	· Code: CCCS621	Total Credit :
Title	of Paper: Web Application Development using PHP	4
		Total Marks: 70
		Time: 3 Hrs
T I 24	Described on	VV-!-1-4!
Unit I	Description Introduction	Weighting
•	Introduction to Webpage, Website, Static and Dynamic Web, Client side & Server Side, Scripting Introduction to other server side languages Web server (IIS & Apache), HTTP & HTTPS protocol, FTP, ISP and its Services Web Hosting, Virtual Host, Multi-Homing	20%
	Distributed Web Server Overview, Document Root.	20 /0
	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	
П	Array User Defined Functions: argument function, default argument, variable function, return function Variable Length Argument Function func_num_args, func_get_arg, func_get_args Variable Function Gettype, settype, isset, unset, strval, floatval, intval, print_r String Function: chr, ord, strtolower, strtoupper, strlen, ltrim, rtrim trim, substr,strcmp, strcasecmp, strops,strrpos, strstr, stristr, str_replace,strrev, echo, print, explode(), implode(), join(), md5(), str_split(),str_shuffle(), strcspn(), strpbrk(), substr_compare(), substr_count(),ucfirst(), ucwords() 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(), gmdate(), localtime(), strftime(), strptime(), 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,file_get_contents, fputcsv, fputs, file_putcontents, ftell, fseek, rewind, copy, unlink, rename, move_upload_file Handling form with GET & POST	20%

	Cookies, Session, Server variable	
	PHP GD Library	
	PHP Regular expression	
	Uploading file.	
	Sending mail using mail()	
	Sending mail using smtp()	
	Working with MySQL using PhpMyAdmin	
	PHP-MySQL Connectivity	
	PHP-MySQL Functions	
	mysql_connect,mysql_close,mysql_error,msyql_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	
IV	PHP with OOPS	
	Class, constructor, inheritance, serialize objects	
	Database Handling with OOPS	
	PHP with AJAX	
	What is AJAX.	
	How AJAX Works with PHP	
	Working With Ajax as Background Process	
	<i>JQuery</i>	20%
	What is JQuery?	
	How JQuery Works and How it is Created.	
	Using JQuery with PHP	
	Using XML and JSON	
	Introduction to JSON	
	Installation & Configuration	
	Resource Types	
	JsonSerializable	
	JSON Functions: json_decode, json_encode	
V	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_select_date, html_select_time,	20%
	html_table	
	Creating a PHP Based Web service.	
	Working with SOAP	
	Introduction to SOAP	
	Installation & Configuration	
	Predefined Constants	
	SOAP Client	
	SOAP Server	
	Introduction to CMS	
	Uses and Advantages of CMS	
	Wordpress [Introduction &Installation]	
	Joomla [Introduction &Installation]	
Basic	Text & Reference Books :-	
1.	Begging PHP 5 by Wrox.	
2.	Julie C. Meloni, PHP MySQL and Apache, SAMS Teach Yourself, Pear	son Education.
3.	Web Development using PHP – Bharat & Co. [ISBN No.: 978-93-8178	

Total Credit: 4
Total Marks: 70
Time: 3 Hrs

Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) PHP Programs. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) PHP Programs. (With Internal Option)	08	

Paper	· Code: CCCS622	Total
Title	of Paper: Computer Network – II	Credit: 4
		Total
		Marks :
		70
		Time : 3
		Hrs
Unit	Description	Weighting
I	The Data Link Layer- I	0 0
	Packet,	20%
	Framing Techniques (Character Count, Byte Stuffing, Bit Stuffing), Error	
	Control, Flow Control	
II	The Data Link Layer – II	
	Error Detection and Correction Techniques (Single Bit Parity, Block	
	Parity, Checksum, CRC Checksum, Hamming Code)	20%
	An Unrestricted Simplex Protocol, A Simplex Stop-and-Wait	
	Protocol, A Simplex Protocol for a Noisy Channel, Sliding Window	
	Protocols	
III	The Medium Access Sublayer	
	The Channel Allocation Problem, Static Channel Allocation in LANs	
	and MANs, Dynamic Channel Allocation in LANs and MANs,	20%
	Multiple Access Protocols, ALOHA, Carrier Sense Multiple Access	
	Protocols	
IV	Network with OS (Linux)	
	Ubuntu: date, ls, who, cal, ps, wc, cat, uname, pwd, mkdir,rmdir, cd,	•••
	cp, rm, mv, diff, chmod, grep, sed, head, tail, cut, paste, sort, find,	20%
T 7	iwconfig,ifconfig,arp,rarp,traceroute,ping,hostname,ss & many more	
V	Network with OS (Windows)	
	Windows: ipconfig, arp, msconfig, services. msc, event logger, advanced	200/
	taskmanager,ping,nslookup,netstat,tracert,route,hostname,net,nbtstat,whois	20%
Pog!o	& Many more Text & Reference Books :-	
Basic 1.	Computer Networks 4th Edition - Andrew Tanenbaum	
2.	Computer Networking: A Top-Down Approach Featuring the Internet	t Ry Iomas
4.	F.Kurose, Keith W.Ross	a by James
3.	Data Communication & Networking 4th Edition By Behrouz A.Forouzan	
٦,	Data Communication & Networking 4th Edition by Benfouz A.Polouzan	

