

# Sample Course Outline

BSc in It Degree Program

Faculty of computing

Sri Lanka institute of Information Technology

Course title : Internet & Web Technologies.

Course code : IT1100

Credit value : 04

Status : Mandatory

Year/ Level : Year 01

Semester : 02

Theory: Practical : Independent learning: 40:40:40

Other : Pre- requisite course (s) : None

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## **Aim of the Course:**

To provide the students with information needed to learn UI design principles, best practices and methods to enhance the web usability.

## **Intended Learning Outcome:**

On the successful completion of this course, the student should be able to;

1. Describe the concepts & technologies associated with the internet & related applications.
2. Explain fundamentals of e- commerce application domain along with security & privacy concerns and supportive web technologies.
3. Use modern markup language & presentation technologies to design web interfaces.
4. Implement web applications Using client & sever side scripting languages.
5. Apply standards, UI design principles & best practices to enhance usability of a web application development.
6. Explain the important of web standards, digital content and usability & accessibility initiatives in web related applications.

## Course Catalogue

Concepts & technologies associated with the internet applications; Social media; e- commerce and other web-based system; Implementation technologies (HTML / CSS / Java script / PHP); web standards, Usability & accessibility; Information security & privacy on the internet.

### Session Breakdown & learning Activities.

Topic	Topic / Sub topic	No of hours			Teaching method	Assessment Criteria	ILO alignment
		T	P	IL			
1	Concepts & technologies associate with the internet applications.	2	3	1	Lecture / Handout 1		
2	e- commerce & other web based systems.	2	1	1	Lecture / Handout 2		
3	Student group work on assigned topics to prepare report.	-	-	4	CA 1: Group Report submission	10% of Final marks	
4	Implementation technologies (HTML/CSS)	4	6	8	Lecture		
5	Implementation technologies (Java script)	4	6	10	Lecture		
6	Mid semester examination with MCQs.	-	-	6	CA 2: Mid exam  With MCQs	20% of Final marks	
7	Implementation technologies (PHP)	6	9	15	Lecture / Handout 3		

8	Web standard usability & accessibility.	2	3	5	Lecture / Handout 4		
9	Information security & privacy on the internet.	2	-	2	Lecture / Handout 5		
10	Student work on a group project and present it.	-	3	10	CA3: Group project Presentation & viva	20% of Final marks	
11	Final examination with a written paper.	-	-	12	EA1: Final Exam	50% of Final marks	

### Linking Program Outcomes with ILOs

###Strongly lined

##Medium linked

#weakly linked

	PLO1	PLO2	PLO3	PLO4	PLO5
ILO1					
ILO2					
ILO3					
ILO4					
ILO5					
ILO6					

## **Teaching Methodology**

- Interactive Teaching session (ITS) – 22 hours  
2 Hrs per week.
- Supplementary lecture support materials – distribute on selected key areas, including web based systems, web implementation technologies, web standards and usability.
- Project group presentation & viva.
  - Specific topics assigned to groups and they have to develop a fully functional website.
  - Time duration for presentation – 20 minutes & viva – 10 minutes (per group)

## **Mode of Assessments**

### **Continuous Assessment (CA):**

Activity CA1: Group report submission on the topics assigned. (100%)

Activity CA2: Mid semester examination 1-hour online exam covering 30 MCQs. (100%)

Activity CA3: Final project presentation & viva on the topic assigned. (100%)

### **End Semester Assessment (EA):**

Activity EA1: End semester examination- 3hour paper covering structured essay type questions (10%)

2 essay type questions (40%) and one programming based question (50%)

(100% total marks)

## **Final Grade**

50% from CA + 50 from EA

50% (10% of CA1+20% of CA2 + 20% of CA3) + 50% (50% of EA1)