

<b>Lesson Plan for the Month April 2022 to July 2022</b>		<b>Subject : Operating Systems (1-3)</b>	
<b>Name of the Teacher</b>	Mr. Amit Khirbat	<b>Class</b>	B.Sc. II year
09-04-2022 To 16-04-2022	Introductory Concepts: Operating system functions and characteristics		
18-04-2022 To 23-04-2022	Historical evolution of operating systems, Types of Operating System: Real time, Multiprogramming		
25-04-2022 To 30-04-2022	Multiprocessing, Batch processing, Methodologies for implementation of O/S service system calls		
02-05-2022 To 07-05-2022	system programs. Process management: Process concepts, operations on processes		
09-05-2022 To 14-05-2022	Process states and Process Control Block, CPU Scheduling		
16-05-2022 To 21-05-2022	Scheduling criteria, Levels of Scheduling, Scheduling algorithms, Multiple processor scheduling		
23-05-2022 To 28-05-2022	Deadlocks: Deadlock characterization, Deadlock prevention and avoidance		
30-05-2022 To 04-06-2022	Concurrent Processes: Critical section problem, Semaphores, Classical process co-ordination problems and their solutions, Inter-process Communications, Storage Management: memory management of single-user and multi-user operating system.		
05-06-2022 To 12-06-2022	<b>Break</b>		
13-06-2022 To 18-06-2022	Partitioning, swapping, paging and segmentation, Thrashing. File management: File Systems: Functions of the system, File access methods.		
20-06-2022 To 25-06-2022	Allocation methods: Contiguous, allocation, linked, indexed allocation.		
27-06-2022 To 02-07-2022	Directory Systems: Structured Organizations, directory and file protection mechanisms.		
04-07-2022 To 09-07-2022	Revision of all Four Units		

<b>Lesson Plan for the Month April2022 to July 2022</b>		<b>Subject : Visual Basic Programming &amp; Software Engineering (1-6)</b>	
<b>Name of the Teacher</b>	Mr. Amit Khirbat	<b>Class</b>	B.Sc. IIIrd Year
09-04-2022 To 16-04-2022	Software and software engineering: Software characteristics, Software Processes, software crisis		
18-04-2022 To 23-04-2022	Software life cycle models, Waterfall, Prototype, Evolutionary and Spiral Models. Software engineering paradigms, goals and principles of software engineering.		
25-04-2022 To 30-04-2022	Software requirement analysis – Structured analysis, object-oriented analysis and data modeling, software requirement specification, validation.		
02-05-2022 To 07-05-2022	Software requirements Analysis and Specifications: Requirement engineering, requirements analysis using DFD		
09-05-2022 To 14-05-2022	Data Dictionaries and E-R Diagram, requirement documentation, nature of SRS, characteristics and organization of SRS		
16-05-2022 To 21-05-2022	Introduction to VB: Visual & Non-visual programming, Procedural, Object-oriented and event- driven programming languages		
23-05-2022 To 28-05-2022	The VB environment: Menu bar, Toolbar, Project explorer, Toolbox, Properties window, Form designer, Form layout, Immediate window. Event driven programming.		
30-05-2022 To 04-06-2022	Basics of Programming: Variables: Declaration, Types of variables, Converting variables types, Userdefined data types, Scope & lifetime of variables. Constants: Named & intrinsic. Operators: Arithmetic, Relational & Logical operators. I/O in VB: Various controls for I/O in VB, Message box, Input Box, Print statement Software project management: Planning a software project, Software cost estimation, project scheduling, personnel planning, team structure Software configuration management, software quality and quality assurance, project monitoring, risk management.		

05-06-2022 To 12-06-2022	<b>Break</b>
13-06-2022 To 18-06-2022	<p>Design and implementation of software- Software design fundamentals, software design principles, Cohesion and Coupling, Classification of Cohesion and Coupling, Function oriented design, objectoriented Design, design verification, monitoring and control..</p> <p>Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case. Looping statements: Do-loops, For-next, While-wend, Exit statement. Nested control structures. Arrays: Declaring and using arrays, one-dimensional and multi-dimensional arrays, Static &amp; dynamic arrays, Arrays of array. Assignment -II</p>
20-06-2022 To 25-06-2022	<p>Programming with VB: Procedures: General &amp; event procedures, Subroutines, Functions, Calling procedures, Arguments- passing mechanisms, Optional arguments, Named arguments, Functions returning custom data types.</p>
27-06-2022 To 02-07-2022	<p>Working with forms: Adding multiple forms in VB, Hiding &amp; showing forms, Load &amp; unload statements, Activate &amp; deactivate events, Form-load event, menu designing in VB, Database Programming using DAO &amp; ADO, Simple Active X controls.</p>
04-07-2022 To 09-07-2022	Revision of all Units