

DEPARTMENT OF COMPUTER APPLICATIONS
NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI

COURSE PLAN – PART I			
Name of the programme and specialization	MCA		
Course Title	Web Technology		
Course Code	CA731	No. of Credits	3
Course Code of Pre-requisite subject(s)	CA716,CA726		
Session	July 2018	Section (if, applicable)	A / B
Name of Faculty	Dr.S.R.Balasundaram	Department	CA
Email	blsundar@nitt.edu	Telephone No.	+91-431-250 3738
Name of Course Coordinator(s) (if, applicable)	-		
E-mail	-	Telephone No.	-
Course Type	<input checked="" type="checkbox"/> Core course		<input type="checkbox"/> Elective course
Syllabus (approved in BoS)			
<p>Web essentials – W3C - clients – servers - communication – markup languages – XHTML – simple XHTML pages style sheets – CSS</p> <p>Client side programming – Java script language – java script objects – host objects</p> <p>Browsers and the DOM</p> <p>Server side programming – Java servlets – basics – simple program – separating programming and presentation – ASP/JSP - JSP basics ASP/JSP objects – simple ASP/JSP pages.</p> <p>Representing Web data – data base connectivity – JDBC – Dynamic Web pages – XML – DTD – XML schema – DOM – SAX – XQuery - Building Web applications - cookies – sessions – open source environment – PHP – MYSQL –case studies.</p> <p>Middleware Technologies – Ecommerce – Architectures – Technologies – Ajax – Advanced Web Technologies and Tools.</p>			
COURSE OBJECTIVES			
<ul style="list-style-type: none"> • To learn the concepts web technologies; develop and deploy effective web applications; 			
COURSE OUTCOMES (CO)			

Course Outcomes	Aligned Programme Outcomes (PO)											
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
1. Develop client side and server side applications.	M	H	H		H		H	M				
2. Design and develop enterprise applications.		H	H		H							
3. Apply advanced tools and middleware technologies for effective application development.		H	H		H							

COURSE PLAN – PART II

COURSE OVERVIEW

This course deals with the major recent developments in Internet & Web technology. It explains the principles of Client server communications and web design such as HTML, XHTML and their elements, forms, graphics and CSS. It focuses on the architecture of Java Script and their backbones to develop the webpages for their own. It includes the chances of knowing Server-side Scripting like ASP/JSP. It explains the open source environment like PHP and MYSQL. It defines connecting databases with all Scripting languages.

COURSE TEACHING AND LEARNING ACTIVITIES

S.No.	Week/Contact Hours	Topic	Mode of Delivery
1	Week 1	Class-I	Web essentials
2		Class-II	W3C-Clients,Servers
3		Class-III	Communication
4	Week 2	Class-I	Markup Languages
5		Class-II	XHTML-simple XHTML pages style sheets
6		Class-III	Cascading Style Sheet
7	Week 3	Class-I	Client side programming
8		Class-II	Java Script Language
9		Class-III	Java Script Objects
10	Week 4	Class-I	Host Objects Browsers and the DOM
11		Class-II	Server Side Programming

12		Class-III	Java Servlets	Power Point Presentation
13	Week 5	Class-I	Basics of Servlets	Power Point Presentation
14		Class-II	Simple Programs in Java Servlets	Power Point Presentation
15		Class-III	Separating Programming and Presentation	Power Point Presentation
16	Week 6	Class-I	Introduction of ASP/JSP	Power Point Presentation E-Learning
17		Class-II	JSP basics	Power Point Presentation
18		Class-III	ASP/JSP Objects	Power Point Presentation
19	Week 7	Class-I	Simple ASP/JSP pages	Power Point Presentation
20		Class-II	Representing Web Data	Power Point Presentation E-Learning
21		Class-III	Introduction to Database Connectivity, JDBC	Power Point Presentation
22	Week 8	Class-I	Dynamic Web Pages, XML	Power Point Presentation
23		Class-II	DTD, XML Schema	Power Point Presentation
24		Class-III	DOM (Document Object Model)	Power Point Presentation
25	Week 9	Class-I	SAX(Simple API for XML)	Power Point Presentation
26		Class-II	XQuery	Power Point Presentation
27		Class-III	Building Web Applications	Power Point Presentation
28	Week 10	Class-I	Cookies, Sessions	Power Point Presentation E-Learning
29		Class-II	Open Source Environment	Power Point Presentation
30		Class-III	PHP	Power Point Presentation
31	Week 11	Class-I	MYSQL	Power Point Presentation E-Learning
32		Class-II	Case Studies	Power Point Presentation
33		Class-III	Middleware Technologies	Power Point Presentation
34	Week 12	Class-I	Ecommerce	Power Point Presentation
35		Class-II	Architectures - Technologies	Power Point Presentation
36		Class-III	Architectures - Technologies	Power Point Presentation E-Learning
37		Class-I	AJAX	Power Point Presentation

38	Week 13	Class-II	Advanced Web Technologies and Tools	Power Point Presentation
39		Class-III	Advanced Web Technologies and Tools	Power Point Presentation E-Learning

COURSE ASSESSMENT METHODS (shall range from 4 to 6)

S.No.	Mode of Assessment	Week/Date	Duration	% Weightage
1	Cycle Test –1	As per schedule	60 mins	20
2	Cycle Test –2	As per schedule	60 mins	20
3	Assignment/Seminar	7 th to 10 th week	-	10
CPA	Compensation Assessment*	14 th week	60 mins	20
4	Final Assessment *	As per schedule	180 mins	50

*mandatory; refer to guidelines on page 4

COURSE EXIT SURVEY (mention the ways in which the feedback about the course shall be assessed)

1. The students through the class rep may give their feedback at any time to the course co-ordinator which will be duly addressed.
2. The students may also give their feedback during Class Committee meeting.
3. Online Feedback in the institute MIS will be available on the last working day to all the students and the feedback on various rubrics will be analyzed.
4. The COs will be computed after arriving at the final marks.

COURSE POLICY (preferred mode of correspondence with students, compensation assessment policy to be specified)

MODE OF CORRESPONDENCE (email/ phone etc)

The course handling faculty will be available at Room No:119, Dept of Computer Applications (Lyceum Building, Ground Floor)

Phone : +91-431-250 3738

Mail Id: blsundar@nitt.edu

COMPENSATION ASSESSMENT POLICY

One Compensation assessment will be conducted for students who were absent for cycle tests due to genuine reasons.

ATTENDANCE POLICY

- At least 75% attendance in each course is mandatory.
- A maximum of 10% shall be allowed under On Duty (OD) category.
- Students with less than 65% of attendance shall be prevented from writing the final assessment and shall be awarded 'V' grade.

ACADEMIC DISHONESTY & PLAGIARISM

- Possessing a mobile phone, carrying bits of paper, talking to other students, copying from others during an assessment will be treated as punishable dishonesty.
- Zero mark to be awarded for the offenders. For copying from another student, both students get the same penalty of zero mark.
- The departmental disciplinary committee including the course faculty member, PAC chairperson and the HoD, as members shall verify the facts of the malpractice and award the punishment if the student is found guilty. The report shall be submitted to the Academic office.


ADDITIONAL INFORMATION

The students can get their doubts clarified at any time with their faculty member with prior appointment

FOR APPROVAL


Dr. S.R. Balasundaram
Course Faculty


Dr. B. Janet
CC Chairperson


Dr. S.R. Balasundaram
HOD/CA/NITT