Mahatma Education Society's

Pillai College of Engineering

Dr. K. M. Vasudevan Pillai Campus, Sector16,
New Panvel, Navi Mumbai (M.S.) 410206

INFORMATION FOR ACADEMIC AND ADMINISTRATIVE AUDIT OF THE DEPARTMENT
(2018-2019)
(Provide information for last A.Y. 2018-2019)

1. Name of the Department: **Electronics And Telecommunication Engineering**
2. Year of establishment: 2007
3. Programmes offered: UG, ~~PG~~, ~~Ph.D.~~
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
01	EXTC		Networking and its Fundamentals	2018-19	https://drive.google.com/file/d/1ARqdW8uT_byedq_vNdKIi7Ydmw1Tp3dr/view
02	EXTC		Workshop on Web Designing	2018-19	https://drive.google.com/file/d/1STjPUPbWUA3pxMvUiuhI1CPHeSzAsSJ4/view
03	EXTC		Workshop on LABVIEW	2018-19	https://drive.google.com/file/d/19C4ltYUdWyo6TXrzt1PeCzzmLkFJy66h/view
04	EXTC	Electronics and Telecommunication Engineering	Workshop on DBMS-SQL	2018-19	https://drive.google.com/file/d/1JTLgw9EjOWvWw8KzbOQwKIaavfU4u-ql/view
05	EXTC		Workshop on Advanced Web Development	2018-19	https://drive.google.com/file/d/1jS4SK8Z3uOQoQ5KP8RR2KP3i0gG7pkbE/view
06	EXTC		Workshop on Python	2018-19	https://drive.google.com/file/d/1mCGlumvAmiuqpC_PPJNtBNunrzQqPzEN/view
07	EXTC		Workshop on Machine Learning	2018-19	https://drive.google.com/file/d/1Y_DILSvSZLXg7N7QLA8cANLsty7fSLRM/view
08	EXTC		Workshop on Arduino - I	2018-19	https://drive.google.com/file/d/1tovtoEsbT5wrVMiI0czBpa2mZVmEOSyG/view

| 09 | EXTC | | IOT Workshop | 2018-19 | https://drive.google.com/file/d/1D9WtkrVyo0pgkoYTjTxdMLTo6T-VSgOd/view |
| 10 | EXTC | | NPTEL | 2018-19 | https://docs.google.com/spreadsheets/d/1vurn0KERGFC-L7Z6BJpX0kCTvY5lqzLHQyi88SUwUUM/edit?ts=5cb85214#gid=0 |

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
NA			

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
Microprocessors and Peripherals Interfacing	Undergraduate Electronics & Telecommunication Engineering		ECC 501	2018-19	https://drive.google.com/file/d/1JxsmJdUGIs_KgagxZvYvlUJPA-x4SWv5/view
Digital Communication			ECC 502	2018-19	
Electromagnetic Engineering			ECC 503	2018-19	
Discrete Time signal Processing			ECC 504	2018-19	
Microprocessors and Peripherals Interfacing Lab			ECL 501	2018-19	
Digital Communication Lab			ECL 502	2018-19	
Business Communication and Ethics Lab			ECL 503	2018-19	
Open Source Technology for Communication Lab			ECL 504	2018-19	
Microelectronics			ECCDLO 5011	2018-19	
TV & Video Engg			ECCDLO 5012	2018-19	
Finite Automata Theory			ECCDLO 5013	2018-19	

Data Compression and Encryption			ECCDLO 5014	2018-19	
Microcontroller & Applications			ECC601	2018-19	
Computer Communication Networks		3	ECC602	2018-19	
Antenna & Radio Wave Propagation			ECC603	2018-19	
Image Processing & Machine Vision			ECC604	2018-19	
Microcontroller & Applications Lab			ECL601	2018-19	
Computer Communication Networks Lab			ECL602	2018-19	
Antenna & Radio Wave Propagation Lab			ECL603	2018-19	
Image Processing & Machine Vision Lab			ECL604	2018-19	
Digital VLSI Design			ECCDLO 6021	2018-19	
Radar Engineering			ECCDLO 6022	2018-19	
Database Management System			ECCDLO 6023	2018-19	
Audio Processing			ECCDLO 6024	2018-19	

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

Name of all programs	Whether adopting CBCS course system(yes/no)	Whether adopting elective course system(yes/no)	Program Code	Year of implementation of CBCS/ elective course system	Link the relevant document
EXTC	YES	NA	SE EXTC	2016-17	https://drive.google.com/drive/u/2/folders/1qSEPm86doo0mXAfzZmpdtgyAJKy193dy
	YES	YES	TE EXTC	2017-18	
	YES	YES	BE EXTC	2018-19	

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
DEC 2018	Networking and it's Fundamentals	Certificate	22
MAY 2019	Networking and it's Fundamentals	Certificate	07
2018-19	Workshop on Web Designing	Certificate	23
2018-19	Workshop on LABVIEW	Certificate	32
2018-19	Workshop on DBMS-SQL	Certificate	28
2018-19	Workshop on Advanced Web Development	Certificate	28
2018-19	Workshop on Python	Certificate	43
2018-19	Workshop on Machine Learning	Certificate	45
2018-19	Workshop on Arduino - I	Certificate	82
2018-19	IOT Workshop	Certificate	51
2018-19	NPTEL	Certificate	02

