

**GUJARAT TECHNOLOGICAL UNIVERSITY****Syllabus for Bachelor of Vocation (D.Voc), 5<sup>th</sup> Semester****Branch: Software Development****Subject Name: Operating System****Subject Code: 1250204****With effective  
from academic  
year 2019-20**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			C	ESE (E)	PA (M)	ESE (V)	PA (I)	
3	-	0	3	50	-	-	-	50

**Course Content:**

Unit No.	Content	Hrs
1	<b>System Software:</b> Operating System, Compiler, Interpreter and Assembler;	6
2	<b>Operating System:</b> Need for Operating System, Functions of Operating System (Processor Management, Memory Management, File Management and Device Management), Types of Operating System-Interactive (GUI based), Time Sharing, Real Time and Distributed, commonly used Operating System: UNIX, LINUX, Windows, Solaris, BOSS (Bharat Operating System Solutions); Mobile OS – Android, Symbian, IOS.	26
3	<b>Utility Software:</b> Anti-Virus, File Management tools, Compression tools and Disk Management tools (Disk Cleanup, Disk Defragmenter, Backup).	10
<b>Total Hours:</b>		<b>42</b>

**Suggested Specification table with Marks (Theory):**

Distribution of Theory Marks				
R Level	U Level	A Level	N Level	E Level
5	25	25	10	5

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate and above Levels (Bloom's Taxonomy)

**Reference Books:**

1. Operating System Concepts (8th Edition) by Silberschatz, Peter B. Galvin and Greg Gagne, WileyIndian Edition (2010).Web Technologies, Black Book, dreamtech Press
2. Modern Operating Systems (Third Edition) by Andrew S Tanenbaum, Prentice Hall India (2008)