



**Mahatma Education Society's
Pillai HOC College of Engineering and
Technology, Rasayani**

1.1.1 The Institution ensures effective curriculum delivery through a well-planned and documented process

In each academic year, Faculty members prepare course academic plans for courses assigned to them. This includes course objectives, course outcomes, teaching plan, learning resources like text-books, reference books, periodicals, journals, experiment list, and other e-learning resources etc. It helps in effective implementation of the prescribed curriculum.

Here few samples of Documentary evidence of all the departments are attached like academic calendar, time table, Course academic plan etc.

University Academic Calendar:

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**Mahatma Education Society's
Pillai HOC College of
Engineering and Technology.**

**Pillai's HOC Educational Campus
Rasayani, Tal. Khalapur
Dist. Raigad, Pin-410 207**

Faculty of Science and Technology (Engineering)

The arrangement of terms for FE, DSE and First Year ME Engineering (Fulltime) all Programs/Branches for Academic Year 2022-23

I. Academic and Examination Plan for First Year Students of FE and ME (First Year)

Normally the Academic Year for First Year Engineering was commencing from 1st August of every year and ends by the end of May including winter break and semester examinations for Semester I and II. In general, the academic year of First Year Engineering usually of 10 months duration.

It is proposed to complete the academic year of First Year Engineering for academic year 2022-23 in 8 months without compromising with academics as the delayed admission process has reduced the AY by almost 4 months.

Following is the analogy to qualitatively address the academics even after compressing the term duration

In the current scheme of syllabus, C scheme, in general weekly contact hours are 25 and the available contact hours by considering 6 hours teaching per day and 6 days a week turns out to be 36 i.e. about 44% ($36/25 = 1.44$) additional contact hours are available for use.

Proposed academic activities (specifically teaching) is for 13 weeks or about 77 working days ($13 \times 6 = 78$). Considering 44% of additional contact hours, effective number of days comes to be 111 (which is more than mandatory 90 days of teaching).

If we add an additional 1 contact hour/subject and keep 6 instructional days/week, the content of the syllabus can be delivered in 10 to 11 weeks. Accordingly, the proposed semester dates for First Year Engineering are

FE and ME (First Year) Semester I*	14th November 2022 to 1st March, 2023
FE and ME (First Year) Semester II	6th March 2023 to 23rd June, 2023

* The date of Commencement of academic activities as per the admission notification published by State Admission Regulating Authority of Maharashtra State is 4th November 2022. However the CAP III round ends on 12th Nov 2022.

The Commencement of next Academic Year (i.e. 2023-24) for SE is 10th July 2023.

There are six modules in each subject of FE Semester I and Semester II. The term is reduced 11 to 12 weeks but not at the loss of academics. However, it is proposed to teach all modules to the students but questions will not be asked from one of the modules in End Semester Examinations, which are as mentioned below table.

Course code	Sem I Name of course	Module No	Course code	Sem II Name of course	Module No
FEC101	Engineering Mathematics I	VI	FEC201	Engineering Mathematics II	VI
FEC102	Engineering Physics I	VI	FEC202	Engineering Physics II	VI
FEC103	Engineering Chemistry I	III	FEC203	Engineering Chemistry II	II
FEC104	Engineering Mechanics	VI	FEC204	Engineering Graphics	VI
FEC105	Basic Electrical Engineering	IV	FEC205	C Programming	VI
--	--	--	FEC206	Professional Communication and Ethics – I	VI



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II. Special Academic and Examination Plan for Direct Second Year Engineering Students of Academic Year 2022-23

The lateral entry quota for Direct Second Year Engineering (DSE) admissions is 10% of the sanctioned intake of each program which comes out to be 6 students for a class of 60 intake. Hence it is not advisable and feasible to conduct their classes by defining a separate term of 90 days working for them.

Normally the date of commencement of Second Year Engineering classes for regular students in the University of Mumbai is between 5th to 10th of July every year.

Admission process for DSE students is generally completed in 1st / 2nd week of September every year and students start attending the classes accordingly along with the regular students.

All the students admitted through lateral entry had already studied approximately up to 50% content of the syllabus of Second Year Degree Engineering during their respective Three Years Diploma Programs. Considering this fact, each institute normally conducts additional classes for these students to bring them at par with the regular second year students. They are examined in the same examinations along with the regular students at the end of the semester III.

In the academic year 2022-23, the classes of Second Year Engineering for regular students have commenced on 18th July 2022 and the semester teaching ending on 22nd October, 2022. End semester examinations of Sem III will be completed by 3rd December 2022.

Considering the current situation, the admissions of DSE are delayed approximately by 4 months due to this these DSE students cannot study with the regular SE students in semester III. Under this circumstances, as a special case, these students shall be allowed to complete their Sem III and IV in an overlapped manner for some period to minimize the impact in terms of student's total period of graduation studies,

Considering the fact stated in point above i.e. These students have already studied approximately up to 50% content of the syllabus of Second Year Degree Engineering during their respective Three Years Diploma Programs, hence defining a separate term of 90 days is not required.

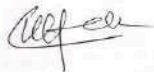
It is proposed that all the colleges have to conduct additional 50% classes in the month of November, December 2022 and January 2023 till Semester IV commences.

As the classes of Semester IV commence, DSE students can attend the Semester IV classes along with the regular students, however the additional classes for Semester III courses have to be scheduled and conducted in the subsequent months.

The examinations of Semester III for DSE students shall be conducted in February 2023.

These DSE students will appear their Semester IV examinations along with the regular students.

Thus the schedule for DSE special term for Semester III is 21st November, 2022 to 3rd February, 2023 (Including both the days). Semester IV along with the regular students.



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Associate Dean
Faculty of Science and Technology
University of Mumbai



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General Guidelines for Conducting Academic & examination Activities

All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of the **First Year Undergraduate (FE Sem I and II) and Postgraduate (ME Sem I and II) in Engineering programs** for Academic year 2022 – 23 will be as under: -
First Year and Undergraduate (FE) and Postgraduate (ME) in Engineering Programs

Sr. No	Particular	ODD Semester	Particular	Even Semester
1.	Working days for all courses First Year (FE Semester I) Undergraduate and Post Graduate (ME Semester I) Engineering (77 Working Days, all Saturdays working) 77 x 1.44* – 110.88 @ 111 Days	14 th November 2022 to 11 th February 2023	Working days for all courses First Year (FE Semester II) Undergraduate and Post Graduate (ME Semester II) Engineering (76 Working Days, all Saturdays working) 76 x 1.44* – 109.44 @ 110 Days	6 th March 2023 to 3 rd June 2023
2.	Oral / Practical Examination	13 th February 2023 to 17 th February 2023	Oral Practical Examination	5 th June 2023 to 10 th June 2023
3.	Theory Examination of FE Semester I and ME Semester I	20 th February 2023 to 1 st March 2023	Theory Examination of FE Semester II ME Semester II and FE Semester I and ME Semester I	14 th June 2023 to 23 rd June 2023
4.	Commencement of FE Semester II and ME Semester II	6 th March 2023	Commencement of Next AY	10 th July 2023

*1 contact hour extra per week per subject



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General Guidelines for Conducting Academic & examination Activities

All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of **Direct Second Year Undergraduate (DSE Sem III and Sem IV) in Engineering programs** for Academic year 2022 – 23 will be as under: -

Direct Second Year Undergraduate (DSE) in Engineering Programs Semester III and IV

Sr. No	Particular	ODD Semester	Particular	Even Semester
1.	Working days for all courses Direct Second Year (DSE Semester III) Undergraduate Engineering*	21st November 2022 To 14 th January 2023	Working days for all courses SE	9 th January 2023 to 15 th April 2023
2.	Oral Practical Examination of Semester III of DSE	16 th January 2023 to 21 st January 2023	Conducting Oral/Practical Examination SE	17 th April 2023 to 29 th April 2023
3.	Theory Examination of Semester III of DSE	25 th January 2023 to 3 rd February 2023	Theory Examination SE (SEM IV)	8 th May 2023 to 20 th May 2023
4.		---	Theory Examination SE (SEM III)	22 nd May 2023 to 3 rd June 2023
5.		---	Commencement of New Term	10th July 2023

*Considering 50% Syllabus to be taught in Semester III effective working days for Semester III = 48 Days
Overlapping of Semester III and Semester IV is for about 1 week.

** IA-1 of semester-IV for the DSE students can be conducted separately.

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General Guidelines for Conducting Academic & examination Activities

All the principals of the affiliated colleges in Engineering are hereby informed that the Detailed Schedule of the **First Year Undergraduate (FE Sem I and II) and Postgraduate (ME Sem I and II) in Engineering programs** for Academic year 2021 – 22 will be as under: -

First Year and Undergraduate (FE) and Postgraduate (ME) in Engineering Programs

Sr. No	Particular	ODD Semester	Particular	Even Semester
1.	Working days for all courses First Year (FE Semester I) Undergraduate and Post Graduate (ME Semester I) Engineering	13 th December 2021 to 26 th February 2022	Working days for all courses First Year (FE Semester II) Undergraduate and Post Graduate (ME Semester II) Engineering	28 th March 2022 to 18 th June 2022
2.	Oral / Practical Examination	28 th February 2022 to 5 th March 2022	Oral Practical Examination	20 th June 2022 to 25 th June 2022
3.	Theory Examination of FE Semester I and ME Semester I	7 th March 2022 to 16 th March 2022	Theory Examination of FE Semester II ME Semester II and FE Semester I and ME Semester I	27 th June 2022 to 6 th July 2022
4.	Commencement of FE Semester II and ME Semester II	28 th March 2022	Commencement of Next AY	18th July 2022



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Direct Second Year Undergraduate (DSE) in Engineering Programs Semester III and IV

Sr. No	Particular	ODD Semester	Particular	Even Semester
1.	Working days for all courses Direct Second Year (DSE Semester III) Undergraduate Engineering	10 th December 2021 to 5 th February 2022	Working days for all courses SE, DSE	10 th January 2022 to 30 th April 2022
2.	Oral Practical Examination of Semester III of DSE	7 th February 2022 to 12 th February 2022	Conducting Oral/Practical Examination SE, DSE	2 nd May 2022 to 12 th May 2022
3.	Theory Examination of Semester III of DSE	14 th February 2022 to 23 rd February 2022	Theory Examination SE, DSE (SEM IV)	16 th May 2022 to 28 th May 2022
4.			Theory Examination SE, DSE (SEM III)	30 th May 2022 to 11 th June 2022
5.			Commencement of New Academic Year	11th July 2022



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Institute Academic Calendar:


PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY, RASAYANI
 Khalapur, HOC Colony Rd, Taluka, Rasayani, Maharashtra 410207 Phone: 02192-669 000
ACADEMIC CALENDAR (JAN 2023- JUNE 2023) [FOR SE, TE & BE CLASSES]


JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE		
DAY	DATE	ACTIVITY	DAY	DATE	ACTIVITY	DAY	DATE	ACTIVITY	DAY	DATE	ACTIVITY	DAY	DATE	ACTIVITY	DAY	DATE	ACTIVITY
SUN	1		WED	1	17 EUPORIA	WED	1	35	SAT	1		MON	1	PL	THU	1	
MON	2		THU	2	18 EUPORIA	THU	2	36	SUN	2		TU	2	PL	FRI	2	
TUE	3		FRI	3	19 EUPORIA	FRI	3	37	MON	3	PRELIMS ESAY 22-23	WE	3	PL	SAT	3	Add on Activities
WED	4		SAT	4	Add on Activities	SAT	4	38	TUE	4	PRELIMS ESAY 22-23	TH	4	PL	SUN	4	
THU	5								WED	5	PRELIMS ESAY 22-23	FRI	5	PL	MON	5	WORLD ENVIRONMENT DAY
FRI	6	All Faculty Meeting	MON	6	20	MON	6	40	THU	6	PRELIMS ESAY 22-23	SAT	6	Add on Activities	TUE	6	
SAT	7		TUE	7	21	TUE	7	41	FRI	7	PRELIMS ESAY 22-23				WED	7	
SUN	8		WED	8	22	WED	8	42	SAT	8	Remedial Classes/ Re-Prelims	MON	8	Theory Exam (Actual date & TV declared by IOM)	THU	8	
MON	9	CLASS TE & BE ESAY 22-23 TERM BEGINS	THU	9	23	THU	9	42	SUN	9		TU	9		FRI	9	
TUE	10	2	FRI	10	24	FRI	10	43	MON	10	56 Remedial Classes/ Re-Prelims	WE	10		SAT	10	CLASS SE, TE & BE ESAY 22-23 TERM END
WED	11	3	SAT	11	Add on Activities	SAT	11	Add on Activities	TUE	11	57 Remedial Classes	TH	11	NATIONAL TECHNOLOGY DAY	SUN	11	
THU	12	4 NATIONAL YOUTH DAY	SUN	12		SUN	12		WED	12	58 Remedial Classes	FRI	12		MON	12	
FRI	13	5	MON	13	25	MON	13	44	THU	13	59 Remedial Classes	SAT	13	Add on Activities	TUE	13	
SAT	14	6 (HOD Meeting)	TUE	14	26 Study Camp	TUE	14	45	FRI	14	60 Remedial Classes	SU	14		WED	14	
SUN	15		WED	15	27 Study Camp	WED	15	46	SAT	15	61 Remedial Classes	MON	15		THU	15	
MON	16	7	THU	16	Internal Assessment 1	THU	16	47	SUN	16		TU	16		FRI	16	
TUE	17	8	FRI	17	Internal Assessment 1	FRI	17	48	MON	17	Oral/ Practical Exam	WE	17		SAT	17	
WED	18	9	SAT	18	Internal Assessment 1	SAT	18	Add on Activities	TUE	18		TH	18		SUN	18	
THU	19	10	SUN	19		SUN	19		WED	19		FRI	19		MON	19	
FRI	20	11	MON	20	28	MON	20	49	THU	20		SAT	20	Add on Activities	TUE	20	
SAT	21	Add on Activities	TUE	21	29	TUE	21	50	FRI	21	WORLD CREATIVITY AND INNOVATION DAY	MON	21		WED	21	
SUN	22		WED	22	30	WED	22	51	SAT	22	WORLD LAKE DAY	MON	22		THU	22	
MON	23	12	THU	23	31	THU	23	52 Study Camp	SUN	23		TU	23		FRI	23	
TUE	24	13	FRI	24	32	FRI	24	53 Study Camp	MON	24	Preparatory Leave (PL) for END term	WE	24		SAT	24	
WED	25	14	SAT	25	PTM ESAY 22-23	SAT	25	Add on Activities	TUE	25		TH	25		SUN	25	
THU	26	Republic Day	SUN	26		SUN	26		WED	26	PL	FRI	26		MON	26	
FRI	27	15	MON	27	33	MON	27	Internal Assessment 2	THU	27	PL	SAT	27	Add on Activities	TUE	27	
SAT	28	Add on Activities	TUE	28	34 NATIONAL SCIENCE DAY	TUE	28	Internal Assessment 2	FRI	28	PL	SU	28		WED	28	
SUN	29		WED	29		WED	29	Internal Assessment 2	SAT	29	PL	MON	29		THU	29	
MON	30	16	THU	30	54	THU	30	54	SUN	30		TU	30		FRI	30	
TUE	31	EUPORIA	FRI	31	55	FRI	31	55	MON	31		WE	31		SAT	31	

NUMBER 1 TO 61 INDICATES TENTATIVE TEACHING DAYS, MAY UNDERGO CHANGES [61 INSTRUCTIONAL DAYS, 6 IA DAYS, 6 STUDY CAMP DAYS, 5 PRELIMS DAYS]
 75% Attendance for Theory Classes And 100 % Attendance for Practical's compulsory
 20 Marks Test on Each Topic


 DR. J.W. BAKAL
 PRINCIPAL PFCCT



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Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
 Academic Calendar for the OSAY 2018-2019
 Second, Third & Fourth Year of Bachelor of Engineering

July 2018 (No. of Inst Days =20)							Aug 2018 (No. of Inst Days =25)							Sep 2018 (No. of Inst Days =20)									
Wk	Su	Mo	Tu	We	Th	Fr	Sa	Wk	Su	Mo	Tu	We	Th	Fr	Sa	Wk	Su	Mo	Tu	We	Th	Fr	Sa
1	1	2	3	4	5	6	7	5	Test I & Feedback			1	2	3	4	10	Mid Sem Break			7			
2	8	9	10	11	12	13	14	6	5	6	7	8	9	10	11	11	2	3	4	5	6	7	8
3	15	16	17	18	19	20	21	7	12	13	14	15	16	17	18	12	9	10	11	12	13	14	15
4	22	23	24	25	26	27	28	8	19	20	21	22	23	24	25	13	16	17	18	19	20	21	22
5	29	30	31	OSAY Starts				9	26	27	28	29	30	31	14	23	24	25	26	27	28	29	

Oct 2018 (No. of Inst Days =14)							Nov 2018 (University Examinations)							Dec 2018 (University Examinations)									
Wk	Su	Mo	Tu	We	Th	Fr	Sa	Wk	Su	Mo	Tu	We	Th	Fr	Sa	Wk	Su	Mo	Tu	We	Th	Fr	Sa
14	1	2	3	4	5	6	19	Oral & Practical Examinations			1	2	3	23	University Examinations			1					
15	7	8	9	10	11	12	13	20	4	5	6	7	8	9	10	24	2	3	4	5	6	7	8
16	14	15	16	17	18	19	20	21	11	12	13	14	15	16	17	25	9	10	11	12	13	14	15
17	21	22	23	24	25	26	27	22	18	19	20	21	22	23	24	26	16	17	18	19	20	21	22
18	28	29	30	31	Test 2 & Feedback			23	25	26	27	28	29	30	27	23	24	25	26	27	28	29	

Date	Auto	Civil	Comp	Elec	Extc	IT	Mech
Tue 3 July 2018	Faculty Meeting						
Wed 4 - 6 July 2018	Assignment Review						
Sat 7 July 2018	Departmental meeting						
Mon 9 July 2018	OSAY 18-19 Starts, SE, TE, BE Orientation Programme						
Sat 14 July 2018	Faculty Development Program I						
Sat 21 July 2018	Extension Activity I			Session by Internal Faculty/Guest	PCB Workshop Under IBTE		
Mon 29 July 2018	Project Based Learning Starts						
Fbu 26-28 July 2018	BE Project Proposal Presentation						
Mon 30 July 2018	NPTEL / Online Courses Starts	Internship Presentation	NPTEL online course - Starts				
Tue 31 July 2018	Submissions						
Thu 2 August 2018						FDP-IT	
Fri 3 August 2018		Workshop for TE students		PLC Workshop		FDP-IT	
Sat 4 August 2018		Workshop for TE students		Session by Internal Faculty/Guest	Guest Lecture	Workshop on Embedded Target	
Mon 5 August 2018	Expert Lecture I		IIT Sopken Tutorials - Starts				
Tue 7 August 2018		Class Test -1					
Wed 8 August 2018		Class Test -1					
Fri 10 August 2018		Guest Lecture					
Sat 11 August 2018	Faculty Development Program II		Career guidance by Alumni under ACM	Wiring Workshop	Industrial Visit GMRT Pune	Industrial Visit BE -IT	
Tue 14 August 2018				Competition Under IET Student Chapter			
Sat 18 August 2018					Latex Workshop Under IBTE		

