



(Shri Ramkrishna Seva Mandal's)  
**ANAND COMMERCE COLLEGE**

An Autonomous College (2025-26 to 2034-35)  
(Affiliated to Sardar Patel University)  
NAAC ACCREDITED 'A' GRADE (3.04 CGPA)  
ISO 9001:2015



Syllabus as per NEP 2020 with effect from the Academic Year 2025-26

**Bachelor of Business Administration  
Information System Management  
BBA (ISM) Semester – I**

Course Code	UB01SEBBI04	Title of the Course	Logical Organization of Computer
Total Credits of the Course	2	Hours per Week	2

Course Objectives:	<ul style="list-style-type: none"><li>To study the Computer Number System.</li><li>To study the Digital Circuits and basic gate operations.</li><li>To study on various input/output devices and storage device.</li></ul>
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Course Content		
Unit	Description	Weightage* (%)
1.	<b>Introduction to Digital Number Systems:</b> <ul style="list-style-type: none"><li><b>Introduction:</b> Block diagram of a simple computer and its different functional units. Representation of information.</li><li><b>Number System:</b> Binary, octal, Hexadecimal number system, Conversion from one system to another.</li><li><b>Computer Arithmetic:</b> Binary addition, subtraction, Multiplication &amp; Division, Complements and its use for representing negative numbers &amp; subtraction.</li><li><b>Codes for character representation:</b> Character codes (ASCII, EBCDIC, and UNICODE).</li></ul>	35%
2.	<b>Basic Logical Gates and Digital Circuits:</b> <ul style="list-style-type: none"><li>Boolean algebra, Truth Tables.</li><li>GATES (AND, OR, NOT, NAND, NOR, XOR, XNOR, Bubbled AND, Bubbled OR).</li></ul>	35%
3.	<b>Input /Output and Storage Devices:</b> <ul style="list-style-type: none"><li><b>Storage Devices:</b> ROM, RAM, PROM, EROM, Static and Dynamic RAM., Floppy disk, Hard Disc, CD ROM, PENDRIVE.</li></ul>	30%

	<ul style="list-style-type: none"> <li>• <b>Input /Output Devices:</b> Overview of input output devices. Keyboard, Mouse, OCR, Scanner, Plotters, Printers, Graphics Display Devices.</li> </ul>	
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<b>Teaching-Learning Methodology</b>	<ul style="list-style-type: none"> <li>➤ White Board</li> <li>➤ Presentation</li> <li>➤ Video</li> <li>➤ Case Study</li> </ul>
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### Internal and / or External Examination

#### Evaluation

Sr. No.	Details of the Evaluation / Exam Pattern	50 Marks (%)	25 Marks (%)
1	Class Test (at least one)	15 (30%)	10 (40%)
2	Quiz (at least one)	15 (30%)	05 (20%)
3	Active Learning	05 (10%)	----
4	Home Assignment	05 (10%)	05 (20%)
5	Class Assignment	05 (10%)	----
6	Attendance	05 (10%)	05 (20%)
<b>Total Internal (%)</b>		<b>50 (100%)</b>	<b>25 (100%)</b>
<b>College External Examination (%)</b>		<b>50 (100%)</b>	<b>25 (100%)</b>

<b>Course Outcomes:</b> Having completed this course, the learner will be able to	
1.	Understanding of fundamental concepts related to Number systems.
2.	Ability to describe the functioning of Digital Computer.
3.	Functioning of different memory systems like RAM, ROM and input/output devise.

<b>Suggested References:</b>	
<b>Sr.No.</b>	<b>References</b>
1.	Structured Computer Organization By Andrew S. Tanenbaum, Todd Austin ,Pearson Publication 6th illustrated edition- 2013.
2.	Digital Computer Electronics, By Albert Paul Malvino, Jerald A. Brown , 3rd Edition, Glencoe Publications · 1992.
3.	Digital Electronics Principles, Devices and Applications, By Anil K. Maini, Wiley Publication- 2007
4.	Introduction To Information Technology, By V. Rajaraman, PHI Learning Pvt. Ltd Publications, 3 <sup>rd</sup> Edition. · 2018.
5.	Computer Fundamentals, By Pradeep K. Sinha, Priti Sinha , BPB Publications·Publication, 6th Edition- 2004
<b>Digital resources to be used if available as reference material</b>	
Digital Resources	
1. <a href="https://www.academia.edu/40474484/Digital_Computer_Electronics_Albert_Paul_Malvino">https://www.academia.edu/40474484/Digital_Computer_Electronics_Albert_Paul_Malvino</a> .	
2. <a href="https://www.javatpoint.com/digital-electronics">https://www.javatpoint.com/digital-electronics</a> .	



**Chairman**  
BOS of Computer Science  
Anand Commerce College



**Academic Coordinator**  
Anand Commerce College



**Principal**  
Anand Commerce College