

FAKULTI TEKNOLOGI DAN KEJURUTERAAN

PROGRAM	Diploma in IT System Support			
COURSE NAME	Operating System			
COURSE CODE	DTC 2013			
CREDIT HOUR	3			
SYNOPSIS	The operating system software is most important to be understood by the student that lead to computing science and information technology. This is due to operatio of the control system of the organization, the work force and the ability of computer system. If the microprocessor is often regarded as the brains of computers, the operating systems are that acts as a "soul" of a computer system. There are experts expressed by mastering the operation of our system actuall works in the computer system.			
COURSE STRUCTU	RE			
CHAPTER	TOPICS			
1	Introduction 1.1 What is the Operating System? 1.2 Mainframe System 1.3 Desktop System 1.4 Multiple Processor Systems 1.5 Distribution System 1.6 Real-Time Systems			
2	Structure of Computer Systems 2.1 Operation of Computer Systems 2.2 Put Structure output 2.3 Protective Equipment			
3	Operating System Structure 3.1 System Components 3.2 Operating System Services 3.3 Call System 3.4 System Events			
4	Process 4.1 Concept 4.2 Scheduling			
5	CPU Scheduling 5.1 Concept 5.2 Process Scheduling			

100
UNIII

	UNITY
6	Memory Management
	6.1 Concepts
	6.2 Satisfaction
	6.3 Provision of Continuous memory
	6.4 Addressing
	6.5 Segmentation
7	Virtual memory
	7.1 Concept
	7.2 Prosecute page
	7.3 Replacement Page
	716 Replacement age
8	File System Implementation
	8.1 Concept
	8.2 File Allocation Methods
	8.3 Free Space
	8.4 Management
9	File System Interface
	9.1 File Concept
	9.2 Access Methods
	9.3 Directory Structure
	9.4 File System Mounting
	9.5 File Sharing
	9.6 Protection
10	I/O System
	10.1 I/O Hardware
	10.2 Application I/O interface
11	Protection
	11.1 Goals of Protection
	11.2 Principles of Protection
	11.3 Domain of Protection
12	Security
	12.1 The Security Problem
	12.2 Program Threats
	12.3 System and Network Threats
13	The Linux System
	13.1 Linux History 687
	13.2 Design Principles 692
	13.3 Kernel Modules



References:	1. Andrew S Tanenbaum (2016). Modern Operating Systems. Pearson		
	2. William Stallings (2017). Operating Systems: Internals and Desi	gn Principles ,	
	9th Edition. Pearson		