



Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus

S. No. 12/2/2 and 14/9, Narhe, Tal : Havelli, Dist.: Pune – 411041
Phone : +91 20 2460 8700, 701, 702 Email : director@jspmntc.edu.in Web : www.jspmntc.edu.in
Affiliated to Savitribai Phule Pune University. Approved by AICTE New Delhi and DTE Maharashtra.
DTE Code : 6755 PUN Code : CEGP019070 AISHE Code : C-45874



Prof.(Dr.)T. J.Sawant
D.E.E., B.E.(Electrical),Ph.D., MISTE
Founder - Secretary

Prof.(Dr.)M.M.Sardeshmukh
B.Tech (E&TC) M.Tech (E&TC),Ph.D.(Engg.)
DIRECTOR

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment and displayed on website.

Sr. No.	Particulars	Digital Page No.
1.	University Calender.	1
2.	Institute Academic calendar.	2
3.	Institute Academic Planner	3
4.	Department Academic Planner	4
5.	Teaching-Learning Plan	5
6.	DAC Audit report	11

Savitribai Phule Pune University



Circular No. 92 of 2023

Dates of Commencement and Conclusion of the Academic Year 2023-24 for Affiliated Colleges and Institutes.

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of Courses, under the faculty of **Science & Technology**, for the academic year 2023-24 shall be as under:

Term – I

Sr. No.	Course, Programme, Year	Commencement	Conclusion	Tentative Commencement Exam	Vacation	
					From	To
1	Science	20/06/2023	31/10/2023	01/11/2023	01/11/2023	21/11/2023
2	B.E.: II	10/08/2023	04/12/2023	06/12/2023	07/12/2023	25/12/2023
3	B.E.: III IV	10/07/2023	04/11/2023	07/11/2023	11/11/2023	02/12/2023
4	M.E.: II	10/08/2023	04/12/2023	06/12/2023	07/12/2023	25/12/2023
5	B.Arch.: II	14/08/2023	04/12/2023	05/12/2023	05/12/2023	18/12/2023
6	B.Arch.: III IV V	12/07/2023	04/11/2023	28/11/2023	20/11/2023	10/12/2023
7	M.Arch.:II	04/09/2023	06/01/2024	08/01/2024	08/01/2024	22/01/2024
8	B. Pharm: II	04/09/2023	30/12/2023	05/01/2024	17/01/2024	06/02/2024
9	B.Pharm:III,IV	12/07/2023	04/11/2023	28/11/2023	20/11/2023	10/12/2023
10	M. Pharm: II	04/09/2023	30/12/2023	05/01/2024	17/01/2024	06/02/2024

Term – II

Sr. No.	Course, Programme, Year	Commencement	Conclusion	Tentative Commencement Exam	Vacation	
					From	To
1	Science	22/11/2023	30/04/2024	01/05/2024	02/05/2024	15/06/2024
2	B.E.: II	01/01/2024	30/04/2024	06/05/2024	04/05/2024	11/06/2024
3	B.E.: III IV	11/12/2023	30/04/2024	06/05/2024	04/05/2024	11/06/2024
4	M.E.: II	01/01/2024	30/04/2024	06/05/2024	04/05/2024	11/06/2024
5	B.Arch.: II	26/12/2023	27/04/2024	29/04/2024	06/05/2024	16/06/2024
6	B.Arch.: III IV V	26/12/2023	04/05/2024	13/05/2024	16/05/2024	23/06/2024
7	M.Arch.:II	23/01/2024	20/05/2024	23/05/2024	24/05/2024	30/06/2024
8	B. Pharm: II	15/01/2024	30/05/2024	05/06/2024	01/06/2024	15/07/2024
9	B.Pharm:III,IV	26/12/2023	04/05/2024	13/05/2024	16/05/2024	23/06/2024
10	M. Pharm: II	07/02/2024	05/06/2024	10/06/2024	06/06/2024	15/07/2024

NOTE :


1. The dates of commencement and conclusion of the all those courses whose admission is made under Common Entrance Test (CET) conducted by Government of Maharashtra / Savitribai Phule Pune University will be declared separately.
2. In case, the Head of the college requires to give additional holidays in exceptional circumstances, he/she may do so by compensating the same by keeping the college working on holidays.

