SYLLABUS FOR THE POST OF SENIOR INSTRUCTOR

	SYLLABUS FOR COMPUTER SCIENCE AND ENGINEERING
SI	Unit Name and Content
No	Problem Solving using C: Design of algorithms for solving problems and use of C language features
1	
2	Object Oriented Programming using C++. reatures of object oriented programming using C++. reatures oriented programming using C++. rea
	interfaces, exception handling, class templates
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3	Internet Programming: Java language leatures, use of AW Land Strain Programming, threads in Java, networking using Java, JDBC, HTML, Javascript, DHTML, DOM, programming, threads in Java, networking using Java, JDBC, HTML, Javascript, DHTML, DOM,
4	Disital Systems: Transistor Logic family, simplification of Doolean Lunctions,
7	design, synchronous sequential logic design, counters, registers
5	design, synchronous sequential logic design, counters, registers Computer Organization: Architecture of 8086/8088 microprocessor, instruction set architecture and processor of the second sec
	Computer Organization: Architecture of 8080/8088 interoprocessor, morate and addressing modes, assembly language programming, RISC, CISC, memory technology, IO subsystem,
6	
	Data structures: Representation and implementation of initial data structures: Representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, representation and implementation of queues, dynamic memory storage management techniques, and the properties of the propertity of the properties of the properties of the properties of the p
	graphs, trees, binary search tress, height balanced trees, scarching and solving, graphs, trees, binary search tress, height balanced trees, scarching and tree algorithms (traversals, searching, (traversals, shortest path, spanning tree, max flow) and tree algorithms (traversals, searching,
	successors) Operating System: Architecture, process management, process synchronization and inter process Operating System: Architecture, process management, and memory management, System V
7	Operating System: Architecture, process management, process synthemical variables of communication, UNIX system calls for process management and memory management, System V
0	11 ONUS Microprocessor Dalatic Hala Hallotta
8	DA 64 transfer vising 8257 DMA controller, system design using interrupt 8257 DMA controller.
9	Disk Controller - CRT controller, microprocessor interfacing techniques Computer Network: Data transmission concepts, OSI and TCP/IP architectures, data encoding, data Computer Network: Data transmission concepts, OSI and TCP/IP architectures, data encoding, data
	link control, Medium Access Control, routing algorithms, transport tayor
	Layer (FTP,SMTP,SNMP,DNS,HTTP)
10	
	and distributed database, storage, querying and transformation of Anna decame
	databases, advanced transaction processing Software Engineering: Software life cycle models, software requirements analysis and specification,
11	Software Engineering: Software life cycle models, software requirement software project management
	software design, software testing and quanty management, software projections, distributed deadlock
12	detection, distributed objects and remote invocation, distributed transactions
	detection, distributed objects and remote invocation, distributed objects and remote invocation,