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06/Jul/2018

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Date	Auto	Civil	Comp	Elec	Extc	IT	Mech
Mon 20 August 2018					Direct Second Year Orientation		
Thu 23-25 August 2018	Test 1						
Tue 28-30 August 2018	Feedback						
Thu 30 August 2018							Industry Expert Lecture
Fri 31 August 2018	Submissions						
Sai 1 September 2018	Faculty Development Program III				Industrial Visit		
Wed 5 September 2018				Teacher's day celebration			
Thu 6 September 2018				Competition Under IET Student Chapter		Industrial Visit-SE-IT	Industry Expert Lecture
Fri 7 September 2018		Guest Lecture		Industrial Visit			
Sat 8 September 2018	Parents Teacher Meeting						
Mon 10 September 2018			IIT Sopkon Tutorials - Ends				
Tue 11 September 2018	Engineer's Day Celebration						
Wed 12 September 2018				PCB Workshop			
Thu 13-17 September 2018	Mid Sem Break						
Sat 22 September 2018						Quantitative Aptitude Workshop	
Thu 25-26 September 2018	Project Based Learning Demonstration						
Thu 27 September 2018		Survey Project / EE Site visit					
Fri 28 September 2018		EE II Site Visit / TE-1 Site visit		Industrial Visit			
Sat 29 September 2018	Submissions						
Thu 4 October 2018		Class Test -2					
Fri 5 October 2018		Class Test -2		Arduino Workshop			
Sat 6 October 2018	Industrial Visit	Class Test -2			Paper Presentation under IETE	Workshop on IoT	Industrial Visit
Fri 12 October 2018				Competition Under IET Student Chapter	Tech Connect-Circuit Testing workshop		
Sat 13 October 2018	Faculty Development Program IV				Art of Living Workshop		
Mon 15-19 October 2018	Feedback						
Wed 17-20 October 2018	Test 2						
Thu 25-26 October 2018	B. E. Project Presentation						
Sat 27 October 2018	Submissions						
Mon 5-9 November 2018			FDP				
Mon 17-19 December 2018					FDP/work shop		
Sun 28 October 2018	External Practical And Oral Examinations *						
Sun 28 October 2018	Pl. for University Examinations*						
Thu 8 November 2018	University Examinations - Start*						
Mon 12 November 2018	Commencement of CAP*						
Mon 7 January 2019	ESAY 2018-2019 STARTS*						
Holidays	Wed 15 Aug 2018	Independence Day	Fri 17 Aug 2018	Parsi New Year	Wed 22 Aug 2018	Bakrid	
	Thu 13 Sept 2018	Ganesh Churthi	Thu 20 Sept 2018	Moharram	Tue 2 Oct 2018	Gandhi Jayanti	
	Thu 18 Oct 2018	Dusseera	Wed 7 Nov 2018	Diwali	Tue 20 Nov 2018	Eid e milad	
	Fri 23 Nov 2018	Guru Nanak Janyanti	Tue 25 Dec 2018	Christmas			
Prepared by : Ms. Neha Rai, Ms. Sangeetha R							* Change in dates is possible as per university schedule 2018-2019
Approved by : Dr. Chelpa Lingam							
Release Date : 06 July 2018							
							Principal

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06/Jul/2018
 Principal

Departmental Academic Calendar:



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Pillai HOC College of Engineering and Technology, Rasayani
Department of Civil Engineering
TERM CALENDAR -JULY -DEC 2019 (For SE, TE, BE & ME)



Day	Dt	July	Day	Dt	Aug.	Day	Dt	Sept.	Day	Dt	Oct.	Day	Dt	Nov.	Day	Dt	Dec.
MO	1		TH	1	18 CLASSES BEGIN (FE)	SU	1		TU	1	52	FR	1		SU	1	
TU	2	Staff return	FR	2	Stress Management Programme for Students 19	MO	2	Ganesh Chaturthy	WE	2	Mahatma Gandhi Jayanti	SA	2	Project Staged (ME)	MO	2	
WE	3	PBL Topic Finalisation Meeting	SA	3	20	TU	3		TH	3	53	SU	3		TU	3	Commencement of Theory examination for SE, TE and BE (SEM II, IV, VI and VIII) and FE and ME SEM I
TH	4		SU	4		WE	4		FR	4	54	MO	4		WE	4	
FR	5	Dept wise Meetings to Plan Next Sem	MO	5	21	TH	5		SA	5	Site Visit-I (ME) Site Visit-I (FE) 55	TU	5		TH	5	
SA	6		TU	6	22	FR	6		SU	6		WE	6		FR	6	
SU	7		WE	7	23	SA	7	Instructional Day (36)	MO	7	56	TH	7	Internal Assessment-II (ME)	SA	7	
MO	8	CLASSES BEGIN (SE, TE and BE)	TH	8	24	SU	8		TU	8	Dussehra	FR	8	Internal Assessment II (ME)	SU	8	
TU	9	2	FR	9	Intensive study/First Defaulter List 25	MO	9	37	WE	9	57	SA	9	Internal Assessment II (ME)	MO	9	
WE	10	3	SA	10	Public Speaking Forum Faculty Presentation Remedial Classes	TU	10	Moharram	TH	10	58	SU	10	ID-E-MILAD	TU	10	
TH	11	4	SU	11		WE	11	38	FR	11	Expert Lectures (GGI) 59	MO	11	Oral / Practical End (SE, TE and BE)	WE	11	
FR	12	SE, TE and BE Orientation Programme 5	MO	12	Id-Ul-Adha	TH	12	39	SA	12	PBL Project Exhibition Site Visit (SWM) 60	TU	12	Guru Nanak Jayanti	TH	12	
SA	13	Faculty Meeting: review of sem and Plan for speaking	TU	13	Internal Assessment-I (SE/TE/BE)	FR	13	Workshop on Repairs and Retrofitting Opening of ASTH Chapter 40	SU	13		WE	13		FR	13	
SU	14		WE	14	Internal Assessment-I (SE/TE/BE)	SA	14	Academic Audit III Remedial Classes	MO	14	61	TH	14	Commencement of Theory examination for SE, TE and BE (SEM III, V and VI) and FE Sem I ATKT	SA	14	
MO	15	6	TH	15	INDEPENDENCE DAY	SU	15		TU	15	Study Workshop/Revision	FR	15		SU	15	
TU	16	7	FR	16	Internal Assessment-I (SE/TE/BE)	MO	16	41	WE	16	Study Workshop/Revision	SA	16	Term End (FE)	MO	16	Commencement End
WE	17	8	SA	17	Parsi New Year	TU	17	42	TH	17	Internal Assessment-II	SU	17		TU	17	
TH	18	9	SU	18		WE	18	43	FR	18	Internal Assessment-II Final Defaulter List	MO	18	Oral / Practical Start (FE and ME)	WE	18	
FR	19	BE Project orientation Programme	MO	19	ME Lectures begin (26)	TH	19	44	SA	19	Site Visit-II (ME)	TU	19		TH	19	
SA	20	Stress Management Programme for Faculty	TU	20	27	FR	20	45 Initial Talks/Expert Lecture (SOM/SA-II) Remedial Classes	SU	20		WE	20		FR	20	
SU	21		WE	21	28	SA	21	Site Visit (EG) Special Topic Seminar Presentation (ME)	MO	21	Intensive study/Open Book Prelims/Extra lectures/ Make up classes	TH	21		SA	21	
MO	22	10	TH	22	29	SU	22	(Defaulter Alert-2)	TU	22		FR	22		SU	22	
TU	23	11	FR	23	Orientation Programme (ME) 30	MO	23	46	WE	23		SA	23		MO	23	
WE	24	12	SA	24	PTM (SE, TE, BE)	TU	24	47	TH	24		SU	24		TU	24	
TH	25	13	SU	25		WE	25	48	FR	25		MO	25		WE	25	CHRISTMAS
FR	26	Academic Audit-I 14	MO	26	31	TH	26	Internal Assessment-I (ME) 49	SA	26	Term End (SE, TE and BE) Site Visit (TE)	TU	26		TH	26	
SA	27	FACULTY PICNIC	TU	27	32	FR	27	Internal Assessment-I (ME) 50	SU	27	DIWALI	WE	27	Oral / Practical Ends (FE and ME)	FR	27	
SU	28		WE	28	33	SA	28	Internal Assessment-I (ME) Remedial Classes	MO	28		TH	28		SA	28	
MO	29	15	TH	29	34	SU	29		TU	29		FR	29		SU	29	
WE	30	16	FR	30	PBL Project Final Review BE Project Review 35	MO	30	51	WE	30	Oral / Practical Starts (SE, TE and BE)	SA	30		MO	30	
TH	31	17	SA	31	Academic Audit-II Remedial Classes	TH	31		TH	31		TU	31		TU	31	

Indicates tentative schedule, could undergo changes (6) Instructional days, 6 Internal Assessment Days, 7 Intensive Study Camp days

Notes: Faculty Orientation for EVEN Semester (First Half) on 04th JAN, 2020

2. Instruction for EVEN Semester (First Half) to start from 06th JAN 2020

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Dist. Raigad, Pin-410 207

Time Table :

Pillai HOC College of Engineering and Technology, Kasayari
 Department of Information Tehnology
 (ESAY 2022-23)

w.e.f: 09-01-2023

SE IT

	SE IT														
	Monday		Tuesday			Wednesday		Thursday		Friday					
10:15 11:15 1	Rupali Sathe Networking Lab SE IT 1 D	Siddhesh Khanvilkar Unix Lab SE IT 2 D-410(Open Source)	Kajal Patel MPL SE IT 3 Project Lab(IT Dept)	Siddhesh Khanvilkar Unix Lab SE IT 1 D-410(Open Source)	Kajal Patel MPL SE IT 2 Project Lab(IT Dept)	Poonam Lad Python Lab SE IT 3 D-414(Progr amming)	Kajal Patel MPL SE IT 1 Project Lab(IT Dept)	Poonam Pathak Python Lab SE IT 2 D-414(Progr amming)	Rupali Sathe Networking Lab SE IT 3 D	Rupali Sathe Networking Lab SE IT 2 D	Prachi Sorte Python Lab SE IT 1 D-414(Progr amming)	Siddhesh Khanvilkar Unix Lab SE IT 3 D-410(Open Source)	Poonam Pathak Python Lab SE IT 2 D-414(Progr amming)	Prachi Sorte Python Lab SE IT 1 D-414(Progr amming)	Poonam Lad Python Lab SE IT 3 D-413(Softw are Engineering Lab)
11:15 12:15 2	405(Network k and Security Lab)							405(Network k and Security Lab)	405(Network k and Security Lab)						
12:15 13:15 3		Siddhesh Khanvilkar OS A-501		Kajal Patel COA A-501			Siddhesh Khanvilkar OS A-501		Prachi Sorte AT A-501					Jagdish Parate AM-IV A-501	
13:15 13:45															
13:45 14:45 5		Jagdish Parate AM-IV A-501		Jagdish Parate AM-IV A-501			Jagdish Parate AM-IV A-501		Kajal Patel COA A-501					Jagdish Parate AM-IV(Tut) A-501	
14:45 15:45 6		Rupali Sathe CNND A-502		Rupali Sathe CNND A-501			Kajal Patel COA A-501		Prachi Sorte AT A-501					Rupali Sathe CNND A-501	
15:45 16:45 7		Prachi Sorte AT A-501		Siddhesh Khanvilkar OS A-501					TGMS SE IT 1 D-414(Progr amming)	TGMS SE IT 2 Project Lab(IT Dept)	TGMS SE IT 3 D-414(Progr amming)			MINI PROJECT Project Lab(IT Dept)	

Time Table Co-ordinator

HOD

Principal



(Handwritten Signature)

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 Pillai HOC College of
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 Rassyani, Tal. Khelapur
 Dist. Raigad, Pin-410 207

TE IT

		TE IT												
		Monday		Tuesday		Wednesday		Thursday		Friday				
10:15 11:15	1	Prachi Sorte WEB X TE IT A-502		Divya Chirayil WT TE IT A-502		Prachi Sorte WEB X TE IT A-502		Komal Golimbade AIDS-1 TE IT A-502		Divya Chirayil WT TE IT A-502				
11:15 12:15	2	Komal Golimbade AIDS-1 TE IT A-502		Prachi Sorte WEB X TE IT A-502		Divya Chirayil WT TE IT A-502		Kajal Patel DMBI TE IT A-502		Komal Golimbade AIDS-1 TE IT A-502				
12:15 13:15	3	Jagdish Parate Statistical Learning for data science(honors and minor) TE IT A-502		Jagdish Parate Statistical Learning for data science(honors and minor) TE IT A-502		Jagdish Parate Statistical Learning for data science(honors and minor) TE IT A-502		Jagdish Parate Statistical Learning for data science(honors and minor) TE IT A-502		Poonam Pathak Ethical Hacking TE IT A-502				
13:15 13:45														
13:45 14:45	5	Poonam Pathak Ethical Hacking TE IT A-502		Kajal Patel DMBI TE IT A-502		Poonam Pathak Ethical Hacking TE IT A-502		Komal Golimbade DS using Python Skill Based Lab TE IT 2 D-413(Softw are Engineering Lab)		Kajal Patel DMBI TE IT A-502				
14:45 15:45	6	Kajal Patel BI Lab TE IT 1 D-413(Softw are Engineering Lab)	Komal Golimbade MAD and PWA Lab TE IT 2 D-414(Progr amming)	Divya Chirayil Sensor Lab TE IT 3 Project Lab(IT Dept)	Prachi Sorte WEB Lab TE IT 1 D-414(Progr amming)	Divya Chirayil Sensor Lab TE IT 2 Project Lab(IT Dept)	Komal Golimbade DS using Python Skill Based Lab TE IT 3 D 405(Networ k and Security)	Divya Chirayil Sensor Lab TE IT 1 Project Lab(IT Dept)	Prachi Sorte WEB Lab TE IT 2 D-414(Progr amming)	Komal Golimbade MAD and PWA Lab TE IT 3 D-413(Softw are Engineering Lab)	Mini Project, Mini Project, Mini Project, TGMS TGMS TGMS TE IT 1 TE IT 2 TE IT 3 D-410(Open D-413(Softw are 404(Intellige	Kajal Patel BI Lab TE IT 2 D-413(Softw are Engineering Lab)	Komal Golimbade DS using Python Skill Based Lab TE IT 1 D 404(Intellige nt System Lab)	Prachi Sorte WEB Lab TE IT 3 D-414(Progr amming)
15:45 16:45	7													

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BE IT

		Monday			Tuesday		Wednesday		Thursday		Friday
10:15	Poonam Pathak BLOCK CHAIN LAB BE IT 1	Poonam Lad CC LAB BE IT 2	MOOC BE IT 3	Rupali Sathe BDA BE IT B-507	Komal Golimbade UID (DLOC) BE IT B-507	Poonam Lad CC (DLOC) BE IT B-505	Poonam Pathak BLOCK CHAIN LAB BE IT 2	Poonam Lad CC LAB BE IT 3	MOOC BE IT 1	Project II BE IT Project Lab(IT Dept)	
11:15	404(Intelligent System Lab)	404(Intelligent System Lab)	404(Intelligent System Lab)	Poonam Pathak BLOCK CHAIN BE IT B-507	Komal Golimbade UID (DLOC) BE IT B-507	Poonam Lad CC (DLOC) BE IT B-505	404(Intelligent System Lab)	404(Intelligent System Lab)	Project Lab(IT Dept)		
12:15											
12:15											
13:15											
13:45											
13:45											
14:45											
14:45											
14:45											
15:45											
16:45											

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PILLAI HOC COLLEGE OF ENGINEERING AND TECHNOLOGY, RASAYANI
ELECTRICAL ENGINEERING DEPARTMENT
TIME TABLE

OSAY 21-22 (W.E.F 12TH JULY, 2021.)

SE ELEC

		SE ELEC												
		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		
09:10 10:10 1		ECA ASK A 503						FEMM(L) SS B1 SE ADE Lab	SB LAB AS B2 SE WORKSH	SIMI(L) ASK B3 SE D-313				
10:20 11:20 2		FEMM SS A 503		AMIII HAR A 503		AMIII HAR A 503		AMIII HAR A 503		ECA ASK A 503				
11:30 12:30 3		SIMI(L) ASK B1 SE D-313	FEMM(L) SS B2 SE ADE Lab	SB LAB RN B3 SE WORKSH	FEMM SS A 503		EPS-I SR A 503		EPS-I SR A 503		AM III TUT HAR A 503		VALUE ADDED COURSE A 503	
12:30 13:30 4														
13:30 14:30 5		TPO(EPS I) SR A 503		AE SNS A 503		FEMM SS A 503		ECA ASK A 503		EPS-I SR A 503		TPO A 503		
14:40 15:40 6		AE SNS A 503		TPO(FEMM) SS A 503		AE(TPO) SNS A 503		SB LAB RN B1 SE WORKSH	EL I SNS B2 SE ADE Lab	FEMM SS B3 SE ADE Lab	AE SNS A 503		TGMS A 503	
15:50 16:50 7				SB LAB RN B1 SE WORKSH	SIMI(L) ASK B2 SE D-313	EL I SNS B3 SE ADE Lab	MiniPRO AS, ASK, LC (A) ELEC	MiniPRO PC, RDM, RN (B) ELEC	MiniPRO SR, SNS, SS (C) ELEC			EL I SNS B1 SE ADE Lab	SB LAB AS B2 SE WORKSH	SB LAB RN B3 SE WORKSH

Sanoobar
TIME TABLE CO-ORDINATOR
SANOBAR S.

Pranita C.
HOD
PRANITA C.



Sanoobar


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BE A CIVIL

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
10:15 11:15 2	DLOC 5 - IWT/CS Manisha Jangade C-505 SmartClassrm	DLOC 6 - RRRS/TSE Dr. Shilpa Kewate C-505 SmartClassrm	CM Tu Shivraj Patil D-514 BE A3 CIVIL	TPO BE A2 CIVIL	Expert Lect/Wo rkshp BE A1 CIVIL	DLOC 6 - RRRS/TSE Dr. Shilpa Kewate C-505 SmartClassrm	Expert Lect/Workshop			
11:15 12:15 3	CM Shivraj Patil D-514	DLOC 5 - IWT/CS Manisha Jangade C-505 SmartClassrm	DLOC 5 - IWT/CS Manisha Jangade D-506		TPO Ms. Dmya D-514	MAJOR PROJECT				
12:15 13:15 9		CM Shivraj Patil D-514								
13:15 13:45	MAJOR PROJECT									
13:45 14:45 6								TPO Suma Lalit D-514	ILOC 2 - EM /PM Dr. Amit Das Gupta D-506	ILOC 2 - EM /PM Dr. Amit Das Gupta D-506
14:45 15:45 7	Value Added Course	CM Tu Shivraj Patil D-510 BE A1 CIVIL	TPO BE A3 CIVIL	Expert Lect/Wo rkshp BE A2 CIVIL	DLOC 6 - RRRS/TSE Dr. Shilpa Kewate C-505 SmartClassrm			CM Tu Shivraj Patil D-506 BE A2 CIVIL	TPO BE A1 CIVIL	Expert Lect/Wo rkshp BE A3 CIVIL
15:45 16:45 8	Value Added Course	MAJOR PROJECT								


Ms. Smitha J. S.
Time Table Coordinator


Mr. R.P. Narwade
H.O.D.