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

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

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

Program name	Program code	No of students undertaking field projects / internships	Link the relevant document
EXTC	B.E.	03 (Field Projects) 138 (Inhouse Projects)	
EXTC	SE,TE,BE	98 Internships	https://docs.google.com/ spreadsheets/d/1H0jNq4 uvlrT1QtLU70- jS3ISUG2mQNjC1qwu F9h2NkE/edit#gid=155 4137095

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	Alumni	EXTC	Preparing Students for Entrance Exams	Gate training Session is conducted for final year EXTC and ETRX students	https://drive.google.com/open?id=1zJAlSvv4R_ehcsyKVRq1vExgGvD6BIom
2	Student	EXTC	Need more practice session for Bessel Functions	Conducted 1 hour extra lecture with emphasis on applications of Bessel Functions and Conducted 2 hours batch wise tutorial per week to give students practice of Bessel Functions	https://drive.google.com/open?id=16jv5-IraHR7T8wXa2LD_9j859FLX1tEN
3	Teachers	EXTC	Introduction to PCM, Delta should be added	Covered in content beyond syllabus	https://drive.google.com/open?id=1wEPLdqbPacK08AOdQ_UurfgHz9gUVLzE
4	Teachers	EXTC	IV should be arranged for such applicative subjects	IV was arranged to Doordarshan for TE EXTC students on 8th October 2018	https://drive.google.com/open?id=1FT11QTEcPATCpa2u4vdnxWKul0dYAsLS
5	Teachers	EXTC	There should be Workshop on Python Programming	Workshop on Python was conducted on 9th March 2019	https://drive.google.com/open?id=14iy48IXLiODCIRtNEHF7gJ6B_087SUVW
6	Teachers	EXTC	Some Workshop should be arranged for students for better understanding of the subject	Workshop is conducted for the students on DBMS SQL by Prof.Smita Joshi on 2nd Feb 2019	https://drive.google.com/open?id=1gv2H2VZE-wxcjPRjc8qrRifwhAv8pJqp
7	Teachers	EXTC	Books and syllabus coverage is adequate but still many examples or topics covered in CCNA/MCSE courses can be added.	Prof. Harsha Sharma successfully conducted course on "Networking and it's Fundamentals" during Dec 17th-21st. 2018	https://drive.google.com/open?id=1gaoWHCu6Lxj3OByyJTkiQL637NUL0pUf

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

Year of enrolment	Number of students enrolled from other states	Number of students enrolled from other countries	Link of the relevant document
2018-19	01	NIL	https://docs.google.com/spreadsheets/d/1c4cDqNVXwI7svSE4mXDQRhm7ML4wUtvQr-EPrc0cHHQ/edit#gid=1211825087
2017-18	01	NIL	https://docs.google.com/spreadsheets/d/1fPVgi2MMVOQxWuClYVCG6RKKr1lj8DKZd5s-Dorrf5M/edit#gid=1142085868
2016-17	02	NIL	https://docs.google.com/spreadsheets/d/1j-GL5ZCHc_X9f5t-PncIHTHgZtFUHraWhHCxS1Jq-j8/edit#gid=312442627
2015-16	02	NIL	https://docs.google.com/spreadsheets/d/1fl_y9U1jy-_hMff7APsocaapjhL4hd1aoCaHYxXzXUY/edit#gid=912370418
2014-15	NIL	NIL	https://docs.google.com/spreadsheets/d/1sVzLy3WNy1VUoZ8Eioio6DaLGFM1YZ1fzjjzuB88cVU/edit#gid=880405310

13. Total number of students admitted in the department:

Year	Program name	Program Code	Total Number of Seats Sanctioned	Total Number of students admitted
2018-19	EXTC	FE (2018-19)	120	82
2017-18		FE (2017-18)	120	105
2016-17		FE (2016-17)	120	94
2015-16		FE (2015-16)	120	82
2014-15		FE (2014-15)	120	83

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

29 % of total sanctioned seats	Year	Number of seats earmarked for reserved category as per GOI or State Government rule			Number of students admitted from the reserved category				
		SC	ST	OBC	SC	ST	OBC	Gen	Others
35	2018-19	16	8	23	--	--	08	72	02

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

15. Special programmes conducted by the department for advanced learners and slow learners: Provide the list along with the proofs for the activities undertaken by the department for advanced and slow learners.

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 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 organised where faculty members, and mentors interact with the parents of all learners and update them about the performance of their ward. It helps to enhance the performance of slow learners and groom advanced learners.

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

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

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

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

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

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

Students having orientation towards research are motivated to present their work at conferences and competitions suchas 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 won 1st place in the AICTE hackathon in 2019 and well as in 2018.

