Semester	4		
Course	Minor		
Paper Code	B2CS230412T / B2CS230412P		
Paper Title	OPERATING SYSTEMS		
No. of Credits	4		
Theory/ Practical /	Composite		
Composite			
Minimum No. of	5		
preparatory hours per week			
a student has to devote	One		
Number of Modules	One 1. Introduction to operating systems: OS functions, types of		
Syllabus		urrent processing, multiprogramming,	
	2. Introduction to Organization of OS - Processor and user modes, kernels, system calls and introduction to system programs		
	3. Process Management – State of the process, types of resources, process state, threads, Process Scheduling algorithms.		
	4. Memory Management - Physical and virtual address space, Introduction to memory allocation strategies.		
	5. Introduction to Concurrent Processes and deadlock.		
Learning Outcomes		On completion of the course, the students will be able to:	
	1. Understand Operating System Fundamentals		
-		ation of Operating Systems	
	 Understand Process Management Explore Memory Management Understand Concurrent Processes and Deadlock 		
	5. Understand Concurrent P	rocesses and Deadlock	
Reading/Reference Lists 1. A Silberschatz, P.B. Galv		n, G. Gagne, Operating Systems	
8	Concepts, 8th Edition, John Wiley		
	Publications 2008.		
	2. A.S. Tanenbaum, Modern Operating Systems, 3rd Edition,		
	Pearson Education 2007.		
	3. G. Nutt, Operating Systems: A Modern Perspective, 2nd Edition		
	Pearson Education 1997.		
	4. W. Stallings, Operating Systems, Internals & Design Principles ,5th Edition, Prentice Hall of India. 2008		
Evaluation	Theory	Practical	
	CIA: 12	CA: 38	
	Attendance: 3	Attendance: 2	
	Semester Exam: 45		
Paper Structure for	Answer 3 out of 5 of 15 marks each		
Theory Semester Exam			