SCHEME OFCOURSE WORK

Course Details:

Course Title	:Multimedia and Application Development		
Course Code	:15IT1105	L T P C	: 3 0 0 3
Program:	: B.Tech		
Specialization:	:Information Technology		
Semester	:VI		
Prerequisites	:NIL		
Courses to which it is a prerequisite	: NIL		

Course Outcomes(COs):

At the end of the course the student will be able to

CONo.	Courseoutcomes
CO1	Identifybasicmultimediacontenttypes
CO2	DescribetransmissionofAudioandVideo
CO3	Explaindatacompressionalgorithms
CO4	DiscussbasicsofVideocompression
CO5	Identifydifferentmultimedianetworks

CourseOutcomeversusProgramOutcomes:

Courseoutcomes	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2												2	1	
CO2	3	3	3										2	1	
CO3	3	2											2	1	
CO4	3	2											1	1	
CO5	2												1	1	

S-Stronglycorrelated,M-Moderatelycorrelated,Blank-Nocorrelation

AssessmentMethods:	Assignment / Quiz/Seminar/ CaseStudy / Mid-Test /End Exam

Teaching-LearningandEvaluation

Week	Topic/Contents	CourseOutcomes	SampleQuestions	Teaching-LearningStrategy	Assessment Method& Schedule

1	UNIT-1: WhatisMultimedia?MultimediaandHypermedia,WorldWideWeb,OverviewofMultimediaSoftwareTools.GraphicsandImageDataRepresentations:Graphics/ImageD ataTypes. COLORINIMAGE AND VIDEO: color science,color modelsinimages,color modelsinvideo.	CO1	1) Explainaboutdifferent graphics/Imagedatatype s Explainaboutdifferent colormodelsinvideo	Lecture	Quiz-1Mid-1 Assignment1
3	UNIT-2: Types of videosignals,analogvideo,digital video,digitization of sound,MIDI,quantization and	CO2	1) Explaintypesofvideos ignals	Lecture	Quiz-1Mid-1 Assignment-
4	UNIT-3MULTIMEDIA DATACOMPRESSION : Losslesscompressionalgorithms:RunLengthCoding,VariableLengthCoding,a	CO3	1) ExplainaboutLZW codingtechnique	Lecture	1 Quiz-1Mid-1 Assignment1
	MIDTEST-1				
5	Lossycompressionalgorithms:Quantization,TransformCoding,Wavelet-BasedCoding	CO3	1) Explainaboutwavelet basedCoding	Lecture	Quiz-2Mid-2 Assignment-

6	UNIT-4: BASICSOFVIDEO COMPRESSION : IntroductiontoVideoCompression,Video CompressionwithMotionCompensation, SearchforMotionVectors	CO4	1) Explainabout Searchf ormotionvecto rs	Lecture	Quiz-2Mid-2 Assigne ment2
7	VIDEOCODING : OverviewofMPEG-1,MPEG-2andMPEG-4.MotioncompensationinMPEG-1,MPEG-2Profiles,Object-basedVisual	CO4	1) Explainabouto bject basedvisualco ding.	Lecture	Quiz2 Mid-2
8	SyntheticObjectCodinginMPEG-4,MPEG-4Objecttypes,ProfileandLevels.	CO4	1) Explainabouts ynthetic objectcoding.	Lecture	Quiz-2Mid-2 Assigne ment2
9	UNIT-5: MULTIMEDIA NETWORKS : Basics of Multimedia Networks,Quality of	CO5	1) Explainabout Qualityofs erviceparamet ers.	Lecture	Quiz2 Mid-2
	Transmission				
10	MULTIMEDIACOM MUNICATION: MultimediaoverIP,MultimediaoverATMNetworks,Transport of	CO5	1) Explainaboutdifferentbr oadcastingtechniques.	Lecture	Quiz2Mid-2

	MPEG4,Media-onDemand(MOD).				
	MIDTEST-2				
	ENDEXAM				