



## COURSE OUTLINE TABLE

 **SUB TITLE:** COMPUTER AND INFORMATION TECHNOLOGY (222207)  
 **COURSE TEACHER:** ROUSHAN JAHAN(T-5)& SHEULE BEGOM(T-13)

Chapter No & Chapter Title	Number of Classes with Class Title	Learning Outcomes
1. Introduction (T-13)	1. Introduction ToComputer-1	1. Define Computer. 2. Explain Its Characteristics and Uses. 3. Describe The History of Computer.
	2. Introduction To Computer-2	1. Describe Computer Generations (1st To 5t). 2. Explain The Overview of Computer System. 3. Describe Different Types of Computers.
	3. Number System	1. Define Number System, Digit, Base, Positional and Non-Positional Number System. 2. Explain The Classifications of Number System. 3. Define Code or Text Code and Parity Bit. 4. Converse The Number System.
	4. Computer Organization and Architecture	1. Define Internal and External Device. 2. Explain Computer Architecture. 3. Define Computer Bus and Explain Its Classifications. 4. Define Microprocessor and Identify Its Classifications.
	5. Basic Logic Gates and Truth Tables	1. Define Digital Circuit, Boolean algebra, Variable and Constant. 2. Explain Postulates, Duality Principal, Boolean Theorems and Truth Tables. 3. Simplify Logic Function and Logic Gates. 4. Define Adder, Encoder and Decoder.
2. Fundamentals of computer hardware (T-13)	6. Computer Hardware	1. Identify Different Types of Computer Hardware 2. Categorize Processing Hardware Into CPU, Memory Etc. 3. Define CPU, Different Parts and Its Role. 4. Define Register.
	7. Processing Hardware, Peripheral and Storage Device	1. Define Microprocessor, Explain Different Parts of It, And Describe Its Function. 2. Identify Different Types of Storage Device 3. Define Computer Peripheral and Categorize It into Different Parts.
3. Introduction to system software and application software (T-13)	8. Introduction To Software And Operating System	1. Define Software 2. Describe The Types of Computer Software 3. Differentiate Between System and Application Software. 4. Define Firmware, Human Ware 5. Define Operating System And Mention Its Classifications.

<b>Chapter No &amp; Chapter Title</b>	<b>Number of Classes with Class Title</b>	<b>Learning Outcomes</b> At the end of the class the students would be able to
	9. Software Development and Programming Language	<ol style="list-style-type: none"> <li>1. Define programming language and clarify many types of it.</li> <li>2. Describe the steps of program development</li> <li>3. Define algorithm, flowchart and pseudo code</li> <li>4. Describe the function of utility program.</li> </ol>
4. Graphical User Interface(T-13)	10. Gaining Proficiency In GUI	<ol style="list-style-type: none"> <li>1. Define text base and GUI operating system</li> <li>2. Clarify windows operating system.</li> <li>3. Illustrate system backup and system cleaning</li> <li>4. Simplify the use of important commands of GUI.</li> </ol>
	11. Word Processing	<ol style="list-style-type: none"> <li>1. Define word processing and mention the name of some word processor.</li> <li>2. Explain document processing and desktop publishing.</li> <li>3. Analyze paragraph formatting and paragraph-alignment.</li> <li>4. Identify spell checking, mailing etc.</li> </ol>
5. Information system in business (t-5)	12. Information and data	<ol style="list-style-type: none"> <li>1. Evaluate data vs. Information</li> <li>2. Explain why business needs information.</li> </ol>
	13. Fundamental of information system in business.	<ol style="list-style-type: none"> <li>1. Explain the benefits and draw backs of information system in business.</li> </ol>
	14. Over view of information system	<ol style="list-style-type: none"> <li>1. Describe over view of information system.</li> </ol>
6. Solving business problems with information system (t-5)	15. Business problems	<ol style="list-style-type: none"> <li>1. Analyze various systems to solving business problems with information system.</li> </ol>
	16. Development information system solution.	<ol style="list-style-type: none"> <li>1. Realize how information system influenced various institutions.</li> </ol>
	17. A system approach to problem solving information system solution.	<ol style="list-style-type: none"> <li>1. Describe system approach to problem solving Information system.</li> </ol>
7. Computer systems (t-13)	18. End user	<ol style="list-style-type: none"> <li>1. Define end user</li> <li>2. Identify its classification</li> <li>3. Describe different tools of end user system.</li> <li>4. Identify multimedia system and its applications.</li> </ol>
	19. Computing	<ol style="list-style-type: none"> <li>1. Define computing</li> <li>2. Describe its classifications</li> <li>3. Define end user computing.</li> <li>4. Explain its classification and different tools.</li> <li>5. Identify enterprise computing.</li> </ol>
8. Information Systems for Business Operations (T-5)	20. Manager's Operation.	<ol style="list-style-type: none"> <li>1. Explain managers' function.</li> </ol>
	21. Business Information System.	<ol style="list-style-type: none"> <li>1. Explain information systems for business operations.</li> </ol>
	22. Transaction Processing System.	<ol style="list-style-type: none"> <li>1. Describe elements of transaction processing system.</li> </ol>

<b>Chapter No &amp; Chapter Title</b>	<b>Number of Classes with Class Title</b>	<b>Learning Outcomes</b>  At the end of the class the students would be able to
9. Information systems for Managerial decision support (T-13)	23. Information System-1	<ol style="list-style-type: none"> <li>1. Define managing information system</li> <li>2. Explain information system department.</li> <li>3. Clarify the importance of information systems for managerial decision.</li> </ol>
	24. Information System-2	<ol style="list-style-type: none"> <li>1. Explain management information system (characteristics, advantages etc.)</li> <li>2. Clarify DSS (characteristics, tools etc.)</li> <li>3. Clarify executive support system.</li> <li>4. Define AI, robotics and cognitive science.</li> </ol>
10. Information System for Strategic Advantage (T-5)	25. Fundamentals of Strategic Advantage.	<ol style="list-style-type: none"> <li>1. Determine fundamentals of strategic advantage.</li> </ol>
	26. Strategic Issues in Information Technology.	<ol style="list-style-type: none"> <li>1. Explain strategic issues in information technology.</li> </ol>
	27. Strategic Applications in Information Technology.	<ol style="list-style-type: none"> <li>1. Explain strategic applications in information technology.</li> </ol>
11. Managing IT (T-5)	28. Enterprise and Global Management.	<ol style="list-style-type: none"> <li>1. Describe requirements for enterprise system.</li> </ol>
	29. Managing Information Resources and Technologies.	<ol style="list-style-type: none"> <li>1. Explain security and control issues in information system.</li> </ol>
	30. Planning and Implementing for Business Change with IT.	<ol style="list-style-type: none"> <li>1. Describe implementing business change with it</li> </ol>