



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

(2019-2020)

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

1. Name of the Department: Electronics Engineering
2. Year of establishment: 1999
3. Programmes offered: UG and PG
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	ETRX	Electronics	Big Data	2019-20	View Link
2	ETRX		Robotics	2019-20	View Link
3	ETRX		Latex	2019-20	View

SN	Program code	Program name	Name of the certificate/diploma introduced in last 5 years	Year of introduction	Link the relevant document
4	ETRX		Arduino-(1&2)	2019-20	View
5	ETRX		Networking and its fundamentals	2019-20	View
6	ETRX		Industrial Internet of Things	2019-20	
7	ETRX		Python Programming	2019-20	
8	ETRX		IOT workshop	2019-20	

**** Please Note that BIG DATA and Robotics -S. No- 1 and 2 have been organized under IEEE as per the latest update .

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	RAJENDRAK UMAR KHADE	Member, Question Paper Setting Committee, University of Mumbai	

Year	Name of Teacher	Name of the body in which full time teacher participated	RELEVANT LINK
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	

Year	Name of Teacher	Name of the body in which full time teacher participated	RELEVANT LINK
11	APEKSHA CHAVAN	BOS meeting (Syllabus setting) 11th March 2020	LINK
		Faculty Orientation Program on revised 2019 'C' Scheme on 7th July 2020	LINK
12	SWATI PATIL	BOS meeting(Syllabus Setting) 12th Feb 2020	Link
		Paper Setter 17th Feb 2020	Link
		Paper Setter 19th Nov 2019	Link
		Faculty Orientation Program on revised 2019 'C' Scheme on 9th July 2019	Link

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
Instrumentation System Design	U N D E R	320737610	ELX701	2019-20	View
Power Electronics			ELX702		
Digital signal processing			ELX703		
Advanced Power Electronics			ELXDLO8041		
MEMS Technology			ELXDLO8042		

Name of the new course introduced in last A.Y.	Program name	Program code	Course code	Year of introduction	Link the relevant document
Virtual Instrumentation	G R A D U A T E R X	320737610	ELXDLO8043	2019-20	
Digital Image Processing			ELXDLO8044		
Product Lifecycle Management			ILO7011		
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		
Instrumentation System Design Lab			ELXL701		
Power Electronics Lab			ELXL702		
Digital signal processing Lab			ELXL703		
Internet of Things	ELX801				

Name of the new course introduced in last A.Y.	Program name	Program code	Course code	Year of introduction	Link the relevant document
Analog and Mixed VLSI Design			ELX802	2019-20	
Advanced Power Electronics		320737610	ELXDLO8041		
MEMS Technology			ELXDLO8042		
Virtual Instrumentation			ELXDLO8043		
Digital Image Processing			ELXDLO8044		
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		

Name of the new course introduced in last A.Y.	Program name	Program code	Course code	Year of introduction	Link the relevant document
Project Management		320737610	ILO8021	2019-20	
Finance Management			ILO8022		
Entrepreneurship Development and Management			ILO8023		
Internet of Things Lab			ELXL801		
Analog and Mixed VLSI Design lab			ELXL802		
Department Level optional Lab			ELXLDLO80 4X		

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	YES	BE-ETRX	2019-20	View

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

Year	Title of the programme	Type of the programme (Certificate/ Diploma programs/ Add-on programs)	Total Number of students enrolled in certificate or diploma or add-on programs
2019-20	Big Data	Certificate	38
2019-20	Robotics	Certificate	30
2019-20	Latex	Certificate	27
2019-20	Arduino-(1&2)	Certificate	71
2019-20	Networking and its fundamentals	Certificate	15
2019-20	Industrial Internet of Things	Certificate	30
2019-20	Python Programming	Certificate	24
2019-20	IOT workshop	Certificate	19

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	---	15	15
3.	Industrial Internet of Things	IIoT	2019-20	---	30	30
4.	Python Programming	PYP	2019-20	---	30	24

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 Engineering	EX	31	INTERNSHIPS

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	Sem V,TE ETRX	Not able to understand the impact of Inter Symbol Interference in Baseband transmission and methods to mitigate its effect	Planning 3 hours study camp with emphasis on baseband transmission at the end of semester.	View
2	Student	Sem VII,BE ETRX	Unable to understand the basics of single phase converters and effect of source inductance along with the mathematical analysis of their performance parameters .	Conducting an industry expert session by S.D. Naik on 18th July 2020 at 11:00 AM on topic "Opportunities and careers in Power Electronics	View
3	Teacher	Sem VII ETRX-Cyber Security and Laws	Lab sessions are not available, hence it's difficult to practically show impact of attack and tools to prevent attacks.	Introduction of Practical demonstration of different cyber-attacks was covered using seminar on cyber security	View

SN	Stakeholder	Department	Feedback Received	Action Taken	Link for Document
4	Alumni	ETRX	Students should be exposed to the industry trends	Conducted industry expert session by S.D. Naik on 18th July 2020 at 11:00 AM on topic "Opportunities and careers in Power Electronics	View
5	Alumni	ETRX	more workshops has to be conducted for students to improve practical Knowledge	ETSA organized a workshop on Iot (Internet of Things) on 6th March, 2020.	View

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	02	NIL	Link

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	EX	90	22

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
26.1%	2019-20	-	-	-	02	-	--	20	--

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 Electronics 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 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 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 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 qualified for Smart India Hackathon.

16. Student- Full time teacher ratio:

Year	Number of students enrolled in the department(U G)	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
2019-20	360	36	21	01	02	16.5

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

Designation	Sanctioned	Filled
Professor	3	3
Associate Professor	6	5
Assistant Professor	16	16
Total	25	24