Dr. J.W. Bakal
Principal

Course Academic Plan

1. Course Academic Plan_EM I_OSAY 2020-21



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Version 3.1	Course Academic Plan	Course Code and Name: FEC101 Engineering Mathematics I
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The academic resources available in PHCET, Rasayani

PHCET AMS	Evaluation and Assessment	PHCET Library	Value added courses and MOOC courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break
Lesson Plan, Practical plan, Content delivery (Planned and Actual)	MU end semester examination question papers and solutions question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	Online courses from NPTEL, Coursera etc. are pursued throughout the semester
Student attendance and performance	Class notes and Digital Content for the subject	All text books, reference books, e-books mentioned in the syllabus & AAP	Video recording of Lectures captured in Light board studio at PHCET is made available.
Student details	Comprehensive question bank, MCQ, GA, PPT, Class Test papers	Technical journals and magazines for reference	Interactive smart board facility is available and lectures are recorded.
Departmental Academic plan	Academic Administration Plan & Beyond Syllabus Activity report	PHCET library is member of IIT Bombay Library	Expert lectures by Industry/Academia

1.a Course Objectives (As per Blooms Taxonomy)

Sr. No	Course Objectives
1	To develop the basic Mathematical skills of engineering students that are imperative for effective understanding of engineering subjects. The topics introduced will serve as basic tools for specialized studies in many fields of engineering and technology.
2	To provide hands on experience using SCILAB software to handle real life problems.

1.b Course Outcome (CO) Mapping with Modules

Sr. No	COs	Related Modules
CO1	Student will able to illustrate the basic concepts of Complex numbers.	Complex Numbers
CO2	Student will able to apply the knowledge of complex numbers to solve problems in hyperbolic functions and logarithmic function.	Hyperbolic function and Logarithm of Complex Numbers
CO3	Student will able to illustrate the basic principles of Partial differentiation.	Partial Differentiation
CO4	Student will able to illustrate the knowledge of Maxima, Minima and Successive differentiation.	Application of Partial Differentiation and Successive differentiation
CO5	Student will able to apply principles of basic operations of matrices, rank and echelon form of matrices to solve simultaneous equations.	Matrices
CO6	Student will able to illustrate SCILAB programming techniques to the solution of linear and simultaneous algebraic equations.	Numerical Method, system of linear equation, Expansion of functions

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5. Concept Inventory

Sr. No.	Chapter	Specific Concepts Covered in this Topic	Recommended Text Book for this Topic	Starting Page	Ending Page	No. of Pages	App. Effort in Min	Approximate Weightage (Marks)
1	Complex Numbers	Review of complex numbers. Cartesian, Polar and Exponential form of a complex number.	B1	1-1	1-8	8	30	17
		De Moivre,s Theorem.	B1	1-9	1-19	10	90	
		Expansion of sines/cosines of multiples into powers and vice versa	B1	1-20	1-23	4	120	
		Powers and roots.	B1	1-24	1-38	14	120	
2	Hyperbolic function and Logarithm of Complex Numbers	Hyperbolic functions, Inverse Circular and Inverse Hyperbolic functions, Separation of real and imaginary parts	B1	2-1	2-30	30	240	23
		Logarithmic functions, Separation of real and imaginary parts of Logarithmic functions.	B1	3-1	3-10	10	240	
3	Partial Differentiation	Partial derivatives of first and higher order. Differentiation of composite function	B1	6-1	6-45	45	180	15
		Euler's Theorem on Homogeneous functions with two independent variables	B1	6-50	6-73	23	180	
4	Application of Partial Differentiation and Successive differentiation	Maxima and Minima of a function of two independent variables	B1	7-1	7-7	7	90	22
		Lagrange's method of undetermined multipliers with one constraint	B1	Appendix A		3	60	
		Successive differentiation: nth derivative of standard functions.	B1	4-1	4-12	12	90	
		Leibnitz's Theorem (without proof) and problems	B1	4-13	4-26	14	120	
5	Matrices	Types of Matrices (symmetric, skew-symmetric, Hermitian, Skew Hermitian, Unitary, Orthogonal Matrices and properties of Matrices)	B1	5-1	5-23	23	120	23
		Rank of a Matrix using Echelon forms, reduction to normal form and PAQ form.	B1	5-24	5-40	16	120	
		System of homogeneous and non – homogeneous equations, their consistency	B1	5-42	5-62	21	120	
6	Numerical Method, system of linear equation, Expansion of functions	Newton Raphson method , RegulaFalsi method	B1	10-1	10-9	9	120	20
		Gauss Jacobi,Gauss Seidel method	B1	10-10	10-27	28	120	
		Taylor's Theorem (Statement only) and Taylor's series, Maclaurin's series(Statement only) Expansion of $e^x, \sin(x), \cos(x), \tan(x), \sinh(x), \cosh(x), \tanh(x), \log(1+x)$	B1	8-1	8-27	27	120	
Total Effort in Hours							38	120

Book Code	Title	Author	Publisher
B1	Engineering Mathematics-I	A. V. Dubewar	OXFORD



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6.0 Web Links for Online Notes/YouTube/ Digital Content/Lecture Capture/NPTEL Videos

Sr. No.	Websites/ Links	Module No
1	https://www.youtube.com/watch?v=YpC8xZ1pViv	1
2	https://www.youtube.com/watch?v=YXmeH1yevkk	4

7. Recommended MOOC Courses like Coursera / NPTEL / Swayam/ edX etc.

Sr. No.	MOOC course link	Resource Person	Course duration	Certificate (Y/N)

8. Study Material Distributed among Students

GA	Notes (Hand Written)	Digital content	PPT	MCQ	Other
	Yes			Yes	

9. Lesson Plan

Week	Lec no.	Mod No.	Lecture Topics / IA 1 and IA 2 /BSA planned to be covered	Actual date of Completion DIV D	Actual date of Completion DIV E	Mapping with COs	Recommended Prior Viewing / Reading
							Chapter No. / Page Nos. /Books/ Web Site
I	1	1	Pre-requisite: Review on Complex Number-Algebra of Complex Number,	8/2/2021	8/2/2021	CO 1	1/1.1/B1/ https://www.youtube.com/watch?v=T647CGsuOVU
	2	1	Different representations of a Complex number and other definitions	9/2/2021	9/2/2021	CO 1	1/1.2/B1
	3	1	Examples on D'Moivre's Theorem	10/2/2021	10/2/2021	CO 1	1/1.9/B1
	4	1	Expansion of $\sin n\theta, \cos n\theta$ in terms of sines and cosines of multiples of θ .	12/2/2021	12/2/2021	CO 1	1/1.17/B1
	5	1	Examples based on above topic	15/2/2021	15/2/2021	CO 1	1/1.17/B1
	6	1	Expansion of $\sin n\theta, \cos n\theta$ in powers of $\sin\theta, \cos\theta$	16/2/2021	16/2/2021	CO 1	1/1.20/B1
	7	1	Powers and Roots of Exponential and Trigonometric Functions.	17/2/2021	17/2/2021	CO 1	1/1.24/B1
II	8	1	Examples based on above topic	18/2/2021	18/2/2021	CO 1	1/1.24/B1
	9	2	Circular functions of complex number and Hyperbolic functions.	22/2/2021	22/2/2021	CO 2	2/2.1/B1
	10	2	Inverse Circular and Inverse Hyperbolic functions.	23/2/2021	23/2/2021	CO 2	2/2.20/B1
	11	2	Defination of Logarithmic functions with examples	27/2/2021	23/2/2021	CO 2	3/3.1/B1
	12	2	Examples on above topic	1/3/2021	24/2/2021	CO 2	3/3.1/B1
	13	2	Separation of real and Imaginary parts of all types of Functions.	2/3/2021	1/3/2021	CO 2	2/2.11/B1
	14	2	Examples on above topic	3/3/2021	1/3/2021	CO 2	2/2.11/B1

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III	15	2	Examples on applications of complex number in Signal processing, Electrical circuits.			CO 2	https://www.youtube.com/watch?v=VWYcA8m3rI0
	16	5	Review of matrix, Types of Matrices (symmetric, skew-symmetric, Hermitian, Skew Hermitian, Unitary,	10/3/2021	2/3/2021	CO 5	5/5.1/B1/ https://www.youtube.com/watch?v=8zRC8VW5qxY
	17	5	Examples on above topic	10/3/2021	3/3/2021	CO 5	5/5.1/B1
	18	5	Rank of Matrix using Echelon forms, reduction to normal form,	11/3/2021	3/3/2021	CO 5	5/5.24/B1
	19	5	Examples on above topic	15/3/2021	10/3/2021	CO 5	5/5.24/B1
	20	5	Examples on PAQ forms	16/3/2021	10/3/2021	CO 5	5/5.35/B1
	21	5	Example on System of homogeneous equations	17/3/2021	15/3/2021	CO 5	5/5.42/B1
IV	22	5	System of non-homogeneous equations, their consistency and solutions.	17/3/2021	15/3/2021	CO 5	5/5.52/B1
	23	5	Examples on above topic	22/3/2021	16/3/2021	CO 5	5/5.52/B1
	24	5	Examples on applications of inverse of a matrix to coding theory.	23/3/2021	17/3/2021	CO 5	5/5.63/B1/ https://www.youtube.com/watch?v=hshnULRzyzYU
	25	5	Examples on above topic	24/3/2021	17/3/2021	CO 5	5/5.63/B1
	26	6	Newton Raphson Method with examples			CO 6	10/10.5/B1
	27	6	Examples on above topic			CO 6	10/10.5/B1
	28	6	Regula Falsi Method with examples			CO 6	10/10.2/B1
V	29	6	Examples on above topic			CO 6	10/10.2/B1
	30	6	Gauss Jacobi Method with examples			CO 6	10/10.15/B1
	31	6	Gauss seidal method with examples			CO 6	10/10.19/B1
	32	6	Taylor's Theorem (Statement only) and Taylor's series - Examples			CO 6	8/8.1/B1
	33	6	Maclaurin's series (Statement only) - Examples			CO 6	8/8.1/B1
	34	6	Expansion of various types of functions			CO 6	8/8.2/B1
	35	6	Examples on above topic			CO 6	8/8.2/B1



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VI	36	6	Indeterminate forms, L'Hospital Rule			CO 6	9/9.1/B1
	37	6	Examples on expansions of functions			CO 6	9/9.1/B1
	38	6	Gauss Elimination method with examples			CO 6	10/10.10/B1/https://www.youtube.com/watch?
	39	6	Gauss Jordan Method with examples			CO 6	10/10.10/B1
	40	4	Examples on Partial derivatives of first order	24/3/2021	22/3/2021	CO 4	6/6.1/B1/https://www.youtube.com/watch?v=0sAnefs0wBz
	41	4	Examples on above topic	25/3/2021	22/3/2021	CO 4	6/6.5/B1
	42	4	Examples on Partial derivatives of higher order	26/3/2021	23/3/2021	CO 4	6/6.10/B1
VII	43	4	Examples on differentiation of composite functions	30/3/2021	24/3/2021	CO 4	6/6.29/B1
	44	4	Euler's Theorem on Homogeneous functions with two independent variables (with proof)	31/3/2021	27/3/2021	CO 4	6/6.50/B1
	45	4	Deductions from Euler's Theorem.	31/3/2021	30/3/2021	CO 4	6/6.60/B1
	46	4	Examples on above topic	5/4/2021	31/3/2021	CO 4	6/6.60/B1
	47	4	Examples on Total differentials	6/4/2021	31/3/2021	CO 4	https://www.youtube.com/watch?v=pKNiAvlRhrY
	48	4	Examples on differentiation of implicit functions			CO 4	6/6.46/B1
	49	5	Euler's Theorem on Homogeneous functions with three independent variables			CO 5	6/6.50/B1
VIII	50	5	Maxima and Minima of a function of two independent variables.	7/4/2021	5/4/2021	CO 5	7/7.1/B1
	51	5	Examples on above topic	7/4/2021	5/4/2021	CO 5	7/7.1/B1
	52	5	Examples on Lagrange's method of undetermined multipliers with one constraint	8/4/2021	6/4/2021	CO 5	APA 1
	53	5	Examples on above topic	8/4/2021	7/4/2021	CO 5	APA 1
	54	5	nth derivative of standard functions.	9/4/2021	7/4/2021	CO 5	4/4.1/B1
	55	5	Examples on above topic	9/4/2021	8/4/2021	CO 5	4/4.2/B1
	56	5	Leibnitz's Theorem (without proof) and problems.	10/4/2021	10/4/2021	CO 5	4/4.13/B1
	57	5	Examples on above topic	11/4/2021	12/4/2021	CO 5	4/4.13/B1
	58	5	Examples on Jacobian			CO 5	7/7.7/B1



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Course Academic Plan: AY 2018-19

Version 3.1	Course Academic Plan	Course Code and Name: CE C601- Geotechnical Engineering II
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The academic resources available in PHCET, Rasayani

PHCET AMS	Evaluation and Assessment	PHCET Library	Value added courses and MOOC courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break -
Lesson Plan, Practical plan, Content delivery (Planned and Actual)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	Online courses from NPTEL, Coursera etc. are pursued throughout the semester
Student attendance and performance	Class notes and Digital Content for the subject	All text books, reference books, e -books mentioned in the syllabus & AAP	Video recording of Lectures captured in Light board studio at PHCET is made available.
Student details	Comprehensive question bank, MCQ, GA, PPT, Class Test papers	Technical journals and magazines for reference	Interactive smart board facility is available and lectures are recorded.
Departmental Academic plan	Academic Administration Plan & Beyond Syllabus Activity report	PHCET library is member of IIT Bombay Library	Expert lectures by Industry/Academia

1.a Course Objectives (As per Blooms Taxonomy)

Sr No	Course Objectives
CO 1	Evaluate the consolidation parameters for the soil.
CO2	Calculate the shear strength of the soil.
CO 3	Calculate factor of safety of different types of slope under various soil condition.
CO 4	Calculate lateral earth pressure and analyse the stability of retaining walls.
CO5	Calculate bearing capacity of shallow foundation using theoretical and field methods
CO6	Calculate load bearing capacity of individual as well as group of pile foundations and their settlement using theoretical and field methods



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1.b Course Outcome (CO) Mapping with Modules

Sr No	COs	Related Module/s
CO1	Evaluate the consolidation parameters for the soil.	1
CO2	Calculate the shear strength of the soil.	2
CO3	Calculate factor of safety of different types of slope under various soil condition.	3
CO4	Calculate lateral earth pressure and analyse the stability of retaining walls.	4
CO5	Calculate bearing capacity of shallow foundation using theoretical and field methods	5
CO6	Calculate load bearing capacity of individual as well as group of pile foundations and their settlement using theoretical and field methods	6

1.c Mapping of COs with POs (mark 3: Strong, 2: Moderate, 1: Weak,)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	1	3	0	2	2	2	0	0	2	0
CO2	3	2	1	2	0	1	1	0	0	0	1	0
CO3	3	2	3	1	0	3	3	3	0	0	2	1
CO4	3	2	3	3	0	3	1	0	0	0	2	0
CO5	2	2	1	3	0	2	1	0	0	0	2	0
CO6	0	1	1	3	0	2	2	2	0	0	2	1

1.d Mapping of COs with PSOs

	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	0	1	0	3
CO2	2	0	2	1	3
CO3	2	0	2	3	3
CO4	3	0	2	2	3
CO5	1	0	1	1	3
CO6	1	0	1	1	3

1.e Core Competency of the course

Categories	Mathematics	Basic Science & General Engg	Humanities & Soft Skill	Core Engg./ Technology - Design & Analysis	Multidisciplinary
Tick where applicable	√	√	√	√	√

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2.a Teaching Scheme (As specified by the University)

Contact Hours			Credits Assigned			
Theory	Practical	Tutorial	Theory	Practical	Tutorial	Total
3	2	-	3	1	-	4

2.b Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Consolidation of soils	04	20
2	Shear strength	05	20
3	Stability of Slopes	04	10
4	Lateral Earth Pressure Theories and stability of Retaining walls	10	40
5	Shallow Foundations	10	20
6	Pile Foundations	6	20

2.c Prerequisite Courses

Sr. No.	Semester	Name of the course	Topics covered
1	V	Geotechnical Engineering I	Basic definitions and relationships, Plasticity of soils, Effective stress principle

2.d Relevance to Future Courses

Sr. No.	Semester	Name of the course
1	VI	CE-DLO6063 : Ground Improvement Techniques
2	VII	CE-DLO7046: Foundation Analysis and Design
3	VIII	CE-C801 Design and Drawing of Reinforced Concrete Structures

2.e Industry Application of the course

Sr. No	Application
1	Design of structures
2	Soil Testing Consultancy

3.a Past Results –

Year	Division A		Division B	
	Initials of Teacher	% Result	Initials of Teacher	% Result
2018 May	Manisha Jangade	71.83%	Ashwini P	87.32%
2019 May	Ashwini P	68.25%	Ashwini P	79.17%

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Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Consolidation of soils	1	Provide more classes
Lateral Earth Pressure Theories and stability of Retaining walls	4	Provide more classes

4.a Learning Resources – Books and E-Resources

4.b List of Text Books

Sr.No.	Text book titles	Authors	Publisher	Edition	Module No
1	Soil Mechanics & Foundation Engineering	Dr.K.R. Arora	Std.Publishers	VII	1,2,3,4,5,6
2	Soil Mechanics & Foundations	Dr.B.C.Punmia, A.K.Jain	Laxmi Publication	V	5
3	Geotechnical Engineering	Dr.Venkatramaiah	New Age International Publishers	IV	1,2,4

4.c List of Reference Books

Sr. No.	Reference book titles	Authors	Publisher	Edition	Module No
1.	Geotechnical Engineering – Unsaturated and Saturated Soils	Jean – Louis BRIAUD	Wiley	V	1,2,3,4,5,6

4.d List of E – Books

Sr. No.	E book titles	Authors	Publisher	Edition	Module No
1	Geotechnical Engineering	Dr.Venkatramaiah	New Age International Publishers	IV	1,2,4

4.e Web Links and Names of Magazines, Journals, E-journals

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended	Web-Links and Names of Magazines Recommended	Module Nos.
1	Journal of Geotechnical and Environmental Engineering -ASCE	https://www.scimagojr.com/journalsearch.php?q=16281&tip=sid&clean=0	1,2,3,4,5,6
2	Soils and Foundations -ELSEVIER	https://www.journals.elsevier.com/soils-and-foundations	5,6

