

Maharashtra State Board of Technical Education, Mumbai

TEACHING PLAN (TP)

Academic Year: 2026-27 (ODD)

Institute Code and Name: 0078- K K Wagh Polytechnic, Nashik

Programme and Code: Information Technology (IF)

Course and Code: Applied Multimedia Techniques (AMT)

Scheme: K Allocated Hrs. 15

Name of Faculty: Mr. T. G. Uphade

Semester: Third

Course Index: 306

Course Code: 313003

Class: SYIF (PARAM)

COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Manipulate color models of image.
- CO2 - Perform edit operation on text and images using graphics processing tools.
- CO3 - Perform basic audio editing operations.
- CO4 - Perform basic video editing operations.
- CO5 - Create simple 2D Animation.
- CO6 - Design Web Pages with Multimedia components

TEACHING-LEARNING & ASSESSMENT SCHEME

Course Code	Course Title	Abbr	Cour se Cate gory	Learning Scheme						Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs/Week			SLH	NLH	Theory				Based on LL & TSL Practical				Based on SL					
				C L	T L	L L			FA - TH			SA - TH	Total		FA-PR		SA-PR		SLA			
													Max	Min	Max	Min	Max	Min	Max	Min		
313003	APPLIED MULTIMEDIA TECHNIQUES	AMT	SEC	1	-	2	1	4	2	-	-	-	-	-	25	10	-	-	25	10	50	

Total IKS Hrs for Sem.: 0 Hrs

Abbreviations: CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment Legends: @ Internal Assessment, # External Assessment, *# On Line Examination , @\$ Internal Online Examination

SUGGESTED COS - POS MATRIX FORM

Course Outcomes (COs)	Programme Outcomes (POs)							Programme Specific Outcomes (PSOs)	
	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO- 1	PSO- 2
CO1	1	-	-	1	-	-	-	1	2
CO2	1	-	-	1	-	-	-	1	2
CO3	1	-	-	1	1	-	1	2	2
CO4	1	1	-	1	1	-	2	2	2
CO5	1	2	1	2	1	1	2	2	2

Legends :- High:03, Medium:02,Low:01, No Mapping: -

*PSOs are formulated at institute level

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Unit No. (Allocated Hrs.)	CO	TLO aligned to CO's	Title/Details	Plan (No. of Lectures)		Actual Execution		Pedagogy Used	Remark		
				From	To	From	To				
			Unit - I Introduction to Multimedia								
1 (2)	CO1	TLO 1.1 TLO 1.2	1.1 Definition of Multimedia, application. 1.2 Multimedia System. .Framework	02 Lectures				Chalk Board, PPT, Learn Live			
			1.3 Component of Multimedia 1.4 Color models	04/07/26	11/07/26						
			Unit - II Text and Image Editing								
2 (4)	CO2	TLO 2.1	2.1 Types of text format	02 Lectures				Chalk Board, PPT, Learn Live			
		TLO 2.2	2.2 Conversion of text one	18/07/26	25/07/26						
		TLO 2.3	form to another format.								
		TLO 2.4	2.3 Graphics format								
		TLO 2.4	2.4 Image compression	02 Lectures							
		TLO 2.5	techniques Lossy and	01/08/26	08/08/26						
		TLO 2.6	Lossless. 2.5 Image effects 2.6 2D and 3D images.								
			Unit - III Working with Audio								
3 (2)	CO3	TLO 3.1	3.1 Digital audio, Features	02 Lectures				Chalk Board, PPT, Learn Live			
		TLO 3.2 TLO 3.3 TLO 3.4	of audio file formats 3.2 Lossless compressed , Lossy compressed audio format. 3.3 MIDI, Mono, Stereo. 3.4 File Size.	22/08/26	29/08/26						
			Unit - IV Working with Videos and Animations								
4 (4)	CO4	TLO 4.1	4.1 Digital video, Broadcast	02 Lectures				Chalk Board, PPT, Learn Live			
		TLO 4.2	video standards. 4.2 Video file formats: MPEG7, AVI, MP4, WMV.	05/09/26	12/09/26						
		TLO 4.3	4.3 Video Streaming	02 Lectures						Chalk Board, PPT, Learn Live	
		TLO 4.4	4.4 Types of Animation	19/09/26	26/09/26						

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Unit No. (Allocated Hrs.)	CO	TLO aligned to CO's	Title/Details	Plan (No. of Lectures)		Actual Execution		Pedagogy Used	Remark	
				From	To	From	To			
			Unit - V Webpage Designing with Multimedia Components							
5 (3)	CO5	TLO 5.1 TLO 5.2 TLO 5.3 TLO 5.4	5.1 Programming concepts with respect to action script 5.2 Design web pages using Hypertext and Hypermedia. 5.3 Upload or publish web page. 5.4 Fundamentals and gadgets of Virtual, Augmented and Mixed Reality.	03 Lectures				Chalk Board, PPT, Learn Live		
				03/10/26	10/10/26 17/10/26					
Content Beyond syllabus (01)			Concept of Motion Graphics	01 Lecture				Chalk Board, PPT.		

ASSESSMENT METHODOLOGIES/TOOLS

A. Formative assessment (Assessment for Learning) (FA-TH)

- Continuous assessment based on process and product related performance indicators. Each practical will be assessed considering
 - 60% weightage is to process
 - 40% weightage to product

B. Summative Assessment (Assessment of Learning) (SA-TH)

- NA

SUGGESTED LEARNING MATERIALS / BOOKS

Sr.No	Author	Title	Publisher with ISBN Number
1	Tay Vaughan	Multimedia: Making it work,9e	McGraw Hill Education, New Delhi 2015, ISBN:9780071832885
2	Parekh Ranjan	Principles of Multimedia 2e	McGraw Hill Education, New Delhi.2015, ISBN-13: 978-1-25- 900650-0 ISBN-13: 1-25-900650-6
3	Colin Moock	Essential ActionScript 3.0	O'Reilly Media, Inc. ISBN: 9780596526948

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LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://helpx.adobe.com/in/animate/how-to/create-2d-animation.html	2D animation
2	https://photography.tutsplus.com/tutorials/learn-2d-animation-basics-in-blender--cms-41862	2D animation
3	https://www.gimp.org/tutorials/	Image editing
4	https://www.tutorialspoint.com/multimedia/	Multimedia concept
5	http://edutechwiki.unige.ch/en/AS3_Tutorials_Beginner	ActionScript
6	https://www.cloudflare.com/learning/performance/what-is-streaming/	Video Streaming
7	https://www.youtube.com/watch?v=vz0UUVDt2ps	Virtual Reality and Augmented Reality
8	https://drive.uqu.edu.sa/_/mskhayat/files/MySubjects/20178FS%20Multimedia%20Systems/Fundamentals_of_multimedia_2e.pdf	Fundamentals of Multimedia by Li, Ze-Nian
Note : Teachers are requested to check the creative common license status/financial implications of the suggested online educational resources before use by the students		

Mr. T. G. Uphade
 (Name & Signature of Staff)

Ms. M. S. Karande
 (Name & Signature of HOD)