<b>No. of grievances appealed</b>	<b>No. of grievances redressed</b>	<b>Average time for grievance redressal in number of days</b>
-	-	-

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

<b>Number of students placed</b>	<b>Name of the employer with contact details</b>	<b>Package received</b>	<b>Program graduated from</b>
3	LTI	3.18 LPA	EXTC
5	TCS	3.36 LPA	EXTC
5	Reliance Retail	3.50 LPA	EXTC
2	QSPIDERS	2.5 LPA	EXTC
1	NEXA	1.2 LPA	EXTC
1	Reliance Jio Infocomm	3.5 LPA	EXTC
4	Sutherland Global	2.5 LPA	EXTC
1	Aditya Birla Science	1.2 LPA	EXTC
1	Hexaware Technologies	3.13 LPA	EXTC
2	PINCLICK	3.72	EXTC
1	UST Global	3.5 LPA	EXTC

1	CAPGEMINI	3.8 PLA	EXTC
4	Commedia solutions Pvt ltd.	1.68 LPA	EXTC
2	Aegis school of business	2.8 LPA	EXTC
2	Global cloud Exchange	1.2 LPA	EXTC
1	Aurionpro Solutions	1.92 LPA	EXTC
1	Quess Corp Ltd.	2.1LPA	EXTC
1	NIREEKSHAN ENGINEERS & SURVEYORS	2-0 LPA	EXTC
1	TSS consulting	3.0 LPA	EXTC
1	MT Educare Ltd.	1.8 LPA	EXTC
1	Reliance Jio	3.5 LPA	EXTC
1	TEAM COMPUTERS	2.0 LPA	EXTC
1	MARQUIS TECHNOLOGIES PVT LTD	1.7 LPA	EXTC

48. Details of the students going for higher education:

<b>Number of students enrolling into higher education</b>	<b>Program graduated from</b>	<b>Department graduated from</b>	<b>Name of institution joined</b>	<b>Name of program admitted to</b>
<b>NIL</b>				

49. 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	
			0	0	0	11	09/05	0	

50. 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 "Man of the match" award for university qualifiers in Mumbai University Football Men 2019-20 held on 16th to 18th October 2019.	Zonal	Sports	Akanksh Harish	1	2018PE0213

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

ETSA is an association formed by the students of **EXTC** & **ETRX** to foster the growth of knowledge in the field amongst the students. The ETSA committee is guided by ETSA co-ordinator **Prof. Apeksha Chavan** and supervised by **Dr. Avinash Vaidya, HOD (EXTC)**. Here's the list of students of **ETSA core committee** students for the year **2019-20**.

### **ETSA CORE COMMITTEE MEMBERS 2019-2020**

ETSA is an association formed by the students of **EXTC & ETRX** to foster the growth of knowledge in the field amongst the students. The ETSA committee is guided by ETSA co-ordinator **Prof. Apeksha Chavan** and supervised by **Dr. Avinash Vaidya, HOD (EXTC)**. Here's the list of students of **ETSA core committee** students for the year **2019-20**.

### **ETSA CORE COMMITTEE MEMBERS 2019-2020**

<b>Sr. No.</b>	<b>Post</b>	<b>Name of Students</b>	<b>Class</b>
1.	President	Dikshita Oswal	BE-ETRX
2.	Vice President	Nivedita Kale	TE-EXTC
3.	Secretary	Disha Sengar	BE-EXTC
4.	Joint Secretary	Divya Wairkar	TE-EXTC
5.	Treasurer	Manu Krishnan	BE-EXTC
6.	Joint Treasurer	Sakshi Salvi	TE-EXTC
7.	Technical Head	Omkar Chauhan	BE-EXTC
8.	Joint Technical Head	Shivendra Sharma	TE-EXTC
9.	Event Head	Janhavi Kharmale	TE-EXTC
10.	Joint Event Head	Shrish Singh	TE-EXTC
11.	Magazine Head	Vishal Phalke	BE-EXTC
12.	Graphics Head	Nehal Mejari	TE-ETRX
13.	PRO Head	Priya Saroj	TE-EXTC
14.	Digital Head	Prachi Baingane	TE-EXTC
15.	Photographer	Ashutosh Singh	SE-EXTC

### **Student Council Member from Department 2019-2020**

<b>Sr. No.</b>	<b>Post</b>	<b>Name of Students</b>	<b>Class</b>
1	Social Media Coordinator	Khan Zaid Irfan	TE- EXTC
2	Third Year Representative	P. Jhansi Neha	TE-EXTC

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

<b>Sr No</b>	<b>Name of the Activity</b>	<b>Event Date</b>
1	FE Sports	13- 14 Feb 2020
2	S01 Futsal	4-5 Feb 2020
3	S02 Box Cricket	5-7 Feb 2020
4	S03 Basketball	7 Feb 2020
5	S04 Volleyball	8 Feb 2020
6	S05 Kabaddi	6-7 Feb 2020
7	S06 Tug of War	4 Feb 2020
8	S07 10m Air Rifle Shooting	5-7 Feb 2020
9	S08 Badminton (Girls)	4-5 Feb 2020
10	S09 Badminton (Boys)	4-5 Feb 2020
11	S10 Shotput (Girls)	8 Feb 2020
12	S11 Shotput (Boys)	8 Feb 2020
13	S12 Chess	4-5 Feb 2020
14	S13 Blitz chess	4 Feb 2020
15	S14 Table tennis	5-7 Feb 2020
16	S15 Carrom (singles)	4-5 Feb 2020
17	S16 Carrom (Doubles)	4-5 Feb 2020
18	S17 Devil circuit	6-8 Feb 2020
19	S18 60m sprint	4 Feb 2020
20	S 19 neo shootout	4-6 Feb 2020
21	S20 Neo basketball	7-8 Feb 2020
22	S 21 neo cricket	4-6 Feb 2020
23	S22 Paintball	5-8 Feb 2020
24	Rapping	4 Feb2020
25	Stand-up Comedy	4 Feb2020
26	The War of DJs	4 Feb2020
27	Beat boxing	5 Feb2020
28	Freestyle solo	5 Feb2020