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

Year	Total No. Full time teachers	No. of teachers with PhD
2019-20	24	5

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
2019-20	24	15	Link

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

Year	No. Of Full time Teachers	No. of teachers from other states
2019-20	24	7

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 2019 FOR SE, TE & BE

JUL			AUG			SEPT			OCT			NOV			DEC		
MO 1	STAFF RETURN	TH 1	19	SU 1		1	1		1	IA II SE,TE,BE & IA I FE	FR 1	1		SU 1		1	
TU 2		FR 2	20	MO 2		2			2	GANDHI JAYANTI	SA 2	2	FSS	MO 2		2	
WE 3		SA 3		TU 3		3			3	IA II SE,TE,BE & IA I FE	SU 3	3		TU 3		3	
TH 4		SU 4		WE 4		4			4	50	MO 4	4		WE 4		4	
FR 5		MO 5	21	TH 5		5			5	51	TU 5	5	VIVA/PRACT END	TH 5		5	
SA 6	FACULTY MEETING	TU 6	22	FR 6		6			6		WE 6	6	REMEDIAL CLASSES	FR 6		6	
SU 7		WE 7	23	SA 7		7			7	52	TH 7	7	REMEDIAL CLASSES	SA 7		7	
MO 8	CLASSES BEGIN	TH 8	24	SU 8		8			8	DASHAHARA	FR 8	8	REMEDIAL CLASSES	SU 8		8	
TU 9	2	FR 9	DEFaulter ALERT-I	MO 9		9			9	53	SA 9			MO 9		9	
WE 10	3	SA 10		TU 10		10			10	54	SU 10			TU 10		10	
TH 11	4	SU 11		WE 11		11			11	DEFaulters LIST	MO 11			WE 11		11	
FR 12	5	MO 12	BAKARI EID	TH 12		12			12		TU 12			TH 12		12	
SA 13		TU 13		FR 13		13			13		WE 13			FR 13		13	
SU 14		WE 14	IA I FOR SE AND TE	SA 14		14			14		TH 14			SA 14		14	
MO 15	6	TH 15	INDEPENDENCE DAY	SU 15		15			15		FR 15			MO 15		15	
TU 16	7	FR 16	IA I FOR SE AND TE	MO 16		16			16		SA 16			TU 16		16	
WE 17	8	SA 17	Parsi NEW YEAR	TU 17		17			17	STUDY CAMP	SU 17			WE 17		17	
TH 18	9	SU 18		WE 18		18			18		MO 18			TH 18		18	
FR 19	10	MO 19		TH 19		19			19	61 SUBMISSIONS/FSS	TU 19			FR 19		19	
SA 20	FSS	TU 20		FR 20		20			20		WE 20			SA 20		20	
SU 21		WE 21		SA 21		21			21	62 SUBMISSIONS	TH 21			SU 21		21	
MO 22	BE CLASSES BEGIN	TH 22		SU 22		22			22	VIVA/PRACT BEGIN	FR 22			MO 22		22	
TU 23	12	FR 23		MO 23		23			23		SA 23			TU 23		23	
WE 24	13	SA 24	PTMFSS	TU 24		24			24		MO 24			WE 24		24	
TH 25	14	SU 25		WE 25		25			25		TU 25			TH 25		25	CHRISTMAS
FR 26	15	MO 26		TH 26		26			26		WE 26			FR 26		26	
SA 27		TU 27	REGULAR ACADEMIC TIMETABLE AND IA I FOR BE	FR 27		27			27		TH 27			SA 27		27	
SU 28		WE 28		SA 28		28			28		FR 28			SU 28		28	
MO 29	16	TH 29		SU 29		29			29		MO 29			MO 29		29	
TU 30	17	FR 30		MO 30		30			30	IA II SE,TE,BE & IA I FE	WE 30			TU 30		30	
WE 31	18	SA 31		TU 31		31			31	VIVA/PRACT CONTINUE	FR 31			WE 31		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

PRINCIPAL
PCE, NEW PANVEL

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

INDICATES TENTATIVE SCHEDULE, COULD UNDERGO CHANGES AS PER EXIGENCIES

9TH MARCH TO 14TH 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

Program Code	Program Name	Level/Semester	Number of students appeared in the exam	Number of students passed in the exam
ETRX	Electronics Engineering	VII	71	56
ETRX	Electronics Engineering	V	69	43
ETRX	Electronics Engineering	III	41	24

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

SN	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	Mumbai University	Prof. Monika Bhagwat	Electronics	2019	20000		Mumbai University	Government	
2	Mumbai University	Dr. G. Sita	Electronics	2019	25000		Mumbai University	Government	
3	Mumbai University	Dr. Sanjeev Kumar Srivastava	Electronics	2019	40000		Mumbai University	Government	
4	DST	Dr.P.S.Goyal	Electronics	2019	27.8L		DST	Government	
5	UGC,DAE,CSR,Indore	Dr.P.S. Goyal	Electronics	2019	7.60L		UGC,DAE,CSR,Indore	Government	
6	Consultancy	Dr.P.S Goyal	Electronics	2019	1L		Boron Rubbers India,Bhavnagar	NonGovernment	
7	5Mumbai University	Ravi Biradar	Electronics		20000		Mumbai University	Government	

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

SN	Name of teachers recognized as research guides	PG / PhD Recognition	Department	Year of Recognition
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	2019-20	Faculty Development Program on SCILAB	11th May to 15th May 2020	https://drive.google.com/file/d/1_N1uZGyChXeVQ_T9mYV3I1mYvsKygIkE/view?usp=sharing

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/IS SN number	Link of the recognition in UGC enlistment of the Journal
1	Robust Control of Solid State Transformer using Dynamic Phasor based model with dq transformation	Monika Bhagwat	Electronics	IEEE North American Power Symposium (NAPS)	2019-20		
2	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	Electronics	Springer Journal on Smart Trends for Computing and Communications	2019-20		

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
3	Study and Analysis of NOMA downlink transmission model in 5G wireless system	Dr. Sanjeev Kumar Srivastava	Electronics	Accepted in Springer Journal on Information and Communication Technique for sustainable development	2019-20		
4	Feature Extraction Techniques and Descriptors used in Image Retrieval System- A Survey	Prof. Ujwal Harode	Electronics	JETIR	2019-20	ISSN: 2349-5162	
5	“A Method for Manufacturing a Membrane”	Dr.P.S Goyal	Electronics	Patent	2019-20	Application No. 202021003922, dated 29-01-2020	

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 Charity 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
	NIL	NIL	NIL		NIL

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 "Run for Clean City"	NSS,PCE	14 Dec 2019	2	50
5	Tree Plantation and River Clean Drive	NSS,PCE	11 Jan 2020	5	150

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
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

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
	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 Training School	2020	01/12/2019 to 01/01/2020	Internship
11	Internship	M/s. Instakart Services Pvt Ltd, Rasayani		45 days internship	Internship

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
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

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
	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	Training and Industrial Engg.Dept,BEST Training and Industrial Dept	2019	02/12/2019 to 16/12/2019	Internship