Ref. No. PGS/2453
Date: 30/05/2023


Deputy Registrar
(P.G.Admission)

**JSPM NARHE TECHNICAL CAMPUS, NARHE, PUNE-41
INSTITUTE ACADEMIC CALENDAR 2023-2024 (Sem-I)**

	Day Date	SA	SU	M	TU	W	TH	FR	SA	SU	M	TU	W	TH	FR	SA	SU	M	TU	W	TH	FR	SA	SU	M								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
July	Day Date	SA 1	SU 2	M 3	TU 4	W 5	TH 6	FR 7	SA 8	SU 9	M 10	TU 11	W 12	TH 13	FR 14	SA 15	SU 16	M 17	TU 18	W 19	TH 20	FR 21	SA 22	SU 23	M 24	TU 25	Wed 26	TH 27	FR 28	SA 29	SU 30	M 31	
	Activities										Commencement (TE & BE)												Academic Audit - I							Muharram		Cumulative Attendance	Working Days = 17
August	Day Date	TU 1	W 2	TH 3	FR 4	SA 5	SU 6	M 7	TU 8	W 9	TH 10	FR 11	SA 12	SU 13	M 14	TU 15	Wed 16	TH 17	FR 18	SA 19	SU 20	M 21	TU 22	W 23	TH 24	FR 25	SA 26	SU 27	M 28	TU 29	W 30	TH 31	
	Activities										Commencement (SE)	Project Review - I				Independence Day		Unit Test - I								BE- Synopsis Submission						Cumulative Attendance	Working Days = 24
September	Day Date	FR 1	SA 2	SU 3	M 4	TU 5	W 6	TH 7	FR 8	SA 9	SU 10	M 11	TU 12	Wed 13	TH 14	FR 15	SA 16	SU 17	M 18	TU 19	W 20	TH 21	FR 22	SA 23	SU 24	M 25	TU 26	Wed 27	TH 28	FR 29	SA 30		
	Activities					Teacher's Day					Project Review - II	Parent Meeting																			Cumulative Attendance	Working Days = 23	
October	Day Date	SU 1	M 2	TU 3	W 4	TH 5	FR 6	SA 7	SU 8	M 9	TU 10	W 11	TH 12	FR 13	SA 14	SU 15	M 16	TU 17	W 18	TH 19	FR 20	SA 21	SU 22	M 23	TU 24	W 25	TH 26	FR 27	SA 28	SU 29	M 30	TU 31	
	Activities		Mahatma Gandhi Jayanti																							Dussehra							Mock OR/PR/TW Exam & Submission
November	Day Date	W 1	TH 2	FR 3	SA 4	SU 5	M 6	TU 7	W 8	TH 9	FR 10	SA 11	SU 12	M 13	TU 14	W 15	TH 16	FR 17	SA 18	SU 19	M 20	TU 21	W 22	TH 23	FR 24	SA 25	SU 26	M 27	TU 28	W 29	TH 30		
	Activities	Mock OR/PR/TW Exam & Submission			Conclusion of Teaching (TE & BE)									Diwali Holidays																			
December	Day Date	FR 1	SA 2	SU 3	M 4	TU 5	W 6	TH 7	FR 8	SA 9	SU 10	M 11	TU 12	W 13	TH 14	FR 15	SA 16	SU 17	M 18	TU 19	W 20	TH 21	FR 22	SA 23	SU 24	M 25	TU 26	W 27	TH 28	FR 29	SA 30	SU 31	
	Activities				Conclusion of Teaching (SE)							Commencement of Semester II (TE & BE)															Christmas Day						Total Working Days = 08


Dr. Sajid Shaikh
Dean Academics


Dr. S.A. Choudhari
Director

Institute Academic Planner 2023-2024 (Sem-I)