29	Mono Acting	5 Feb2020
30	Freestyle Dance	5 Feb2020
31	Music Band	5 Feb2020
32	Classical Solo	6 Feb 2020
33	Skit	6 Feb2020
34	Duet Dance	7 Feb2020
35	Alegrian Hustle (1 on 1)	7 Feb2020
36	Open mic	8 Feb2020
37	Felicitation of Toppers and Fresher's Day	20 Sept 2020
38	Traditional Day	7th Mar 2020

53. 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	23rd July 2019	Guidance for Final year project selection	Akhil Menon and Vishnu Nair	All Branches	1 Day
2	20 September 2019	Career Opportunities for Engineers in Defence Services	Ramanuj Singh	69	1 Day
3	23rd August and 27th August 2019	Arduino	Ruchira Patole	81	2 Days
4	9th August 2019	LaTeX	Ruchira Patole	27	1 Day
5	6th March 2020	IoT	Ruchira Patole	19	1 Day
6	March 2020	Machine Learning (pending)	Mr. Girish Pillai	24	2 Weeks

7	16th December to 20th December 2019	Python Programming Course	Mr Yogesh Kene	24	1 Week
8	9th December to 14th December 2019	Industrial Internet of Things	Ms Ruchira Patole	30	6 Days
9	9th December to 13th December 2019	Networking and its Fundamentals	Mrs Harsha Ghadge	18 approx	5 Days
10	13th June 2020	Webinar on “Why should they Hire you?”	Mr. Akhil Menon and Mr Vishnu Nair	160+	1 Day

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

<b>Sr. No</b>	<b>Name of teacher</b>	<b>PAN</b>	<b>Name of conference/ workshop attended for which financial support provided</b>	<b>Name of the professional body for which membership fee is provided</b>	<b>Amount of support (REMARK)</b>
1	Dr. Avinash R. Vaidya	AGQPV0116N	ATMS 2019	-----	10,000/- towards registration and partly for travel

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

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) Non Teaching	No of participants (Teaching staff)	No of participants (Non Teaching staff)
1	STTP on "Management Information System" organized by PCE, New Panvel		01 July 2019 to 05 July 2019		4	
2	One day Workshop on "Networking Fundamentals", organised by PCE, New Panvel		01 Feb 2020	01 February 2020	5	
3	Attended a workshop on 'Business Intelligence using Tableau' by PCE		4 Feb 2020		11	
4	Webinar - ANSYS Solutions for 5G Technology		4th May 2020		10	
5	FDP on Scilab		11th to 15th May 2020		9	
6	Webinar on "Antenna Design Through Simulation Using TaraNG:19.1"		18 May 2020		9	
7	Workshop on "Reinventing Yourself", organised by PCE, New Panvel	Workshop on "Reinventing Yourself", organised by PCE, New Panvel	27th May, 2020	27th May 2020	10	3
8	FDP on Antenna Design and Troubleshooting		3rd to 7th June		7	

			2020			
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56. Details of teachers attending professional development Programmes viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes:

<b>Number of teachers who attended</b>	<b>Title of the professional development program</b>	<b>Date and Duration (from – to)</b>
1	NPTEL on Introduction to Research	19th August 2019
1	FDP on Experiential learning, Automation, Machine learning and Business Ethics, at TCS yatra Park	19 August 2019
5	One day Workshop on eSim, a First Course in the IoT Series for Teachers' held at MES Pillai College of Engineering, New Panvel	21st September 2019
1	Two week FDP on Pedagogy on Signal Processing and its application, sponsored by AICTE, New Delhi, at RAIT, Nerul	9th Dec to 20th Dec 2019
1	NPTEL on Effective engineering practice in teaching	January-Feb2019
2	Participated in Unnat Bharat Abhiyan	1Jan2020
	One day seminar on Technology for future cities organised by PCE	8th Jan 2020
1	Orientation Program on NMT by UoM at Don Bosco ,Wadala	08.01.2020
6	One Day Workshop on Arduino 'held at MES Pillai College of Engineering, New Panvel,was organised by the Teaching Learning Centre, ICT at IIT Bombay on 8 February 2020	8 February 2020
3	One Day Workshop on C and C++ held at MES Pillai College of Engineering, New Panvel,organised by the Teaching Learning Centre (ICT) at IIT Bombay,	29 February 2020
3	Workshop on Laser by IWSA	06- 07 March 2020
1	Attended technical webinar on "Robotics using Simscape" organized by Atharva College of Engineering	9th April 2020