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5. Concept Inventory

Sr. No.	Chapter	Specific Concepts Covered in this Topic	Recommended Text Book for this Topic	Starting Page	Ending Page	No. of Pages	App. Effort in Min	Approximate Weightage (Marks)
1	Consolidation of soils	Compressibility & settlement	B1	256	256	1	10	20
		Comparison between compaction & consolidation	B1	256	256	1	10	
		Concept of excess pore water pressure.	B3	280	282	3	10	
		Initial, primary secondary consolidation	B1	257	257	1	10	
		Spring analogy for primary consolidation	B1	257	258	2	30	
		Consolidation test	B1	259	260	2	20	
		Coefficient of compressibility, coefficient of volume change, compression, expansion recompression indices	B1	265	267	3	20	
		Normally and over consolidated soils	B1	267	267	1	10	
		Terzaghi's theory of consolidation- assumptions, coefficient of vertical consolidation	B1	267	280	14	20	
		Distribution of hydrostatic excess pore water pressure with depth & time,	B3	227	227	1	30	
		Time factor, relationship between time factor degree of consolidation	B1	277	280	4	10	
		Determination of coefficient of vertical consolidation, pre-consolidation pressure.	B1	277	281	5	20	
		Final settlements of a soil deposit in the field	B1	281	281	1	20	
		Time settlement curve	B1	283	284	2	10	
Field consolidation curve.	B1	284	285	2	10			
2	Shear strength	Three dimensional state of stress in soil mass, Principal stresses in soil	B1	306	307	2	15	20
		Shear failure in soils- frictional cohesive strength	B1	345	346	2	15	
		General shear stress-strain curves in soil definition of failure	B3	297	297		15	
		Graphical method of determination of stresses on a plane inclined to the principal planes through Mohr's circle	B1	308	311	4	20	
		Important characteristics of Mohr's circle	B1	311	312	2	15	
		Mohr-Coulomb theory- shear strength parameters	B1	312	313	2	15	
		Mohr-Coulomb failure criterion- relation between major & minor principle stresses	B1	337	339	3	20	
		Total & effective stress analysis	B1	339	341	2	20	



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		Different types of shear tests drainage conditions: Direct shear test, Triaxial compression test (UU, CU CD), Unconfined compression test, Vane shear test, Comparison between direct & triaxial tests, Interpretation of test results of direct shear & triaxial shear tests	B1	313	333	20	120	
		Stress-strain curves Mohr failure envelopes	B3	263	263		15	
		Determination of shear strength of soil with geosynthetics- pull out test	GOOGLE				20	
		ASTM procedure for finding shear strength of soil-geosynthetic system	GOOGLE				10	
3	Stability of slopes	Types of slopes, types of slope failures, factors of safety	B1	441	444	4	30	10
		Stability analysis of infinite slopes in i) cohesionless soil and ii) cohesive soil under a) dry condition, b) submerged condition and c) steady seepage along the slope	B1	444	447	4	60	
		Stability analysis of finite slopes: i) Culmann's method	B1	448	450	3	40	
		Swedish slip circle method	B1	455	457	3	40	
		Friction circle method	B1	450	452	3	40	
		Taylor's stability number	B1	453	455	3	30	
4	Lateral Earth Pressure Theories and Stability of Retaining Walls	Lateral Earth Pressure Theories	B1	478	478	1	15	40
		Concept of lateral earth pressure based on vertical and horizontal stresses	B1	478	478	1	20	
		Different types of lateral earth pressure	B1	478	481	4	30	
		Rankine's earth pressure theory: i) assumptions	B1	481	482	2	15	
		Active and passive states in cohesionless soil	B1	482	490	8	60	
		Effect of submergence,	B3	460	461	2	20	
		Effect of uniform surcharge	B3	461	462	2	30	
		Effect of inclined surcharge	B3	462	465	4	30	
		Active and passive states in cohesive soil	B1	491	494	4	60	
		Coulomb's wedge theory: i) assumptions, ii) active and passive states in cohesionless soil,	B1	494	494	14	40	
		Active and passive states in cohesive soil	B1	502	503	2	30	
		Rehbann's Graphical Method (no proof)	B1	497	501	5	45	
		Culmann's Graphical Method (no proof)	B1	501	502	2	45	
		Retaining walls: types of retaining walls	B1	517	517	1	20	
Stability checks for retaining walls	B1	517	520	4	30			
Stability analysis of gravity retaining walls	B1	520	521	2	50			



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		Stability analysis of cantilever retaining walls	B1	521	522	2	60	
5	Shallow Foundations	Types of shallow foundations, definitions of different bearing capacities	B1	587	588	2	45	20
		Theoretical methods of determining bearing capacity of shallow foundations: i) Terzaghi's theory: assumptions, zones of failure, modes of failure	B1	593	597	5	180	
		Ultimate bearing capacity equations for general and local shear failure.	B1	597	600	4	60	
		Factors influencing bearing capacity: shape of footing and , limitations of Terzaghi's theory	B2	658	661	4	45	
		Effect of water table	B1	600	601	2	15	
		Vesic's theory: bearing capacity equation	B1	605	606	2	90	
		I.S. Code Method: bearing capacity equation	B1	606	607	2	90	
		Field methods of determining bearing capacity of shallow foundations: standard penetration test.	B1	610	611	2	45	
		ii) Plate load test	B1	621	625	5	30	
6	Pile Foundations	Types of pile foundations, necessity of pile foundations	B1	671	674	4	30	20
		Theoretical methods of determining load carrying capacity of pile foundations: i) static formulae and ii) dynamic formulae	B1	677	687	10	180	
		Field method of determining load capacity of pile foundations: pile load test	B1	688	690	3	20	
		Group action of piles	B1	690	692	3	60	
		Settlement of pile groups	B1	692	694	3	40	
		Negative skin friction	B1	684	685	2	30	
Total Effort in Hours							39	
Book Code	Title	Authors		Publication				
B1	Soil Mechanics & Foundation Engineering	Dr.K.R. Arora		Std.Publishers				
B2	Soil Mechanics & Foundations	Dr.B.C.Pannia, A.K.Jain		Laxmi Publication				
B3	Geotechnical Engineering	Dr.Venkatramaiah		New Age International Publishers				

6.0 Web Links for Online Notes/YouTube/ Digital Content/Lecture Capture/NPTEL Videos

Sr. No.	Websites/ Links	Module No
1.	https://nptel.ac.in/courses/105/105/105105185/	3,4,5,6
2.	https://nptel.ac.in/courses/105/105/105105168/	1,2
3.	https://nptel.ac.in/courses/105/101/105101160/	Geotechnical Laboratory



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10. Rubric for Grading and Marking of Term Work

Lecture + Practical (% Attendance) & Marks	Assignments	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Mooc Course	Total
5	10	nil	10	nil	nil	44444449P ~[[+/5p

11. Practical/Assignment Plan

Practical No.	Module no.	Title of experiment	Mapping with Cos
1	1	Consolidation Test	1,5,6
2	2	Triaxial Compression Test	2,5,6
3	2	Direct Shear Test	2,5,6
4	2	California Bearing Ratio Test	2,5,6
5	2	Vane Shear Test	2,5,6
6	4	Swelling Pressure of Clays	4

Assignment No.	Module no.	Title of assignment	Mapping with Cos																										
1	1	<p>Following results were obtained from a consolidation test. Initial height of sample and height of solid particles is given in the table. Plot the pressure void ratio curve and determine the compression index and preconsolidation pressure.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Pressure (kN/m²)</th> <th>0</th> <th>13</th> <th>27</th> <th>54</th> <th>108</th> <th>214</th> <th>480</th> <th>960</th> <th>1500</th> </tr> </thead> <tbody> <tr> <td>DGR</td> <td>0.000</td> <td>0.000</td> <td>0.004</td> <td>0.016</td> <td>0.044</td> <td>0.104</td> <td>0.218</td> <td>0.340</td> <td>0.420</td> </tr> </tbody> </table> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Initial Height</td> <td>2.5cm + 0.1Roll.No</td> </tr> <tr> <td>Height of solid</td> <td>1.25 + 0.1Roll.No</td> </tr> </tbody> </table>	Pressure (kN/m ²)	0	13	27	54	108	214	480	960	1500	DGR	0.000	0.000	0.004	0.016	0.044	0.104	0.218	0.340	0.420	Properties	Values	Initial Height	2.5cm + 0.1Roll.No	Height of solid	1.25 + 0.1Roll.No	1
Pressure (kN/m ²)	0	13	27	54	108	214	480	960	1500																				
DGR	0.000	0.000	0.004	0.016	0.044	0.104	0.218	0.340	0.420																				
Properties	Values																												
Initial Height	2.5cm + 0.1Roll.No																												
Height of solid	1.25 + 0.1Roll.No																												
2	1	<p>In a normally consolidated clay of LL and thickness as given in the table below, the overburden pressure is increased from 250KN/m² by 120 KN/m² Estimate the settlement that take place. Assume the saturated water content and specific gravity of solids are 45% and 2.7.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Liquid Limit</td> <td>65.65% + 0.1Roll.No</td> </tr> <tr> <td>Thickness</td> <td>5m + 0.1Roll.No</td> </tr> </tbody> </table>	Properties	Values	Liquid Limit	65.65% + 0.1Roll.No	Thickness	5m + 0.1Roll.No	1																				
Properties	Values																												
Liquid Limit	65.65% + 0.1Roll.No																												
Thickness	5m + 0.1Roll.No																												
3	1	<p>A 'X' thick layer beneath a building overlain by a permeable stratum and underlain by impermeable rock, the coefficient of consolidation of clay was found to be 0.025cm²/min. Final Settlement for the layer is 8cm.</p> <p>i) How much time it will take for 80% consolidation ii) Determine the time required for 2.5cm settlement to occur</p>	1																										



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		<p>iii) Compute the total settlement that would occur in one year.</p> <table border="1"> <tr> <td>Properties</td> <td>Values</td> </tr> <tr> <td>Thickness (X)</td> <td>$3m + 0.1\text{Roll.No}$</td> </tr> </table>	Properties	Values	Thickness (X)	$3m + 0.1\text{Roll.No}$									
Properties	Values														
Thickness (X)	$3m + 0.1\text{Roll.No}$														
4	1	<p>A layer of clay 'X' thick is subjected to a loading of 0.5kg/cm^2, one year after loading, the average consolidation is 50%, the layer has double drainage.</p> <p>i) What is the coefficient of consolidation ii) If the coefficient of permeability is 3mm/year, what is the settlement after one year and iii) How much time will the layer take to reach 90% consolidation.</p> <table border="1"> <tr> <td>Properties</td> <td>Values</td> </tr> <tr> <td>Thickness (X)</td> <td>$2m + 0.1\text{Roll.No}$</td> </tr> </table>	Properties	Values	Thickness (X)	$2m + 0.1\text{Roll.No}$	1								
Properties	Values														
Thickness (X)	$2m + 0.1\text{Roll.No}$														
5	2	<p>A triaxial compression test on a cohesive sample cylindrical in shape yields the following effective stresses. Angle of inclination of rupture plane is 60° to the horizontal. Present the above data by means of a Mohr's Circle of stress diagram Find the angle of internal friction.</p> <table border="1"> <tr> <td>Properties</td> <td>Values</td> </tr> <tr> <td>Major Principal stresses</td> <td>$8\text{MN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>Minor Principal stresses</td> <td>$2\text{MN/m}^2 + 0.1\text{Roll.No}$</td> </tr> </table>	Properties	Values	Major Principal stresses	$8\text{MN/m}^2 + 0.1\text{Roll.No}$	Minor Principal stresses	$2\text{MN/m}^2 + 0.1\text{Roll.No}$	2						
Properties	Values														
Major Principal stresses	$8\text{MN/m}^2 + 0.1\text{Roll.No}$														
Minor Principal stresses	$2\text{MN/m}^2 + 0.1\text{Roll.No}$														
6	2	<p>Given the following data from a consolidated undrained test with pore water pressure measurement, determine the total and effective stress parameters.</p> <table border="1"> <tr> <td>Properties</td> <td>Values</td> <td>Values</td> </tr> <tr> <td>σ_3</td> <td>$100\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$200\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\sigma_1 - \sigma_3$</td> <td>$156\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$198\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>u</td> <td>$58\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$138\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> </table>	Properties	Values	Values	σ_3	$100\text{ KN/m}^2 + 0.1\text{Roll.No}$	$200\text{ KN/m}^2 + 0.1\text{Roll.No}$	$\sigma_1 - \sigma_3$	$156\text{ KN/m}^2 + 0.1\text{Roll.No}$	$198\text{ KN/m}^2 + 0.1\text{Roll.No}$	u	$58\text{ KN/m}^2 + 0.1\text{Roll.No}$	$138\text{ KN/m}^2 + 0.1\text{Roll.No}$	2
Properties	Values	Values													
σ_3	$100\text{ KN/m}^2 + 0.1\text{Roll.No}$	$200\text{ KN/m}^2 + 0.1\text{Roll.No}$													
$\sigma_1 - \sigma_3$	$156\text{ KN/m}^2 + 0.1\text{Roll.No}$	$198\text{ KN/m}^2 + 0.1\text{Roll.No}$													
u	$58\text{ KN/m}^2 + 0.1\text{Roll.No}$	$138\text{ KN/m}^2 + 0.1\text{Roll.No}$													
7	2	<p>The undrained triaxial test were conducted to failure on three specimen of clayey silt with pore pressure measurements as shown. Determine the shear parameters considering shear strength of soil.</p> <table border="1"> <tr> <td>Major Stress</td> <td>Minor Stress</td> <td>Pore Pressure</td> </tr> <tr> <td>$157\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$17\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$12\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$204\text{KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$44\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$20\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$227\text{KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$55\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> <td>$22\text{ KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> </table>	Major Stress	Minor Stress	Pore Pressure	$157\text{ KN/m}^2 + 0.1\text{Roll.No}$	$17\text{ KN/m}^2 + 0.1\text{Roll.No}$	$12\text{ KN/m}^2 + 0.1\text{Roll.No}$	$204\text{KN/m}^2 + 0.1\text{Roll.No}$	$44\text{ KN/m}^2 + 0.1\text{Roll.No}$	$20\text{ KN/m}^2 + 0.1\text{Roll.No}$	$227\text{KN/m}^2 + 0.1\text{Roll.No}$	$55\text{ KN/m}^2 + 0.1\text{Roll.No}$	$22\text{ KN/m}^2 + 0.1\text{Roll.No}$	2
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8	3	<p>The unit weight of a soil of a 30° slope is given in the table below. The shear parameters C and Φ for the soil are given in the table below. Give that the height of the slope is 12m and the stability number obtained from the charts for the given slope and angle of internal friction is 0.025, compute the factor of safety.</p>	3												



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			Properties	Values									
			C	$16\text{KN/m}^2 + 0.1\text{Roll.No}$									
			ϕ	$18^\circ + 0.1\text{Roll.No}$									
			γ	$16\text{ KN/m}^3 + 0.1\text{Roll.No}$									
9	3	<p>A canal is having a side slope of 1 to 1 is proposed to be constructed in a cohesive soil to the depth of 5m below ground surface. Soil properties are given in the table below. $e = 1$, $G=2.65$ using Taylor's number find the factor of safety with respect to cohesion against the failure of bank slopes.</p> <p>(i) When the canal is full of water (ii) When there is sudden drawdown of water in the canal.</p> <table border="1"> <thead> <tr> <th>Propertie</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>s</td> <td></td> </tr> <tr> <td>C</td> <td>$16\text{KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\phi$</td> <td>$18^\circ + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Propertie	Values	s		C	$16\text{KN/m}^2 + 0.1\text{Roll.No}$	ϕ	$18^\circ + 0.1\text{Roll.No}$	3		
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10	3	<p>A infinite slope is made up of clay with following properties .If slope has an inclination of 35° and weight equal to 12m.Determine the stability of slope when</p> <p>a) Slope is submerged b) Seepage parallel to the slope.</p> <table border="1"> <thead> <tr> <th>Propertie</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>s</td> <td></td> </tr> <tr> <td>C</td> <td>$16\text{KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\phi$</td> <td>$18^\circ + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\gamma$</td> <td>$16\text{ KN/m}^3 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Propertie	Values	s		C	$16\text{KN/m}^2 + 0.1\text{Roll.No}$	ϕ	$18^\circ + 0.1\text{Roll.No}$	γ	$16\text{ KN/m}^3 + 0.1\text{Roll.No}$	3
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11	3	<p>A deep cut of 12m depth is made in natural soil for the construction of a road. The properties of soil are given in the table below. The slope angle of the cut is 35°. Consider a trial slip circle of radius 20m passing through the toe and cutting the top ground surface at a distance 5m from top edge. Determine the factor of safety with respect to cohesion for the given trip slip circle by friction circle method. Assume factor of safety w.r.t friction as 1.5.</p> <table border="1"> <thead> <tr> <th>Propertie</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>s</td> <td></td> </tr> <tr> <td>C</td> <td>$16\text{KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\phi$</td> <td>$18^\circ + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\gamma$</td> <td>$16\text{ KN/m}^3 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Propertie	Values	s		C	$16\text{KN/m}^2 + 0.1\text{Roll.No}$	ϕ	$18^\circ + 0.1\text{Roll.No}$	γ	$16\text{ KN/m}^3 + 0.1\text{Roll.No}$	3
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12	3	<p>Determine the factor of safety against sliding for the slip surface shown in the figure . Use Swedish circle method . Soil properties are given in the table below. Slope of embankment is 1:1.5.</p> <table border="1"> <thead> <tr> <th>Propertie</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Propertie	Values			3						
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13	4	<p>A retaining wall 8m high retains sand with $\Phi = 30^\circ$ $\gamma = 24\text{KN/m}^3$ up to a depth of 4m from the top. From 4m to 8m, the material is a cohesive soil with having the properties given below. The water table is at a depth of 5m from the ground level $\gamma_{\text{sat}} = 21\text{KN/m}^3$ for cohesive soil. Find the total active thrust on the wall along with its point of application.</p> <table border="1"> <thead> <tr> <th>Propertie</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>s</td> <td></td> </tr> <tr> <td>C</td> <td>$15\text{KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\varphi$</td> <td>$15^\circ + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\gamma$</td> <td>$15 \text{ KN/m}^3 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Propertie	Values	s		C	$15\text{KN/m}^2 + 0.1\text{Roll.No}$	φ	$15^\circ + 0.1\text{Roll.No}$	γ	$15 \text{ KN/m}^3 + 0.1\text{Roll.No}$	4
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14	4	<p>A retaining wall 6.8m high retains soil having the following properties. The backfill is horizontal & carries a surcharge of following value. Draw the active earth pressure diagram.</p> <p>i) When tension crack occurs ii) When tension crack do not occurs.</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>$15\text{KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\varphi$</td> <td>$15^\circ + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\gamma$</td> <td>$15 \text{ KN/m}^3 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>Surcharge</td> <td>$20\text{KN/m}^2 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Properties	Values	C	$15\text{KN/m}^2 + 0.1\text{Roll.No}$	φ	$15^\circ + 0.1\text{Roll.No}$	γ	$15 \text{ KN/m}^3 + 0.1\text{Roll.No}$	Surcharge	$20\text{KN/m}^2 + 0.1\text{Roll.No}$	4
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Surcharge	$20\text{KN/m}^2 + 0.1\text{Roll.No}$												
15	4	<p>Using coulomb's analytical method, determine the active lateral earth pressure for vertical retaining wall with following height that supports a cohesion less fill. The upper surface of the fill rises from the crest of the wall at an angle of 20° with the horizontal. Assume Φ, γ and δ as below.</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Height</td> <td>$6\text{m} + 0.1\text{Roll.No}$</td> </tr> <tr> <td>$\gamma$</td> <td>$18 \text{ KN/m}^3 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Properties	Values	Height	$6\text{m} + 0.1\text{Roll.No}$	γ	$18 \text{ KN/m}^3 + 0.1\text{Roll.No}$	4				
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			Φ	$36^\circ + 0.1\text{Roll.No}$	
			δ	$20^\circ + 0.1\text{Roll.No}$	
16	4	A retaining wall with a smooth vertical back is pushed against soil mass having following properties. What is the total Rankine passive pressure if the horizontal soil surface carries a load of 50 kPa. What is the point of application of resultant thrust?	4		
			Properties	Values	
			Height	$6\text{m} + 0.1\text{Roll.No}$	
			γ , KN/m ³	$19 + 0.1\text{Roll.No}$	
			Φ	$16^\circ + 0.1\text{Roll.No}$	
			C, KN/m ²	$40 + 0.1\text{Roll.No}$	
17	4	A retaining wall having smooth vertical back is retaining purely cohesive soil. Calculate the depth at which the intensity of active pressure is zero. Consider the following details. What will be the critical depth of excavation in this soil?	4		
			Properties	Values	
			Height	$12\text{m} + 0.1\text{Roll.No}$	
			γ , KN/m ³	$10 + 0.1\text{Roll.No}$	
			C, KN/m ²	$20 + 0.1\text{Roll.No}$	
18	4	A retaining wall with a vertical back having height given below supports a cohesionless backfill of unit weight given in the table. The upper surface of the backfill rises at an angle of 10° with the horizontal from the crest of the wall. The angle of internal friction for the soil is 30° , and the angle of wall friction is 20° . Determine the total active pressure per linear meter of the wall and mark the direction and point of application of the thrust. Use Rebhann's graphical method.	4		
			Properties	Values	
			Height	$6\text{m} + 0.1\text{Roll.No}$	
			γ , KN/m ³	$24 + 0.1\text{Roll.No}$	
19	4	A retaining wall 4.5m high with a vertical back supports a horizontal fill weighing 18.6kN/m^3 and having $\phi = 32^\circ$, $\delta = 20^\circ$, and $c=0$. Determine the total active thrust on the wall by Culmann's method.	4		
			Properties	Values	
			Height	$4.5\text{m} + 0.1\text{Roll.No}$	
			γ , KN/m ³	$18.6 + 0.1\text{Roll.No}$	
			Φ	$32 + 0.1\text{Roll.No}$	
			C, KN/m ²	0	
			Δ	$20 + 0.1\text{Roll.No}$	
20	4	A masonry retaining wall of trapezoidal section with the vertical face on the earth side is 1.5m wide at top and 3.5m wide at the base and is 5m high. It retains a sand sloping at 2 horizontal to 1 vertical. Following are the properties of soil. Find the maximum and minimum pressure at the base of wall assuming the unit weight of masonry as	4		