Sr. No.	Activity	Planned Dates
1	Commencement of Semester (TE, BE)	10/07/2023
2	Commencement of Semester (SE)	10/08/2023
3	Academic Audit-1	22/07/2023
4	BE Project Review-I	11/08/2023
5	Unit Test-I	16,17,18/08/2023
6	In SEM Examination for TE, BE	As per SPPU circular Dates
7	BE Project Synopsis Submission	25/08/2023
8	Student Council Selection Meeting	After SPPU Result
9	BE Project Review By Industrial Expert Review -2	09/09/2023
10	DSE Induction Institute/Department level	As per DTE circular Dates
11	Parent Meeting	11/09/2023
12	Final Cumulative Attendance Report (Term Report)	Every Month
13	Conclusion of Teaching (TE, BE)	04-11-2023
14	Conclusion of Teaching (SE)	04-12-2023
15	MOCK OR/PR/ TW Submission and Term End	30,31/10/2023 & 01,02 /11/23
16	University OR/PR Examination Slot (SE, TE, BE)	As per SPPU circular Dates
17	Theory (End Sem) Examination (SE, TE, BE)	As per SPPU circular Dates
18	Commencement Of Semester-II (TE, BE)	11-12-2023
19	Commencement Of Semester-II (SE)	01-01-2024



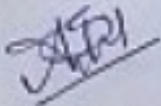
Dr. Sajid Shaikh
Dean Academics

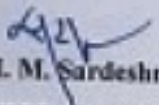


Dr. S.A. Choudhari
Director

JSPM NARHE TECHNICAL CAMPUS, NARHE, PUNE-41
E&TC Department Academic Planner 2023-2024 (Sem-I)

Sr. No.	Activity	Planned Dates
1	Commencement of Semester (TE, BE)	10/07/2023
2	Commencement of Semester (SE)	10/08/2023
3	Academic Audit-1	22/07/2023
4	BE Project Review-1	11/08/2023
5	Unit Test-I for TE and BE	16,17,18/08/2023
6	In SEM Examination for TE, BE	As per SPPU circular Dates
7	BE Project Synopsis Submission	25/08/2023
8	Student Council Selection Meeting	After SPPU Result
9	BE Project Review By Industrial Expert Review -2	09/09/2023
10	DSE Induction Institute/Department level	As per DTE circular Dates
11	Parent Meeting	11/09/2023
12	Final Cumulative Attendance Report (Term Report)	Every Month
13	Guest lecture	Every Month
14	Industry visit for SE, TE, BE	Once in a semester
15	GFM meeting	Twice in a month
16	Modules checking	Twice in a month
17	Conclusion of Teaching (TE, BE)	4/11/2023
18	Conclusion of Teaching (SE)	4/12/2023
19	Unit Test-II for TE and BE	30,31/10/2013& 01,02 /11/23
20	MOCK OR/PR/ TW Submission and Term End	30,31/10/2013& 01,02 /11/23
21	University OR/PR Examination Slot (SE, TE, BE)	As per SPPU circular Dates
22	Theory (End Sem) Examination (SE, TE, BE)	As per SPPU circular Dates
23	Commencement Of Semester-II (TE, BE)	12/11/2023
24	Commencement Of Semester-II (SE)	1/1/2024


Mrs. A. S. Patil
DAC - E & TC Egg


Dr. M. M. Sardeshmukh
HOD (E & TC)

Name of Faculty : Prof. A. S. Patil

Class : TE [E&TC]

Subject : Digital Communication


Planned Duration : 10 / 07 / 2023 to 04 / 11/ 2023

Course Outcomes :

Students should be able to

- CO1: Recognize the statistical theory for describing various signals in a communication system.
- CO2: Understand and explain various digital modulation techniques like BPSK, QPSK, MPSK - used in digital communication systems
- CO3: Understand and explain various digital modulation techniques used in digital communication systems, ISI and OFDM.
- CO4: Describe and analyze the digital communication system with spread spectrum modulation.
- CO5 Analyze a communication system using information theoretic approach
- CO6: Use error control coding techniques to improve performance of a digital communication system.