1	Special Course on Remote Sensing, GIS and GNSS Technology.	13th to 25th April 2020
1	Attended Webinar on "Intershala classroom" by Internshala	25th April 2020
1	Webinar on Effective Leadership Skills post COVID-19 Pandemic	27 April 2020-29 April 2020
1	2 Day Webinar on "Introduction to Research Designs- from theory to practice" conducted by Elphinstone College, Mumbai	29 and 30th April 2020
1	IIC Online Sessions conducted by Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi	28 April-22nd May
2	FDP on "R programming" organized by Pillai College of Engineering in association with Spoken Tutorial IITB.	29th April to 3rd May 2020
1	India First Leadership Talk	2 May 2020
1	Scilab FDP AISSMS & Spoken Tutorial Project, IIT Bombay.	4-9May 2020
1	Attended Webinar on "New Product Development Project Management" organized by Aarupadai Veedu Institute of Technology (AVIT), Chennai	4th May 2020
1	Attended Webinar on " How to build and equip career in these changing times" organized by Aarupadai Veedu Institute of Technology (AVIT), Chennai	4th May 2020
1	Attended Webinar on " Basic Advanced Hydraulics" organized by Aarupadai Veedu Institute of Technology (AVIT), Chennai	6th May 2020
1	Attended webinar on "Technological Advancements" organized by Vidyavardhini's College of Engineering and Technology, Palghar	5th to 9th May 2020
6	Faculty Development Program on "Research, Funding Projects & IPR "Organized by K. C. College of Engineering & Management Studies & Research, Thane (E)	7th - 10th May, 2020.
4	The webinar of "The Golden Jubilee Talk Series" on Impact of COVID-19 on Placements & Internships; Action Plan held on 8th May,2020	8th May,2020
1	Attended Webinar on " Entrepreneurship Turning a bright idea into successful business " organized by Aarupadai Veedu Institute of Technology (AVIT), Chennai	8th May 2020
1	International FDP on "Disruptive technologies" organized by Industry Academia Cell, Electronics and Communication Engineering,Aarupadai Veedu Institute of Technology (AVIT), Chennai	8th May to 16th May 2020
1	India First Leadership Talk	9 May 2020
1	Managing Exam Stress and optimizing mental well being by PCE and PHCET,Panvel	11th May,2020

2	FDP on "Digital teaching and learning Environment" organized by department of BCOM in association with MUCTA, PCACS, New Panvel	11th to 13th May 2020
1	Attended Webinar on " Basics of Machining" organized by CIT,Chennai	15th May 2020
2	India First Leadership Talk	16 May 2020
2	Workshop on "Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop" organised by the Teaching Learning Centre (ICT) at IIT Bombay,funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), MHRD, Govt. of India.	17th May 2020
5	STTP on " Matlab based teaching-learning in Mathematics, Science and Engineering" organized by RAIT, Nerul	18th to 22nd May 2020
1	FDP on "Data Science and Cloud Computing" organized by Department of Computer Science and Engineering, CEC, Guntur, A.P	18th May to 22nd May 2020
1	FDP on " Big Data Tools" organized by St. Martin's Engineering College, Secunderabad	18th to 23rd May 2020
3	Webinar on "Search BeyondGoogle" organized by the Library of PHCASC in association with Internal Quality Assurance Cell (IQAC) on May 19, 2020.	19th May 2020
1	FDP on "Mastering the arts of handling post Covid challenges for sustainable development" organised by Dr. M.G.R Educational and Research Institute, Chennai	19th to 23rd May 2020
2	Focus in and get problems out with a Self Coaching Toolkit by PIMSR,Panvel	20th May,2020
1	Role of Electronics and Telecommunication Engineers in Industrial Automation by KCCOEMSR, Thane(E)	20th May,2020
2	Webinar on IPR and Patenting by HOC Polytechnic	21/5/2020
1	Attended webinar on "Introduction to functioning of IOS and MacOS" organized by Sri Venkatesa Perumal College of Engineering & Technology,Puttar	22nd May 2020
2	Attended webinar series on "Modern Antennas for Wireless Systems" organized by Shri Ramdeobaba College of Engineering and Management, Nagpur	22nd to 24th May 2020
2	India First Leadership Talk	23 May 2020
1	Webinar Series on Machine Learning and Artificial Intelligence organised by SPIT	23rd May to 27th May 2020
1	Attended webinar on "Future of food technology post COVID 19" organized by Guru Nanak Khalsa College of Arts, Science & Commerce (Autonomous), Matunga, Mumbai	24th May 2020

3	Online teaching and learning using Google classroom and Google meet	24th MAY 2020
1	Attended 5 days webinar series on organized by St. John College of Engineering and Management,Palghar	24th to 28th May 2020
1	FDP on " Applications of G-SUITE Education" organized by Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada	25th to 26th May 2020
1	International FDP on " Innovative trends in Engineering and Technology" organized by Shree L.R. Tiwari College of Engineering, Mira Road	25th to 29th May 2020
1	FDP on "Python 3.4.3" organised by Prakasam Engineering College,Kakinada in association with Spoken Tutorials, MHR,Govt. of India	25th to 31st May 2020
1	FDP on " Cloud Infrastructure and Virtualization" organized by Institute of Aeronautical Engineering,Hyderabad	25th to 29th May 2020
1	one week Online Faculty Development Program on "Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19" from 25th to 30th May 2020 organized by Department of Electronics Engineering in association with Institution's Innovation Council (IIC) of Vivekanand Education Society's Institute of Technology.	25th May -30th May
1	STTP on " Recent trends and Applications of Machine learning and Deep Learning in IT" organized by RAIT, Navi Mumbai	25th to 29th May 2020
2	Attended webinar on "Impact of Covid 19 on Banking, finance sector and on its future job market " organized by PIMSR, New Panvel	26th May 2020
1	Attended webinar on "A complete report writing workshop on LATEX" organized by Shree L.R. Tiwari College of Engineering, Mira Road, Mumbai	26th May 2020
1	Attended webinar on "Insight into Machine Learning" organized by SCAD College of Engineering and Technology, Tirunelveli, Tamil Nadu	26th May 2020
2	Faculty Development Programme on Signal, Image & Video Processing : A Practical Approach (SIVPAPA - 2020)	26th to 30th May 2020
2	FDP on " Moodle Learning Management System" organised by K. J. Somaiya Institute of Engineering and Information Technology in association with Spoken Tutorials, MHR,Govt. of India	26th to 30th May 2020
2	FDP on " Data Science" organized by Fr. Conceicao Rodrigues College of Engineering (Fr.CRCE) ,Mumbai	26th to 30th May 2020
1	Virtual Labs	27th May 2020
1	Attended webinar on "Deep Learning for Computer Vision" organized by SRI VENKATESWARAA COLLEGE OF TECHNOLOGY,Chennai	27th May 2020
1	Attended webinar on "Forensic Science in Digital World and its Applications" organized by Sri Venkatesa Perumal College of Engineering & Technology,Puttar	27th May 2020