16. *Student- Full time teacher ratio:*

Year	Number of students enrolled in the department(UG)	Number of students enrolled in the department (PG)	Number of full time teachers in the department (UG)	Number of full time teachers in the department (PG)	Number of teachers teaching both UG and PG courses	STR
2018-19	360	NA	18	NA	--	20:1

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

Designation	Sanctioned	Filled
Professor	02	01
Associate Professor	04	04
Assistant Professor	12	13
Total	18	18

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

Year	Total No. Full time teachers	No. of teachers with PhD
2018-19	18	01

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

Year	No. Of Full time Teachers	No. of teachers received awards/recognition/fellowship at State/National/International level	Relevant link
2018-19	18	02	

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

Year	No. Of Full time Teachers	No. of teachers from other states
2018-19	18	NIL

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 JAN-JUNE 2019 (FOR FE, SE, TE & BE)

JAN			FEB			MARCH			APR			MAY			JUNE		
TU	1		FR	1	18	FR	1	31	MO	1	48	WE	1	MAHARASHTRA DAY	SA	1	
WE	2	STAFF RETURN	SA	2	19	SA	2		TU	2	49	TH	2	VIVA/PRACT END	SU	2	
TH	3		SU	3		SU	3		WE	3	50	FR	3		MO	3	
FR	4	FACULTY MEETING	MO	4	20	MO	4	MAHASHIVRATRI	TH	4	51	SA	4		TU	4	
SA	5		TU	5		TU	5	32	FR	5	52	SU	5		WE	5	RAMZAN EID
SU	6		WE	6		WE	6	33	SA	6	GUDHI PADWA	MO	6		TH	6	
MO	7	CLASSES BEGIN	TH	7	ALEGRIA 2019	TH	7	34	SU	7		TU	7	THEORY EXAM STARTS	FR	7	
TU	8	CTFC 2019	FR	8	THE FESTIVAL OF JOY	FR	8	DEFAULTER ALERT- II	MO	8	FINAL DEFAULTERS LIST	WE	8		SA	8	
WE	9	NON INSTRUCTIONAL	SA	9		SA	9	IN LIEU OF 2/03/2019 PTM I	TU	9	54	TH	9		SU	9	
TH	10	2	SU	10		SU	10		WE	10		FR	10		MO	10	
FRI	11	MAKERS DAY	MO	11	21	MO	11	36	TH	11	INTENSIVE STUDY, MAKE-UP CLASSES	SA	11		TU	11	
SA	12	ALUMNI MEET 2019	TU	12	22	TU	12	37	FR	12		SU	12		WE	12	
SU	13		WE	13	23	WE	13	38	SA	13	SHRI RAM NAVAMI	MO	13		TH	13	
MO	14	4	TH	14	24	TH	14	39	SU	14	AMBEDKAR JAYANTI	TU	14		FRI	14	
TU	15	5	FRI	15	25	FRI	15	40	MO	15		WE	15		SA	15	
WE	16	6	SA	16	DEFAULTER ALERT-I FACULTY SEMINAR SERIES	SA	16	FACULTY SEMINAR SERIES	TU	16	INTENSIVE STUDY, MAKE-UP CLASSES	TH	16		SU	16	
TH	17	7	SU	17		SU	17		WE	17	MAHAVIR JAYANTI	FR	17		MO	17	
FR	18	8	MO	18	INTERNAL ASSESSMENT TEST I	MO	18	41	TH	18	SUBMISSIONS	SA	18	BUDDH POURNIMA	TU	18	
SA	19	FACULTY SEMINAR SERIES	TU	19	SHIVAJI MAHARAJ JAYANTI	TU	19	42	FR	19	GOOD FRIDAY	SU	19		WE	19	
SU	20		WE	20	INTERNAL ASSESSMENT TEST I	WE	20	43	SA	20	SUBMISSIONS, FACULTY SEMINAR SERIES, CLASSES END	MO	20		TH	20	
MO	21	9	TH	21		TH	21	DHULIVANDAN	SU	21		TU	21		FR	21	
TU	22	10	FR	22	26	FR	22	44	MO	22	VIVA/PRACT BEGIN	WE	22		SA	22	
WE	23	11	SA	23		SA	23		TU	23		TH	23		SU	23	
TH	24	12	SU	24		SU	24		WE	24		FR	24		MO	24	
FRI	25	13	MO	25	27	MO	25	45	TH	25		SA	25		TU	25	
SA	26	REPUBLIC DAY	TU	26	28	TU	26	46	FR	26		SU	26		WE	26	
SU	27		WE	27	29	WE	27	47	SA	27		MO	27		TH	27	
MO	28	14	TH	28	30	TH	28	INTERNAL ASSESSMENT TEST II	SU	28		TU	28		FR	28	
TU	29	15				FR	29		MO	29		WE	29		SA	29	
WE	30	16				SA	30		TU	30		TH	30		SU	30	
TH	31	17				SU	31					FR	31				