Paper Code: CCCS622 Title of Paper: Computer Network – II	Total Credit: 4 Total Marks: 70 Time: 3 Hrs
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Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

Paper Code: CCCS623	Total Credit :
Title of Paper: Practical Based on CCCS621	04
	Total Marks:
	70
	Time: 3 Hrs
1. Write a PHP program to display "Hello World" Message on Screen.	
2. Write a PHP program to display the today's date and current time.	
3. Write a PHP program to read the employee detail using form component.	
4. Write a PHP program to display the Fibonacci series.	
5. Write a PHP program to calculate sum of given number.	
6. Write a PHP Program that will use the concept form.	
7. Write a PHP program to send Mail from PHP Script.	
8. Write a PHP Program for Create, Delete, and Copying file from PHP Script.	
9. Write a PHP Program to Recursive Traversals of Directory.	
10. Write a PHP Program to Validate Input Data.	
11. Write a PHP Program to Upload File.	
12. Write a PHP program to demonstrate the use of array.	
13. Write a PHP program to prepare student Mark sheet.	
14. Write a PHP program to generate the multiplication of matrix.	
15. Write a PHP program to perform demonstrate the college Website.	
16. Write a PHP program to add new rows in a Table.	
17. Write a PHP program to modify the rows in a Table.	
18. Write a PHP program to delete the rows in a Table.	
19. Write a PHP program to fetch rows in a Table.	
20. Develop an PHP application to make following Operation	
i. Registration of user.	
ii. Insert the details of user.	
iii. Modify the details.	
iv. Transaction Maintained like the use of session and cookies variable.	

Paper Code	e: CCCS623	Total Credit: 4 Total Marks: 70	
Title of Paper: Practical Based on CCCS621			Time: 3 Hrs
Unit	Description		Total Marks
I	Q.1 (A) Viva – Voce	20	70
	Q.1 (B) Practical	50	

Paper Code: CCCS624	Total Credit :
Title of Paper: Practical Based on CCCS622 and elective courses	04
	Total Marks:
	70
	Time: 3 Hrs
1. Hamming Code Implementation	
2. Stop-and-Wait Protocol	
3. Sliding Window Protocols	
4. Checksum method	
5. CRC Implementation	

Paper Code :	Total Credit: 4 Total Marks: 70				
Title of Paper	Time: 3 Hrs				
•					
Unit	Description		Total Marks		
I	Q.1 (A) Viva – Voce	20	70		
	Q.1 (B) Practical	50			

Paper Code: CCCS625	Total Credit: 04
Title of Paper: Project	Total Marks: 70
	Time: 3 Hrs

Guidelines for the Project

- Definition should ideally reflect current trends of IT industry and it should have a high application potential.
- Project must be carried out by individual student
- Coding standards should be followed meticulously. At the minimum, the code should be self documented, modular, and should use the meaningful naming convention.
- Database design is mandatory. At least portions of code (preferably full code) are mandatory. Student may be asked to write the code related to the project during examination.
- A report should be prepared for the project work which should be duly signed by the internal project guide and head of the college/department.

_	To		al Credit: 4 al Marks: 70 ne: 3 Hrs	
Unit	Description		Total Marks	
I	Q.1 (A) Viva – Voce	20	70	
	Q.1 (B) Explanation of Project	20		
	Q.1 (C) Explanation of Code/Database	20		
	Q.1 (D) Documentation / Report	10		

