SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2022-2023

Bachelor of Business Administration
B.B.A (ITM) Semester-III

Course Code	UM03DBBI75	Title of the Course	Fundamentals of Operating Systems
Total Credits of the Course	03	Hours per Week	03

Course Objectives:	1. Students can convenient to use an operating system 2. To understand basics of various types of operating systems

Course Content		
Unit	Description	Weightage*(%)
1.	**Introduction to Operating System** Definition – Software, Types of Software, Introduction to Computer Resources (Input/output devices, CPU, Memory), Introduction to Operating System, Roles of Operating System, Types of Operating Systems, User Interface, Concept of Process and Running Programs, Files and Folders (Organizing, Attributes and Sharing), Introduction to Managing Hardware, Embedded Operating Systems	25%
2.	**Overview of Popular Operating Systems** Introduction to PC Operating Systems, Server Operating Systems, Mobile Operating Systems DOS, UNIX, Macintosh, Windows NT, Windows XP, Windows Vista, Windows 7, Windows 2000 Server, Windows Server 2008, Android, iOS	25%
3.	**Roles/Functions of Operating System** Multiprocessing, Fault Tolerance and Load Balancing, Overview of Data Safety – RAID, Disk Defragmentation, Backup and Recovery, Security (Concept of User and Group, File and Folder permission, Firewall), Workgroups, Domains, and Active Directory, Overview of Server Roles	25%
4.	**Introduction to Linux Operating System** Introduction to Linux, History of Linux, Features of Linux, Strengths and Weaknesses of Linux, Linux Distributions, Basic Commands of Linux (Theory only)	25%

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Teaching-Learning Methodology	ICT Based Teaching Learning Methodology

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / MCQ (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quiz, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Understands the different services provided by Operating System at different level
2.	They learn real life applications of Operating System in every field
3.	Able to use various operating systems with easiness

Suggested References:	
Sr. No.	References –
1.	Peter Norton – "Introduction to Computers"
2.	Alan Carter – "Windows 2000 MCSE Study System"
3.	Pfaffenberger – "Linux Commands Instant Reference"
4.	Silberschatz & Galvin – "Operating System Concepts"
5.	Sumitabha Das – "UNIX Concepts and Applications"

On-line resources to be used if available as references material:
On-line resources:

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