Sr. No.	Description	Duration	Planned Date	Actual Date	CO	Teaching Method	Student Learning Material	Student Activity	Relevant short video link	Assessment Tool
Prerequisites										
1.	Pre-requisite	2 hrs	10/07/23	24/7	-	Interactive learning	NA	Revision of Content	NA	Quiz
2.	Pre-requisite		11/07/23	28/7	-	Interactive learning	NA	Revision of Content	NA	
Unit I - Random Processes & Noise										
3.	Random Processes: Introduction, Mathematical definition of a random process	1 hr	12/07/23	26/7	CO1	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
4.	Stationary processes, Mean, Correlation & Covariance function	1 hr	13/07/23	27/7	CO1	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
5.	Ergodic processes	1 hr	17/07/23	28/7	CO1	Interactive learning	PPT, Notes, Videos	Listening, solving questions	https://www.youtube.com/watch?v=557jsh75S	MCQ Test Assessing written reports
6.	Transmission of a random process through a LTI filter	1 hr	18/07/23	31/7	CO1	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
7.	Power spectral density	1 hr	19/07/23	31/7	CO1	Interactive learning	PPT, Notes, Videos	Listening, solving Numericals		
8.	Gaussian process, noise,	1 hr	20/07/23	01/8	CO1	Collaborative Learning	PPT, Notes, Videos	Listening, solving questions		
9.	Narrow band noise	1 hr	24/07/23	02/8		Interactive learning	PPT, Notes, Videos	Listening, solving questions		
Unit II - Digital Modulation-I										
10	Signal space representation,	1 hr	25/07/23	04/8	CO2	Interactive learning	PPT, Notes, Videos	Listening, solving questions		

11	Geometric representation of signal	1 hr	26/07/23	04/8	CO2	Interactive learning	PPT, Note, Videos	Listening, solving questions	
12	Conversion of continuous A/WGN channel to vector channel	1 hr	27/07/23	07/8	CO2	Interactive learning	PPT, Notes, Videos	Listening, solving questions	https://www.youtube.com/watch?v=CCBdeVRMip8
13	Likelihood functions	1 hr	31/07/23	08/8	CO2	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
14	Coherent Detection of binary signals in presence of noise	1 hr	01/08/23	08/8	CO2	Collaborative Learning	PPT, Notes, Videos	Listening, solving questions	
15	Optimum Filter, Matched Filter	1 hr	02/08/23	09/8	CO2	Experiential Learning	PPT, Notes, Videos	Listening, solving questions	

UNIT III - Digital Modulation-II

16	Pass band transmission model,	1 hr	03/08/23	10/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	NPTEL :: Electrical Engineering- DIGITAL COMMUNICATION MCQ Test Assessing written reports
17	Signal space diagram	1 hr	07/08/23	11/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
18	Generation and detection,	1 hr	08/08/23	11/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
19	Error Probability derivation and Power spectra of coherent BPSK, BFSK and QPSK	1 hr	09/08/23	21/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving Numerical	
20	Geometric representation	1 hr	10/08/23	23/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
21	Generation and detection of -M-ary PSK, M-ary QAM and their error probability	1 hr	14/08/23	25/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
22	Generation and detection of -Minimum Shift Keying, Gaussian MSK	1 hr	15/08/23	25/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
23	Non-coherent BFSK & DPSK	1 hr	16/08/23	28/8	CO3	Interactive learning	PPT, Notes, Videos	Listening, solving questions	