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
17	Internship	7D, Thacker Industrial Estate	2020	21/12/2019 to 20/01/2020	Internship
18	Internship	Siemens Ltd.,, Kharghar,	2019	11/12/2019 to 30-/12/2019 .	Internship
19	Internship	Reliance Corporate (IT) Pvt. Ltd.,	2019	28/11/2019 to 15/12/2019	Internship
20	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
21	Internship	Hindustan Coca-Cola Beverages India Pvt. Ltd.,	2019	15/12/2019 to 30/12/2019	Internship

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
	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
22	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
23	Internship	Doordarshan Kendra,T. V. Tower, Kachari Road	2020	08/12/2019 to 08/01/2020	Internship
24	Internship	SeneryIntellution Pvt. Ltd.,Shah Industrial Estate,	2020	03/01/2020 to 30/01/2020.	Internship

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
25	Internship	HRDD, BARC, BARC Training School,	2020	01/06/2020 to 30/07/2020.	Internship
26	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
27	Internship	BSNL, Deonar Village Road, Deonar, Hira Automation Pvt. Ltd., Jambhurwadi Road, Ambegaon Khurd,	2020	09/12/2019 to 05/01/2020.	Internship
28	Internship	Siemens Ltd., Thane-Belapur Road, Siemens Ltd., Thane-Belapur Road,	2019	11/12/2019 to 30/12/2019	Internship

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
29	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
30	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
31	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

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
32	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
33	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
34	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
35	Internship	BARC Training School,Anushakti Nagar,Mumbai-400094.	2019	12/12/2019 to 15/01/2020.	Internship
36	Internship	Abak Electrofab Engineering Pvt. Ltd.,C-416/417, MIDC, TIC,Turbhe, Navi Mumbai – 400 705 (MH)	2019	02/12/2019 to 28/12/2019	Internship
	Internship	Abak Electrofab Engineering Pvt. Ltd.,C-416/417, MIDC,	2019	02/12/2019 to 28/12/2019	Internship

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
		TIC,Turbhe, Navi Mumbai – 400 705 (MH)			
	Internship	Abak Electrofab Engineering Pvt. Ltd.,C-416/417, MIDC, TIC,Turbhe, Navi Mumbai – 400 705 (MH)	2019	02/12/2019 to 28/12/2019	Internship
37	Internship	IMMECULATE A-703, Satyasiddhi CHS,Sector-11, Kalamboli Navi Mumbai- 410218	2020	5/12/2019 to 5/01/2020	Internship
38	Internship	Larsen & Toubro L&T, Saki Vihar Road,Powai, Mumbai – 400 072 (MH)	2019	09/12/2019 to 27/12/2019	Internship
39	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		https://drive.google.com/file/d/11yLRZ6-urv29qZBvLDPsXNVc2RuNH7vH/view?usp=sharing
2	CISCO	Mahatma Education Society	2018-19	01 Year	IoT Connecting Things , Big Data & Analytics Instructor Training ,CCNA R & S Instructor Training	03 faculties, 50 students	https://drive.google.com/file/d/11B6HHd00ywrBbpgGZr2jJ5aSIWhciT6J/view?usp=sharing
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	https://drive.google.com/open?id=1ho0VAMfcEQixurrHK0oPe-jiTQo-aWiQ

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
4	Franklin Electric Grid Solutions	Pillai College of Engineering	2018-19	03 Years	Summer internship for third year students	R&D in EXTC Engineering and skill development programme	https://drive.google.com/open?id=1IwCXnWlejS_EwA-5vTOhMziONbMnEXYd
5	Microchip Technology Inc.	Microchip Technology Inc.	2018-19	2 Year	BE projects and student internship	50 to 100 students	https://drive.google.com/open?id=1yW1yplae61PizYu-ob0Kysba7J8SCe3
6	SAP Education University Partner	SAP Education Pvt.Ltd	2016-17	1year	e learning centre and sap student Academy course	100 students	https://drive.google.com/open?id=1oA1jIBi1lPI6Ie0x2LAlq6OIrwkRUVFj
7	Reliance Jio Infocomm Limited	Reliance Pvt.Ltd.	2014-15	3 Years	Course program on IPR	100 Students	https://drive.google.com/open?id=0B9h6ImdZEBImNIVIeVvVWh5d3hWcVdJUFhERFN6TlpSNjNR

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 : 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,

38. Student – Computer ratio:

Total Number of students	Number of computers for students in working condition	Student Computer Ratio
396	105	3.77 : 1

39. 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
NIL	NIL

40. Details of maintenance of laboratory and classrooms:

Data with Pragnesh Shah

41. 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
OBC	3	4	---	
SBC	1	1	----	
SC	2	9	----	
VJNT	0	3	----	
EBC	40	----	----	
State Minority Scholarship	----	----	03	Link

42. 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
Scholarship upon admission to F.E ETRX	1
Felicitation of Toppers	6
Academic Advance Scheme	22
ME Students	03
TOTAL	32 Link

43. 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
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
Talk on “Career Opportunities for Engineers in Defence Services ”	2019-20	200	Electronics Department

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled	Name of the agencies involved with contact details
Campus to Corporate webinar by Anish Pillai	2019-20	200[Institute level for all branches]	PCE
Seminar on Ethical Hacking	2019-20	500+[Institute level for all branches]	PCE
Campus Credential webinar by Vinay Raikar	2019-20	200[Institute level for all branches]	PCE
How to plan and prepare for an upcoming campus Placement : talk by Dr. P.S. Lokhande	2019-20	200[Institute level for all branches]	PCE
BYJU'S-CareerLabs Satellite Seminar (Virtual Seminar) " Profile Building for Higher Education, Scholarships & Placement"	2019-20	131 [Institute level for all branches]	Electronics Department

Name of the capability enhancement scheme	Year of implementation	Number of students enrolled	Name of the agencies involved with contact details
<p>Industrial Experts Lecture on, “Opportunities and careers in Power Electronics”</p> <p>Speaker: Mr. S. D. NAIK CEO, Ashida Electronics Pvt. Ltd. Wagale Estate, Thane (West).</p>	2019-20	40	Electronics Department

44. 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 benefited /attended/participated by career counseling/Competitive exam activities
20th Sep 2019	<p>Talk on “Career Opportunities for Engineers in Defence Services ” By Ramanuj Singh [PCE Alumni]</p>	200 +[For Electronics and Electronics and Telecommunication]
JAN 2020	GATE EXAM TRAINING	