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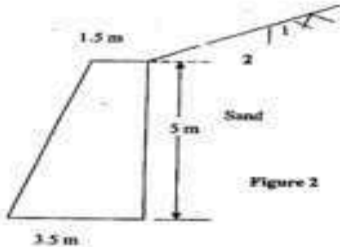
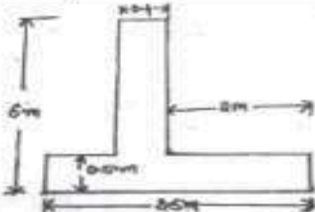
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		<p>23kN/m³.</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>γ, KN/m³</td> <td>18 + 0.1Roll.No</td> </tr> <tr> <td>Φ</td> <td>30° + 0.1Roll.No</td> </tr> </tbody> </table> 	Properties	Values	γ , KN/m ³	18 + 0.1Roll.No	Φ	30° + 0.1Roll.No											
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21	4	<p>A section of cantilever retaining wall as shown in figure the back fill has following properties, water table is considerable depth below ground surface. The backfill carries a uniform surcharge load of 35kN/m². Check the stability of retaining wall assume the unit weight of concrete is 24kN/m³ safe bearing capacity of soil below the base is 500kN/m².</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>γ, KN/m³</td> <td>16 + 0.1Roll.No</td> </tr> <tr> <td>Φ</td> <td>41 + 0.1Roll.No</td> </tr> <tr> <td>C, KN/m²</td> <td>0</td> </tr> </tbody> </table> 	Properties	Values	γ , KN/m ³	16 + 0.1Roll.No	Φ	41 + 0.1Roll.No	C, KN/m ²	0	4								
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22	5	<p>The results of plate load test conducted on 30cm square plate are as follows, Determine the size of a square footing for a column carrying load as given in the table below, with a max permissible settlement of 50mm.</p> <table border="1"> <tbody> <tr> <td>Load/unit area</td> <td>200</td> <td>400</td> <td>500</td> <td>600</td> <td>700</td> </tr> <tr> <td>Settlement</td> <td>6mm</td> <td>13mm</td> <td>18mm</td> <td>28mm</td> <td>60mm</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Load,kN</td> <td>1500 + 10 Roll.No</td> </tr> </tbody> </table>	Load/unit area	200	400	500	600	700	Settlement	6mm	13mm	18mm	28mm	60mm	Properties	Values	Load,kN	1500 + 10 Roll.No	5
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23	5	<p>A loading test was conducted with a 300mm square plate at depth of 1m below the ground surface in pure clay deposit. The water table is located at a depth of 4m below the ground level. Failure occurred at a load of 45kN. What is the safe bearing capacity strip footing with following dimension on the same soil? Assuming the $\gamma = 18\text{kN/m}^3$ above the water table and a factor of safety of 2.5. (For $\phi=0^\circ, N_c=5.7$,</p>	5																

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		$N_u=1, N_v=0$ <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Width of footing</td> <td>$1.5m + 0.1\text{Roll.No}$</td> </tr> <tr> <td>Depth of footing</td> <td>$1.5m + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Properties	Values	Width of footing	$1.5m + 0.1\text{Roll.No}$	Depth of footing	$1.5m + 0.1\text{Roll.No}$													
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24	5	<p>Determine the size of square footing at ground level to transmit the load given in the table below and $\phi = 36^\circ (N_c=46, N_q=43, N_v=41)$ for factor of safety of 3. What will be the modification in results if the foundation is taken at 1m below ground surface and water table rises to the ground surface?</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Load KN</td> <td>$900 + 10 \text{ Roll.No}$</td> </tr> <tr> <td>$\gamma, \text{KN/m}^3$</td> <td>$18 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Properties	Values	Load KN	$900 + 10 \text{ Roll.No}$	$\gamma, \text{KN/m}^3$	$18 + 0.1\text{Roll.No}$	5												
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25	5	<p>What will be the gross net bearing capacity of sand having properties given in the table below for the following cases: a) 1.5m wide strip foundation b) 1.5m x 1.5m square footing c) 0.75m radius circular footing. The footing <u>are</u> placed at a depth of 1.5m from ground surface. Assume factor of safety of 1.5 and use Terzaghi's bearing capacity equations.</p> <table border="1"> <thead> <tr> <th>ϕ</th> <th>N_c</th> <th>N_q</th> <th>N_γ</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>57.8</td> <td>41.4</td> <td>42.4</td> </tr> <tr> <td>40</td> <td>95.7</td> <td>81.3</td> <td>100.4</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>$\gamma, \text{KN/m}^3$</td> <td>$19 + 0.1\text{Roll.No}$</td> </tr> <tr> <td>Φ</td> <td>$36 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	ϕ	N_c	N_q	N_γ	35	57.8	41.4	42.4	40	95.7	81.3	100.4	Properties	Values	$\gamma, \text{KN/m}^3$	$19 + 0.1\text{Roll.No}$	Φ	$36 + 0.1\text{Roll.No}$	5
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26	6	<p>A group of piles has to support a vertical axial load of 2000 KN. The piles are driven into clay and have a length of 10.5m . The thickness of the clay Stratum is 15 m. The clay is followed by rock. The Y_{sat} is 19 KN/m^3 and $C= 25\text{KN/m}^2$. The clay is normally consolidated and has a liquid limit of 65 .Its $G=2.7$. The water table is at the ground surface itself. Assuming the diameter of pile as below, design a pile group. Compute its ultimate settlement.</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Pile Dia</td> <td>$300\text{mm} + 1\text{Roll.No}$</td> </tr> </tbody> </table>	Properties	Values	Pile Dia	$300\text{mm} + 1\text{Roll.No}$	6														
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27	6	<p>Following data was obtained in a vertical pile load test on a 300mm diameter pile. Plot the load settlement curve and determine the allowable load as per IS code.</p> <table border="1"> <thead> <tr> <th>Properties</th> <th>Values</th> </tr> </thead> <tbody> <tr> <td>Load KN</td> <td>$50 + 1\text{Roll.No}$</td> </tr> <tr> <td>Settlement(mm)</td> <td>$2.5 + 0.1\text{Roll.No}$</td> </tr> </tbody> </table>	Properties	Values	Load KN	$50 + 1\text{Roll.No}$	Settlement(mm)	$2.5 + 0.1\text{Roll.No}$	6												
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28	6	<p>A square pile group of 16piles penetrate through a filled up soil of given depth below. The pile diameter and the pile spacing is given below. The unit cohesion of the material is 18kN/m^3 and unit weight of the soil is given in the table. compute the negative skin friction on the group.</p>	6																		



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		Properties	Values		
		Dia of pile	250mm + 1Roll.No		
		Depth of soil	3m + 0.1Roll.No		
		Pile spacing	0.75 + 0.01Roll.No		
		γ , KN/m ³	15 + 0.1Roll.No		
29	6	A precast concrete pile of given diameter is driven into stiff clay. The unconfined compressive strength of the clay is given in the table below. Determine the length of pile required to carry a safe load of 400 kN with factor of safety =2.5. assume adhesion factor =0.55.		6	
		Properties	Values		
		Dia of pile	450mm + 1Roll.No		
		Unconfined compressive strength kN/m ²	200 + 1Roll.No		
30	6	A nine pile group arranged in a square pattern is used as a foundation for a column in sand of following properties. Dimension of Piles in each direction is given below. Calculate the ultimate load capacity of the pile group. Assume the unit weight of the soil as below. Show the arrangement of piles.		6	
		Properties	Values		
		Φ	32+ 0.1Roll.No		
		N _q	27		
		Dia of piles	300 mm+ 0.1Roll.No		
		Length of pile	10m+ 0.1Roll.No		
		Spacing of pile	900mm		
		Γ ,KN/m ³	18+ 0.1Roll.No		

12. Beyond Syllabus Activities for Gap Mitigation


No	Type of the Activity	Activities	Details – no of attendees, guest, feedback, mark sheet, report
1	NIL	NIL	NIL

Academic Plan prepared by

F

Name of Faculty: Ashwini P

Sign:

		
Domain Co-ordinator	SIG Coordinator	HOD



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Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
 Department of Mechanical Engineering

Sem: IV

Subject: Kinematics of Machinery (MEC403)

Course Outcomes-

Student will be able to

C403.1: To Understand and explain various components of mechanisms.

C403.2: To Understand and explain various components of mechanisms.

C403.3: To Draw using various methods velocity and acceleration diagrams of mechanisms.

C403.4: To Construct CAM profile illustrating displacement, velocity, acceleration and jerk for the specific follower motion.

C403.5: To Define and apply different Flexible connectors and Concept of Brakes.

C403.6: To Define different Terms used in gears and application of different Gears in power Transmission.

CO-PO (Program Outcomes) Matrices

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	2	-	1	-	-	-	1	-	-	-	1
C403.2	2	2	2	1	-	-	-	1	-	-	-	1
C403.3	2	2	3	3	2	-	-	1	-	1	-	-
C403.4	3	3	2	3	3	2	-	1	-	1	-	1
C403.5	3	2	1	2	3	-	-	1	-	-	-	2
C403.6	3	2	3	2	3	1	-	1	3	3	1	1
C403	2.67	2.16	1.87	2	1.87	0.5	0	1	0.5	0.83	0.167	1

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CO-PSO (Program Specific Outcomes) Matrices

CO	PSO1	PSO2	PSO3	PSO4
C403.1	3	2	-	1
C403.2	2	2	2	1
C403.3	2	2	3	3
C403.4	3	3	2	3
C403.5	3	2	1	2
C403.6	3	2	3	2
C403	2.67	2.16	1.87	2

(A) Program Specific Outcomes

1. Students should be able to solve complex problems in the field of design, thermal and manufacturing.
2. Students should be able to analyse and stimulate mechanical systems by conducting experimental studies and using software to validate systems.
3. Students should be able to develop his/her ideas in the field of renewable energy to contribute towards society.
4. Students should be able to apply technical and management skills to manage different projects.

(B) PROGRAM OUTCOMES(POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

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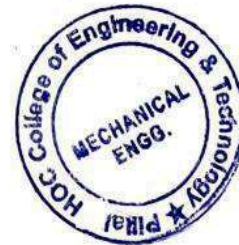
Mechanical/PHCET

COs, CO-PO matrices_ Kinematics of Machinery

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Prepared By

1. Mr. Shashi Bhushan, (Subject Teacher) *SB*
2. Mr. Rahul Warghane (SIG group member) *WR*
3. Dr. Suhas Uthale (SIG group member) *USA*



Audited By:

Department Academic committee:

1. Dr. M.D. Nadar *MDN*
2. Dr. R. C. Prasad *RC*
3. Dr. S.A. Uthale *USA*

IQAC Committee

1. Dr. Mansi Subhedar *MS*
2. Dr. Gajendra V. Patil *GP*

[Handwritten signature of Principal]

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Dist. Raigad, Pin-410 207

Version 3.1	Course Academic Plan	Course Code and Name: MEC405 Kinematics of Machinery
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The academic resources available in PHCET, Rasayani

PHCET AMS	Evaluation and Assessment	PHCET Library	Value added courses and MOOC courses
Institute & Department Vision and Mission	Former IA question papers and solutions (prepared by faculty)	Former IA question papers: solutions - hardcopy	Value Added Courses (VAC) are conducted throughout the semester & in the semester break -
Lesson Plan, Practical plan, Content delivery (Planned and Actual)	MU end semester examination question papers and solutions (prepared by faculty)	MU end semester exam question paper & solutions - by faculty, hardcopy	Online courses from NPTEL, Coursera etc. are pursued throughout the semester
Student attendance and performance	Class notes and Digital Content for the subject	All text books, reference books, e-books mentioned in the syllabus & AAP	Video recording of Lectures captured in Light board studio at PHCET is made available.
Student details	Comprehensive question bank, MCQ, GA, PPT, Class Test papers	Technical journals and magazines for reference	Interactive smart board facility is available and lectures are recorded.
Departmental Academic plan	Academic Administration Plan & Beyond Syllabus Activity report	PHCET library is member of IIT Bombay Library	Expert lectures by Industry/Academia

1.a Course Objectives (As per Blooms Taxonomy)

Sr No	Course Objectives
MEC405.1	To Understand basic of kinematics and kinetics of machine elements
MEC405.2	To familiarize with basics of special mechanisms
MEC405.3	To study functioning and working of power transmission machine elements.

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1.b Course Outcome (CO) Mapping with Modules

Sr No	COs	Related Module/s
CO1	To Understand and Explain various components of mechanisms	Simple Mechanisms
CO2	To Construct and apply mechanisms to provide specific motion.	Special Mechanism/Mechanism with lower pairs
CO3	To Draw using various methods velocity and acceleration diagrams of mechanisms.	Velocity and Acceleration analysis in Mechanism
CO4	To Construct CAM profile illustrating displacement, velocity, acceleration and jerk for the specific follower motion.	Cams and follower
CO5	To Define and apply different Flexible connectors, brakes.	Belts, chain and brakes
CO6	To Define different Terms used in gears, gear trains and application of different Gears in power Transmission.	Gear and Gear Train

1.c Mapping of COs with POs (mark 3: Strong, 2: Moderate, 1: Weak,)

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405.1	3	2	-	1	-	-	-	1	-	-	-	1
C405.2	2	2	2	1	-	-	-	1	-	-	-	1
C405.3	2	2	3	3	2	-	-	1	-	1	-	-
C405.4	3	3	2	3	3	2	-	1	-	1	-	1
C405.5	3	2	1	2	3	-	-	1	-	-	-	2
C405.6	3	2	3	2	3	1	-	1	3	3	1	1
C405	2.67	2.16	1.87	2	1.87	0.5	0	1	0.5	0.83	0.167	1

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1.d Mapping of COs with PSOs

CO	PSO1	PSO2	PSO3	PSO4	PSO5
C405.1	3	2	-	1	-
C405.2	2	2	2	1	-
C405.3	2	2	3	3	2
C405.4	3	3	2	3	3
C405.5	3	2	1	2	3
C405.6	3	2	3	2	3
C405	2.67	2.16	1.87	2	1.87

1.e Core Competency of the course

Categories	Mathematics	Basic Science & General Engg	Humanities & Soft Skill	Core Engg./ Technology - Design & Analysis	Multidisciplinary
	YES	yes		YES	yes

2.a Teaching Scheme (As specified by the University)

CBCGS,R19			
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2.b Module Wise Teaching Hours and % Weightage in University Question Paper

Module No.	Module Title and Brief Details	Teaching Hrs. for each module	% Weightage in University Question Papers
1	Simple mechanism	7	10
2	Special Mechanism	4	15
3	Velocity and Acceleration Analysis	10	25
4	Cams	4	15
5	Belts chain and brakes	4	15
6	Gear and Gear trains	10	20

2.c Prerequisite Courses

Sr. No.	Semester	Name of the course	Topics covered
1	First	Engineering Mechanics, Physics	Newtons law, beam analysis, Parallel and perpendicular axis theorem, Moment of inertia, ICR Method

2.d Relevance to Future Courses

Sr. No.	Semester	Name of the course
1	VI	Machine design I
2	VII	Machine Design II

2.e Industry Application of the course

Sr. No	Application
1	Structural engineering, design engineering finite elemental analysis
2	Design of mechanical elements

3.a Past Results -

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Year	Division A		Division B		Division C	
	Initials of Teacher	% Result	Initials of Teacher	% Result	Initials of Teacher	% Result

Topics which affect results negatively	Module Number	Recommendations to overcome these issues & improve result in future
Velocity Analysis	3	Solve multiple numerical, Use reference books
Belts chain and brakes	5	Solve multiple numerical, Use reference books
Gears	6	Solve multiple numerical, Use reference books

4.a Learning Resources – Books and E-Resources

4.b List of Text Books

Sr. No.	Text book titles	Authors	Publisher	Edition	Module No
1	Theory of machines	SS Ratan	Tata McGraw Hill	5th	all

4.c List of Reference Books

Sr. No.	Referencebook titles	Authors	Publisher	Edition	Module No
1	Theory of machines	R S Khurmi	Oxford University Press	14th	all
2	Theory of machines	PL Ballaney	Khanna Publishers	-	all

4.d List of E – Books

Sr. No.	E book titles	Authors	Publisher	Edition	Module No
1	Theory of machines	R L Norton	Mc Graw Hill		1-5

4.e Web Links and Names of Magazines, Journals, E-journals

Sr. No.	Web-Links and Names of Journals and E-Journals Recommended	Web-Links and Names of Magazines Recommended	Module Nos.
1	Theory of machines	https://www.springer.com/journal/11223	

5. Concept Inventory

Sheet Attached Separately

6.0 Web Links for Online Notes/YouTube/ Digital Content/Lecture Capture/NPTEL Videos

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Sr. No.	Websites/ Links	Module No
1	https://nptel.ac.in/courses/112/105/112105268	All
2	https://www.youtube.com/playlist?list=PLYRGB44zNZWVibVLmWANp-7obQzOhJLRt	All

7. Recommended MOOC Courses like Coursera / NPTEL / Swayam/ edX etc.

Sr. No.	MOOC course link	Resource Person	Course duration	Certificate (Y/N)
1	https://nptel.ac.in/courses/112/105/112105268/	Dr. Dasgupta	8 weeks	Yes
2	https://www.coursera.org/learn/physics-101-forces-kinematics	Rice University	30 Hours	Yes

8. Study Material Distributed among Students

GA	Notes (Hand Written)	Digital content	PPT	MCQ	Other
	YES	YES	YES	--	--

9. Lesson Plan

Sheet Attached Separately

10. Rubric for Grading and Marking of Term Work

Lecture + Practical (% Attendance) & Marks	Assignments / PBL	Tutorial	Lab / Practical Performance	Lab Journal Assessment	Mooc Course	Total
05	10	--	05	05	--	25

11. Practical/Assignment Plan

Practical/Assignment No.	Module no.	Title of experiment/assignment	Mapping with Cos
1	3	Velocity Analysis	CO1, CO2, CO3
2	3	Acceleration Analysis	CO1, CO2, CO3
3	4	Cams	CO4

12. Beyond Syllabus Activities

Activities for Gap Mitigation

No	Type of the Activity	Activities	Details - no of attendees, guest, feedback, mark sheet, report
1	PBL	Design of Mechanism	Available with PBL Co-ordinator

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Prepared By

1. Mr. Shashi Bhushan, (Subject Teacher) *SB*
2. Mr. Rahul Warghane (SIG group member) *RW*
3. Dr. Suhas Uthale (SIG group member) *USA*



Audited By:

Department Academic committee:

1. Dr. M.D. Nadar *MN*
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IQAC Committee

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Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
 Department of Mechanical Engineering

Sem: IV

Subject: Kinematics of Machinery (MEC403)

Course Outcomes-

Student will be able to

C403.1: To Understand and explain various components of mechanisms.