Handwritten mark

Unit IV - Spread Spectrum Modulation

24	Introduction,	1 hr	17/08/23	21/8	CO 4	Interactive learning	PPT, Notes, Videos	Listening, understand comparison	(1227) Lecture 42 - Intro to Direct Sequence Spread Spectrum Communicatio ns - YouTube APV	MCQ Test Assessing written reports
25	Pseudo noise sequences	1 hr	21/08/23	21/8	CO 4	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
26	A notion of spread spectrum,	1 hr	22/08/23	11/9	CO 4	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
27	Direct sequence spread spectrum with coherent BPSK	1 hr	23/08/23	12/9	CO 4	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
28	Signal space dimensionality & processing gain,	1 hr	24/08/23	13/9	CO 4	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
29	Probability of error	1 hr	28/08/23	13/9	CO 4	Interactive learning	PPT, Notes, Videos	Listening, solving numericals		
30	Concept of jamming	1 hr	29/08/23	18/9	CO 4	Interactive learning	PPT, Notes, Videos	Listening, solving questions		

UNIT V - Information Theoretic Approach to Communication System

31	Introduction to information theory,	1 hr	30/08/23	22/9	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions	https://www.youtube.com/watch?v=qgMD1Yh2v=ggMD1Y SBAYE	MCQ Test Assessing written reports
32	Entropy and its properties,	1 hr	31/08/23	25/9	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
33	Source coding theorem, Huffman coding	1 hr	04/09/23	27/9	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
34	Shannon-Fano coding	1 hr	05/09/23	28/9	CO5	Collaborative Learning	PPT, Notes, Videos	Listening, solving questions		
25	Discrete memory less channel, Mutual information,	1 hr	06/09/23	03/10	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions		
36	Channel capacity, Channel coding theorem,	1 hr	07/09/23	04/10	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions		

37	Differential entropy and mutual Information for continuous ensembles	1 hr	11/09/23	05/10	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
38	Information Capacity theorem.	1 hr	12/09/23	06/10	CO5	Interactive learning	PPT, Notes, Videos	Listening, solving questions	42/1

UNIT VI - Error-Control Coding

39	Linear Block Codes: Coding,	1 hr	13/09/23	09/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	https://www.youtube.com/watch?v=2_uC9stwBR4 MCQ Test Assessing written reports
40	Syndrome and error detection,	1 hr	14/09/23	09/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
41	Error detection and correction capability	1 hr	18/09/23	10/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving Numerical	
42	Standard array and syndrome decoding	1 hr	19/09/23	11/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
43	Cyclic Codes: Coding	1 hr	20/09/23	12/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
44	Decoding	1 hr	21/09/23	12/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
45	Convolutional Codes: Coding	1 hr	25/09/23	13/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
46	Decoding	1 hr	26/09/23	13/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
47	Introduction to Turbo Codes & LDPC Codes.	1 hr	27/09/23	14/10	CO 6	Interactive learning	PPT, Notes, Videos	Listening, solving questions	
Total hrs		47 hrs							

Relevant Online Courses

Sr. No.	Name of Course	Name of Faculty	Course offered by	Duration of Course	Remarks
1	NPTTEL Course on "Digital Communications"	Prof. Surendra Prasad	NPTTEL	12 Week	NPTTEL :: Electrical Engineering - DIGITAL COMMUNICATION

Books :

1. Taub, Schilling and Saha, "Principles of Communication Systems", McGraw-Hill, 4 th Edition, 2. B.P. Lathi, Zhi Ding, "Modern Analog and Digital Communication System", Oxford University Press, 4 th Edition.
2. B.P. Lathi, Zhi Ding, "Modern Analog and Digital Communication System", Oxford University Press, 4 th Edition
3. Bernard Sklar, Prabira Kumar Ray, "Digital Communications Fundamentals and Applications", Pearson Education, 2nd Edition
4. Wayne Tomasi, "Electronic Communications System", Pearson Education, 5th Edition
5. Simon Haykin, "Digital Communication Systems", John Wiley & Sons, 4 th Edition.