Year	Name of the scheme	Number of students benefited /attended/participated by career counseling/Competitive exam activities
9 th & 10 th March 2019	MahaTpo Entrepreneurship Summit (entire Maharashtra)	500[Institute level for all branches]
22 nd June 2019	Job Fair in association with CII	3000[Institute level for all branches]
1 st Feb 2020	Job Fair	800+ [Institute level for all branches]
18 th Feb 2020	Seminar on Ethical Hacking	500+ [Institute level for all branches]
24 th May 2020	Campus to Corporate webinar by Anish Pillai	200[Institute level for all branches]
15 th June 2020	Campus Credential webinar by Vinay Raikar	200[Institute level for all branches]
3 rd July 2020	How to plan and prepare for an upcoming campus Placement : talk by Dr. P.S. Lokhande	200[Institute level for all branches]

Year	Name of the scheme	Number of students benefited /attended/participated by career counseling/Competitive exam activities
13th July 2020	Talk by TCS on Codevita, TCS recruitment	300[Institute level for all branches]
26th MAY 2020	BYJU'S-CareerLabs Satellite Seminar (Virtual Seminar) " Profile Building for Higher Education, Scholarships & Placement"	131[Institute level for all branches]
18th July 2020	Industrial Experts Lecture on, "Opportunities and careers in Power Electronics" Speaker: Mr. S. D. NAIK CEO, Ashida Electronics Pvt. Ltd. Wagale Estate, Thane (West).	40

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

Number of students attending VET	Total number of students
NIL	NIL

46. 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
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47. 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
02	TCS	3.3Lac	Electronics PCE
01	Infosys	3Lac	Electronics PCE
01	Toppr	3Lac	Electronics PCE

48. 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
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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	2	2		Link

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 bronze medal in Mumbai University Handball Tournament	University	Sport	1) Rohan Sharma 2) Rahul Mungekar	02	1) 2016PE0069 2) 2016PE0180

https://drive.google.com/drive/folders/1NLaFDCVOqOK-HL3zJ6EM2wRj7aN_Q1rp?usp=sharing

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

IEEE CORE COMMITTEE MEMBERS 2019-2020

Sr. No.	Post	Name of Students	Class
1.	CHAIRPERSON	ADITI GARDE	BE ETRX
2.	VICE-CHAIRPERSON	MEHUL JAIN	TE ETRX
3.	SECRETARY	ADITYA GARDE	TE ETRX
4.	JOINT SECRETARY	KIRTI CHAURASIA	TE ETRX
5.	TREASURER	YASH DALVI	BE EXTC
6.	MEMBERSHIP	GAUTAMI AMIN	BE ETRX
7.	PUBLICITY	PRANJAL GUJARATI AYESHA MIYA HIMANSHU JOSHI SHIVASHISH SANYAL	BE ETRX BE ETRX TE ETRX TE EXTC
8.	TECHNICAL	MAINAK B. AKUL NAIR MAHESH BHISE RAVI KOTHARI	BE ETRX TE EXTC TE EXTC TE EXTC
9.	EVENT EXECUTION	RUTUJA PATIL AMAR GHORPADE	BE ETRX BE ETRX
10.	GRAPHIC	SUMEDH NERLEKAR	TE ETRX

ETSA CORE COMMITTEE MEMBERS 2019-2020

Sr. No.	Post	Name of Students	Class
1.	President	Dikshita Oswal	BE-ETRX
2.	Graphics Head	Nehal Mejari	TE-ETRX

Student Council Member from Department 2019-2020

Sr. No.	Post	Name of Students	Class
1	Nil	Nil	Nil

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

https://drive.google.com/file/d/1nNuUp_cwOp2yWFsESmym5jqImFapA81o/view?usp=sharing

Sr. No.	Name of the activity	Event Date
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

Sr. No.	Name of the activity	Event Date
28	Freestyle solo	5 Feb2020
29	Monoacting	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

Sr. No	Date	Title	Speaker	Attendees	Duration
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:

<u>Sr.No</u>	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)
	NIL	NIL	NIL	NIL	NIL

55. 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)
1	FDP on Scilab	NIL	11th to 15th may 2020	----	9	NIL

56. 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)
1	Orientation Program of subject "Embedded Systems", Sem VII,EXTC at Vasantdada Patil College, Chunabhatti.	5th July 2019
1	Attended Orientation program on DSP in Rizvi COE Bandra.	9th July 2019
9	The Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT), also an	21st Sept 2019

