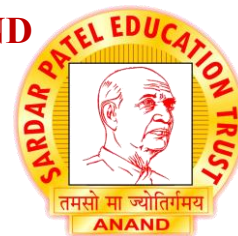




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Revised Syllabus as per NEP 2020 with effect from the Academic Year 2026-2027

Bachelor of Computer Applications (BCA)
Semester – II

Course Code	US2SEBCA18	Title of the Course	Multimedia Technology
Total Credits	02 Credits	Hours per Week	02 Hours / Week

Course Learning Outcomes (CLOs)

CLO 1	Understand fundamental concepts related to multimedia technology.
CLO 2	Understand how to work with text, audio, video and graphics.

Course Content

Unit No.	Description	Weightage (%)
1.	Introduction • Multimedia : meaning • Various facets of multimedia : text, audio, video, animation graphics • Classification of multimedia technology • Multimedia : hardware/software essentials • Different categories of multimedia software.	50%
2.	Working with Text, Audio, Graphics • Multimedia Text: Introduction, designing text for multimedia, hypermedia, hypertext • Multimedia Audio : Introduction, digital audio and sound card fundamentals, sound card functionalities, audio jacks, connectors, digital audio playback, audio editing • Multimedia graphics : introduction, basic concepts of colour displays, monitor video modes, colour monitors and their parameters, graphics in multimedia projects	50%

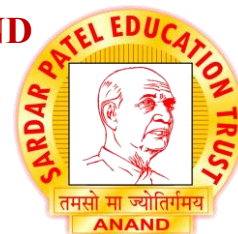
Teaching – Learning Methodology

The course would be taught /learnt through ICT (e.g. Power Point Presentation, Audio-Visual Presentation), Lectures, Quizzes, Assignments, Case Study and Browsing E- Resources.



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Examination Evaluation Pattern		
Sr. No.	Particulars	Weightage (%)
01	Continuous and Comprehensive Evaluation (CCE) (Formative Assessment)	50%
02	Semester End Evaluation (SEE) (Summative Assessment)	50%
	TOTAL	100%

Specifications for CCE and SEE		
Sr. No.	Details of the Evaluation Pattern	Marks
01	Continuous and Comprehensive Evaluation (CCE) (Formative Assessment)	
	A Assignments	10
	B Multiple Choice Questions	05
	C Attendance	05
	D Written Examination (01 Hour)	30
	(Formative Assessment) (A + B + C + D)	50 Marks
	Note: • For 02 Credit Courses, the Formative Assessment for students must be from 25 Marks. Thus, the total obtained marks from A + B + C + D (50 Marks) will be divided by 02.	25 Marks
02	Semester End Evaluation (SEE) (Summative Assessment)	
	E Written Examination (01 Hour)	25 Marks
	TOTAL	50 Marks

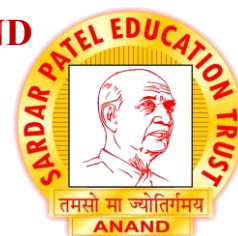
Rubrics – Based Assessment for Assignments (10 Marks)		
Excellent	09 – 10 Marks	Accurate, error-free, logically presented, timely submission
Good	07 – 08 Marks	Minor errors and good conceptual clarity
Average	05 – 06 Marks	Basic understanding or partially correct
Basic	03 – 04 Marks	Limited clarity, noticeable mistakes, incomplete content
Poor	01 – 02 Marks	Inadequate conceptual clarity, incorrect content
Below Poor	Zero Marks / NA	Content is irrelevant / Not Attempted / Not Submitted
Note: • Assignments may be taken in forms of written project, computerized and online suggested courses / certificates as per the decision made by the respective faculties of the courses.		

Rubrics – Based Assessment for Multiple Choice Questions (05 Marks)		
05 Multiple Choice Questions – 01 Mark Each (05 Marks)		
Excellent	01 Mark	The chosen option is correct, no errors in response
Below Poor	Zero Marks / NA	Chosen option is incorrect, completely irrelevant, multiple options chosen / Not Attempted



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Rubrics – Based Assessment for Attendance (05 Marks)

As per the Rules and Regulations provided by the Academic Section of Sardar Patel University, Vallabh Vidyanagar, for the students studying in all departments and colleges.

Reference No.: E – 3 / 3127; dated: 07-03-2024.

<https://www.spuvvn.edu/orbit-cdn/uploads/circulars/Circular-NEP-InternalExamMarks-March-April24.pdf>

Excellent	05 Marks	More than 90% (Minimum 27 Hours for 02 Credits Courses)
Good	04 Marks	80% - 89% (24 to 26 Hours for 02 Credit Courses)
Average	03 Marks	70% - 79% (21 to 23 Hours for 02 Credit Courses)
Poor	Zero / NA	Less than 70% (NOT ELIGIBLE TO APPEAR FOR EXAM)

Note:

- Students with below 70% of attendance must submit their written application to their respective class coordinators with genuine reasons and evidence (in case of working or medical emergencies). Students must **not** pursue dual degree programmes that clash with the college's timings.