	r Code: CECS612 of Paper: Computer Graphics and Multimedia	Total Credit: 4 Total Marks: 70	
		Time: 3 Hrs	
Unit	Description	Weighting	
I	Overview of Computer Graphics System:		
	A survey of Computer Graphics		
	Over View of Computer Graphics System		
	Video display devices	20%	
	Raster Scan and random scan system		
	Input devices		
	Hard copy devices		
II	Output Primitives and Attributes		
	Drawing line, circle and ellipse generating algorithms		
	Scan line algorithm		
	Character generation – attributes of lines, curves and characters	20%	
	Two Dimensional Graphics Transformation		
	Two dimensional geometric transformations		
	Windowing and Clipping		
	Clipping of lines		
III	Three Dimensional Graphics Transformation		
	Three dimensional concepts – representations		
	Polygon table, Quadric surfaces, Splines, Besier curves and surfaces	30%	
	Geometric and Modeling transformations		
	Viewing		
	Parallel and perspective projections.		
IV	Removal of Hidden Surfaces		
	Visible surface detection methods	10%	
	Computer animation		
V	Multimedia		
	Introduction, Definition, Multimedia Hardware, Multimedia Software,	0001	
	Multimedia Networking, Multimedia Application,	20%	
	Multimedia Environments, Multimedia Computer Components, Multimedia Standards, Multimedia PC.		
	Overview of latest multimedia software		
Rocic	Text & Reference Books :-		
1.	Tay Vaughan, "Multimedia making it works", 4th Edition Tata McGraw Hill	Edition 2000	
2.	Hearn, D. and Pauline Baker, M., "Computer Graphics", 2nd Edition, Prenti		
۷.	1995.	ce man or muia,	
	Sections: 1.1-1.8,2.1-2.3,2.5,2.6,3.1-3.7,3.11,3.14,4.1,4.2,4.5,5.1-5.5,6.1-6.7,9.1,9.2, 10.1-10.4,		
	10.6-10.8, 11.1-11.7, 12.1,12.3, 13.1-13.9, 13.12, 16.1-16.6)		
3.	Neuman, W.M., and Sproull, R.F., "Principle of Interactive Computer Grapl	nics", McGraw Hill	
٥.	BookCo., 1979.	, 31411	

Paper Code: CCCS612	Total Credit: 4
	Total Marks: 70
Title of Paper: Computer Graphics and Multimedia	Time: 3 Hrs

Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	

Paper Code: CECS613 Title of Paper: Software Engineering		Total Credit: Total Marks 70 Time: 3 Hrs
Unit	Description	Weighting
Ι	Introduction	
	Introduction: Software and Software Engineering	200/
	General Characteristics of Software Process	20%
	Phases in Software development Effort and Error Distribution	
	Process Models: Waterfall, Prototype, Iterative enhancement, spiral	
II	Software metrics : introduction, product metrics, process metrics Requirement Specification and Software Project Planning	
11	Introduction: Software Requirement Specification (SRS) and Needs	
	Problem Analysis - Structuring Information	20%
	Introduction to UML	20 / 0
	Software Requirement Specifications (SRS), Characteristics and	
	Components of SRS	
	Specification language (Structured English, Regular Expression and	
	Decision Table)	
	Structure of SRS, Validation of SRS	
III	Introduction: Software Projects, Planning, Categories of Software	
	projects	
	Overview of Cost estimation, Uncertainty in cost estimation, size	20%
	estimation, COCOMO Model (with example)	2070
	Project Monitoring Plan : Time sheets, Reviews, Cost- schedule	
	milestone and Earned value method	
	Software Quality Assurance Plans (SQAP)	
	Overview of Risk Management	
	Software Design	
	Introduction: System Design	
	Design Objectives and Design Principles	
	Design Concepts - Top down and Bottom up approach, Problem	
	Partition, Abstraction, Modularity, Module Level concept, Coupling,	
	Cohesion	
IV	Overview of structured design	
	Function v/s Object Oriented approach	
	Design Specification, Verification	20%
	Introduction: Detailed Design	
	Module Specification, Desirable properties, functional module	
	specification,	
	Data abstraction specification	
	PDL, Logic/ Algorithm Design	
	Design Verification – Design Walkthrough, Critical Design review,	
T 7	Consistency checkers	
V	Coding and Testing	
	Introduction: Coding, Top Down and Bottom Up approach for coding	200/
	Structured programming, Information Hiding	20%
	Programming style, Internal documentation	

An Integrated Approach to Software Engineering: By Pankaj Jalote, Narosa Publishing

Software Engineering a practitioner's approach : By Roger S. Pressman, Tata McGraw-

Software Engineering Fundamentals, By Richard Fairley, Tata McGraw Hill Software Engineering By Ian Somnmerville, Addition- Wesley, 5th Edition, 2000

Basic Text & Reference Books :-

Hill, 5th Edition

2.

House, Second Edition, 1997

Paper Code: CCCS613	Total Credit : 4
	Total Marks: 70
Title of Paper: Software Engineering	Time: 3 Hrs
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Unit	nit Description		Total Marks	
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14	
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08		
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14	
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08		
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14	
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08		
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14	
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08		
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14	
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08		