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
	initiative of MHRD, combines T10KT and Spoken Tutorials to provide large scale blended training. On this series a hands-on eSim workshop, was conducted by IIT Bombay through their remote center at MES Pillai College of Engineering, New Panvel Remote Centre ID: 1100.	
1	Building Engineering Leaders for the 21st century virtual event	24th Oct 2019
1	IEEE Guide to autonomous vehicle technology virtual event	1st Nov 2019
1	Awsome Day Online Conference	6th Nov 2019
1	STTP on "Internet of Things" at Datta Meghe CoE.	2nd Jan to 8th Jan 2020
1	Participated in Coordinators' Workshop on Arduino' held at Indian Institute of Technology Bombay. This training was 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	18th January 2020
1	One Day Workshop on "Networking Fundamentals", organised by PCE, New Panvel	1st Feb 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
12	One Day Workshop on "Tableau", organised by PCE, New Panvel	4th Feb 2020
6	One day workshop on Arduino organised by IIB Bombay	8th Feb 2020
1	University Meeting RAIT, Nerul	12th Feb 2020
2	One Day Workshop on "C and C++",held at MES Pillai College of Engineering, New Panvel,organised by Teaching Learning Centre ICT at IIT, Bombay	29th Feb 2020
1	Participated in "Scilab" Training Spoken Tutorial , IIT Bombay	Mar-20
1	Technical Webinar on "Robotics using Simscape" held on 09-04-2020 (Thursday)	9th April 2020
2	One Week FDP on Writing documents in LaTeX,PCE New Panvel	27th April to 1st May 2020
1	5 Days FDP on "R PROGRAMMING" organised by PCE in association with Spoken Tutorials, MHR,Govt. of India	29th April to 3rd May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
2	Four day online course on Examination reforms by AICTE	29th April to 2nd May 2020
1	Webinar on "Blockchain Technologies for Smart Contracts", organized by Center of Excellence in Cloud Computing and Blockchain Technologies, Department of Information Technology, Thadomal Shahani Engineering College, Bandra (Mumbai) from 03rd May - 06th May 2020.	3rd May to 6th May 2020.
1	One week Faculty Development Program on "Python" organised by Universal College of Engineering in association with Spoken Tutorials, IITB.	4th May to 8th May 2020
1	Participated in National Level Online Quiz on “Digital Learning Resources” organized by Department of Electronics and Telecommunication Engineering, Shree.L. R. Tiwari College of Engineering, Thane	4th May 2020
1	Four Day-Webinar series on “IT and IPR 2020” by IQAC, Shree. L. R. Tiwari College of Engineering.	5th May to 8th May 2020.
1	Webinar series on “Technological Advancements in the Field of Electronics and Telecommunication Engineering” organised by Vidyavardhani's College of Engineering and Technology, Vasai.	5May - 9 May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Workshop on “Know how to Manage SOLIDWORKS Design Data” by Dassault Systèmes SolidWorks Corporation	6th May 2020
1	FDP on "Research, Funding Projects & IPR " jointly organized by IQAC, R & D Cell & Dept. of Electronics & Telecommunication under the banner of IETE and Institution's Innovation Council (IIC) of K. C. College of Engineering.and Management Studies and Research, Thane (E)	7th May to 10th May, 2020.
2	Research, Funding Projects & IPR jointly organized by IQAC, R & D Cell & Dept. of Electronics & Telecommunication under the banner of IETE and Institution's Innovation Council (IIC) of K. C. College of Engineering and Management Studies and Research, Thane (E) from 7th - 10th May, 2020.	7th May to 10th May, 2020.
1	Faculty Development Program on "Research, Funding & IPR:" organised by K. C. College of Engineering and Management Studies and Research, Thane.	7th May to 10th May, 2020.
1	Webinar on Leadership in Times of Crisis by Dr. Himanshu Rai, Director – IIM Indore	7th May 2020
1	One of the judges on the e-portfolio design contest conducted by Pillai College of Engineering held during April-May 2020.	8th May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Workshop on “Know how CFD helps to innovate Product Design” by Dassault Systèmes SolidWorks Corporation	8th May 2020
5	"The Golden Jubilee Series of Talks"Topic:- IMPACT OF COVID -19 ON PLACEMENTS & INTERNSHIPS; ACTION PLAN	8th May 2020
2	Webinar of “The Golden Jubilee Talk Series”on Impact of COVID-19 on Placements & Internships; Action Plan by Pillai Institute of Management Studies and Research, New Panvel.	8th May 2020
10	5 Days FDP on SCILAB, Spoken Tutorials,IIT Bombay ,MHRD,Govt. Of India.	11 to 15th May 2020
1	Attended a 3 days international faculty development program on "Digital Teaching and Learning Environment" organised by PCACS in association with Mumbai University College of Teachers Association".	11th, 12th and 13th May 2020
1	World Technology Quiz May 11,2020	11th May 2020
1	Attended a 3 days international faculty development program on "Digital Teaching and Learning Environment" organised by PCACS in association with Mumbai University College of Teachers Association".	11th,12th and 13th May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Webinar on “5G-Communication of Next Generation” organised by Vidyalankar Institute of Technology.	14th May 2020
1	Webinar on Impact of pandemic on entrepreneurship in India by Saurabh Chandra, BITS & IIM-A Alumnus and Industry Expert	14th May 2020
1	Attended a webinar on "IoT: Internet of things" conducted by universal college of engineering	14th and 15th May 2020
1	IPR-Webinar Quiz organised by NEW HORIZON INSTITUTE OF TECHNOLOGY AND MANAGEMENT	14th May 2020
1	Through IIT Bombay BodhiTree platform successfully completed the 'Effective and Efficient Online Teaching in the Age of Corona, A Hands On Workshop'. Has attended the interaction session and successfully completed both pre and post workshop online activities, involving 3 days of video lectures and hands-on work. This training was 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.	15th to 17th May 2020
1	Completed National Level Quiz on “A Tour to Communication Engineering” on 15-5-2020 organized by Department of Electronics and Telecommunication	15th May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
	Engineering, Shree.L. R. Tiwari College of Engineering, Thane	
1	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.	16th May 2020
2	Attended First Leadership Talk with Pramod Chaudhary by MHRD's Innovation Cell	16th May 2020
8	Webinar on “Antenna Design Through Simulation using TaraNG:19.1” organized by PCE, New Panvel in association with Numeregion Technologies.	18th May 2020
1	Certificate of appreciation from IETE Bharat College of Engineering Badlapur for successfully completed activity on Information Communication Technology	18th May 2020
4	One week FDP on MATLAB organised by RAIT Nerul on 18 th May to 22 nd May	18th to 22nd May 2020
4	Short Term Training Program on “MATLAB based Teaching-Learning in Mathematics, Science & Engineering”. This STTP was organized by the Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai in	18th May to 22nd May 2020.

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
	collaboration with DesignTech Systems Pvt. Ltd., Mumbai during 18th to 22nd 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
4	Webinar on “Search Beyond Google” organized by the Library of PHCASC in association with Internal Quality Assurance Cell (IQAC).	19th May 2020.
2	Webinar of “The Golden Jubilee Talk Series” on Focus in and get problems out with a Self Coaching Toolkit held by Pillai Institute of Management Studies and Research,New Panvel.	20th May 2020
1	Two day webinar on “Intellectual Property Rights and Patent Registration” by PHCET	21st May to 22nd May 2020
1	Webinar on Getting job ready for post Covid era by Sandeep Kochhar, Founder and Storyteller - Blew Minds Consulting	21st May 2020
1	Participated in " IFS Forensic Science Quiz" organised by WHO	21st May 2020
1	Quiz on "Data Science" organised by NBNSCOE, Solapur	21st May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Webinar on “Intellectual Property Rights and Patent Registration” organised by Pillai HOC Polytechnic, Rasayani.	21st May and 22nd May 2020
4	Webinar on Online teaching and learning using Google classroom and Google meet by PCE New Panvel	22nd May 2020
1	“Modern Antennas for Wireless Systems”	22nd May to 24th May 2020
1	Webinar series on “Modern Antennas for Wireless Systems” organized by Shri Ramdeobaba College of Engineering and Management, Nagpur	22nd May to 24th May 2020
1	Five days National Online Faculty Development Program on “ Artificial Intelligence ” organized by Universal College of Engineering in collaboration with Brain O Vision Solutions India Pvt. Ltd. & National Youth Council of India.	22nd May to 26th May 2020
1	Workshop on “Creating Digital Video for Engineering Products” by Dassault Systèmes SolidWorks Corporation	23rd May 2020
1	National Level Quiz on NAAC	23rd May 2020
2	India's First Leadership Talk Series Session with Mr Mahesh Babu CEO Mahindra Electric Mobility Ltd.by MHRD's Innovation Cell.	23rd May 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
2	Participated in an Online quiz on "Analog Electronics" conducted by Department of Electronics and Telecommunication Engineering,AISSMS Pune On 24 th May 2020.	24th May 2020
4	2 Days Workshop on "ASSESSMENT TOOLS", organised by PCE in association with CoESME, IISER, PUNE	25th May to 26th May 2020
1	ATAL FDP on "Internet of Things"	25th May to 29th May 2020
2	INNOVATIVE TRENDS EINNGINEERING AND TECHNOLOGY organized by IQAC, Shree. L. R.Tiwari College of Engineering from 25th May to 29th MAY,2020	25th May to 29th May 2020
1	Webinar on IPR	25th May 2020
1	One Week Online Faculty Development Programme on IoT 25th May – 29th May, 2020 AICTE Training And Learning (ATAL) Academy Programme at "Dr. Babasaheb Ambedkar Technological University, Lonere"	25th May to 29th May 2020.