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

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

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

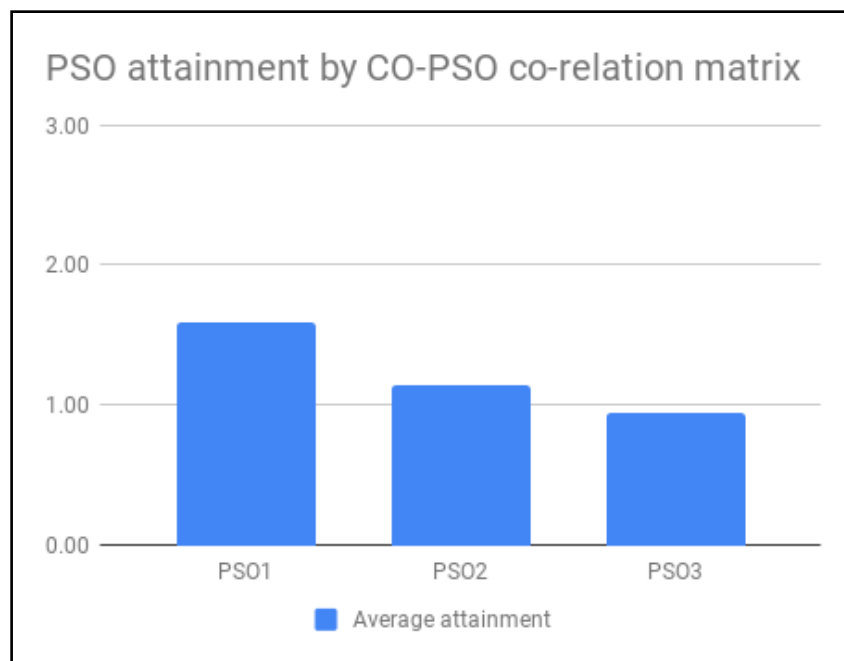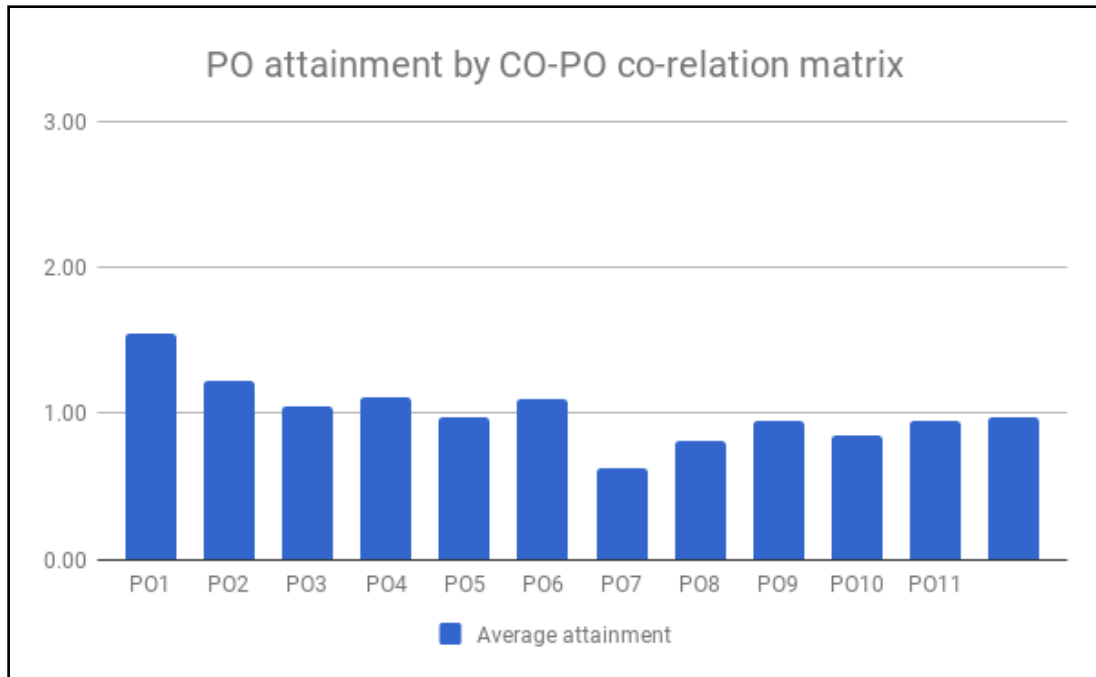| JUL			AUG			SEPT			OCT			NOV			DEC		
SU	1		WE	1	19	SA	1	PTM-1	MO	1	54	TH	1		SA	1	
MO	2		TH	2	20	SU	2		TU	2	55	FR	2		SU	2	
TU	3		FR	3	21	MO	3	40	WE	3	56	SA	3	ORAL/PRAX END	MO	3	
WE	4		SA	4	22	TU	4	41	TH	4	57	SU	4	GURU NANAK JAYANTI	TU	4	
TH	5		SU	5		WE	5	42	FR	5	58	MO	5		WE	5	
FR	6	STAFF RETURN	MO	6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

INDICATES TENTATIVE SCHEDULE, COULD UNDERGO CHANGES AS PER EXIGENCIES

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

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

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

(Note:-The above graph shows direct attainment of POs and PSOs for LYG 2018-19)

24. Result Analysis:

Program Code	Program Name	Level/Semester	Number of students appeared in the exam	Number of students passed in the exam
EXTC	Electronics and Telecommunication.	VIII	133	99
		VII	134	103
EXTC	Electronics and Telecommunication.	VI	138	73
		V	138	52
EXTC	Electronics and Telecommunication.	IV	142	98
		III	142	73

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
01	A four band Notched Monopole antenna for bluetooth and Ultra wide band application	Dr. Avinash Vaidya	EXTC	2018-19	Rs. 25000/-	01 YEAR	Mumbai University	Government	https://drive.google.com/file/d/1fy7BT5gOFUFo0vKY-WwY9NnorgTUs1qr/view

26. Details of the teachers recognized as research guides:

SN	Name of teachers recognized as research guides	PG / PhD Recognition	Department	Year of Recognition
01	Dr. Avinash R. Vaidya	PG	ETRX	2018
02	Mr. Pragnesh Shah	PG	ETRX	2012
03	Ms. Jayashree Bhosale	PG	ETRX	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-AcademiaInnovative practices)
01	2018-19	3 Months Course on IPR and Patenting	Jan 2019 to April 2019	IPR
02		Seminar on Intellectual Property	7th Februrary 2018	IPR
03		3 Months Course on IPR and Patenting	Jan 2018 to April 2018	IPR