1	Attended webinar series on "Artificial Intelligence and Machine Learning" organized by IEEE SPIT, Mumbai	
1	Attended webinar series on "Vogue of Embedded System" organized by Vidyavardhini's College of Engineering and Technology, Palghar	27th to 29th May 2020
1	Attended webinar on "The future research scientist in the age of AI and Big data" organized by Manav Human Atlas initiative	28th May 2020
1	Attended webinar on "Product Development company opportunities in this pandemic situation" organized by CIT, Chennai	28th May 2020
1	Attended webinar on "Art of Living" organized by K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai	28-29th May 2020
1	Attended webinar on "Hindustani Classical Music and COVID 19 Pandemic" organized by Rajiv Gandhi University, Arunachal Pradesh	28-29th May
1	Attended webinar series on "Education 4.0 Season II" organized by Atharva College of Engineering, Malad, Mumbai	28th to 30th May 2020
1	FDP on " Usage of technology in Covid 19" organized by Terna College of Engineering, Nerul	28th May to 2nd June
1	Attended webinar on "Post COVID 19: Science and Technology" organized by SRM University, AP	29th May 2020
1	Attended webinar on "Analysis of Scientific publications for enhanced visibility" organized by Mizoram University, Aizawl, India	29th May 2020
1	FDP on " Virtual teaching- learning Moodle the efficient way" organized by Dr. M.G.R Educational and Research Institute, Chennai	29th and 30th May 2020
1	One Day Webinar on "Leadership Development In Women Professional Entrants" Organized by Department Of Electronics and Telecommunication, AISSMS COE, Pune in Association with Institution Of Engineers (INDIA), Kolkata	30th May 2020
3	India first leadership talk	30 May 2020
1	Attended webinar on "Knowledge Sharing on A-Z of journal publications" organized by IFERP	30th May 2020
1	Attended webinar on "Health and Nutrition during COVID 19" organized by Shree L.R. Tiwari College of Engineering, Mira Road, Mumbai	30th May 2020
1	FDP on " Blockchain Technology" organized by MITS, Madanapalle	30th and 31st May 2020
1	FDP on "Evolution from offline to online teaching" organized by Satish Pradhan Dnyansadhna College, Thane	30th May to 3rd June 2020
1	Attended webinar on "Emergence of data analytics and its impact on data warehouse" organized by Viva Institute of Technology, Palghar	31st May 2020

1	Attended world's largest sales training webinar conducted by Dr. Vivek Bindra organized by K.C.C.O.E,Thane	31st May 2020
1	Attended webinar on "Embrace Technology" organized by Prathyusa College of Engineering,Chennai	1st June 2020
1	Attended webinar on "Introduction of AI Computer Vision and Robotics" organized by Shivajirao Kadam Institute of Technology & Management - Technical Campus, Indore (SKITM)	1st June 2020
1	Attended 2 Day webinar on "YOGA for holistic health" organized by VESIT-IQAC	1-2nd June 2020
1	3 days National Level ONLINE FDP on "Protecting You in Cyberspace", Organized By PCE	1st - 3rd June, 2020.
3	One week STTP on "Signal & Analysis Machine learning and its application using Python and Matlab" organized by EXTC department , RAIT, Navi Mumbai	1st to 5th June 2020
1	STTP on "Sensor, IoT and e learning" organized by K.J Somaiya College of Engineering, Vidyavihar, Mumbai	1st to 5th June 2020
1	FDP on " Design thinking" organized by MITS School of Business,AP	1st to 5th June 2020
1	FDP on " Engineering Education and Industry-a post COVID 19 perspective" organized by Rajiv Gandhi College of Engineering, Mumbai	1st to 5th June 2020
1	STTP on " Internet of Things " organized by A.G. Institute of Technology, Solapur	1st to 7th June 2020
1	Attended webinar on "How to shoot better photos" organized by SRI VENKATESWARAA COLLEGE OF TECHNOLOGY,Chennai	2nd June 2020
1	Attended webinar on "Sustainable IT in Rural and Remote Environments" organized by Mizoram University, Aizawl, India	2nd June 2020
1	Attended webinar on "Adaptive Signal Processing and its applications" organized by Narayana Engineering College, Gudur	3rd June 2020
1	Attended webinar on "Inspiring Stories about programming in software companies" organized by CIT, Chennai	3rd June 2020
1	FDP on "AWS cloud computing services" organized by JBREC, Hyderabad	3rd June 2020
1	One Week FDP on "RUBY and PERL Programming" conducted by St. Peter Engineering College, Hyderabad in association with Spoken Tutorials, MHR,Govt. of India	3rd to 8th June
1	Attended webinar on "Digital Marketing" organized by ACS College of Engineering, Bangalore	4th June 2020
1	Attended webinar on "Industry 4.0" organized by CIT, Chennai	4th June 2020

