

CP457: ADVANCED WEB PROGRAMMING
CREDITS = 5 (L=3, T=0, P=2)

Course Objective:

To learn the advanced web designing concepts using various frameworks

Teaching and Assessment Scheme:

Teaching Scheme			Credits	Assessment Scheme				Total Marks
L	T	P	C	Theory		Practical		
				ESE	CE	ESE	CE	
3	0	2	5	70	30	30	20	150

Course Contents:

Unit No.	Topics	Teaching Hours
1	<u>Review of PHP and MYSQL Programming:</u> PHP Programming, Function accessing MySQL from PHP, create, delete, insert, searching from the table, Session.	06
2	<u>AJAX:</u> AJAX basics, Limitation of traditional web applications, Item for Implementing AJAX, DOM, Steps to place asynchronous request to the server, accessing forms elements, accessing JavaScript code in to another file, XML Http Post requests, AJAX, PHP, and MySQL all combined for accessing databases, Checking the data field, validating Forms data, storing the data record if validated.	10
3	<u>Node.JS:</u> Introduction, Environment setup, package manger, event loop, buffer, stream, File System, restful API <u>AngularJS:</u> Introduction, Expression, modules, controller, filters, services.	09
4	<u>JSON:</u> JSON, Installing JSON, JSON Data Type, receiving data in JSON format, Accessing JSON responses through insertion, using library for encoding, Type of response data, receiving XML Response, Document object model.	08

Unit No.	Topics	Teaching Hours
5	<u>Web Services:</u>	
	Introduction to Web services, Methods of producing and consuming web services, tools for adding SOAP functionality in PHP, NuSOAP, WSDL Document, web Services accessing database.	06
6	<u>PHP Frameworks:</u>	
	Laravel, CodeIgniter, CakePHP.	06
TOTAL		45

List of References:

1. Harwani, "Developing Web Applications in PHP and AJAX", McGrawHill
2. APaul J. Deitel, Harvey M. Deitel, Abbey Deitel, "Internet & World Wide Web How to Program", Deitel series, 5th edition
3. Jason Gilmore, "Beginning PHP and MySQL From Novice to Professional", 4th Edition, Apress Publications
4. Steven Holzner, "Ajax : A Beginner's Guide, McGrawHill
5. Brad Dayley, "Node.js, MongoDB, and AngularJS Web Development", Pearson.

Course Outcomes (COs):

After successful completion of this course students will be able to ...

1. Implement web application using php having database connectivity
2. Understand and build rich user interface based application with AJAX
3. Develop responsive application using Node.Js and AngularJS
4. Develop web services based application using php.
5. Understand and use PHP frameworks.
6. Develop web applications based on the concepts learnt.