ITE1008	Open Source Programming	L T P J C
Pre-requisite	CSE1001	3 0 0 4 4 Syllabus version
Caura Objectives		1.0
Course Objectives	nd the free and open source technologies	
	web pages using PHP and Perl.	
	rious tools for developing web pages.	
<b>Expected Course C</b>	Outcome:	
1) Differentiate	e between open source software and free software	
2) Build applic	rations software using Open Source Software	
3) Demonstrate	e the knowledge of fundamental concepts related to op	pen source technologies.
4) Demonstrate	e the knowledge of fundamental concepts using open	source databases.
5) Provide solu	utions to reliability, security, scalability and robustnes	s in Internet.
	develop a web crawler to traverse a local repository o	
7) Design of w		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8) Develop app time web ap	plications targeted for Internet considering the recenplications.	t exploration such as real
	r	
Student Learning	Outcomes (SLO): 2,5	
	r understanding of the subject related concepts and of	contemporary issues
[5] Having design	n thinking capability	
Module:1	OSS Fundamentals	4 hours
	ce Philosophy -OSD – Licensing - Open Source	
Source vs Free Soft	ware – Copyright Vs. Copyleft.	
Module:2	Open Source Technologies rs – browsers – packages.	4 hours
Open source server	.s - blowsels - packages.	
Module:3	Basic PHP	7 hours
	ng Path -Overview - Basics - GUI Programming - A	
Exception Handling	<del>,</del>	
Module:4	Open Source Data Base	6 hours
Introduction to MY	SQL -Data types - Queries-Interfaces with PHP	
Module:5	Advanced PHP	6 hours
OUPS – File Upload	ding - Regular Expressions - Sending Mail – Cookies	– Session Handling

Module:6	Perl				8 hours	
Introduction – States	ments – Arrays – Stri	ings – File Handlin	ıg.			
Module:7 Tools for OSS		OSS			7 hours	
Moodle: Installation	n – Themes – Cour	rse & Activity –	File Uploa	ding. Eclli	pse - IDE PHP:	
Creating Project -	Adding files to Rep	ository – Parsing	functional	ity – Execu	iting the project.	
Introduction to R-Pr	ogramming					
Module:8	Contempora	ry issues:			3 hours	
Total Lecture hours:					45 hours	
Text Book(s)						
1. Micheal K. Glas	s, Rommnle Scouarn	ec, Beginning PHF	P, Apache,	MYSQL W	eb	
Development, W	iley Dream Tech pul	blishing Inc. New l	Delhi 2010	•		
Reference Books						
1. William Rice, M	loodle E-learning Co	urse Development,	Packt Pub	lishing, Thi	rd Edition 2015.	
2. Larry Wall, Tom	n Christiansen & Ran	dal L. Schwartz, Pr	rogrammin	g Perl, Fou	rth Edition,	
O'Reilly, 2012.						
3. Gosselin, Diana	Kokoska, Robert Eas	ster Brooks, PHP P	rogrammir	ng with My	SQL, Second	
	Technology, 2010.					
Recommended by Board of Studies 0			05-0	05-03-2016		
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