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	One Week Online Faculty Development Program on "Opportunities & Challenges in Electronics & Allied Industries in India post COVID-19" organized by Department of Electronics Engineering in association with Institution's Innovation Council (IIC) of Vivekanand Education Society's Institute of Technology.	25th May to 30th May 2020
1	FDP ON " Opportunities and challenges in Electronics and Allied Industries in India post COVID-19"	25th May to 29th May 2020
2	Faculty Development Programme on Signal, Image & Video Processing : A Practical Approach (SIVPAPA - 2020)	26th May to 30th May 2020
9	Attended a workshop on " Reinventing yourself" held by PCE	27th May 2020
6	BEST PRACTICES AND STRATEGIES FOR EFFECTIVE ONLINE TEACHING conducted by Department of Applied Science, Mathematics and Humanities, Pillai College of Engineering, New Panvel.	27th May 2020
1	Two-Day Faculty Development Programme on 'Remote Teaching and Learning - Challenges and Solutions' by PHCASC,Rasayani.	27th May and 28th May 2020
1	C programming Quiz organized by AISSMS college of Information & tech.	27th May 2020.

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	FDP on "Usage of Technology in COVID-19 " organized by Dept. of IT Terna Engineering college,Nerul	28th May to 2nd June
1	National Level Covid-19 Hardware Hackthon 2020 KCCOE Thane	28th May to 30th May 2020
1	Webinar on The Economics Of The Pandemic by Sean Flynn, Behavioral Economist and Author of International Bestsellers.	28th May 2020
1	" A 5 day online Faculty Development Program on Advances in Internet Of Things" starting from Friday 29th May 2020 to Tuesday 2nd June 2020, by the Electronics and Computer Science Department of Fr. Conceicao Rodrigues College of Engineering, Bandra,Mumbai	29th May to 2nd June, 2020
1	One week online Faculty Development Program on “Advances in Internet Of Things”, organized by Fr.Conceicao Rodrigues College Of Engineering, Bandra.	29th May to 2nd June 2020.
1	Workshop on “Collaborative Design – CAD on Cloud ” by Dassault Systèmes SolidWorks Corporation	29th May 2020
1	5 Days FDP on "EVOLUTION FROM OFFLINE TO ONLINE TEACHING", organised by Satish Pradhan Dhyanasadhna College, Thane in association with	30th May to 3rd June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
	Yashwantrao Chavan Maharashtra Open University, Mumbai and Microsoft	
1	Webinar on “Health And Nutrition During COVID-19” in L.R.Tiwari, Meera Road,Thane	30th May 2020
1	Leadership talk with Nilesh OaK on 30th May 2020 by MHRD's Innovation Cell	30th May 2020
1	Webinar on “Health And Nutrition During COVID-19”on 30th MAY 2020 held by Department of Electronics and Telecommunication Engineering, L.R.Tiwari COE Meera Road,Thane	30th May 2020
1	Leadership talk with Nilesh OaK on 30th May 2020 by MHRD's Innovation Cell	30th May 2020
1	Attended worlds largest sales training webinar	31st May 2020
1	National Level Online Faculty Development Program on "Protecting You in Cyberspace", Organized by Department of Computer Engineering and Information Technology, Pillai College of Engineering, New Panvel	1st June to 3rd June, 2020.
1	Workshop on CO-PO Attainment Computation and Outcomes Analysis by InPods Ed-Tech	1st June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
7	5-Day Online STTP on Signal Analysis, Machine Learning and Its Applications using Python and MATLAB conducted by Department of Electronics and Telecommunication Engineering, RAIT during 01-05 June 2020.	1st June to 5th June 2020
3	Participated in the Online quiz "Python Basics"at BVCOE Navi Mumbai on 1st June 2020.	1st June 2020
2	Webinar on " Antenna Designing and trouble shooting using CST Studio suite "Graphic Era conducted by department of Electronics and Communication Engineering Ahmedabad held on 16-17 june 2020	16th June to 17th June 2020
1	FDP on "Antenna Design and Troubleshooting"	3rd June to 7th June 2020
1	Attended a Webinar on Prepare Students with the Industry Ready IoT Teaching Solution organized by Keysight Technologies.	3rd June 2020
1	Webinar on Impact of AI during Pandemic Times by Dr. Raul V. Rodriguez, Assistant Professor AI, ML & Robotics and Dr. Samala Nagaraj, Assistant Professor Marketing at Woxsen School of Business.	4th June 2020
1	Webinar for FDP on "Outcome Based Education Software"organised by vmedulife software services on 4th June,2020	4th June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
3	Webinar on “Pillars of Good Immunity” organized by Department of Computer Engineering and Information Technology held on 6th June, 2020.	6th June 2020
1	Webinar on cyber security by Bharti Vidyapeeth Navi Mumbai	6th June 2020
1	Webinar on “Cyber Security” organized by Bharati Vidyapeeth College of Engineering, Navi Mumbai in association with TeleNetworks Technologies Private Ltd.	6th June 2020
2	Leadership talk with Dr.Ashwini Deshpande on 6th June 2020 by MHRD's Innovation Cell	6th June 2020
1	participated and qualified NBA awareness quiz conducted by IQAC and NBA team Terna college of engineering nerul	6th June 2020
1	Participated in the online International Webinar organized by Bhakta Kavi Narsinh Mehta University, Junagadh on “Human Resource Development in Higher Education after CoViD 19” held on 7th June 2020.	7th June 2020
1	Five Day online Short Term Training Program on "Internet on Things & Its Applications in Industry" jointly organised by RAIT, Navi Mumbai and B&R Automation pvt.ltd.Pune.	8th June to 12th June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	One week FDP on “Robotics, Automation and Industry 4.0”,organized by The Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune-18	8th June to 12th June 2020
7	Five Days online STTP on " Internet of things and its application in Industry " by Department of Instrumentation Engineering, RAIT during 08-12June 2020	8th June to 12th June 2020
