



**C. U. Shah University, Wadhwan City**  
**Faculty of Computer Science**  
**Name of Program: Bachelor of Computer Application**  
**(BCA)**  
**Semester : III**  
**W.e.f. June-2015**  
**Teaching & Evaluation Scheme**

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester							
			Th	Tu	Pr	Total		Theory				Practical			Total Marks
								Sessional Exam		University Exam		Internal		Uni.	
								Marks	Hrs	Marks	Hrs	Pr	TW	Pr	
4	4CS03BOP2	Open Source Web Development	4	-	-	4	4	30	1.5	70	3	-	-	-	100

**Objectives:**

At the end of the syllabus student can develop dynamic web site using PHP

**Pre-requisites:**

Student should have the knowledge of basic PHP Programming.

**Course Outline:**

Ch. No	Chapter Name	Topics	Lect. Hours
1	GD Library and PDF Creation	Introduction to GD Library, GD Library Functions: gd_info(), imagecreate(), imagecolorallocate(), imagestring(), imagestringup(), imageline(), imagedashedline(), imagerectangle() imagefilledrectangle(), imageellipse() imagefilledellipse(), imagepolygon() imagefilledpolygon(), imagearc() imagefilledarc(), imagegif(), imagejpeg() imagepng(), imagedestroy(), PDF Creation	8
2	JQuery Basic	Introduction to JQuery Obtaining/Accessing the jQuery Library jQuery Syntax jQuery Selector jQuery Events <b>jQuery Effects:</b> (hide, show, fade, slide, animate, stop, Callback, chaining)	8
3	Advance jQuery	<b>jQuery HTML</b> jQuery get, set, add, remove, CSS classes, CSS(), Dimensions <b>jQuery Traversing:</b> jQuery Ancestors, jQuery Descendants, jQuery Siblings, jQuery filtering	8

4	Ajax	Introduction to AJAX,Process of AJAX works, XMLHTTPRequest,XMLHTTPResponse, Onreadystatechange event,AJAX and PHP, AJAX and Databases,AJAX Live Search, JQuery AJAX Intro,jQuery Load,jQuery Get/Post	10
5	PHP mySQLi	Introduction to mySQLi, Difference between MySQL & MySQLi, Establishing a database connection using OOPs MySQLi,Preparing a database query, Passing query parameters, Setting a destination for the query result, Executing the query with MySQLi, Fetching the results	5
6	JSON	Introduction to JSON, JSON Syntax, JSON DataTypes, JSON Objects, JSON Schema, JSON Comparison, JSON with PHP	5
7	Smarty	Smarty Introduction,Variable, Variables assigned from PHP, Variables loaded from config files, Variable Modifiers: capitalize, lower, upper, truncate,count_characters, count_words, date_format, nl2br, replace Built in Function:config_load, foreach, foreachelse, include, if,elseif,else, section, sectionelse Custom Functions:assign, counter, cycle, eval, fetch, html_checkboxes, html_image,html_options, html_radios, html_table, html_select_date,html_select_time,	9
8	MVC Architecture	Understanding MVC, Model, View, Controller MVC in PHP	2
		<b>Total</b>	<b>55</b>

#### Reference Books:

1. PHP jQuery Cookbook, Vijay Joshi, Packt Publishing, ISBN 978-1-849512-74-9
2. jQuery 1.3 with PHP, Kae Verens, Packt Publishing, ISBN 978-1-847196-98-9
3. Sams Teach Yourself Ajax, JavaScript, and PHP All in One, Phil Ballard, Michael Moncur, ISBN 978-0-672-32965-4
4. Beginning Ajax with PHP From Novice to Professional, Lee Babin, Apress Publication, ISBN -13978-1-59059-667-8
5. AJAX and PHP Building Responsive Web Applications, Cristian Darie, Bogdan Brinzarea, Packt Publishing,ISBN 1-904811-82-5
6. Object-Oriented Programming with PHP5, Hasin Hayder, Packt Publishing, ISBN 978-1-847192-56-1
7. Pro PHP MVC, Charis Pitt, Apress publication