

UNIVERSITY OF MADRAS
B.Sc. DEGREE COURSE IN SOFTWARE APPLICATION
SYLLABUS WITH EFFECT FROM 2020-2021

BSA-CSE1B

ELECTIVE-I(B): MULTIMEDIA AND ITS APPLICATIONS

(Common paper to B.C.A.)

III YEAR / V SEM

OBJECTIVES:

- To understand the basic concepts of Multimedia Systems
- To learn representations, perceptions and applications of Multimedia

OUTCOMES:

- To understand the technologies behind multimedia applications

UNIT- I

Definition - Classification - Multimedia application -Multimedia Hardware - Multimedia software - CDROM - DVD.

UNIT-II

Multimedia Audio: Digital medium - Digital audio technology - sound cards - recording - editing - MP3 - MIDI fundamentals - Working with MIDI - audio file formats - adding sound to Multimedia project.

UNIT-III

Multimedia Text: Text in Multimedia -Multimedia graphics: coloring - digital imaging fundamentals - development and editing - file formats - scanning and digital photography

UNIT-IV

Multimedia Animation: Computer animation fundamentals - Kinematics - morphing - animation s/w tools and techniques.

Multimedia Video : How video works - broadcast video standards - digital video fundamentals – digital video production and editing techniques - file formats.

UNIT-V

Multimedia Project : stages of project - Multimedia skills - design concept - authoring - planning and costing –Multimedia Team.

Multimedia-looking towards Future: Digital Communication and New Media, Interactive Television, Digital Broadcasting, Digital Radio, Multimedia Conferencing

TEXT BOOKS:

1. S.Gokul, “*Multimedia Magic*”, BPB Publications, 2nd Edition.
2. Tay Vaughen , “*Multimedia Making it Work*”, TMH, 6th Edition.

REFERENCE BOOKS:

1. Kiran Thakrar, Prabhat k.andleigh, “*Multimedia System Design*”, Prentice Hall India.
2. Malay k Pakhira, “*Computer graphics, Multimedia and Animation*”, Prentice Hall India, 2nd Edition.

WEB REFERENCES:

- NPTEL & MOOC courses titled Multi media
- <https://nptel.ac.in/courses/106105163/>
- W3schools.com/html/html-media.asp