

Teaching and Examination Scheme:

Teaching Scheme			Credits	Marks			Duration of End Semester Examination
L	T	P/D		Sessional	End Semester Exams	Total	
3	0	0	3	40	60	100	3Hrs

COURSE OBJECTIVE:

The course should enable the students to adapt the architecture for design of multimedia system and standards used in developing multimedia applications.

COURSE CONTENT:

UNIT	CONTENT	No. of Hrs.
I	Introductory concepts: Basic definitions, components of multimedia system, uses of multimedia, introduction of making multimedia-the stages of the project, the requirements to make a good multimedia, multimedia skills and training, motivation for multimedia usage, frequency domain analysis, application domain and ODA. Multimedia software- basic tools, making instant multimedia, multimedia software and authoring tools, production standards.	10
II	Multimedia building blocks- Text, sound, images, animation and video, digitization of audio and video objects, different compression algorithms concern to text, audio, video and images, working exposure on tools like dream weaver, 3D effects, flash etc.	10
III	Multimedia and the Internet: History, Internet working, connections, Internet services, the world wide web, tools for WWW-web servers, web browsers, web page makers and editors. Multimedia applications-Media communication, media consumption, media entertainment, media games.	10
IV	Synchronization: Temporal relationships, synchronization accuracy, specification factors, quality of service(QoS), multimedia-looking towards future: digital communication and new media, interactive television, digital broadcasting, digital radio, multimedia conferencing	9

Text Books:

1. Steve Heath, *"Multimedia and Communication Systems"*, Focal Press, UK.
2. Tay Vaughan, *"Multimedia: Making it Work"*, TMH.
3. K. Andleigh and K. Thakkar, *"Multimedia System Design"*, PHI, PTR.

Reference Books:

1. Keyes, *"Multimedia Handbook"*, TMH.

2. Ralf Steinmetz and Klara Naharstedt, *"Multimedia: Computing, Communications and Applications"*, Pearson.
3. Steve Rimmer, *"Advanced Multimedia Programming"*, MHI.