FAKULTI TEKNOLOGI DAN KEJURUTERAAN

PROGRAM	Diploma in IT System Support
COURSE NAME	LINUX SERVER PROFESSIONAL CERTIFICATION LEVEL 1 (LPIC-1) : MODULE LPI 101
COURSE CODE	DTS 4123
CREDIT HOUR	3
SYNOPSIS	This course covers fundamental Linux skills such as file management and manipulation, text processing, command line use, package management, file systems, hardware, and many more. This course is a study of Linux system administration, including how to manage system resources (users, group users, and system storage). By the completion of this course, you will be able to configure, secure, manage users, and apply user- and host-based security

COURSE STRUCTURE

CHAPTER	TOPICS
1	**System Architecture** 1.1 Determine and configure hardware settings 1.2 Boot the system 1.3 Change runlevels / boot targets and shutdown or reboot system
2	**Linux Installation and Package Management** 2.1 Design hard disk layout 2.2 Install a boot manager 2.3 Manage shared libraries 2.4 Use Debian package management 2.5 Use RPM and YUM package management
3	**GNU and Unix Commands** 3.1 Work on the command line 3.2 Process text streams using filters 3.3 Perform basic file management 3.4 Use streams, pipes and redirects 3.5 Create, monitor and kill processes 3.6 Modify process execution priorities 3.7 Search text files using regular expressions 3.8 Perform basic file editing operations using vi
4	**Devices, Linux File systems, File system Hierarchy Standard** 4.1 Create partitions and file systems 4.2 Maintain the integrity of file system 4.3 Control mounting and unmounting of file systems 4.4 Manage disk quotas 4.5 Manage file permissions and ownership 4.6 Create and change hard and symbolic links 4.7 Find system files and place files in the correct location

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