1	One week FDP on "E content development in teaching" conducted by Saraswati Kala Mahavidyalaya, Akola	4th to 10th June 2020
1	Attended webinar on "Waste to Energy" organized by MIT, Aurangabad	5th June 2020
1	Attended webinar on "The relevance of contemporary world condition and Gandhian thoughts" organized by R.C.Patel. Arts,Commerce & Science College Shirpur dist- Dhule	5th June 2020
1	FDP on " Introduction to Machine Learning" organized by MITS, Madanapalle	5th to 7th June 2020
1	Attended webinar on "Exploring Emerging dimensions of Electronics" organized by St. John College of Engineering and Management,Palghar	5th to 9th June 2020
3	India first leadership talk	6 June 2020
1	Attended webinar on "Introduction to Blockchain Technology" organized by Arasu Engineering College, Thanjavur	6th June 2020
1	Attended webinar on "Impact of Covid 19 on Global Economy" organized by Guru Nanak Khalsa College of Arts, Science & Commerce (Autonomous), Matunga, Mumbai	6th June 2020
2	Webinar on "Pillars of Good Immunity" organized by Department of Computer Engineering and Information Technology held on 6th June, 2020.	6th June, 2020
1	Attended webinar on "Machine Learning using R" organized by Vaageswari College of Engineering,Karimnagar	7th june 2020
1	Attended webinar on "Current issues in IPR and Anatomy of Patents" organized by Akola Law College	7th June 2020
1	Attended webinar on "Edtools for making online teaching more effective" organized by St. Joseph College for Women, Vishakapatnam	8th June 2020
1	Attended webinar on "Nanomaterials for smart and sustainable energy solutions " organized by Mahatma Phule Arts Science and Commerce College,Panvel	8th june 2020
1	Attended webinar on "Science and spirituality in Education System" organized by Bhabha National Research Academy BNRA, Gujarat	8-9th June 2020
1	FDP on " Technologies for Healthcare" organized by GMR Institute of Technology,Kakinada	8th to 10th June
2	FDP on "Electronic System Design, Modelling and Simulation"Organized by Pillai OC college of Engineering and Technology, Rasayani	8th June to 10 June 2020
3	Five Days online STTP on " Internet of things and its application in Industry " by Department of Instrumentation Engineering, RAIT during 08-12June 2020	8-12June 2020
1	FDP on " E learning and ICT Tools for effective teaching-learning" organized by Aravali College of Advanced Studies in Education, Pali, Faridabad, Haryana	8th to 13th June 2020

1	Attended webinar on "Indian Economy in Post Covid 19:Prospects and Challenges" organized by T.H.K Jain College,Cossipore,Kolkata	9th June 2020
1	Attended webinar on "Eye care in COVID 19 era and common eye disease" organized by AISECT College of Professional Studies, Indore	9th June 2020
1	38) Six days FDP on "Research Perspective in Medical Image Processing" organized by KIT, Coimbatore	10-15th June 2020
3	Workshop on Curriculum Development with Learner Centric Approach, conducted by IQAC in association with Dept. of Applied Science, Mathematics and Humanities PCE, from 10th to 14th June 2020.	10th to 14th June 2020.
1	Attended international webinar on "Future Perspective" organized by Nehru Institute of Information Technology & Management,Coimbatore	10th to 12th June
1	Attended webinar on "5G: Satellite Network" organized by Parul Polytechnic Institute, Parul University	12th June 2020
1	Attended webinar on "Origin of Universe: Scientific and Vedic perspective" organized by 'QUBIT 'the physics society	12th June 2020
1	FDP on " Data Science with Python Programming" organized by Smt. Kasturba Walchand College, Sangli	12th to 14th June 2020
1	Attended webinar on "SPARC-INDO-US Immunology workshop" organized by IIT Ropar , India and George Washington University, USA	12-13th June 2020
1	Attended webinar on "3D Printing Technology" organized by IIR,Keelkattalai,Chennai	13th June 2020
3	India First Leadership Talk	13 June 2020
1	Attended webinar on "Effective Team Building:team dynamics and Mentor's role in effective implementation of PBL" organized by KIT College of Engineering,Kolhapur	13th June 2020
1	Attended webinar on "Trends in Cybersecurity" organized by Rajiv Gandhi College of Engineering, Mumbai	13th and 14th June 2020
1	Attended webinar "7 tips to increase wealth during economic slowdown" organized by E.M.G Yadava Women's College,Madurai	14th June 2020
1	Attended webinar on "New normal:Total health through 3 step rhythmic breathing" organized by Parul Polytechnic Institute, Parul University	15th June 2020
1	Attended webinar on "5G:Network architecture and SDN" organized by Parul Polytechnic Institute, Parul University	15th June 2020
1	3 Days FDP on " Research Applications in Artificial Intelligence and Machine Learning conducted by Vikas College of Engineering and Technology, Vijayawada	15th to 17th June
1	Webinar on "know your fabric and Indian Heritage "by PCE	16th June