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
01	Tusharika Banerjee	Bharat ShikshaRatan Award 2018-19	Economic Growth Foundation "Individual Achievement Intellectual Excellence & National Development under National Achievers Recognition Forum"
02	Tusharika Banerjee	Asia Pacific International Educational Excellence Award, February 2019	Achievers Association for health and Educational Growth at Indo-Thai Friendship Summit, Bangkok

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
01	Speech Recognition By Intelligent Surface	Ms. Suchitra A. Patil	EXTC	IJSART	2018-19	ISSN : 2395-1052	http://ijsart.com/Content/PDFDocuments/IJSARTV4I724338.pdf

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
01	Mr. Yogesh Kene	--	A Survey of Image Classification and Techniques for Improving Classification Performance	Proceedings 2019: Conference on Technologies for Future Cities (CTFC)	CTFC 2019	INTERNATIONAL	2019	ISBN 978-93-82626-27-5	Pillai College of Engineering	PCE	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3349696
	Dr.Avinash R. Vaidya	--	Design and Testing of Dielectric Loaded High Gain Microstrip Antenna	Antenna Test & Measurement Society (ATMS-INDIA-19)	ATMS 2019	INTERNATIONAL	JULY 2019		Pillai College of Engineering	ATMS	Accepted Paper

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

Sr. No	Program Details	Collaborating Agency	Number of Participated Students	Remarks
01	Women's Day Celebration	ETSA Student Council	40 Students	30 Faculty Members also Participated

02	Anubhav	ETSA Student Council	200 Students	A talk by Final Year Students
03	Community Service Day	ETSA Student Council and MES	45 Students	05 Faculty Members
04	National Calamity Fund	MES	10 Students	Collection and Donation of different commodities to CM relief fund

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
			NA		

33. Details of extension and outreached 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
			NA		

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
			NA		

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
01	Internship	BSNL Earth Station, Yeur	2018-19	05 Days	Internship
02	Field Trip	DoordarshanSahayadri Kendra, Worli, Mumbai	2018-19	01 Day	Field Trip

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
01	Frankilin Electric Grid Solutions, USA		2018-19	3 Yrs	Internships	2 students
02	Access Telematics Systems		2018-19	3 Yrs	Internships	

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:

Total Number of students	Number of computers for students in working condition	Student Computer Ratio
501	116	4.3189

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
Light-board for visually dynamic video lectures	https://youtu.be/XLvN6o-0r3M
	https://youtu.be/Neg1Z7AdYLY
	https://youtu.be/voKb1JSc4Nw
	https://youtu.be/LCDcngH42r4
	https://youtu.be/tbNQSQEvftU
	https://youtu.be/98VH8CyIrnk
	https://youtu.be/hNb2LYH_PNQ

40. Details of maintenance of laboratory and classrooms:

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
VJNT	05			
OBC	41			
SBC	01			
SC	13			
EBC	117			

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
FELICITATION OF TOPPERS	6
FINANCIAL HARDSHIP	1
ACADEMIC ADVANCE SCHEME	82
TOTAL STUDENTS BENEFITTED	89

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
Guidance for competitive examinations	2018-19		
Career Counselling	2018-19	46	SMEC Labs Mr Naveen Nair - Office no.-209, 2nd Floor, Krishna Plaza, Opposite thane railway station ShivajiPath,Naikwadi,Thane West, Ghantali, Thane, Maharashtra 400602 Tel:088613 41460

Soft skill development	**2018-19**		
Remedial coaching	**2018-19**	35	Dr. Avinash R. Vaidya - avinashvaidya@mes.ac.in
Language lab	**2018-19**		
Bridge courses	**2018-19**	40	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		46	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		45	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		32	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		31	IEEE Prof. Padmaja Bangde (IEEE,PCE) - pbangde@mes.ac.in
		60	ESTA Prof.Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		80	ESTA Prof.Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		50	ESTA Prof.Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		110	ESTA Prof.Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in
		170	ESTA Prof.Apeksha S. Chavan (ESTA,PCE) - achavan@mes.ac.in

Yoga and Meditation	2018-19		
Personal Counselling	2018-19		

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

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

Number of students attending VET	Total number of students
121	445

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
1	Aditya Birla Science and Technology Company Pvt.Ltd	1.2L	EXTC
1	Imarticus Learning Pvt Ltd	3L	EXTC
2	LTI Ballard Estate, Mumbai 67525656	3.18L	EXTC
1	NEXA	1.2L	EXTC
2	Qspider, Andheri East , 7028350006	2.5L	EXTC
1	RelainceJio,Navi Mumbai	3.29L	EXTC
5	Reliance Retail, Ghansoli,44775000	3.1L	EXTC

4	Sutherland Global, Airoli, Navi Mumbai, Maharashtra 400708 022 4183 7884	2.5L	EXTC
2	TCS, Thane West, 67782000, caree@tcs.com	3.36L	EXTC

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
NA				

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	
75421							Siddhi Sankhe		

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
Qualifier Team In College Level Football Competition Organised By Reliance Foundation	National	Sports	Kushal Surarna	01	2016PE0391

