

4-YEAR B. TECH. & DUAL DEGREE IN COMPUTER SCIENCE & ENGINEERING

VIII Semester B. Tech - CSE					
Course No.	Name of the Courses	L	T	P	Credit Hrs
CSC18103	Wireless & Mobile Communication	3	0	0	6
CSC181xx	Elective – III	3	0	0	6
CSC181xx	Elective – IV	3	0	0	6
CSC181xx	Elective – V	3	0	0	6
CSC18203	Wireless & Mobile Communication Lab	0	0	2	2
CSC18502	Composite Viva Voce	0	0	0	4
CSC18801	Project	0	0	6	6
TOTAL		12	0	8	36
Contact Hours					20

CSE18106	Distributed Operating Systems	3-0-0
<p>Introduction to Distributed Systems: Distributed Computing System Models, Operating Systems, Goals of Distributed System, Hardware Concept.</p> <p>Message Passing: Desirable features, Issues in IPC, Synchronization, Buffering, Encoding and Decoding, Process Addressing, Failure Handling, Group Communication.</p> <p>Remote Procedure Calls: RPC Model, Transparency of RPC, Implementation of RPC Mechanism, RPC Messages, Marshalling, Server Management (Stateful and Stateless Server), Parameter-Passing Semantics (Call-by-Value, Call-by-Reference), Call-Semantics, Communication Protocols for RPCs, Client-Server Binding, Special Types of RPCs.</p> <p>Distributed Shared Memory: General Architecture of DSM Systems, Design and Implementation Issues of DSM, Structure of Shared-Memory Space, Consistency Models, Replacement Strategy, Thrashing, Advantages of DSM</p> <p>Synchronization: Clock Synchronization, Event Ordering, Mutual Exclusion, Deadlock, Election Algorithms</p> <p>Resource Management: Task Assignment Approach, Load-Balancing Approach, Load-Sharing Approach</p> <p>Process Management: Process Migration, Threads.</p> <p>Distributed File Systems: File Models, File-Accessing Models, File-Sharing Semantics, File-Caching Schemes, File Replication.</p> <p>Security: Potential Attacks to Computer Systems, Cryptography, Authentication, Access Control, Digital Signatures</p>		