1	Certificate of appreciation from Vivekanand College of Engineering Chembur Mumbai for successfully completed Quiz on Digital Communication on 9 June 2020	9th June 2020
13	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 June to 14th June 2020.
1	Quiz on “IOT and Arduino basics” organized by Department of Electronics & Telecommunication Engineering Bharati college of Engineering	10th June 2020
1	Three days Intensive Training Program (ITP) on, "3D Printing – The Next Industrial Revolution".11 -13 June 2020	11th June to 13th June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Webinar on Role of Marketing in times of Pandemic by Dr. Rajan Saxena, Ex-Vice Chancellor, NMIMS University	11th June 2020
2	Webinar on “Programmable Logic Controller (PLC)”organised by K. J. Somaiya Institute of Engineering and Information Technology(KJSIEIT) Sion, Academic Committee along with EXTC and ETRX departments in association with Absolute Motion Pvt. Ltd. on 12 June 2020	12th June 2020
2	Leadership talk with Shri R Subrahmanyam under MHRD Innovation Cell	13th June,2020
1	Successfully completed an online quiz on “IoT and Arduino”Bharati Vidyapeeth College of Engineering, Navi Mumbai on 13th June 2020.	13th June 2020
3	Online Webinar on“EMPOWER- Emotional Intelligence and COVID 19” held on 15 th June 2020.organised by automobile department PCE New Panvel	15th June 2020
1	Webinar on 5G network architecture and SDN organized by electronics and communication Engineering department Parul University held on 15 june 2020	15th June 2020
6	Participated in a Webinar " Know your Fabric and Heritage of India" organised by PCE	16th June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
2	Antenna design and Troubleshooting using CST studio suite	16th June to 17th 2020
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	Webinar on Future of Education post Covid by Prof. Rajendra P Gupta, Former member of the National Education Policy Committee, Govt of India.	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	Webinar on " Sustainable Practices & Pandemic A Path towards Bright Future " conducted by department of Electronics and TeleCommunication Engineering conducted by Lokmanya Tilak COE Navi Mumbai on 19 June 2020 completed with 80% score.	19th June 2020
1	Certificate of appreciation from Lokmanya Tilak College of Engineering Navi Mumbai for successfully completed Quiz on " Advances in Wireless Networking " held on 19 June 2020	19th June 2020
3	IETE West Zone Seminar on “Outcome Based Education (OBE)” and ISF Zonal Congress on 19th and 20th June	19th June and 20th June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
	2020, Organized by IETE Navi Mumbai Center and Supported by IETE HQ, New Delhi	
1	Workshop on "The Bodhi Tree and SAFE Tools for Effective Online Teaching : A Hands-On Workshop" on by IITB.	20th June and 21st June 2020
3	Attended Leadership Talk with Mr. Shridhar Venkat, CEO (Akshay Patra Foundation)held on 20th June by MHRD's Innovation Cell	20th June 2020
5	Attended three days Introductory program ,Learnt the practices of Heartfulness Meditation conducted by PCE from 21 to 23 June 2020	21st June to 23rd June 2020
1	5 Days FDP on WSN and IOT issues conducted by SNDT College	22nd June to 28 th June 2020
1	5 days STTP on recent Trends in data science and information security conducted by RAIT COE Computer department	22nd June to 28 th June 2020
1	National level Quiz on Nanotechnology conducted by K.J. Somaiya college of engineering	22nd June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	One week FDP on "Make in India- A journey towards self reliance from 23rd to 28 th June 2020 organized by Department of Mechanical Engineering, Sandip Institute of Engineering and Management, Nashik.	23rd June to 28 th June 2020
2	One day webinar on 'Validation of Digital Circuits' organized on 23/06/2020 by E & TC Engineering Department in association with IETE,Pune.	23rd June 2020
4	2 Days Workshop on "ASSESSMENT TOOLS", organised by PCE in association with CoESME, IISER, PUNE	25th June to 26th June 2020
2	Webinar on role of Plastic in Pandemic conducted by Pillai College of engineering	27th June2020
2	Leadership Talk with Shri Dipendra Manocha, (Motivational Speaker) held on 27th Jun by MHRD's Innovation Cell	27th June2020
1	Webinar on " How to develop Research Skills"Organized by LT college,Koparkhairane	28th June 2020
4	3 Days Webinar on "New Age tools for Online Teaching", organised by ACADEMISTHAN, supported by Mission Skills	28th,29th and 30th june 2020
1	Webinar on Photonic Crystal Fiber and its application conducted by Terna COE EXTC department	29th June 2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Webinar on Role of Digital Marketing in Complete lockdown by Seema Gupta, Associate Professor-Marketing, IIMB	30th June 2020
1	Polymer Processing & Advanced Characterization Techniques conducted by polymer science & PCE in association with PPA	1st July to 3rd July 2020
1	Online workshop on Universal Human Values on the theme " Inculcating Universal Human Values in Technical Education " organised by AICTE.	2nd July to 6th July 2020
1	Faculty Orientation Program on Revised "C" Scheme for "Principles of Communication"	7th July 2020
2	Webinar on “Field Instrumentation in Chemical Industries” on 11th July 2020 at AISSMS Pune	11th July 2020
1	National Level Webinar on "Artificial Intelligence",organised by KJ Somaiya IE & IT, Sion	13th July 2020
1	National Level Webinar on "Cyber Security",organised by KJ Somaiya IE & IT, Sion	14th July 2020
1	National Level Webinar on "3D Printing-Key to 4 th Industrial Revolution",organised by KJ Somaiya IE & IT, Sion	15th July 2020
3	Awareness Quiz For COVID-19 (UBA 2.0)	April,2020

