## SARDAR PATEL UNIVERSITY Vallabh Vidyanagar, Gujarat (Reaccredited with 'A' Grade by NAAC (CGPA 3.11) Syllabus as per NEP 2020 with effect from the Academic Year 2023-2024

## Bachelor of Business Administration BBA (ITM) - Semester-II

Course Code	UM02VABBI05	Title of the Course	Digital Computer Electronics
Course Objectives:	<ol> <li>To study the Basic Di</li> <li>To study the fundame</li> </ol>	0 0	

Total Credits of the Course2	Hours per Week	2
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Course Content		
Unit	Description	Weightage* (%)
1.	Basic Digital Logic Circuit-I Seven Segment Decoder Multiplexer ( 4 X 1, 8 X 1, 16 X 1 line) Nibble Multiplexer De-Multiplexer (1 X 4, 1 X 8, 1 X 16 line) Comparator	50%
2.	Karnaugh Map Boolean Relations Sum of Product Method Karnaugh Map up to 4 variables Karnaugh Map Simplifications Don't Care Conditions	50%

Teaching-	Information and Communication Technology (ICT) in education is the
Learning	mode of education that use information and communications technology to
Methodology	support, enhance, and optimize the delivery of information.

## **Evaluation Pattern**

Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understanding of fundamental concepts of digital logic circuits.
2.	Ability to describe the functioning of Digital Computer.
3.	Knowledge of logical circuit mechanism.

Suggested References:	
Sr.No.	References
1.	Tanenbaum A S: Structured Computer Organization Prentice-Hall of India Pvt. Ltd.
2.	Malvino Brown: Digital Computer Electronics, 3rd Edition
3	Malvino and Leach:DigitalPrinciplesandApplications,4thEdition.McGrawHill Education
4.	Rajaraman V: Computer Fundamentals Prentice – Hall of India Pvt. Ltd.
5.	Sinha P K: Computer Fundamentals BPB Publi, (Second Edition)
6.	S.K.Basandra: Computers Today Galgotia Publi.
7.	Peter Norton: Introduction to Computers TMH.
8.	WilliamH.Gothmann:DigitalElectronics-AnIntroductiontoTheoryand Practice,2ndEdition,PHI,1982
On-line resources to be used if available as reference material	
On-line Resources	
1.https://www.academia.edu/40474484/Digital_Computer_Electronics_Albert_Paul_Malvino	
2.https://www.javatpoint.com/digital-electronics	