

Bachelor of Computer Application
(Semester - 1 and Semester - 2)
Saurashtra University
Effective from June – 2016

CS-08: WEB PROGRAMMING

Objective:

- To learn web programming
- Learn to develop web site using PHP

Unit No.	Topic	Detail
1	Web Programming	<ul style="list-style-type: none"> • Static and Dynamic Web • Client side & Server Side Scripting • Introduction to other server side languages • Webserver (IIS & Apache) • HTTP & HTTPS protocol • FTP • Web Hosting, Virtual Host, Multi-Homing • Distributed Web Server Overview, • Document Root
	Web Services	<p>XML and JSON</p> <ul style="list-style-type: none"> • Introduction to JSON • Installation & Configuration • Resource Types • JsonSerializable • JSON Functions : json_decode, json_encode
2	PHP Basic	<ul style="list-style-type: none"> • Introduction to PHP • PHP configuration in IIS & Apache Web server • Understanding of PHP.INI file • Understanding of PHP .htaccess file • PHP Variable • Static & global variable • GET & POST method • PHP Operator • Conditional Structure & Looping Structure • Array • User Defined Functions: <ul style="list-style-type: none"> ▪ argument function ▪ default argument ▪ variable function ▪ return function • Variable Length Argument Function <ul style="list-style-type: none"> ▪ func_num_args ▪ func_get_arg, func_get_args • Variable Functions (Gettype, settype, isset, unset,strval, floatval, intval, print_r) • String Function(Chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim trim, substr, strcmp, strcasecmp, strpos, strrpos, strstr, stristr, str_replace, strrev,

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		<p>echo, print, explode(), implode(), join(), md5(), str_split(), str_shuffle(), strcspn(), strpbrk(), substr_compare(), substr_count(), ucfirst(), ucwords())</p> <ul style="list-style-type: none">• Math Function(Abs, ceil, floor, round, fmod, min, max, pow, sqrt, rand, cos(), acos(), sin(), asin(), tan(), atan(), bindec(), decbin(), hexdec(), dechex(), is_finite(), is_infinite(), log(), base_convert(), deg2rad())• Date Function (Date, getdate, setdate, Checkdate, time, mktime, date_add(), date_create(), date_format(), gdate(), localtime(), strftime(), strftime(), strtotime(), gettimeofday())• Array Function (Count, list, in_array, current, next, previous, end, each, sort, rsort, assort, arsort, array_merge, array_reverse, array_diff(), array_merge_recursive(), array_shift(), array_slice(), array_unique(), array_unshift(), array_keys(), array_key_exists(), array_push(), array_pop(), array_multisort(), array_search())• Miscellaneous Function (define, constant, include, require, header, die, exit)• File handling Function (fopen, fread, fwrite, fclose, file_exists, is_readable, is_writable, fgets, fgetc, file_get_contents, fputcsv, fputs, file_putcontents, ftell, fseek, rewind, copy, unlink, rename, move_uploaded_file)
3	Handling Form, Session Tracking & PHP Components	<ul style="list-style-type: none">• Handling form with GET & POST• Cookies• Session• Server variable• PHP Components<ul style="list-style-type: none">- PHP GD Library- PHP Regular expression- Uploading file- Sending mail using mail()- Sending mail using smtp()
	AJAX	<ul style="list-style-type: none">• What is AJAX• PHP with AJAX• How AJAX works with PHP• Working with AJAX as background process• Using JQuery with PHP• JQuery AJAX with PHP

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4	Introduction of SQL	<ul style="list-style-type: none"> • Working with MySQL using PhpMyAdmin • SQL DML Statement (Insert, Update, Select, Delete) Command • PHP-MySQL Connectivity • PHP-MySQL Functions • mysql_connect, mysql_close,mysql_error, mysql_errno, mysql_select_db, mysql_query, mysql_fetch_array, mysql_num_rows, mysql_affected_rows, mysql_fetch_assoc, mysql_fetch_field, mysql_fetch_object,mysql_fetch_row, mysql_insert_id, mysql_num_fields,mysql_result, mysql_tablename, mysql_list_tables, mysql_list_fields, mysql_field_type, mysql_db_name, mysql_db_query, mysql_data_seek
5	jQuery	<ul style="list-style-type: none"> • What IsjQuery? • jQuery Syntax • jQuery Selector <ul style="list-style-type: none"> - Element Selector - Class Selector - id Selector • jQuery Events <ul style="list-style-type: none"> Click, dbclick, keypress, keydown, keyup, submit, change, focus, blur, load, resize, scroll, unload • jQuery Effects <ul style="list-style-type: none"> hide show, fade, slide

Seminar - 5 Lectures

Expert Talk - 5 Lectures

Test - 5 Lectures

Total Lectures: 60+15=75

Reference Books:

1. Modern PHP: New Features and Good Practices by Josh Lockhart (ORELLY)
2. PHP Cookbook: Solutions & Examples for PHP Programmers by David Sklar and Adam Trachtenberg (ORELLY)
3. Programming PHP by Kevin Tatroe and Peter MacIntyre ORELLY)
4. PHP for the Web: Visual QuickStart Guide (4th Edition) by Larry Ullman (Peachpit Press)

Additional Topics (Not to be asked in examination) :

Student should be aware of followings

- Uses and Advantages of CMS
- Wordpress [Introduction & Installation]
- Joomla [Introduction & Installation]
- Magento [Introduction & Installation]