

Birla Institute of Technology & Science, Pilani
SDET Unit
Centre for Software Development
First Semester: 2009-2010

Course Handout

Course #	CSD L0101
Course Title	LAMP (Linux Apache MySQL and PHP programming)
Instructor	Ajay Rungta [Email: rungta.ajay@bits-pilani.ac.in]
Website	http://sdetu/csd/courses/CSDL0101/
Google Group	http://groups.google.com/group/lamp_csd_bitspilani/
Hours	Tuesday & Thursday [5.30 – 7 pm]
Room	5101 [LTC]

Objective: To be able to setup a web development platform using Open Source Technology and develop dynamic web applications on Linux using PHP as server side scripting language, MySQL as Database Management System and Apache as Web Server.

Text Book:

T1. Timothy Boronczyk, Elizabeth Narnmore, Jason Gerner, Yann Le Scouarnec, Jeremy Stolz, Michael K. Glass: *Beginning PHP6, Apache, MySQL Web Development*, Wrox 2009

T2. W. Jason Gilmore: *Beginning PHP & MySQL - From Novice to Professional*, Apress, 3rd Edition, 2008

Course Plan

Lecture #	Topic(s)	Reference*
1-2	Introduction to Linux as Platform for Web	Class Notes
3-4	Designing Web Pages (HTML Basics)	Class Notes
5	Introduction to JavaScript/CSS	Class Notes
6-8	PHP Fundamentals	T1:Ch2, T2:Ch 3
9	Forms, Sessions and Cookies	T1:Ch 5, 12, T2:Ch 13, 18
10	PHP and MySQL	T1:Ch 3,6,10, T2:Ch 25, 26
11	Debugging and Error Handling	T1:Ch 9
12	File Handling	T2:Ch 10, 15
13	Apache Configuration	T1:Ch1, T2:Ch 2
14-15	PHP and MySQL/ODBC	T1:Ch 3,6,10, T2:Ch 25, 26
16	PHP and XML	T2:Ch 20
17-18	PHP and AJAX (An Overview)	Class Notes
19	PHP and PEAR (An Overview)	T2:Ch 11
20-21	PEAR and PHP Frameworks (An Overview)	T2:Ch 24
22	Logging, Monitoring and Securing Server	T1:Ch 17

Evaluation Scheme

Component	Duration	Type	Weight	Date, Time & Venue
Quizzes (Best 4 out of 5)	15-30 mins.	Closed Book	10 %	6-10-2009, 15-10-2009, 22-10-2009, 5-11-2009, 12-11-2009
Assignments (2)	-	-	20 %	08-10-2009, 05-11-2009
Practice & Evaluative Labs	60 mins.	Open Book	20 %	TBA
Mid Semester	90 mins.	Closed Book	20 %	12-10-2009
End Semester	120 mins.	Partly Open Book	30 %	21-11-2009

*TBA – To be announced

Notices & Communications: All notices shall be displayed either at the course website or IntraBITS. The LAMP Google Group will be used to send out mails.

http://groups.google.com/group/lamp_csd_bitspilani/

Course Materials: All the course materials shall be available either at the course website or course page of the IntraBITS Portal.

Chamber Consultation Hours: Mon 5.30 pm to 6.30 pm, 3258 [IBM Lab]

Note: The above course plan/scheme is subject to some changes/modifications as per the instructor. This is offered only as a study guide. The pace of each class differs according to the instructional needs of the students in the class.

Instructor-in-Charge
LAMP