1	Attended webinar on "Hybrid E-learning tools: Classroom around the world" organized by L.S. Raheja College Of Arts & Commerce, Santacruz, Mumbai	16th June 2020
1	Three days FDP on "RF Design/VNA and its applications" conducted by Entuple and Anritsu	16 to 18th June 2020
1	Attended webinar on "Antenna designing and troubleshooting using CST Studio suite" organized by Graphic Era in association with Jyoti Electronics, Dehradun	16-17th June
2	Webinar on "E-waste Management " organized by Department of Computer Engineering, Pillai HOC College of Engineering and Technology, Rasayani, on June 17, 2020	17th June 2020
1	Attended webinar on "Masterclass on Data driven Digital Marketing 4.0 for Business" organized by S.B Patil Institute of Management and Pune Business School	17th June 2020
1	Attended National webinar on "Virtual world cybersecurity and E-learning " organized by Guru Nanak College, Budhlada, Patiala	18th June 2020
1	Attended National Webinar on "Environment, Health and COVID 19" organized by Sardar Vallabhbhai Patel Arts & Science College Ainpur	18th June 2020
2	Three day online STTP on "LaTeX for Everyone" organized by department of Engineering science RAIT Nerul.	18 to 20 June 2020
1	One week FDP on "Research Methodology: Tools and techniques" conducted by M.V. Muthiah Government Arts College for Women, Dindigul	18th to 24th Jun 2020
1	FDP on "PHP and MySQL" organized by V.K.R, V.N.B and A.G.R College of Engineering in association with Spoken Tutorials, MHR, Govt. of India	18th to 24th June 2020
1	Outcome Based Education organized by IETE navi mumbai centre	19-20 June 2020
1	Attended webinar on "Skill India: An Employment and self-reliant Economy perspective" organized by Shri Guru Tegh Bahadur Khalsa College, Jabalpur, M.P	19-20th June 2020
2	online IETE West Zone Seminar on "Outcome Based Education (OBE)" organized by IETE Navi Mumbai Centre supported by IETE HQ., New Delhi.	19th to 20th June 2020
1	One Week Online FDP on " Cybersecurity" organized by Sreyas Institute Of Engineering & Technology, Hyderabad	19th to 24th June 2020
1	Attended webinar on "Cybersecurity" organized by Finolex Academy of Management and Technology, Ratnagiri	20th June 2020
1	International Yoga Awareness FDP	21st June 2020
1	3 Days Introductory Program on "HEARTFULNESS MEDITATION", organised by PCE, N panvel in association with Heartfulness Education	21 - 23 June 2020
1	5 Days STTP on "Recent trends in Data Science and Information Security" conducted by RAIT, Nerul	22-26th June 2020

1	Attended webinar on "Significance of Wireless Communication" organized by Sharadchandra Pawar Mahavidyalaya - Lonand, Satara	23rd June 2020
1	Attended webinar on "Introduction to RF Design and Applications" organized by Rajalakshmi Engineering College, Thandalam, Chennai, Tamil Nadu	23rd June 2020
1	Attended webinar on "Digital Radiography" organized by CIT, Chennai	24th June 2020
1	Webinar on "Microwave Remote Sensing"	24-06-2020
1	Attended webinar on "Physical fitness and wellness holistic approach for healthy life during Covid 19" organized by Smt. Kasturbai Walchand College, Sangli	24th June 2020
1	Attended webinar on "Transformation of 5G and Wifi" organized by Loyolo Institute of Engineering, Palanchur, Chennai	25th June 2020
1	Attended webinar on "Gramin Vikas" organized by Rajiv Gandhi College of Engineering, Mumbai	25-27th June 2020
1	Attended webinar on "Recent trends on RF and its Applications" organized by IEEE APS Chapter, Jaipur and IEEE Rajasthan subsection	26 to 30th June
1	India First Leadership Talk	27 June 2020
1	Remote Instructor Training by Cisco and Eduskills	
1	One Week AICTE-ISTE Approved STTP on " Outcome Based Education and NBA" organized by Shree L.R. Tiwari College of Engineering, Mira Road, Mumbai	29th June to 3rd July 2020
1	NPTEL Course on Problem solving through programming in C	12 week course
1	Coursera Certificate -Initiating and Planning Projects	6 Week, 04/19/2020
7	Coursera Certificate - Programming for Everybody (Getting Started with Python)	7 weeks
1	Coursera Certificate - Introduction to Big Data	3 Weeks
2	Coursera Certificate - Positive psychology	6 weeks
3	Coursera Certificate - Python Data Structures	7 Week
3	Coursera Certificate - Using Python to Access Web Data	7 weeks

1	Coursera Certificate - Using Databases with Python	6 weeks
1	Coursera Certificate - Capstone: Retrieving, Processing, and Visualizing Data with Python	7 Week
1	Coursera Certificate - Crash Course on Python	6 Weeks
1	Coursera Certificate - The Science of Well-Being	10 weeks
1	Coursera Certificate - R programming	4 weeks
1	Coursera Certificate - A Crash Course in Data Science	1 Week
1	Coursera Certificate - Applying Machine Learning to your Data with GCP	2 Weeks
1	Coursera Certificate - Achieving Advanced Insights with BigQuery	2 Weeks
1	Coursera Certificate - Intro to TensorFlow	3 Weeks
1	Coursera Certificate - Exploring and Preparing your Data with BigQuery	1 Week
1	Coursera Certificate - Build Data Analysis tools using R and DPLYR	Guided project
1	Coursera Certificate - Creating New BigQuery Datasets and Visualizing Insights	3 Weeks
1	Coursera Certificate - Basic Image Classification with TensorFlow	1 week
1	Coursera Certificate - Image Classification with CNNs using Keras	1 week
1	Coursera Certificate - End to end Machine Learning using TensorFlow On Google Cloud platform	3 week
1	Coursera Certificate - Positive Psychiatry and Mental Health	5Weeks
1	Coursera Certificate - Introduction to Project Management	2Weeks
1	Coursera Certificate - Understanding Research Methods	4Weeks
1	Coursera Certificate - Deep Learning Inference with Azure ML Studio	2Weeks
1	Coursera Certificate - Predict Employee Turnover with scikit-learn	
1	Coursera Certificate - Linear Regression with NumPy and Python	
1	Coursera Certificate - Blockchain Platforms	

