CENTRE FOR TECHNICAL EDUCATION

BITS PILANI, K.K.BIRLA GOA CAMPUS
INSTRUCTION DIVISION
SECOND SEMESTER 2012-2013

Course Handout

Date: 15/11/2012

Course No.:

Course Title: Web Development

Instructor-In-Charge: Deepanshu Mehndiratta

Team Members: Shashwat Kumar, Mukesh Kumar, Shubham Agrawal, Saransh Sinha

Scope and objective of course:

Web development is an industry which keeps on continually evolving, with new technologies replacing older technologies with a lot of scope for new projects. So instead of following a traditional patterns of education the course will be run with mentored project approach.The students will be divided in group of 4 and will be assigned a project under a mentor in the beginning.
The mentor will be one of the team members who will help them in completing the project. Then in the sessions we will let them go through all the languages and topic which will lead them in finishing the project. The mentors will help them understand the aspect of the session which will be critical for them in their project.

Course Plan:

Note: 1 session is of 2 hours

S. No.	Topic To be Covered	References	Sessions
1	Introduction		1
2	HTML Fundamentals		2
3	Information Architecture & Wireframing		1

4	CSS		2
5	Responsive Design		1
6	Typography		1
7	JavaScript & jQuery		4
8	Web Design Basics		1
9	How the Web Works (Introduction to HTTP and Web Applications)		1
10	How to Have Users (Getting and processing user input)		2
11	How to Manage State (Databases and persistent data)		3
12	Whom to Trust (User authentication and access control)		4
13	How to Connect (Web applications as services, using APIs)		2
14	How to Serve Millions (Scaling, caching, optimizations)		3

Evaluation Scheme:

Continuous Evaluation

Attendence/Quizes: 20%
Mentor-Mentee relationship: 20%
Mid Sem Project Evaluation: 20%
Final Project Completion: 40%

Refrences:

- http://www.w3schools.com/
- http://php.net/
- http://www.tuxradar.com/practicalphp