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

Sr. No	Departmental Student Chapter	Number of Students
01	Student Council	2
02	IEEE	5
03	ETSA	16

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

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

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

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

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	23-24 Feb 2019 and 10th March 2019	" FLASK: Python web framework"	Dhiraj Amin	35	3 Days
2	27th Feb 2019	Seminar on " Software engineering and project management " for TE IT students by Shivkumar	Shivkumar Vishwakarma	28	1 Day
3	8th March 2019	Women's Day Celebration	Apeksha Chavan	30	1 Day
4	15th and 16th March 2019	" Internet of Things "	Mimi Cherian		2 Days
5	22nd February, 2019	" Internet of Things "	RuchiraPatole	41	1 Day
6	2nd March 2019	Web Development	Akhil Menon		1 Day
7	4th Nov 2018	Flask Python Web Framework	Dhiraj Amin	33	1 Day
8	2nd October 2018	Basic Concepts of Python	Dhiraj Amin	100+	1 Day

9	2nd and 9th August 2018	LaTeX workshop	Ms. RuchiraPatole	42+34	2 Day
10	4th September 2018	Arduino	Ms. AboliKhedkar	82	1 Day
11	29 September 2018	Web Development	Mr. Akhil Menon and Mr. Vishnu Nair.	29	1 Day

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

Sr.No	Name of teacher	PAN	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support(RE MARK)
1	Dr. Avinash R. Vaidya	AGQPV0116N	ATMS 2019, Chennai	-----	10,000/-
2	Yogesh Kene	BOTPK3322K	NA	Indian Society of Remote Sensing (Life Membership)	3,500/-
3	Dr. Avinash R. Vaidya	AGQPV0116N	Conference on Technologies for Future cities 2019(CTFC-2019)		500
4	Pragnesh Shah		Conference on Technologies for Future cities 2019(CTFC-2019)		500
5	Jayashri Bhosale	AIDPB9946K	Conference on Technologies for Future cities 2019(CTFC-2019)		500
6	Ms. Tusharika Banerjee	BZMPS5559N	Conference on Technologies for Future cities 2019(CTFC-2019)		500
7	Liril C George	ASZPC0977H	Conference on Technologies for Future cities 2019(CTFC-2019)		500
8	Sweta Waghmare	ABNPW1874A	Conference on Technologies for Future cities 2019(CTFC-2019)		500
9	Ms. Simon Florence Francis	GIGPS7755L	Conference on Technologies for Future cities 2019(CTFC-2019)		500
10	Dinesh Tiwari	AIKPT9882H	Conference on Technologies for Future cities 2019(CTFC-2019)		500

11	Yogesh V Kene	BOTPK3322K	Conference on Technologies for Future cities 2019(CTFC-2019)		500
12	Harsha Sharma	CCHPS2836P	Conference on Technologies for Future cities 2019(CTFC-2019)		500
13	Ms. Manisha Singh	DPCPS5350M	Conference on Technologies for Future cities 2019(CTFC-2019)		500
14	Ms. Pratiksha Patil		Conference on Technologies for Future cities 2019(CTFC-2019)		500
15	Dr. Avinash R. Vaidya	AGQPV0116N	Conference on Polymer Processing		150
16	Ms. Simon Florence Francis	GIGPS7755L	Conference on Polymer Processing		150
17	Ms. Simon Florence Francis	GIGPS7755L	Mumbai Area Complex Systems Conference 2018on 19th November 2018		100
18	Ms. Manisha Singh	DPCPS5350M	Mumbai Area Complex Systems Conference 2018on 19th November 2018		100
19	Ms. Tusharika Banerjee	BZMPS5559N	Mumbai Area Complex Systems Conference 2018on 19th November 2018		100
20	Ishmeet Singh	BZIPR4053A	Mumbai Area Complex Systems Conference 2018on 19th November 2018		100

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)
01	STTP on MIS	----	01 – 05 July 2019	----	42	----
02	Workshop on LaTeX	----	01 Sept 2018	----	08	----

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

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

Name of the non government funding agencies/ individuals	Funds/ Grants received in Rs.	Initiative
Cisco Academy Support Center	20200	

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 learningoutcomes:
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 atPCE which include.
AMS(Attendance Monitoring System): Used for updating student attendance record, report generation, lecture planning and viewing student feedback.
Student Portal: Used for admission, Exam form filling, individual results,
Faculty Portal: Faculty Portal helps to effectively monitor the development of PCE faculty based on his/ her contribution in terms research publications, paper assessment details, roles and responsibilities during an academic year.
Online Feedback and Course Exit Survey: PCE in its efforts to provide best quality education to its students have highly skilled faculty. However student feedback of teachers is equally important to understand if the students are maintaining correct pace with the teachers or the concerned teachers need to make adjustment/correction according to needs of the students.
MMP portal: In mentor mentee portal, all the mentors and mentees can log in through their mes mail id. All the mentees have to fill and update the mentee registration form every semester. This portal has all the data of mentors as well as mentees.