1	Coursera Certificate - Cybersecurity and the Internet of Things	
1	Coursera Certificate - University Teaching	
1	Coursera Certificate - AWS Fundamentals: Going Cloud-Native	
1	Coursera Certificate - C for Everyone: Structured Programming	
1	Coursera Certificate - C for Everyone: Programming Fundamentals	

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

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Initiative
1)Calyxpod 2)mUni Campus -Digital services and Aegis-School of Telecommunication 3) VACS-SAPEdu	50K	<a href="https://drive.google.com/file/d/19xDxbknlPZrBVQO8-zdLepb7G9vgbyve/view?usp=sharing">https://drive.google.com/file/d/19xDxbknlPZrBVQO8-zdLepb7G9vgbyve/view?usp=sharing</a>

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 and the AAC reviews the preparedness of every department for the NBA.

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

1. Adherence to the 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 feedback.
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 students 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 provides 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 of 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 the needs of the students.

ASK 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:

- i. The faculty are encouraged to attend various workshops and seminars to upgrade their skills.
- ii. The faculty are sponsored for pursuing Ph.D to upgrade the qualification.
- iii. 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:

<b>Year</b>	<b>Sr. No.</b>	<b>Title of the program</b>	<b>Date and Duration (from-to)</b>	<b>Number of participants</b>
2019-20	1	International Women's Day	9 March 2020	40
2019-20	2	Hackathon	2019-20	7

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

<b>Sr. No.</b>	<b>Class</b>	<b>Topic Floated</b>
1	Second year	Digital Oscilloscope Metal Detector Musical Fountain Braille Applications Digital Weather Station Pattern Generation AM Generation Music Player
2	Third year	Smart Glass, 3D Ping Pong Game Target Shooting Game Pong Game Maze Solver

61. Details of the final year project:

<b>Sr.No.</b>	<b>Project Title</b>	<b>Group Members</b>	<b>Guide</b>	<b>Industry Concerned</b>	<b>Outcome/ Benifit</b>
1	Characteristics of Magnetic Material using Force Method.	Amit Vijay Moundekar	Prof. Uma K. S.	BARC	Exposure to Industrial needs
		Laukik Eknath Kokate			
		Rajesh Naresh Mayya			
		Mayur Ujwal Kulkarni			

<b>Sr. No.</b>	<b>Project Title</b>	<b>Group Members</b>	<b>Guide</b>	<b>Industry Concerned</b>
2	Landmine detection shoe.	Sachin Kumar Gupta	Prof Anup Vange	
		Ritesh S. Kudalkar		
		Pooja R. Karkhile		
		Pawan Kumar Mishra		
3	Crack detection using Convolutional Neural Network & Image Processing.	Clement Fernandes	Prof. Apeksha Chavan	
		Rachna Bhilare		
		Rohit kapadi		
		Swati Dutta		
4	Solar Drone	Manu Krishnan	Prof. Rubina Shaikh	
		Pratik Karpe		

		Anjana Menon		
		Nayana Suresh		
5	Colour based product sorting machine.	Shrishti Chavan	Prof. S.P.Wadkar	
		Neha Deshmukh		
		Jidnyasa Bhoir		
6	LiFi based voice controlled robot.	Omkar Chauhan	Prof. Sonali Kathare	
		Saptarshi Chakravarty		
		Anil Gowda		
		Anishka Bhatt		
7	Automatic Vehicle Accident Detection And Rescue System	Rohit Jadhav	Prof. Ameet Mehta	
		Nilesh Andhale		
		Suprita Bhise		
		Hrucha Ghayawat		
8	Microwave passive components	Anuksha Bhoir	Prof. J. D. Bhosale	
		Lucky Dabhade		
		Viraj Bansod		
		Atish Daki		
9	Object Tracker and	Rahamatbi Khan	Prof. J. D. Bhosale	

	Following Robot using Raspberry Pi.	Pooja Allu		
		Gopika Suresh		
		Aiswarya Menon		
10	IOT BASED VEHICLE PARKING MANAGER using Raspberry Pi.	Atharva Vidyadhar Godbole	Prof. Ajit Saraf	
		Shruti Nilesh Manohar		
		Balpreet Singh Gurm		
		Shivani Vinay Kale		
11	Patient Monitoring System using GSM System.	Yashashree Kommajoshiyula	Prof. S.K.Srivastava	
		Shruti V Menon		
		Siri Lingaraju		
12	Safety Device for Drowsy Driving	Shivani kankatala	Prof. Sneha Chikodi	
		Vaishnavi Gaonkar		
		Prashansa karale		
13	Application for Identification of fake currency using MATLAB.	Nikhil Chauhan	Prof. Monika Bhagwat	
		Soumyajit Chakraborty		
		Tejendra Deshpande		
		Yash Dalvi		
14	Design of Bridge	Aarti Laxman Gadade	Prof. Sonali Kathare	