C403.2: To Understand and explain various components of mechanisms.

C403.3: To Draw using various methods velocity and acceleration diagrams of mechanisms.

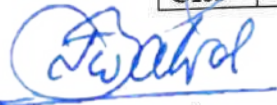
C403.4: To Construct CAM profile illustrating displacement, velocity, acceleration and jerk for the specific follower motion.

C403.5: To Define and apply different Flexible connectors and Concept of Brakes.

C403.6: To Define different Terms used in gears and application of different Gears in power Transmission.

CO-PO (Program Outcomes) Matrices

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403.1	3	2	-	1	-	-	-	1	-	-	-	1
C403.2	2	2	2	1	-	-	-	1	-	-	-	1
C403.3	2	2	3	3	2	-	-	1	-	1	-	-
C403.4	3	3	2	3	3	2	-	1	-	1	-	1
C403.5	3	2	1	2	3	-	-	1	-	-	-	2
C403.6	3	2	3	2	3	1	-	1	3	3	1	1
C403	2.67	2.16	1.87	2	1.87	0.5	0	1	0.5	0.83	0.167	1



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Experiments List:



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Name of the course: Network Lab

Course code: ITL 401


Class and Semester: SE IT IV

AY: 2022-23

Sr. No.	Name of the Experiment
1	Understanding Basic networking Commands: Ping, Tracert, traceroute, ipconfig, ifconfig, nslookup, netstat.
2	Installation and configuration of NS2. Introduction to Tcl Hello Programming
3	Installation of Wire shark. Analysis of Packet headers.
4	Socket Programming with C/Java 1.TCP Client, TCP Server 2. UDP Client, UDP Server
5	A case study to design and configure any organization network eg. College network or campus network, using any packet tracer or network topology design software based on infrastructure requirements, servers and clients, traffic consideration and application requirements.
6	Creation of nodes using NS2.
7	Creation of Ring Topology using NS2.
8	Creation of TCP and UDP communication between four nodes using NS2

Signature of course In-Charge: 

Comment by Domain Committee members: 

Name & Signature of Domain Committee members / Domain Coordinator: 

Remark & Signature of HoD: 



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Course Review Details:



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Mahatma Education Society's
Pillai HOC College of Engineering and Technology, Rasayani
Department of Information Technology

Review of Lab Outcomes (LOs)

Name of the course: Internet Programming Lab

Course code: IITL501

Class and Semester: TE IT/SEM V

AY: 2022-23

Date: 09/07/2022

After the completion of course student will be able to:

1. Identify and apply the appropriate HTML tags to develop a web page
2. Identify and apply the appropriate CSS tags to format data on webpage.
3. Construct responsive website using Bootstrap
4. Use JavaScript to develop interactive web applications
5. Construct front end applications using React
6. Construct backend applications using Node.js/Express.js

Signature of course In-Charge-

Comment by Domain Committee members - The Lab outcomes are mapped properly as per the lab list mentioned in syllabus.

Name & Signature of Domain Committee members / Domain Coordinator:

Praachi Soste

Poonam Lad

Signature of HoD:

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Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Information Technology

Review of Assignments

Name of the course: Internet Programming

Course code: ITC501

Class and Semester: TE IT/SEM V

AY: 2022-23

Date: 23/8/2022

Mapping of Assignment with CO		CO1	CO2	CO3	CO4	CO5	CO6
Assignment No: <u>1</u>							
1.	Explain classes & Inheritance in JavaScript <u>JavaScript</u> .		05				
2.	What is promise in JS?		05				
3.	Write short note on JS Iterators and Generators.		05				
4.	Difference between URI and URL.	05					
5.	What is https and how it works?	05					
6.	Write a short note on REST API	05					

Signature of course In-Charge-

Comment by Domain Committee members - Assignment No. 1 covers module 1 and module 2 questions mapped with CO's properly.

Name & Signature of Domain Committee members / Domain Coordinator:

Prachi Sorte

Poonam Lad

Remark & Signature of HoD:

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Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Information Technology

Review of Experiments

Name of the course: Internet Programming


Course code: ITC501

Class and Semester: TE IT/SEM V

AY: 2022-23




Date: 16/07/2022

Mapping of Assignment with CO		CO1	CO2	CO3	CO4	CO5	CO6
Practical List							
1	To implement basic HTML elements.	10					
2	To study HTML forms and multimedia.	10					
3	Basics of CSS and its properties.		10				
4	CSS3 selectors, classes and pseudo elements		10				
5	Bootstrap grid system, forms			10			
6	Bootstrap Navbar, breadcrumb			10			
7	Basics of JavaScript				10		
8	Configuration of ReactJS app.					10	
9	ReactJS Router implementation.					10	
10	Create a Node.js and Express.js app.						10

Signature of course In-Charge- 

Comment by Domain Committee members - All Lab practicals maps properly with the Lab outcomes.

Name & Signature of Domain Committee members / Domain Coordinator:


Pratik Soste
Pradipom Lad 
Remark & Signature of HoD: 

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Course Review Details:



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Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Information Technology Engineering

Review of Course Outcomes (COs)

Name of the course: Internet Programming

Course code: ITC501

Class and Semester: TE IT/SEM V

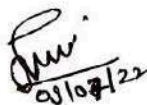
AY: 2022-23

Date: 09/07/2022

After the completion of course student will be able to:

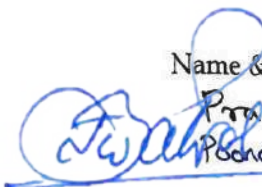
1. Select protocols or technologies required for various web applications.
2. Apply JavaScript to add functionality to web pages
3. Design front end applications using basic React
4. Design front end applications using functional components of React
5. Design back end applications using Node.js
6. Construct web based Node.js applications using Express.

Signature of course In-Charge-


09/07/22

Comment by Domain Committee members - All CO's maps with the all modules of subject.

Name & Signature of Domain Committee members / Domain Coordinator:


Prachi Sarte
Prachin Lad

Mark & Signature of HoD:

 Verified.

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ICT Tools used:

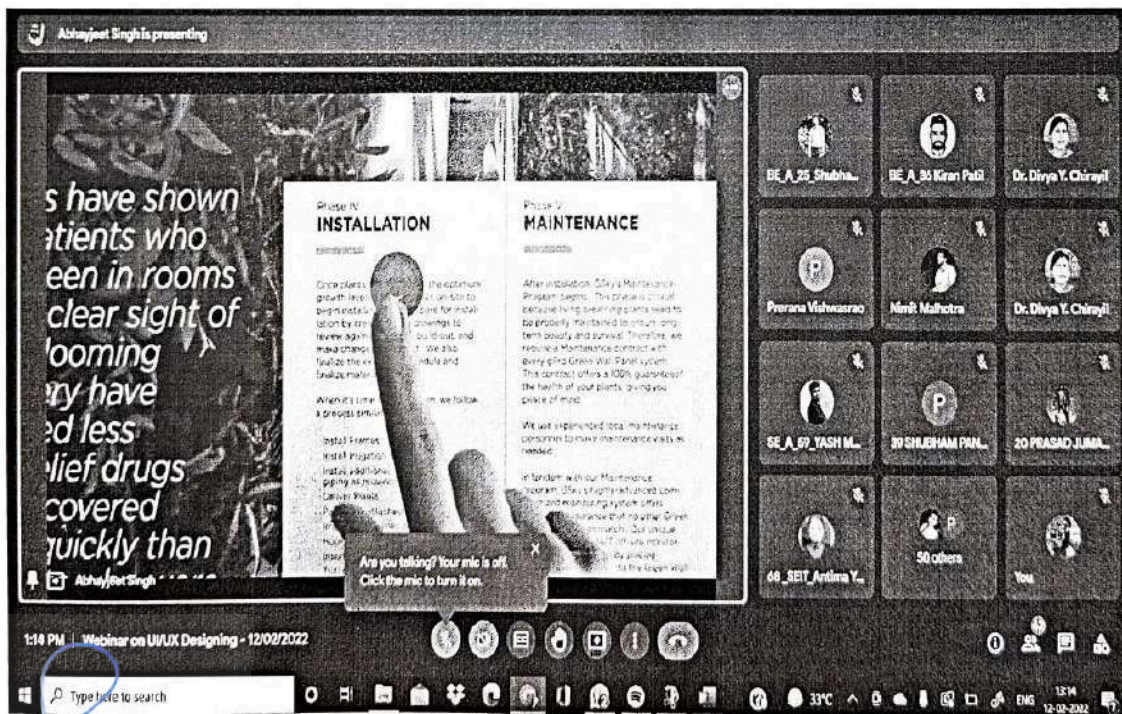
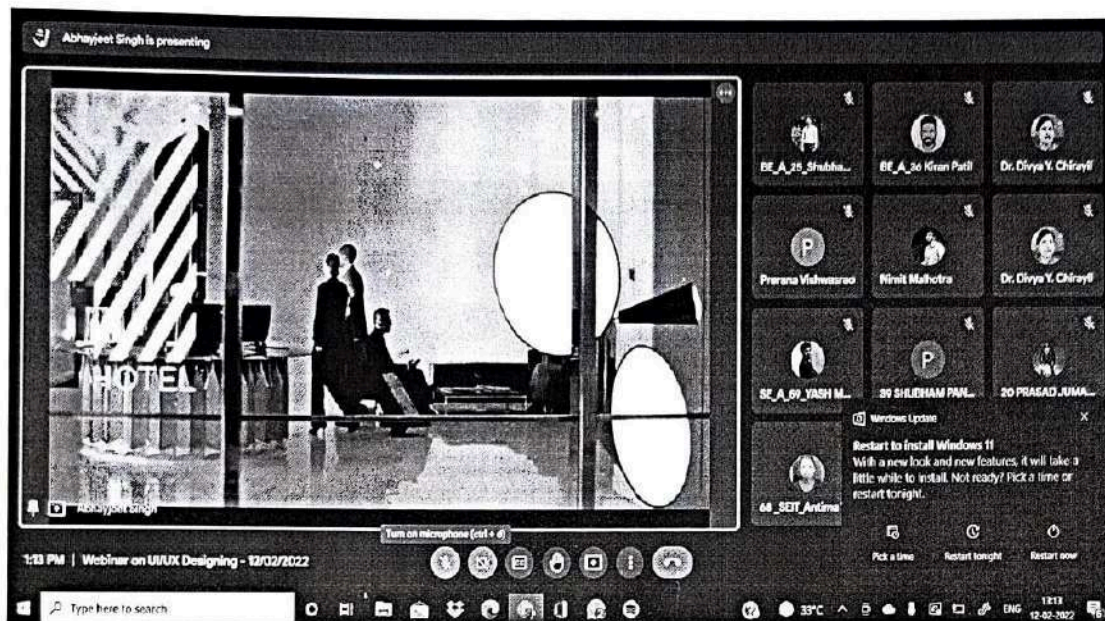


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8. Google Meet:

Online platforms such as Google Meet and Zoom to conduct lectures, practical and other activities.



Swairal

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Google Classroom Details:



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Mahatma Education Society's
Pillai HOC College of
Engineering and Technology,
Pillai's HOC Educational Campus
Rassyanil, Tal. Khelapur
Dist. Raigad, Pin-410 207



Classroom >

SE IT ESAY 2021-22 CNND
IT Engineering



Stream

Classwork

People

Grades



Create

All topics

IA II Question Paper

Posted Nov 26, 2022

IA I Question paper

Posted Nov 26, 2022

Internal Assessment I and II



Students will see this topic once work is added to it

Course Outcomes



Course and Lab Outcomes

Posted Jan 15, 2022

Question Bank



Viva question Bank

Posted Apr 5, 2022

Module Wise question 1-6

Edited Apr 12, 2022

Question Bank for Module 1 and 2

Posted Jan 15, 2022



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Assignment



Assignment No 2	Posted Apr 5, 2022
Assignment No 1	Posted Jan 15, 2022

Experiments



Ns2 Experiments code	Edited Apr 12, 2022
experiment reference document 1,2,...	Edited Apr 12, 2022
Experiment No 6 Network Design	Edited Apr 12, 2022
Experiment No 2	Posted Feb 11, 2022

Notes



module 6 Notes	Posted Apr 12, 2022
module 5 notes	Posted Apr 12, 2022
module 4 notes	Posted Apr 12, 2022
module 3 notes	Posted Apr 12, 2022
Module 2 Data Link Layer Notes	Posted Feb 22, 2022
Module 1_ Introduction	Edited Apr 12, 2022



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<https://classroom.google.com/w/NDUxNzk4Mjk4MDEz/t/all>

Mahatma Education Society's
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PPT



Module 3 -ppt

Posted Apr 12, 2022

Module 2 PPT

Edited Feb 22, 2022

Module 1

Posted Jan 15, 2022

Syllabus



Lab Syllabus

Posted Jan 15, 2022

Theory Syllabus

Posted Jan 15, 2022

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<https://classroom.google.com/w/NDUXNzk4Mjk4MDEz/t/all>

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Create

Module 4 Notes	Edited Oct 23, 2021	⋮
Internal Assessment II	Posted Oct 23, 2021	
Module 6 notes	Posted Oct 22, 2021	
Module 5 Notes	Posted Oct 22, 2021	
Experiment No 7 Submission	Posted Oct 21, 2021	
Experiment Number 2 submission	Edited Oct 21, 2021	
Experiment No 6 Submission	Posted Oct 20, 2021	
Experiment No 6 reference document	Posted Oct 20, 2021	
Experiment No 5 Submission	Posted Oct 20, 2021	
Experiment No 5 reference document	Posted Oct 20, 2021	
Question Bank for All 6 Modules	Posted Oct 20, 2021	
Assignment No 2	Posted Oct 17, 2021	
Experiment No 4 submission	Posted Sep 21, 2021	
Experiment No 4 Reference document	Posted Sep 19, 2021	?



- Experiment No 3 Submission Posted Aug 16, 2021
- Experiment No 3 - Reference Docum... Posted Aug 16, 2021
- Assignment No 1 Due Aug 18, 2021
- Module 3 Questions Edited Sep 1, 2021
- PPT Module 3 Posted Aug 7, 2021
- Course Academic Plan CNS Posted Aug 7, 2021
- Experiment No 1 Due Jul 30, 2021
- Module 1 questions Posted Jul 21, 2021
- Lab Outcomes and Course Outcomes Posted Jul 21, 2021
- Teaching Plan Posted Jul 21, 2021
- Module 1 Notes Posted Jul 21, 2021
- Module 1 PPT Posted Jul 21, 2021
- Syllabus for Theory and Lab Posted Jul 12, 2021



To-do To review Calendar

BEIT PROJECT I and II	IT Department Classr...	BEIT Training & Place...	BEIT Artificial Intellige...
SE IT (2020-21) Prachi Rajendra Sarda	BEIT PROJECT MANA... SEM VIII	TEIT DMBI Sem VI	BEIT MIS A

Activate Windows
Go to Settings to activate Windows.

- + Create Meet Google Calendar Class Drive folder
- Assignment No 1 Posted Sep 1, 2021
 - Experiment No 9 Posted Sep 1, 2021
 - Experiment No 8 Posted Sep 1, 2021
 - Experiment No 7 Posted Sep 1, 2021
 - Experiment No 6 Posted Sep 1, 2021
 - Experiment No 5 Posted Sep 1, 2021
 - Experiment No 4 Posted Sep 1, 2021
 - Experiment No 3 Posted Sep 1, 2021
 - Internal Assessment-I AI Due Aug 26, 2021 3:30 PM
 - Experiment No 2 Due Aug 21, 2021

Activate Windows
Go to Settings to activate Windows.

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Mini Project Major Project Notices and Evaluation Sheet:



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Mahatma Education Society's
Pillai HOC College of
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Pillai's HOC Educational Campus
Rassyanil, Tal. Khelapur
Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Electronics & Telecommunication Engineering

Date: 02.07.2022

Notice

Students of **B.E. (EXTC)** semester **VII** are hereby informed to follow the schedule and the guidelines for Stage-I project work as mentioned below.

Schedule

Sr. No.	Particulars	Date
1	Last date of submission of project ideas (Min.Three Proposals)	15.07.2022
2	Project idea presentations (Based on Three Topics submitted)	22.07.2022
3	Project guide allocation	25.07.2022
4	Final Topic Synopsis Submission as per format provided by the department	31.07.2022

Guidelines

1. Maximum **THREE*** Students per project is allowed (*Reviewed as per Complexity of Project)
2. Submit **THREE** project ideas from **THREE** different domains. (Mention Domain names on Submission Document)
3. Project idea submission must contain:
 1. Group Details
 2. Project domain
 3. Problem Statement
 4. Objectives
 5. Introduction
 6. Design Methodology
 7. Hardware and Software Details
 8. References
4. Once group is formed, no further changes will be allowed.
5. Submit **hardcopy** of all three proposals by **15th July 2022** to project coordinator.