Rubrics – Based Assessment for Mid-Semester Examination (30 Marks)

Any One Unit or 50% of The Syllabus - 15 Marks Each Question

Excellent	13 – 15 Marks	Demonstrates clear understanding of multimedia concepts (text, audio, graphics), accurate explanations, proper use of terminology, well-structured answers, and correct application of concepts such as hypertext, audio systems, and graphics principles
Good	10 – 12 Marks	Minor errors, good conceptual clarity of multimedia elements, mostly correct explanations with proper examples
Average	07 – 09 Marks	Basic understanding of multimedia concepts, some incorrect or incomplete explanations, partial coverage of topics
Basic	04 – 06 Marks	Limited clarity of multimedia concepts, noticeable mistakes, incomplete answers or missing key points
Poor	01 – 03 Marks	Inadequate understanding of concepts like text/audio/graphics, incorrect explanations, irrelevant content
Below Poor	Zero Marks / NA	Not attempted or completely irrelevant answer

Note:

- Written Examination questions will be based on various levels of Revised Bloom's Taxonomy.

Rubrics – Based Evaluation Pattern for End-Semester Examination (25 Marks)

Multiple Choice Questions (05 Marks) – 01 Mark Each from all Units

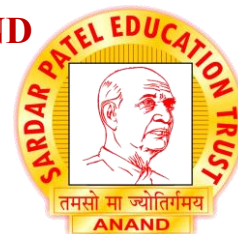
Excellent	01 Mark	The chosen option is correct, no errors in response
Below Poor	Zero Marks / NA	Chosen option is incorrect, completely irrelevant, multiple options chosen / Not Attempted



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Short Question (08 Marks) – 4 Question from all Units		
Excellent	02 Marks	Demonstrates accurate understanding of concepts related to questions. Provides correct explanation, appropriate figures, and clear explanations with complete answers.
Good	01 Mark	Shows partial understanding of concepts with some correct steps or explanations. Minor errors or incomplete answers may be present.
Poor	00 Mark	Incorrect, irrelevant, or no response provided.
UNIT I - 06 Marks Each Question		
Excellent	05 – 06 Marks	Comprehensive explanation of multimedia concepts, facets (text, audio, video, graphics, animation), classification, hardware/software with correct terminology and examples
Good	04 – 05 Marks	Good understanding of multimedia concepts with minor errors or missing details
Average	03 – 04 Marks	Basic explanation of key concepts, but lacks depth and clarity
Basic	02 – 03 Marks	Limited understanding, incomplete explanation of topics
Poor	01 – 02 Marks	Incorrect or irrelevant explanation of multimedia concepts
Below Poor	Zero Marks / NA	Not attempted or completely irrelevant

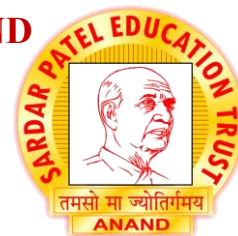
UNIT II - 6 Marks Each Question		
Excellent	05 – 06 Marks	Clear and detailed explanation of multimedia text, hypertext/hypermedia, audio fundamentals, sound cards, graphics concepts with proper examples and diagrams
Good	04 – 05 Marks	Good understanding with minor mistakes in explanation or missing examples
Average	03 – 04 Marks	Basic understanding of text, audio, and graphics concepts with partial correctness
Basic	02 – 03 Marks	Limited clarity, incomplete coverage of topics
Poor	01 – 02 Marks	Poor understanding, incorrect explanations
Below Poor	Zero Marks / NA	Not attempted or irrelevant
Note: - Multiple Choice Questions of 5 Marks will be based on various levels of Revised Bloom's Taxonomy. - Written Examination questions will be based on various levels of Revised Bloom's Taxonomy.		

PLO – CLO Mapping						
Multimedia Technology						
	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
CLO 1	3	2	0	2	1	0
CLO 2	2	3	2	0	2	0
Note:						



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-
- High: **03**; Moderate: **02**; Low: **01**; No Mapping: **00s**
-

Suggested References and E-Resources for Further Reading
• Multimedia Magic. By S. Gokul, BPB Publications, 1998 and (Revised and updated Second Edition) 2005.
• Introduction to Multimedia : By Ana Weston Solomon, Tata McGraw-Hill Publishing Company Limited, 2005.
• https://www.geeksforgeeks.org/what-is-multimedia/
• https://www.tutorialspoint.com/multimedia_systems/multimedia_introduction.htm
• https://www.tutorialspoint.com/multimedia_systems/multimedia_audio.htm
• https://www.geeksforgeeks.org/digital-audio-and-sound/