	Monitoring System based on IOT	Swapnil Yuvraj Bhosale		
		Satyajit Tanaji Bhosale		
		Abhijit Subhash Hande		
15	To design an automation system for control of electrical load based on sensing the number of seats for less power consumption.	Vedant Kharvatkar	Prof. Tusharika Banerjee	
		Dennis Louis		
		Saifallah Parkar		
16	RF based Wireless Complete Body Scanning System using GSM.	Atul Ramu Haldipur	Prof. S.K.Srivastava	
		Swapnali Madhukar Mane		
		Neha Raju Kaidal		
		Nikhil Ramrao Jadhav		
17	Wireless Humanoid Bionic Arm on Robotic Vehicle	Shubham Jadhav	Prof. Ujwal Harode	
		Nimish Joshi		
		Asmita Poddar		
18	Soldier Health & Position Tracking System with Spy Robot.	Naved Ejaz Shaikh	Prof. Suchitra Patil	
		Kriti Singh		
		Asmita shetty		

		Abhishek Sharma		
19	Braille language printer	Priyanka Shashikant Patil	Prof. R. H. Khade	
		Suyash Jayant Padalsekar		
		Shruti Ravindra Ramnathkar		
20	Smart Shopping Trolley	Janaki Padhy	Prof Ajit Saraf	
		Aditya Salunkhe		
		Omkar Rode		
		Nitin Pandita		
21	RFID based Prepaid Car parking system & Toll collection system using IOT.	Aadesh solat	Prof. Rubina Shaikh	
		Sandesh yadav		
		Manoj parihar		
		Adarekar Samrin Isa		
22	Heart health analysis using machine learning and neural network.	Rishabh Tayade	Prof. S.K.Srivastava	
		Vishal Kanase		
		Madhurya Varshney		
		Disha Sengar		
23	Android based vehicle for metal detection.	Prashi S. Poojary	Prof. Sweta Waghmare	
		Akshata S. Salunke		
		Mansi Patil		

		Bhagyashree H. Sonawane		
24	ZigBee based secured wireless communication using AES encryption.	Harsh Kalivda	Prof. Tusharika Banerjee	
		Prajakta Mangale		
		Neha Kathale		
25	Self driving car simulator.	Vishal phalke	Prof. Meera Kharat	
		Mahmood inamdar		
		Zeeshan pawaskar		
		Taha shirgaonkar		
26	Laser Engraver	Akshay Shinde	Prof. Sweta Waghmare	
		Siddhesh Shirsat		
		Raksha Sorte		
		Aditi Sharma		
27	Smart Water distribution system.	Rinkesh Yadav	Prof Ravi Biradar	
		Pooja Yadav		
		Triptee Pandey		
		Saurabh Pandhre		
28	Bus Proximity Indicator (An intelligent Bus Stop)	Samruddhi salvi	Prof. Ameet Mehta	
		Priyanka shinde		
		Amruta Yadav		

29	IOT based Precision Farming system.	Vaibhav Gupta	Prof. S.P.Wadkar	
		Arpita Verma		
		Rahul Raghavan		
		Saurabh Yadav		
30	Accurate Electricity Monitoring of the Household Appliances	Prafull shelar	Prof. Apeksha Chavan	
		K. Vishnu		
		Venkatesh tolimarla		
		Nutan thombare		
31	IOT based weather monitoring system using Rasberry Pi	Akshata Surve	Prof. Swati Patil	
		Kushal Suvarna		
		Sandeep Ghawalkar		
		Pranay Patil		
32	Motion based message conveyer for paralytic/disable people.	Karan shetty	Prof Anup Vange	
		Mitali shinde		
		Tushar shinde		
		Deepak Vishwakarma		
33	Remote monitoring and controlling system using GSM.	Nishiket Khadke	Prof. Seema Mishra	
		Shubham Shenoy		
		Supriya Kamble		

		Pranali Paddelli		
34	Traffic Density Controller.	Aakash Manoj Khantwal	Prof. Ravi Biradar	
		Shubham Shivaji Belkar		
		Srikanth Uduthala		
		Vrishabh Bahot		
35	Voice operated intelligent fire extinguisher vehicle	Siddhi A. Pisal	Prof. Dipti Nair	
		Pillai Pavithra		
		Pooja S. Murali		
		Vaishnavi Rajput		
36	Coin operated Water dispenser.	Vikram Jadhav	Prof. Sweta Waghmare	
		Akshay Shirke		
		Vijay Pawar		
		Abhishek Sudrik		

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

Innovation and creativity are fundamental and essential qualities that the EXTC department seeks to develop both in its students and faculty. It does this by creating an environment of opportunities around them and then allows 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 “E-Learning Studio”. An in-house developed Light Board, a 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 e-Outreach program of IIT Bombay since 2012. Till date more than 30 faculty development workshops encompassing a variety of subjects including use of ICT in education have been conducted through the remote center. These courses have enriched the EXTC department 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 processes in the EXTC department. 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 training 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 an integral part of our college culture. Students regularly participate in project competitions like all India level Hackathons, project Deep Blue etc. Students are also encouraged to present technical papers in reputed conferences as well as competitions. The department also conducts project competition and cash awards are given to the best performing teams.

8. PCE has established the Institution's Innovation Council (IIC) as per MHRD directives and faculty members and students are actively participating in activities conducted by IIC. Head of the department is an active member of the IIC and involved in organising all activities. The council mainly deals with promoting innovation, incubation, start-up support and entrepreneurial activities in the Institute.

**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.**



**Head of Department,  
Electronics and Telecommunication Engineering  
21-July-2020**