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	The Bits and Bytes of Computer Networking	6 Weeks
6	Introduction to the Internet of Things and embedded systems	4 weeks
8	Programming for Everybody (Getting Started with Python)	7 weeks
1	Cryptography and Information Theory	4 Weeks
3	The arduino Platform and C	4 weeks
2	Interfacing with Arduino	4weeks
1	Learning How to Learn: Powerful mental tools to help you master tough subjects	4 weeks
1	Programming Fundamentals	4 Weeks
1	Introduction to Structured Query Language SQL	4 Weeks
1	Mathematics for Machine Learning: Linear Algebra	5 weeks
4	Positive psychology	6 weeks
1	Getting started with AWS Machine Learning	5 Weeks

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
2	Python Data Structures	7 Weeks
2	Machine Learning Foundations:A Case Study Approach	6 Weeks
1	The Raspberry Pi Platform and Python Programming for the Raspberry Pi	4 weeks
1	Interfacing with the Raspberry Pi	4 weeks
1	Introduction to Data Analysis Using Excel	4 weeks
1	The Raspberry Pi Platform and Python Programming for the Raspberry Pi	4 weeks
1	Interfacing with the Arduino	4 weeks
1	Learning To Teach Online	5 Weeks
1	Using python to Access Web Data	6 Weeks
1	Introduction to the Internet of Things and embedded systems	4 weeks
1	Using Databases with Python	5 weeks
1	Capstone: Retrieving, Processing, and Visualizing Data with Python	7 weeks

Number of teachers who attended	Title of the professional development program	Date and Duration (from – to)
1	Introduction to HTML 5	4 weeks
1	DC Analysis	4 weeks
1	AC Analysis	4 weeks
1	Covid-19-Contact-Tracing	1 weeks
1	Our Earth's Future	4 weeks
1	Introduction to Big Data	3 Weeks
1	Introduction to Virtual Reality	6 Weeks
1	Coursera Specialization on "Developing Industrial Internet of Things" offered by University of Colorado Boulder	Link
1	Coursera Specialization on "Embedding Sensors and Motors" offered by University of Colorado Boulder	Link

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

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

Year	Sr. No.	Title of the program	Date and Duration (from-to)	Number of participants
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:

Sr. No.	Class	Topic Floated
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:

Group No	Name of the student	Title of the Project	Guide	Remarks
1	Pranjal Gujarati	Design and development of PCI input-output(I/O) Card	Ms. Meera Kharat	
	Amit Dehade			
	Aditi Garde			
2	Dinisha kutty	Designing of microstrip patch antenna	Dr.Avinash R.Vaidya	
	Supriya mane			
	Jenifar nadar			

Group No	Name of the student	Title of the Project	Guide	Remarks
3	Varun Chakravarty	Navigation Light Control System (NLCS)	Mr. Ravi Biradar	
	Aakash Sharma			
	Kshitij Shinde			
	Yogesh Raghupati			
4	Amar Ghorpade	Defender robot	Swati Patil	
	Suraj Bhikavale			
	Siddhi Bhise			
	Mainak Bhattacharjee			
5	G.S.S.Kumar Mantha	Hologram Projector	Mrs. Seema Mishra	
	Deepak Singh			
	Nandhini Perumal			
6	Rohit Datta	Humanoid	Mr.Ajit Saraf	
	Viraj Shirodkar			
	Priyadarshini Ghosh			
	Pushkar Khadke			

Group No	Name of the student	Title of the Project	Guide	Remarks
7	Omkar Adhav	Automatic Light Intensity based window blinds control system	Mrs.Monika Bhagwat	
	Vihang Naik			
	Mayank Krishna			
8	Praveen Kaydan	Robotic arm which uses suction to lift objects.	Mr.Ujwal Harode	
	Balu Surendra			
	Dikshita Oswal			
	Ayesha Miya			
9	Raturaj sawant Patel	Development of robotic sewerage blockage detector controlled by Embedded Systems.	Mrs.Padmaja Bangde	
	Shreyash nivagune			
	Mihir vedak			
	Saurav singh			
10	Snehal Tambe	Design of RF Signalling protocols for emergency vehicle rescue in trafic signal	Mrs. Deepti Nair	
	Lochana bhoir			
	Pratik pokharkar			
	Indrajit Bramhadande			

Group No	Name of the student	Title of the Project	Guide	Remarks
11	Siddhant Chabukswar	Home Automation using ATMEGA-328 Controller	Dr.Avinash R.vaidya	
	Sharvil Wadekar			
	Prajna Shetty			
	Aditi Sahu			
12	Shubham Rasam	Plant parameter monitoring system.	Mrs.Suchitra Patil	
	Abhishek Sharma			
	Rahul Mungekar			
	Rahil Nawab			
13	Rohan Ghag	Quadruped BOT using thermal camera.	Mrs.Padmaja Bangde	
	Swapnil Jadhav			
	Asad Kheratkar			
	Rushikesh Borate			
14	Rutuja Patil	Smart Flying Umbrella	Dr.R. H. Khade	
	Gautami Amin			
	Harshita Pujari			
	Bhavesk Kumawat			

Group No	Name of the student	Title of the Project	Guide	Remarks
15	Anagha Rane	Advanced Vehicle Security System with Theft control and Accident Notification.	Mrs.Uma K.S.	
	Rohit Bhagat			
16	Shubham Pawar	Vehicle movement based street light control using PIC	Mr..Ujwal Harode	
	Darpan Jabade			
	Laxman Pawar			
	Pratik Gaikwad			
17	Abhijeeth Mohandas	Voice Controlled Drone	Mrs. Seema Mishra	
	Pranav Nair			
	Punar Bhaglal			
18	Mukesh Pal	Remote controlled fully automated solar grass cutter using Microcontroller	Mrs.Uma K.S.	
	Mohammad Amir Shaikh			
	Aman Mishra			
	Jetendra Yadav			

Group No	Name of the student	Title of the Project	Guide	Remarks
19	Pratibha Mishra	A vehicle to vehicle communication protocol for co-operative collision warning	Mrs.Swati Patil	
	Saurabh Mhatre			
	Somnath Phadtare			
	Saurabh Hole			
20	Amit Kumar	Vehicle speed limiter project using Micro-controller and RF module	Ms. Meera Kharat	
	Roshan Katvi			

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 Electronics 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 Electronics 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 Electronics 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