2. Enhancement of quality:

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
2018-19	01	MOU for Development Program for girls	2019	
	02	International Women's Day	6th March 2019	45
	03	Building Resilience - A key to Women Empowerment	6th March 2019	53
	04	Hackathon (Odd sem)	2018-19	06
	05	Hackathon	2018-19	03
	06	Girls in Tech	2018-19	03

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

Sr No	Class	Topic Floated
01	Second Year	Smart Mirror Smart Garbage Bin Coin / Colour Sorter IC Tester Design a multimeter using Arduino Energy Harvesting using Piezoelectric sensors Design of IR sensor based counter using Arduino Digital Dice to Display Two dice Fastest Finger First Design a multimeter using Arduino
02	Third Year	Smart Watch Smart Calculator

61. Details of the final year project:

Sr No	Project Title	Group Members	Guide	Industry Concerned	Outcome/ Benefit
1	Mathematical Modelling Of RF Wave Propagation Models In VHF/UHF Band.	De SukanyaSwapankumar Nath SabyasachiSada Nanda Kaydalwar Sumeet Mukesh	Suman Wadkar	BARC	Exposure to Industrial needs

Sr No	Project Title	Group Members	Guide	Industry Concerned
1	Design of High Speed Adder using VHDL	Bhatuse Akash Shruti Pingale	Mrs. Padmaja Bangde/ Mr. Ishmeet Singh Riar	

		Abhinav verma		
		Avinashkumar Mishra		
2	Automatic Smart Parking System using Internet of Things	Nair Aishvarya Narayanan	Mrs.Sonali Kathare	
		Nair Shreya Sunil		
		Nambiar Sarang A Gokuldas		
		Nambiar Sidharth Rajagopalan		
3	Smart Traffic Control based on Video Images	Alekh Satheesh Kumar	Mr.Ajit Saraf/ Mr.Yogesh Kene	
		Bhole Shweta Sanjay		
		Chavan Siddhesh Mahadeo		
		Ghadage Manoj Atmaram		
		Nath Sabyasachi Sada Nanda		
		Kaydalwar Sumeet Mukesh		
4	Crop Disease detection using image processing / Opencv and Rasberry Pi	Bangera Shobna Shamsunder	Mrs.Suchitra Patil	
		Channapnor Umesh Rajendra		
		Dash Anushree Satynarayan		
		Jadhav SupriyaUmaji		
5	IOT Irrigation Monitoring & Controller System	Jaiswar Abhishek Dharmraj	Mrs.Sweta Waghamare	
		Khairnar Shubham Walmik		
		KoliDhawal Ravindra		
		Mishra ShivamRamsagar		
6	Speech Detector Robotic Vehicle Control	Gupta Ashish Kanhaiyalal	Mr.Ujwal Harode	
		Lobo Jenivia Alex		
		M.S Sriya Mohan		
		Nadar Suryaraja Jawaharlal		
7	Raspberry Pi and GSM based automatic driver drowsiness alert system:-	Dubey Keerti Mahendra	Mrs.Rubina Shaikh	
		KharcheSumitSuhas		
		KaseraVikas Rakesh		
		Mundhe Pooja Subhash		
	Wireless Library	Bait Aniket Pravin	Mrs.Sonali Kathare	

8	Book Catalogue System.	Bhosale Aakash Ramesh		
		Bobade Pankaj Kalidas		
		Dingankar Omkar Mahesh		
	Safety Electronics for Railway Bridge	GhorpadeTejas Ananda	Ms.Meera Kharat	
		Jaiswal Arunkumar Bhanupratap		
		KakdeDattatryDilip		
9 10	Arduino based Mind-Controlled Robot using EEG Signal.	Borkar Mandar Rajendra	Mrs.Rubina Shaikh	
		Dabharwala Abdul Qadir Saifuddin		
		Daki Darshan Mahendra		
		Karkera Sachin Devdas		
11	Heart beat rate measurement using fingertip.	Lokare Mayur Raghunath	Mrs. Sneha Chikodi/ Mrs. Aboli Khedkar	
		Madhavi Saurabh Sunil		
		MalviRupal Surendra		
		Nair Adarsh Mohan		
12	Internet of Things Based Intelligent Street Lighting System for Smart City	A NavinSatheeshan	Ms.Meera Kharat	
		Admuthe Yash Sachin		
		Gade Aarti Vithal		
		Gangan Siddhi Sunil		
13	Weather based smart home solar power management with IOT	Choudhary Jitendra Mangilal	Mrs.Swati Patil	
		Godase Vaibhav Vasant		
		Jadhav Akshay Sanjay		
		Jagtap Mayur Sambhaji		
14	Development of Smart Bike Helmet using RF, GSM and GPS Modules.	Gaonkar Pradnya Ramchandra	Mrs. Deepti Nair	
		Jadhav Mahesh Somanath		
		KatkarMinal Dattatray		
		Khan Ziyaur-Rehman Moiz		
15	Anti theft security system for electronic equipments using	Parkar Saifallah Liyakat	Mr.Ajit Saraf	
		Shaikh Mohammad Sohaib		

