

Course Title:	Preparing for the LPI 102
Course Code:	CSE342
Program:	Master Degree In Computer Engineering
Department:	Computer Engineering
Course coordinator:	Mrs. Saida AKERMI
Institution:	Private Higher School of Engineers of Gafsa (ESIP)

A. Course Identification

1. Credit hours: 1.5(00-0-1.5)
2. Course type
a. University College Department Others
b. Required Elective
3. Level/year at which this course is offered: 2.1/3
4. Pre-requisites for this course : digital circuits (CSE122), Data structure (CSE131),
Operating system (OS), LPI 101(CSE231)

1. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Self- study	Total workload
1	Traditional classroom			
2	Blended	22.5		
3	E-learning		14.5	37
4	Distance learning			
5	Other ()			

2. Contact Hours (based on academic semester)

No	Activity	Contact Hours
1	Lecture	
2	Laboratory/Studio	22.5
3	Tutorial	
4	Others(specify)	-
	Total	22.5



B. Course Objectives and Learning Outcomes

Course Description

LPI 102 is one of two parts of the Linux Professional Institute (LPI) Level 1 certification. This certification is internationally recognized and is designed to validate the skills of IT professionals in administering Linux systems.

Course Main Objective

Students will be able to :

Understand how Linux System works

Master Basic Network Services

Linux Web server Configuration

Install and implement many server or role

Learn how to protect services

Be able to put on production windows server on network

1. Course Learning Outcomes

	CLOs	AlignedPLOs
1	Knowledge and Understanding	
1.1	✓ Understand how Linux System works	
1.2	✓ Linux Web server Configuration	PLO.K1
1.3	✓ Linux Web server Configuration	
2	Skills	
3.1	✓ Install and implement many server or role	
3.2	✓ Learn how to protect services	PLO.S3
2.2	✓ Be able to put on production windows server on network	PLO.S6

C. Course Content

No	No List of Topics	
1	Classroom Lecture and Guided Work	10
	1. Install Windows Server 2016, DHCP, DNS	
2	Objectives: -install and implement many server or role to be able to put them on production in network enterprise.	12.5
K	2.Install and configure Active Directory Objectives: -To be able to manage every machine in network enterprise	eur
	Total	22.5

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D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge and Understanding		
PLO.K1	 ✓ Understand how Linux System works ✓ Master Basic Network Services ✓ Linux Web server Configuration 	 Lecturing Class discussion Labdemonstration Class discussion 	Assignments, Quizzes , Exams,
2.0	Skills		
PLOS3	 ✓ Install and implement many server or role ✓ Learn how to protect services 	LecturingLabdemonstrationClass discussion	Assignments, report, Quizzes , Exams,,
PLO.S6	✓ Be able to put on production windows server on network	LecturingLabdemonstrationClass discussion	Assignments, Report, Quizzes , Exams

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Practical Work (written or oral)	Weekly	00%
2	Quizzes, Homework assignments	Random	00%
3	First midterm	08	00%
4	Final Exam	16	100%

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- 1- Office hours
- 2- Blackboard interface

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F. Learning Resources and Facilities

1. Learning R	lesources
RequiredTextbooks	 Sébastien ROHAUT, « Préparation à la certification LPIC-1 », Examens LPI 101 et LPI 102, 5ème édition 2017 ,838 pages. Kay A. ROBBINS, S. ROBBINS. UNIX Systems Programming: Communication, Concurrency and Threads, 2003, Prentice-Hall. W. RICHARD STEVENS, Stephen A. RAGO. Advanced Programming in the UNIX Environment, 2nd Edition, 2005, Addison-Wesley. A. SILBERSCHATZ, P. GALVIN, G. GAGNE. Operating System Concepts. International Student Version, 8th Edition, Wiley, February 2009. A. SILBERSCHATZ, P. GALVIN, G. GAGNE. Operating System Concepts with Java, 8th Edition, Wiley, February 2010. Andrew S. TANENBAUM. Systèmes d'exploitation, 3^{ème} édition, Octobre 2008, Edition Pearson Education. U. RAMACHANDRAN, William D. LEAHY Jr. Computer Systems: An Integrated Approach to Architecture and Operating Systems, First Edition, July 2010, Addison Wesley. A. Tanenbaum. Modern Operating Systems, 1992, Computer Science Benoît Semelin, « Astrophysique et instrumentations associées ». Cours UNIX,2006
Essential References Materials	1.
Electronic Materials	 Online resources and LPI 102 practice exams Digital lecture materials and interactive tutorials
Other Learning Materials	 https://www.eyrolles.com/Informatique/Theme/239/theories-des- systemes-d-exploitation/ https://www.bestcours.com/systeme-exploitation/ <u>http://www.advancedlinuxprogramming.com/alp-folder</u> https://www.lpi.org/our-certifications/lpic-1-overview

2. Facilities Required

Item	Resources
	Classroom board
Accommodation	Computer lab with the necessary software
	Internet access
Technology Resources	Data projector



G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and	Students, course coordinator, Alumni,	Direct/Indirect
assessment.	Employers	Direct/Indirect
Extent of achievement of course	Faculty, Program Leaders, quality	Direct
learning outcomes.	department	Direct
Quality of Learning resources	Faculty, Program Leaders,	Direct, Indirect
Teaching and learning quality and effectiveness.	Students, Faculty Program Leaders,	Direct, Indirect

H. Specification Approval Data

Council / Committee	Computer Engineering Council
Date	11/09/2023

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