Mr. Jayesh Rane

Project Coordinator

Dr. Mansi Subhedar

Head of Department

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Mahatma Education Society's
Pillai HOC College of
Engineering and Technology.

Pillai's HOC Educational Campus
Rasayani, Tal. Khelapur
Dist. Raigad, Pin-410 207

**Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Electronics & Telecommunication Engineering**

Date: 24/04/2023

Notice

Students of B.E. (EXTC) semester VIII (ESAY 2022-23) are hereby informed that **Project Stage: II Final Presentation and Hardware demonstration** is scheduled on **Wednesday, 26th April 2023.**

Schedule

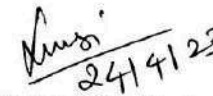
Group ID	Date and Time	Venue
ET-01	Wednesday, 26th April 2023 at 10:30 AM	Project Lab (First Floor)
ET-02		
ET-03		

Guidelines

1. Oral presentation will be of 10 mins.
2. **Project Hardware Demonstration is compulsory**
3. **Final Thesis must be submitted after presentation.**
4. Strictly follow the time slots allotted to each project group.
5. After Successful submission of project to department, External Examination will be scheduled.


Mr. Jayesh Rane

B.E. Project Coordinator


24/4/23
Dr. Mansi Subhedar

Head of Department



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Rasayani, Tal. Khelapur
Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Electronics & Telecommunication Engineering

Date: 15.03.2021

Notice

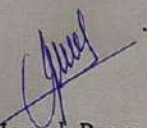
Students of B.E. (EXTC) semester VIII (ESAY 2021-22) are hereby informed that **Project Stage: II Final Presentation and Hardware demonstration** is scheduled on **Friday, 25th March 2022.**

Schedule

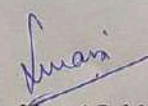
Group ID	Date and Time	Venue
ET-01	Friday, 25 th March 2022 at 10:30 AM	Project Lab (First Floor)
ET-02		
ET-03		
ET-04		
ET-05		
ET-06		
ET-07		
ET-08		
ET-09		
ET-10		
ET-11		
ET-12		
ET-13		
ET-14		

Guidelines

1. Oral presentation will be of 10 mins.
2. **Project Hardware Demonstration is compulsory**
3. **Final Thesis must be submitted after presentation.**
4. Strictly follow the time slots allotted to each project group.


Mr. Jayesh Rane

B.E. Project Coordinator


Dr. Mansi Subhedar

Head of Department


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**Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Electronics & Computer Science**

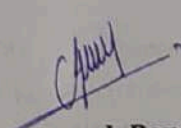
Date: 25.01.2023

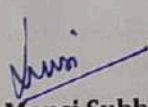
Notice

Students of B.E. (EXTC) semester VIII (ESAY 2022-23) are hereby informed that the **Hardware demonstration** of project Stage: II is scheduled on **Friday, 10th February 2023** from 10:30 am onwards.

It is mandatory for each project group to complete hardware implementation till first week of February and demonstrate complete working on scheduled date.

No project group will be entertained after deadline.


Mr. Jayesh Rane
B.E. Project Coordinator


Dr. Mansi Subhedar
HOD



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PTM Notices:



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Mahatma Education Society's
Pillai HOC College of Engineering and Technology
Department of Electronics and Computer Science


Feb 27, 2023

NOTICE

All students are hereby informed that Parent Teacher Meeting for ESAY 2022-23 is scheduled on Saturday, 4th March 2023 from 10.00 AM to 1.00 PM. All students and parents are requested to attend the same in the department.


Mr. Mithun Nair

Class Coordinator
(SE ECS)


Dr. Neha Shivhare

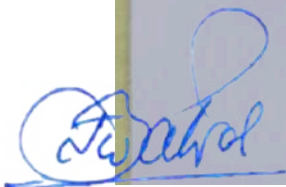
Class Coordinator
(TE EXTC)


Ms. Pooja Kulkarni

Class Coordinator
(BE EXTC)


Dr. Mansi Subhedar

Head of the Department



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Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering and Technology
Department of Civil Engineering

Circular

Date: 18th July 2018

This is to inform all faculty members that there will be a faculty meeting at 01:00 pm on 18th July 2018 at HOD cabin. It is mandatory for all staff members to attend the meeting.

Agenda:

- Discussion on course gap in the syllabus
- Planning to fill the course gap

devis

H.O.D

[Signature]

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Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering and Technology
Department of Civil Engineering

MoM


18th July 2018

Subject: Identification of course gap and action taken to fulfil

Minutes of the meeting of the head and faculty members of the department of civil engineering held on 18th July 2018 at 01:00 pm to discuss the following academic matter of the department.

Points Discussed during the meeting:

- Discussion regarding the curriculum gaps found by the subject teacher in course Geotechnical Engineering – I.
- Action taken to fulfil the gaps.
- Mr. Sunitkumar Banerjee will be conducting special lecture for the topic "Geotechnical site investigation" on 28-07-2018
- Display the notice by tomorrow on notice board about the lecture


Signature
H.O.D

Members Present (Name and Sign)

1. Dr. Tejaswini D.N.
2. Ms. Manisha Jamgade
3. Mr. Raju Narwade
4. Mr. Karthik Nagarajan
5. Ms. Sonali Baviskar
6. Ms. Madulika Sinha
7. Mr. Anwar Sayyed
8. Ms. Smitha J S
9. Mr. Shashi Bhushan
10. Ms. Gayatri Deshpande
11. Mr. Atul Dongre

17. Dr. Anand Kumar

18. Manish Kumar

19. Apurva D. Agr

12. Ashwini P
13. Harshel

14. Manish S.

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Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering and Technology
Department of Applied Sciences & Humanities
ESAY 2018-19

Circular

Mon, 25 Feb 2019

All the Students are hereby informed that the Parent Teachers Meeting (PTM) will be held on Sat, 2 March 2019 at 10.00 am in 9th floor Auditorium, Main building.

Students are requested to inform their parents to attend the meeting.

The Agenda for the meeting is given below –

- 1) Brief about the PTM meeting
- 2) Regular Attendance
- 3) Action to be taken for defaulter students.
- 4) Syllabus covered & planning for remaining.
- 5) Time management for self study
- 6) Emphasis on 4-5 hours continuous study
- 7) Focus on zero ATKT and its advantage
- 8) Online form of different type
- 9) Under Teacher Guardian scheme, Interaction of every students Parents with Teachers.
- 10) Unit test marks and regular Attendance
- 11) Study workshop/Problem Solving Session
- 12) Continuous Evaluation
- 13) Oral Practical marks/Term Work Marks
- 14) Unit test II and Prelim before PL
- 15) Home Time Table for the wards
- 16) Special treatment for weaker students
- 17) Anyhow improvement in Result
- 18) All students should move to IInd year
- 19) Rules for promotion from FE to SE
- 20) Information about Internal Test 2, Oral Exam, Prelim test and University Exam.
- 21) Information regarding EBC Scholarship & Mumbai Univ Exam form.

HOD

Dr. Manvendra Vashistha

Copy to

1. The Principal
2. All FE Students

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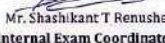
Mahatma Education Society's
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Pillai's HOC Educational Campus
Rassyan, Tal. Khelapur
Dist. Raigad, Pin-410 207

Internal Assessment Notices and Time Table:

Mahatma Education Society's
Pillai HOC College of Engineering and Technology, Rasayani
Internal Assessment -II - Time Table (ESAY 22-23)

Date	Time	CLASS	AUTO	MECH	IT	CIVIL	CLASS	COMP	ECS	ELEC	
27-Mar-23	10:30-11:30A.M	SE		EM-IV	EM-IV	EM-IV					
		TE		MD	EHP	GE-II					
		BE	HEV	OPC	B and DLT	CM					
	12:00-1:00 P.M							SE	EM-IV	EM-IV	EM-IV
								TE	SPCC	CCN	SS
								BE	SMA	SNSC	ESDMA
	1:30-2:30 P.M	SE		FM	CNND	SA					
		TE		TM	WT	DDSS					
		BE	AM	CM	BDA	IWT/CS					
	3:00-4:00 P.M							SE	AOA	EC	DE
								TE	MC	RE	HVE/ES
								BE	DF	OCN	PQ&FACTS
28-Mar-23	10:30-11:30A.M	SE		IE	OS	SUR					
		TE		HVAC	AI & DS-1	EE					
		BE	TQM/PDD	PDD/TQA	UID/CCS	TS/RRRS					
	12:00-1:00 P.M							SE	OS	DSAT	EACM-1
								TE	CSS	EA	CSD
								BE	DC	WN	EVSD/PSPR
	1:30-2:30 P.M	SE		CAD/CAM	AT	BMCT					
		TE		AAI	WebX	WRE					
		BE	EM	EM/PM	PM/DBM	EM/PM					
	3:00-4:00 P.M							SE	DBMS	MPMC	PEDC
								TE	AI	ANNFL	MCA
								BE	PM/DBM	EM	PM/RM
29-Mar-23	10:30-11:30A.M	SE		KOM	COA	FM-II					
		TE		MFT	DMBI	CET					
	12:00-1:00 P.M						SE	MP	CI	EHEV	
						TE	IOT	IPMY	PSPS		


 Ms. Sangeetha Rajagopal

 Mr. Shashikant T Renushe
 Internal Exam Coordinator


 Dr. Jagdish W. Bakal
 Principal
 PHCET

Prelim Notice Time Table



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Mahatma Education Society's
Pillai HOC College of Engineering and Technology, Rasayani
Preliminary Exam-Time Table (ESAY 22-23)

Date	Time	CLASS	AUTO	MECH	IT	CIVIL	CLASS	COMP	ECS	ELEC	
3-Apr-23	10:30 A.M - 1:30P.M	SE		EM-IV	EM-IV	EM-IV					
		TE		MD	EHF	GE-II					
		BE	HEV	OPC	B and DLT	CM					
3-Apr-23	1:45 P.M - 4:45 P.M						SE	EM-IV	EM-IV	EM-IV	
							TE	SPCC	CCN	SS	
							BE	SMA	SNSC	ESDMA	
5-Apr-23	10:30 A.M - 1:30P.M	SE		FM	CNND	SA					
		TE		TM	WT	DDSS					
		BE	AM	CM	BDA	IWT/CS					
5-Apr-23	1:45 P.M - 4:45 P.M						SE	AOA	EC	DE	
							TE	MC	RE	HVE/ES	
							BE	DF	OCN	PQ&FACTS	
6-Apr-23	10:30 A.M - 1:30P.M	SE		IE	OS	SUR					
		TE		HVAC	AI & DS-1	EE					
		BE	TQM/PDD	PDD/TQA	UID/CCS	TS/RRRS					
6-Apr-23	1:45 P.M - 4:45 P.M						SE	OS	DSAT	EACM-1	
							TE	CSS	EA	CSD	
							BE	DC	WN	EVSD/PSPR	
7-Apr-23	10:30 A.M - 1:30P.M	SE		CAD/CAM	AT	BMCT					
		TE		AAI	WebX	WRE					
		BE	EM	EM/PM	PM/DBM	EM/PM					
7-Apr-23	1:45 P.M - 4:45 P.M						SE	DBMS	MPMC	PEDC	
							TE	AI	ANNFL	MCA	
							BE	PM/DBM	EM	PM/RM	
8-Apr-23	10:30 A.M - 1:30P.M	SE		KOM	COA	FM-II					
		TE		MFT	DMBI	CET					
							SE	MP	CI	EHEV	
8-Apr-23	1:45 P.M - 4:45 P.M						TE	IOT	IPMV	PSPS	

Ms. Sangetha Bajagopal
Mr. Shashikant T Renushe
Internal Exam Coordinator

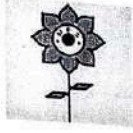
Dr. Jagdish W. Bakal
Principal
PHCET

Study Workshops:



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Mahatma Education Society's
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Pillai's HOC Educational Campus
Rasayani, Tal. Khelapur
Dist. Raigad, Pin-410 207



Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Information Technology

Date: 10/10/19

Notice

All the students of SE, TE and BE are informed that the Study Workshop have arranged from 14th Oct 2019 to 16th Oct 2019. These lectures will be engaged by the respective subject teachers. The detailed time table of study workshop shall be displayed on the department notice board. All students are advised to be present.

Head Of Department

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Mahatma Education Society's
Pillai HOC College of
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Pillai's HOC Educational Campus
Rasayani, Tal. Kheleapur
Dist. Raigad, Pin-410 207

Mahatma Education Society's
Pillai HOC College of Engineering & Technology
 Department of Information Technology
 Study Workshop Timetable

Class/Sem	Name of Subject	Name of Faculty	Date	Time	Class
TE-V	IP	Ms. Prachi Sorte	23-08-2022	10:15 to 11:45 am	A-502
	Module Test			11:45 to 12:45 pm	A-502
	SE	Ms. Kajal Patel	23-08-2022	2:00 to 3:30 pm	A-502
	Module Test			3:30 to 4:30 pm	A-502
	CNS	Ms. Rupali Sathe	24-08-2022	10:15 to 11:45 am	A-502
	Module Test			11:45 to 12:45 pm	A-502
	EEB	Ms. Poonam Pathak	24-08-2022	2:00 to 3:30 pm	A-502
	Module Test			3:30 to 4:30 pm	A-502
	ADMT	Mr. Siddhesh Khanvilkar	25-08-2022	10:15 to 11:45 am	A-502
	Module Test			11:45 to 12:45 pm	A-502
BE-VII	IS	Ms. Rupali Sathe	23-08-2022	10:15 to 11:45 am	B-505
	Module Test			11:45 to 12:45 pm	B-505
	STQA	Ms. Poonam Lad	23-08-2022	10:15 to 11:45 am	B-505
	Module Test			11:45 to 12:45 pm	B-505
	IOE	Dr. Divya Chirayil	23-08-2022	2:00 to 3:30 pm	B-505
	Module Test			3:30 to 4:30 pm	B-505
	IRS	Ms. Monisha Mohan	24-08-2022	10:15 to 11:45 am	B-505
	Module Test			11:45 to 12:45 pm	B-505
	CSL	Ms. Prachi Sorte	24-08-2022	2:00 to 3:30 pm	B-505
	Module Test			3:30 to 4:30 pm	B-505
	MIS	Mr. Siddhesh Khanvilkar	24-08-2022	2:00 to 3:30 pm	B-505
	Module Test			3:30 to 4:30 pm	B-505
	AI & DS-II	Ms. Poonam Pathak	25-08-2022	10:15 to 11:45 am	B-505
	Module Test			11:45 to 12:45 pm	B-505

[Signature]
DEC

[Signature]
HOD

[Signature]

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 Dist. Raigad, Pin-410 207



Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Information Technology

Date: 20/3/23

Notice

All the students of SE, TE and BE are informed that the Study Workshop has been arranged from 22nd Mar 2023 to 24th Mar 2023. These lectures will be engaged by the respective subject teachers. The detailed time table of the study workshop shall be displayed on the department notice board. All students are advised to be present.

Head of Department

PRINCIPAL

Mahatma Education Society's
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Dist. Raigad, Pin-410 207

Mahatma Education Society's

Pillai HOC College of Engineering & Technology, Rasayani

Department of Information Technology

Workshop Attendance Record

Sem: III

OSAY: 2019-20

Sub: AM-II

Date: [4/10/19]

Roll. No.	Name of Student	Signature
1	AGHARKAR SOHAM JAYANT	Soham
2	AMBAVANE AKANKSHA ANIL SHUBHANGI	Akanksha
3	ANBHULE SHUBHAM ASHOK	shubham
4	BHARTI ABHISHEK KUMAR ASHOK KUMAR	Bharti
5	BHOIR AJAY AVINASH	Ajay
6	BHOIR MOKSHAD KISHOR	BHOIR
7	BHOIR VINAM MOHAN	Vinam
8	BHOSLE SAUMITRA ANANT	Bsunita
9	SAHIL SUJAY BHURKE	Sajay
10	BOSE SHIBANI SHYAMAL	Durga
11	CHAKRABORTY MONICA MONINDRA SEEMA	Monica..
12	CHILKA SHRAVAN PRAKASH	Chilka
13	DAL DIVYA NARAYAN	Divya
14	DALVI TASNEEM ASLAM	Dalvi
15	DEVANI VIRAL ARVIND	(Viral)
16	DHUMAL VAISHNAVI ASHOK	Vaishnavi..
17	GAWHALE MEHUL NARESH	Mehul
18	GHARAT PRACHIT BIPIN	Gharat
19	GOLE HRITIK MAHENDRA	Gole
20	GONDHALI RUTUJA SUNIL	R.S.Gondhali
21	GUPTA SHRINATH CHHEDILAL	Shrinath
22	HEGDE SAGAR SATISH	hegde S
23	INGLE SHRUTI DEEPAK	Shruti
24	INGLE VALLABH VIJAY	Vijay
25	JADHAV ADITYA BALKRUSHNA	Aditya..
26	JADHAV NANDINI JAIRAJ	Jadhav
27	SARIKA JADWAL	Sarika

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28	KANADE SOURABH DATTATRAY	S.D.K.
29	KHALADKAR ANIKET VIJAY	Aniket
30	KOLI HARSHAL BHANUDAS	Koli
31	LAMTURE SAHIL JAHANGIR	Bahita
32	MAHABALE SNEHAL DATTARAM	SnehalMP
33	MAHATO SIDDHANT SUNIL	Manato
34	MHATRE KRUTIKA MAHENDRA	Mhatre
35	MHATRE SHRUTI DHANANJAY	Shruti
36	MHATRE SNEHA NITIN	Mhatre
37	MHATRE VAIBHAVI AMRUT	V.A.Mhatre
38	PADYAL AMRUTA BABAN	A.B Padyal
39	PANCHAL SHUBHAM PRADEEP	Panch
40	PANDEY ROHIT HARENDRA	Rohit
41	PANDEY VIKRANT RAMPOOJAN	Vikrant
42	PARMAR JIGAR KANHAIYALAL	Pigae
43	PASHTE SHREYA SANTOSH	Shreya
44	PATIL CHINMAYEE CHETAN	C.C. Patil
45	PATIL PRAJAKTA SHAMKANT	Patil
46	PAWAR VISHAL VENKAT	Vishal
47	PINGALE SWARANGI SUSHIL	Pingale
48	POKALE MOHINI MAHADEV	Mohini
49	RAI BABUL KUMAR VIJENDRA	Kumar
50	RAUT SNEHIL SURESH	Sraut
51	SALUNKE RITESH PRAKASH	Ritesh
52	SAWANT KALPESH PRAMOD	Kalpesh
53	SHAIKH HEEBA ZAKIR	Shaikhheeba
54	SHETTIGAR MANAS GOPAL	Manas
55	SHINDE KALYANI DATTATREY	Shalayani
56	SHIVATHARE MEGHAL DAYANAND	Mshivathare
57	SOLUNKE VISHAL ARJUN	Solunke
58	TAMHANE SHRADDHA VILAS	Shiraddha
59	TANDEL NEHA MINESH	Tandel
60	TAREKAR RUTIK DATTATRAY	Rutik
61	TATHE SHUBHANGI GORKHANATH	Shubhangi
62	THAKUR NIRAJ CHANDRAKANT	Niraj f.c.