		MEMS sensor and zigbee based on MSP430/ARM/PIC.			
16	Design of a colour sensing system for Textile Industries	Kadam Pratiksha Ravindra	Mrs.Sonali Kathare	
		Kamble Supriya Madhavrao		
		Chavan Shivani Shrimant		
		Pratima Kamble		
	Car to Car Communication based on GPS and WI-FI	Junghare Rohan	Mr.Anup Vanage	
		Gaurav Mandhare		
		JayendraPingale		
17	Raspberry Pi based electronic voting machine.	Patil Satej Surendra	Mr. Ameet Mehta / Mrs. Aboli Khedkar	
		Salati Awaij Shakil		
		Samant Parth Sakharam		
		Shetty Sindhoora Prabhakar		
18	IOT based Smart Restaurant Management System.	Parande Ankita Pramod	Mrs.Deepti Nair	
		Paras Yagyesha Sanjay		
		Patel Bhakti Kanti		
		Shirodkar Akshay Deepak		
19	Smart waste management system based on IOT (Using Rasberry Pi)	Sen Himanshu Sunil	Mrs. Apeksha Chavan	
		Singh Vipulkumar Sunil		
		Yadav Sandesh Subhash		
		Yerra Dilipkumar Chandrarao		
20	Multipurpose Rolling Display and Voice announcement system for the Institutes using ARM cortex M3/MSP 430.	Patil Ankita Mohan	Mr. Ajit Saraf	
		Patil Nikita Popat		
		Patil Prachi Babasaheb		
		Patil Snehal Vilas		
21	Smart Helmet using small non-invasive display combined with a speech recognition	Dayanand Juwatkar	Mrs. Suchitra Patil/ Mrs. Harsha Sharma	
		Yogesh Dandekar		
		Pratik Parikh		

		Mahima Sankar Mitra		
22	Intensity controlled Solar street lights (based on its operation like in peak hours)	Snehal Padekar	Mrs. Apeksha Chavan	
		Gaurav Patil		
		Prashant Patil		
		Shivani Pawar		
23	Zigbee Based Room Temperature Controller	Thali Apeksha Gopinath	Dr. S. K. Srivastava	
		Waydande Supriya Khandu		
		Yadav Shweta Pralhad		
		Pandey Sneha Bhuwan		
24	Real-Time Air Quality monitoring system.	Shetty Divya Shridhar	Mrs. Monika Bhagwat/ Mrs. Aboli Khedkar	
		Shinde Pradnya Jaysing		
		Shivalkar Palak Prashant		
		Sneha Suresh		
25	Fingerprint based biometric voting machine using Raspberry PI	Prasannan Venkatesh	Dr. R. H. Khade	
		Bhangale Abhijeet		
		Nahare Sagar		
		Chitte Utkarsh		
26	Energy Management System With Programmable Numbers using GSM	Pardeshi Shubham Rajendra	Dr. S.K. Srivastava	
		Patel Ankit Dinesh		
		Patil Aishwarya Sanjay		
		Nair Sooraj N		
27	Intelligent Blinker to improve visibility at night	Rishi Kumar Anil	Mrs. Sweta Waghamare/ Mrs. Harsha Sharma	
		Salvi Yash Manohar		
		Sankhe Siddhi Deepak		
		Manjunath Hulkoti		
28	Face Recognition attendance system using Machine Learning.	Ruskin Joel Manoharan	Mrs. Padmaja Bangde/ Mrs.Aboli Khedkar	
		Sherifani Simran Amit		
		Shinde Swapnil Prakash		
		Singh Akash Bharatraj		

29	Trendy Home or Energy management system	Patil Priyanka Gajanan	Mrs.Tusharika Banerjee	
		Potare Apeksha Subhash		
		Deshmukh Pooja Sanjay		
30	Green Campus with internet of things	Patil Rushikesh Rohidas	Mrs.Monika Bhagwat	
		Rane Vaibhav Shyam		
		Shaikh Sarique Tarique		
		ShelarPraful Ananda		
31	Aqua Robot	Sable Akshata Anil	Mrs.Jayshree Bhosale	
		Sawant Santosh Ashok		
		Sayyed Azhar Altaf		
		Singh Ritu Vinod		
32	IOT Paralysis Patient Health Care Project	Swamy Vignesh Suresh	Dr.S.K. Srivastava	
		Upadhyay Ankit Ashok		
		Yadav Ajay Virendra		
		Upadhyay Jigar Vakil Prasad		
33	Electronic Writing Machine	Uttekar Akshay Laxman	Mr.Jayshree Bhosale	
		Wakodikar Yash Dilip		
		Yadav Nikhil Anil		
		ZingrutRutuja Gajanan		
34	Food Safety Device in real time from a smartphone application.	Peddeli Pranali Prabhakar	Mr. Ameet Mehta/ Mrs. Harsha Sharma	
		PriyaVerma		
		Thombare Nutan Sanjay		

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

Innovation and creativity are fundamental and essential qualities the the EXTC department seeks to develop both in its students andfaculty. 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 as "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 eOutreach program of IIT Bombay since 2012. Till date more than 30faculty development workshops encompassing variety of subjects including use of ICT in education have been conducted through the remote center. These courses have enriched 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 process 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 trainings which helps in improving their employability. Such courses and workshops are conducted after the normal working hours and mostly on weekends or in vacations.

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

7. Facilitating students for various Project Competitions is integral part of our college culture. Students regularly participate in project competitions like all India level Hackathons, project Deep Blueetc.

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.

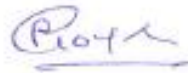**Declaration by the Head of the Department/Institution:**

I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

Dr. Avinash R. Vaidya
Head of Department

S M Joshi

P.S. Goyal.

Shamani Govilkar.

Manisha Bhagwat

Pragnesh

Priank

Sachin S. Wani