

TEACHING PLAN (TP)

Academic Year: 2026-27

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

Programme and Code: Information Technology (IF)

Course and Code: Applied Multimedia Techniques (AMT)

Name of Faculty: Ms. S. P. Chivate

Scheme: K

CLASS: SYIF (Cray)

Semester: Third

Course Index: 306

Course Code: 313003

Allocated Hrs. 15

COURSE LEVEL LEARNING OUTCOMES (COS)

- CO1 - Manipulate colour 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	Course Category	Learning Scheme						Credits	Paper Duration	Assessment Scheme										Total Marks
				Actual Contact Hrs./Week			SLH	NLH	Theory				Based on LL & TSL Practical				Based on SL					
				CL	TL	LL			FA-TH			SA-TH	Total		FA-PR		SA-PR		SLA			
													Max	Max	Max	Min	Max	Min	Max	Min	Max	
313003	Applied Multimedia Techniques	AMT	SEC	1	-	4	2	-	-	-	-	-	-	25	10	-	-	25	10	50		

Total IKS Hrs. for Sem.: 2 Hrs.

Abbreviations: CL- Classroom Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH- Notional Learning Hour 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	-	-	-	2	1
CO2	1	-	-	1	-	-	-	2	2
CO3	1	-	-	1	1	-	-	2	2
CO4	1	1	-	1	1	-	1	3	2
CO5	1	2	1	2	1	1	2	3	3
CO6	2	1	2	1	1	1	2	3	3

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

*PSOs are to be formulated at institute level

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Unit No. (Allot ted Hrs.)	CO (Men tion only Num ber)	TLO Menti on only Numb er	Unit Name and Learning Content Title/ Details	Plan No. of Lecture		Actual Execution		Teaching method/ Media	R e m a r k
				From	To	From	To		
1(2)	CO1	TLO 1.1, TLO 1.2, TLO 1.3, TLO 1.4	Unit - I Introduction to Multimedia						
			1.1 Definition of Multimedia, application of Multimedia: business, education. 1.2 Multimedia System Framework, Display System (LCD, LED, OLED, QLED, Foldable). 1.3 Component of Multimedia: text, graphics, audio, video and animation 2D and 3D. 1.4 Color models like RGB, CMYK, HSV, YIQ, saturation and brightness.	2 Lectures					
				01/07/2026	08/07/2026				
2(4)	CO2	TLO 2.1, TLO 2.2, TLO 2.3	Unit - II Text and Image Editing						
			2.1 Types of text format: plain text, RTF, PDF format. 2.2 Conversion of text one form to another format. Text effects (Ketchup, rope, Fire). 2.3 Graphics format: - Vector graphics formats SVG, WMF, EPS, PDF, and CDR -Raster Format: JPEG, PNG, TIFF, PNG, GIF, WebP, BMP and MPEG4.	2 Lectures					
				15/07/2026	22/07/2026				
		TLO 2.4, TLO 2.5, TLO 2.6	2.4 Image compression techniques Lossy and Lossless. 2.5 Image effects: broken mirror effect, flaming ball effects, water drop effect. 2.6 2D and 3D	2 Lectures					
				29/07/2026	05/08/2026				

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Unit No. (Allotted Hrs.)	CO (Mention only Number)	TLO Mention only Number	Unit Name and Learning Content Title/ Details	Plan No. of Lecture		Actual Execution		Teaching method/ Media	Remarks
				From	To	From	To		
3(2)	CO3	TLO 3.1, TLO 3.2	Unit - III Working with Audio						
			3.1 Digital audio, Features of audio file formats: mp3, wav, mpeg7, mpeg21. 3.2 Lossless compressed audio format, Lossy compressed audio format. 3.3 MIDI, Mono, Stereo. 3.4 File Size.	2 Lectures					
				05/08/2026	19/08/2026				
4(4)	CO4	TLO 4.1, TLO 4.2, TLO 4.3, TLO 4.4	Unit - IV Working with Videos and Animations						
			4.1 Digital video, Broadcast video standards. 4.2 Video file formats MPEG7, AVI, MP4, and WMV.	2 Lectures					
				02/09/2026	09/09/2026				
			4.3 Video Streaming: Introduction, Difference between streaming and downloading, working of streaming, buffering, factors affecting streaming. 4.4 Types of Animation: Object (Rolling Ball and Bouncing Ball) and Process animation, 2D, 3D, motion capture, motion graphics, morphing.	2 Lectures					
16/09/2026	23/09/2026								

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Unit No. (Allot ted Hrs.)	CO (Men tion only Num ber)	TLO Menti on only Numb er	Unit Name and Learning Content Title/ Details	Plan No. of Lecture		Actual Execution		Teaching method/ Media	R e m a r k
				From	To	From	To		
5(3)	CO5	TLO 5.1, TLO 5.2, TLO 5.3	Unit - V Webpage Designing with Multimedia Components						
			5.1 Programming concepts with respect to action script: variables, data types, conditionals, loops, arrays, functions. 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.	3 Lectures					
				23/09/2026	07/10/2026				
Content Beyond syllabus (01)			Concept of Motion Graphics	1 Lecture					
				14/10/2026	14/10/2026	14/10/2026	14/10/2026		

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 to process, 40% weightage to product.
- A continuous assessment based term work.

B. Summative Assessment (Assessment of Learning)

- End semester examination, Lab performance, Viva voce

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SUGGESTED LEARNING MATERIALS / BOOKS

Sr. No	Author	Title	Publisher
1	Henry F. Korth	Database System Concepts	McGraw Hill Education ISBN : 9780078022159
2	Ivan Bayross	SQL, PL/SQL – The Programming Language of Oracle	BPB Publication ISBN 10: 8170298997 BPB Publication ISBN 13: 9788170298991
3	ISRD	Introduction to Database Management Systems Group	McGraw Hill Education ISBN 10: 0070591199 McGraw Hill Education ISBN-13 : 978-0070591196

• **LEARNING WEBSITES & PORTALS**

Sr. No	Link /Portal	Description
1	https://nptel.ac.in/courses/106105175	Data Base Management System
2	https://www.w3schools.com/sql/	SQL Tutorial
3	https://www.tutorialspoint.com/sql/index.htm	SQL Programming Language

Ms. S. P. Chivate
(Name & Signature of Staff)

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