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63	THAKUR SAYALEE CHANDRAKANT	Thakur
64	THAKUR SONALI VISHWANATH	Sr. Thakur
65	THAKUR TANAYA MANOHAR	Tanaya
66	TRIPATHI ABHISHEK AMRENDRA	Abhi
67	WARGE SARVESH MANOJ	warge
68	YADAV SAKSHI BALIRAM	Sakshi
69	YADAV SHUBHAM RAMANUJ	Yadav



Content Beyond Syllabus Activity:

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**Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani
Department of Information Technology**

Table: Course Gaps: AY 2022-23

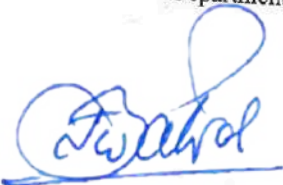
Sr. No.	Subject Code	Subject Name	Course Gaps Identified	Type of Course Gap	Academic Year	Relevance to POs & PSO
1.	ITDLO7032	MAD	Android introduction part should be there as a prerequisite	Course Gap	2022-23	PO:3, 5, 12 PSO: 1, 3
2.	ITC602	WebX.0	Advanced knowledge of web development should be their	Course Gap	2022-23	PO:3, 4, 5, 12 PSO: 1, 2, 3



Department Academic Coordinator



Head of Department



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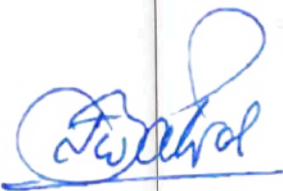
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**Mahatma Education Society's
Pillai HOC College of Engineering & Technology, Rasayani**

Department of Information Technology

Table: Course Gaps Action Taken: AY 2022-23

Sr. No	Gap	Name of Subject	Action Taken	Date	Resource person	No. of students	Relevance to POs & PSO
1	The Android introduction part should be there as a prerequisite	ITDLO7032: MAD	2 Day's Hands-On Workshop on "Android Application"	5/8/2022 to 6/8/2022	Mr. Ketan Khapare, Project Manager, Sanket Mobile and Robotics Technologies, Thane, Ms A.Dhule, Software Engineer, Sanket Mobile and Robotics Technologies, Thane	80	PO:3, 5, 12 PSO: 1, 3
2	Advanced knowledge of web development should be their	ITC602: WebX.0	1 day Hands-On Workshop on "Django"	22/9/2022	Mr.Harshad Dagade	40	PO:3, 4, 5, 12 PSO: 1, 2, 3
3	Advanced knowledge of web development should be their	ITC602: WebX.0	1 day Hands-On Workshop on "FullStack Development"	18/8/2023	Mr.Shubham Anbhule, Software Engineer(Full Stack Developer) Mr.Santosh pillai, Software Engineer(Developer)	30	PO:3, 4, 5, 12 PSO: 1, 2, 3



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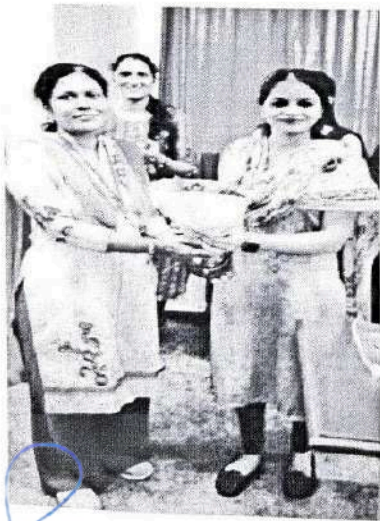


DEPARTMENT OF INFORMATION TECHNOLOGY

Hands on Workshop on “Android Application Development”

To train tech-minded students, the Department of Information Technology has successfully conducted 2 days Hands on Workshop on “Android Application Development”. The event was conducted on 5th and 6th August, 2022 in the Computer Centre at lab 313 between 10:00 a.m. to 4:30 p.m. On this momentous occasion it was our proud privilege that we were blessed with Ketan Anil Khapare, (B.E. (ExTC) – Project Manager, S.M.A.R.T. Technologies) and Akshayee Bharat Dhule (M.E. (ExTC) – Software Engineer, S.M.A.R.T. Technologies) as a speaker.

The event began with the formal introduction of guest speakers. To express our affection and reverence towards our guests IT Department HOD Dr. Divya Chirayil and ISTE coordinator Prof. Rupali Sathe felicitated all the guests with bouquets.



Rupali Sathe

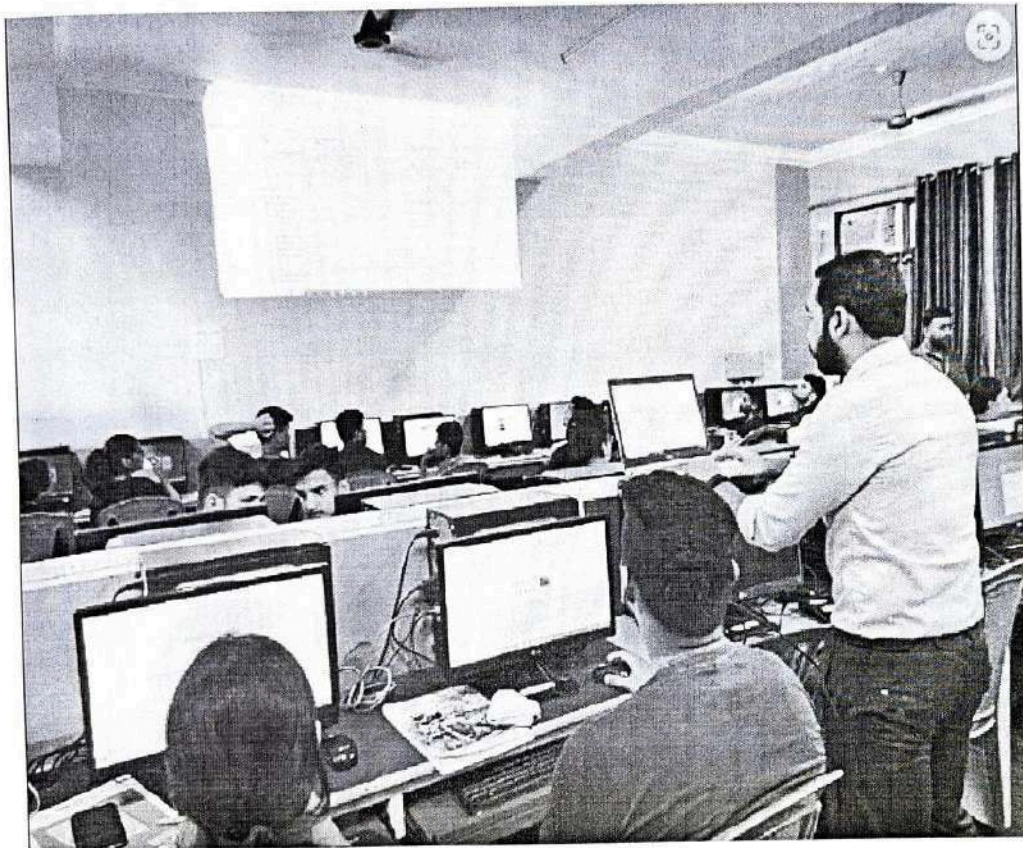
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On the first day of the workshop they started with installation of android and some basic operations of android.

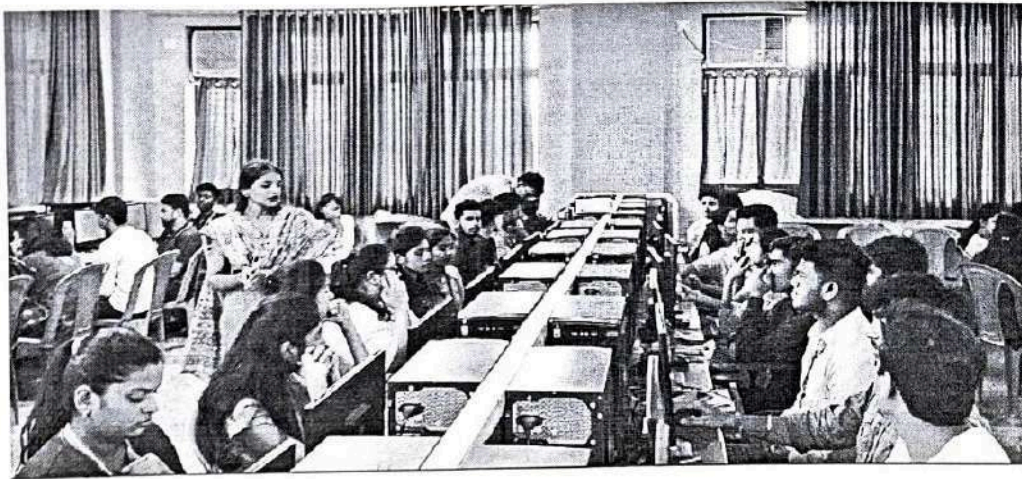
On the second day they started with some advanced operations such as Calculator app, Intent app, Number list, Menu bar, etc.



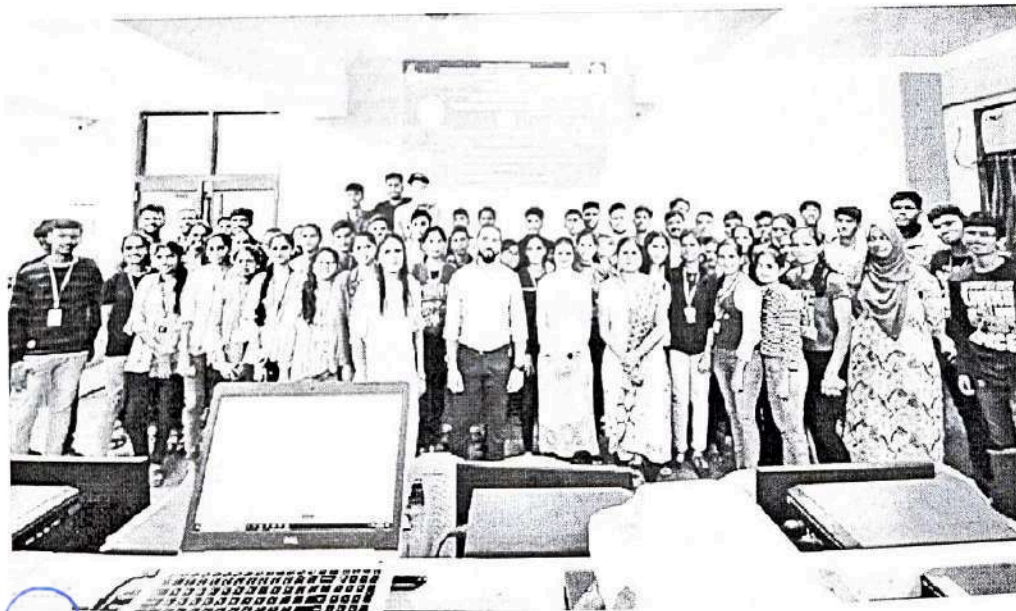
Students enthusiastically asked all their doubts which were running in their minds and all this doubts were cleared at the same time by the professionals.

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The event was led and executed successfully under the guidance of ISTE Co-ordinator Prof. Siddhesh Khanvilkar and Prof. Rupali Sathe. About 110 students of various departments willingly participated in this event to make this event successful. All the participants were awarded with workshop completion certificates. 2 days of Hands on workshop was mind blowing and once in lifetime experience for all the participants.



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DEPARTMENT OF INFORMATION TECHNOLOGY

Hands on Workshop on “Django”

To train tech-minded students, the Department of Information Technology has successfully conducted Hands On Workshop on Django. The event was conducted on 22/09/2022 in the lab D-312 between 10:00 AM to 4:30 PM. On this momentous occasion it was our proud privilege that we were blessed with Mr. Harshad Dagade as a speaker.

The event began with the formal introduction of guest speakers. To express our affection and reverence towards our guests Principal of PHCET Dr. J.W. Bakal and IT Department HOD Dr. Divya Chirayil felicitate the guest.



J.W. Bakal

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After that Principal of PHCET Dr. Bakal sir addresses all the participated students and motivates them to study a lot and brighten their future.

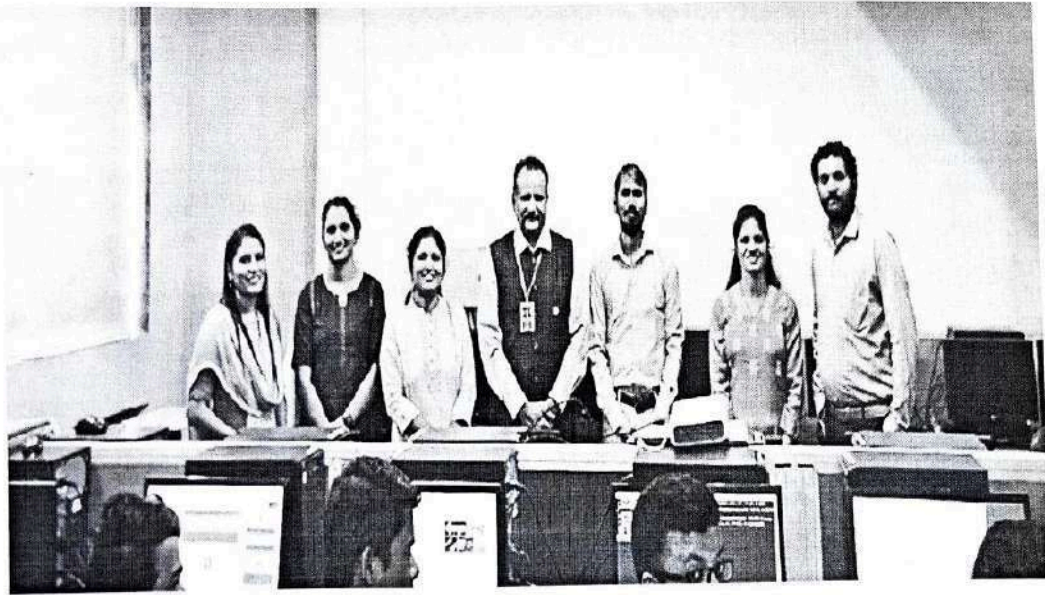


Workshop started with some basic operations of Python and installation of Django module.

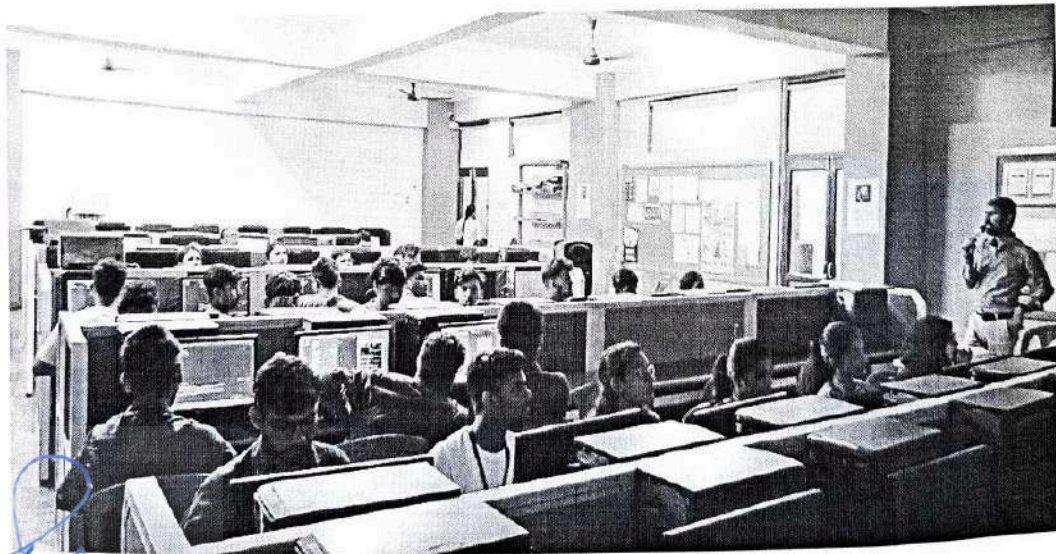
After all the required prerequisites and necessary basic operations related to Python they started with all advanced operations of Django.

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Students enthusiastically asked all their doubts which were running in their minds while performing the Hands On Practice and all this doubts were cleared at the same time by the professionals.



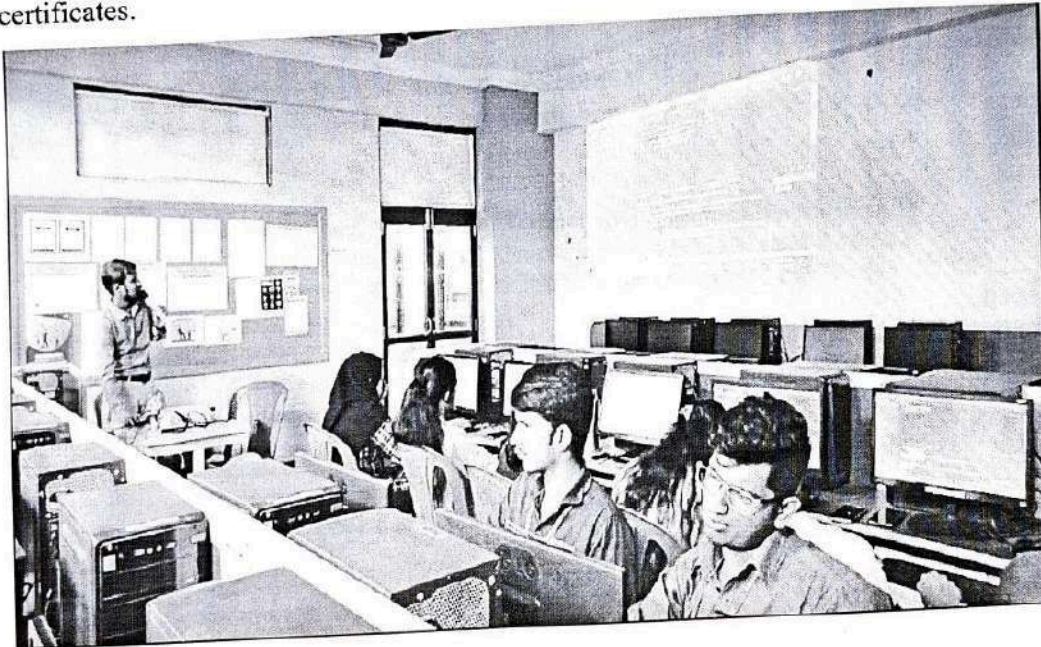
T. J. J. J.

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The event was led and executed successfully under the guidance of event Co-ordinator Prof. Rupali Sathe and Prof. Poonam Lad. About 40 students of Information Technology departments willingly participated in this event to make this event successful. All the participants were awarded with workshop completion certificates.



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