Mrs. A. S. Patil

Subject Teacher



Dr. M. M. Sardeshmukh

HOD [E&TC]





Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Department of Electronics & Telecommunication Engineering
Academic Audit 1 - Sem II (2023-24)



Date : 27/02/24

Sr. No	Dept, Class & Div	Name of Subject	Name of Faculty	Name of module	Name of module coordinator	Unit number checked	Rating given by module coordinator (10)	Positive observations	Suggestions for improvements	Observations & Suggestions by Auditor
1	EATC S.E.	Principle of comm system	Dr. A.S. Patil	Electronic	Mrs. S.P. Kulekar	2 units	1. T-L-A plan: 8 2. Lect. Notes: 9 3. MCQs: 8 4. Use of MOOC / online videos: 7 5. Assignment / students' activity / mini projects: 7 6. PPT: 8	Good 1. Handwritten 2. Notes 3. 4. 5.	1. Need to create video content 2. 3. 4. 5.	
2	EATC B.E.	Fiber optics comm	Mrs. A.S. Patil	Communi- cation	Mrs. K.P. Wagh	2 units	1. T-L-A plan: 2. Lect. Notes: 3. MCQs: 4. Use of MOOC / online videos: 5. Assignment / students' activity / mini projects: 6. PPT:	1. Need + 2. Good 3. Lecture 4. 5. Notes	1. Need to increase 2. increase 3. MCQs + 4. online 5. video contents	


Mrs. M. P. Hajare
DAC - E & TC Engg


Dr. A. S. Patil
HOD (E & TC)





Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Department of Electronics & Telecommunication Engineering
Academic Audit 1 - Sem II (2023-24)



Date : 7/3/24

Sr. No	Dept, Class & Div	Name of Subject	Name of Faculty	Name of module	Name of module coordinator	Unit number checked	Rating given by module coordinator (10)	Positive observations	Suggestions for improvements	Observations & Suggestions by Auditor
1	EATC S.E.	signals & systems	Mrs. S.P. Kulkarni	Electronics	Mrs. S.P. Kulkarni	6	1. T-L-A plan: 8 2. Lect. Notes: 8 3. MCQs: 7 4. Use of MOOC / online videos: 7 5. Assignment / students' activity / mini projects: 8 6. PPT: 8	1. Handwritten Notes 2. Arrangement & prepared nicely	1. Need to increase MCQs 3. 5.	
2	EATC T.E.	Power Devices & Circuits	Mrs. M.P. Hajare	Electronics	Mrs. S.P. Kulkarni	6	1. T-L-A plan: 8 2. Lect. Notes: 8 3. MCQs: 7 4. Use of MOOC / online videos: 9 5. Assignment / students' activity / mini projects: 8 6. PPT: 8	1. Online videos 2. used at for 3. particular & important topics	1. Need to improve for MCQs 2. improve for MCQs 3. 5.	


Mrs. M. P. Hajare
DAC - E & TC Engg


Dr. A. S. Patil
HOD (E & TC)





Jayawant Shikshan Prasarak Mandal's
JSPM Narhe Technical Campus
Department of Electronics & Telecommunication Engineering
Academic Audit 1 - Sem II (2023-24)



Date : 9/2/24

Sr. No	Dept, Class & Div	Name of Subject	Name of Faculty	Name of module	Name of module coordinator	Unit number checked	Rating given by module coordinator (10)	Positive observations	Suggestions for improvements	Observations & Suggestions by Auditor
1	ETC TE	Project Management	Dr. K.P. Wagh	Management	Mrs. M.P. Hajare	4 units	1.T-L-A plan: 8 2. Lect. Notes: 7 3.MCQs: 8 4. Use of MOOC / online videos: 8 5. Assignment / students' activity / mini projects: 8 6. PPT: 7	1. Nice 2. conduction 3. of 4. student 5. activities	1. Need to 2. create 3. more 4. content 5. in PPT	
2	ETC SE	object oriented programming	Dr. S.H. Shaikh	programming	Mrs. N.R. Kadam	4 units	1.T-L-A plan: 7 2. Lect. Notes: 7 3.MCQs: 8 4. Use of MOOC / online videos: 8 5. Assignment / students' activity / mini projects: 8 6. PPT: 8	1. Use of 2. online 3. videos 4. in good 5. way	1. Need to 2. update 3. TLA 4. plan 5.	


Mrs. M. P. Hajare
DAC - E & TC Engg


Dr. A. S. Patil
HOD (E & TC)