RGPV (DIPLOMA WING) BHOPAL	OBE CURRICULUM FOR THE COURSE	FORMAT-**3**	Sheet No. 1
Branch	**Computer Science and Engineering**	**Semester**	**Third**
Course Code	**C04**	**Course Name**	**Web Technology**

		Teach Hrs	Marks
Course Outcome 1	• Introduce the fundamental concept of web structure and creation of static webpage.	24	25 (20+10)
Learning Outcome 1	• Discuss the concept of web design principles and its architecture.	6	10 (TW)

Contents	• Introduction of Web Technologies
	
	    o Web Protocols and programs
	
	    o Secure connections
	
	    o Application and development tools
	
	    o Web browser and Web server
	
	• Web Design:
	
	    o Web site design principles
	
	    o Planning the site and navigation
	
	    o Architecture of Web based systems-
	
	        ▪ Client/server (2-tier) architecture, 3-Tier architecture		

Method of Assessment	Internal Quiz/Assignments		
Learning Outcome 2	• Define the various tags which is used to create the layout of the webpage.	10	10 (ET)

Contents	• Introduction to HTML
	  o Prologue
	  o Head section – Link, Base, Meta, Script, Style
	  o Body Section – Header, Paragraphs, Text Formatting, Anchor, Images, Lists, Tables, Frames, Phrase (Special Purpose)
	  o Other Special Tags and Characters		

Method of Assessment	End Term Theory Examination		
Learning Outcome 3	• Identify how to create a simple web page and adding a form to collect various user inputs.	8	10 (IP)

Contents	• HTML Forms
	  o Form Attributes and Elements
	  o Form Inputs types (text, submit, reset, radio, date, password, etc)		

Method of Assessment	Internal Practical Programs		
Course Outcome 2	• Discuss the various functions of JavaScript to build dynamic webpage creation.	28	35 (10+25)
Learning Outcome 1	• Develop program using basic feature of JavaScript.	10	10 (PT-I)

Contents	- Introduction to JavaScript - Elements of JavaScript – - Identifiers - Expressions - Keywords - Operators - Conditional Statements(if-else, switch) - Iterative Statements(while, do-while, for and foreach) - Functions		
Method of Assessment	Internal Theory Examination		
Learning Outcome 2	Write JavaScript to design a form to accept input values for the given problem.	10	15 (EP)
Contents	- Object of JavaScript – - Window Object: - Introduction, Methods, Navigator, Popup Alert - Document Object: - Introduction, Methods, Documents, Elements etc.		
Method of Assessment	External Practical Examination		

Learning Outcome 3	• Use form controls with validation of user inputs.	8	10 (ET)

Contents	• Forms Objects,
	  o Text Boxes
	  o Text Areas,
	  o Buttons
	  o Radio Buttons
	  o Check Boxes
	• Other Object – Date Object, Math Object, String Object, Arrays, Examples		

Method of Assessment	End Term Theory Examination		
Course Outcome 3	• Describe the importance of CSS and Bootstrap in webpage deigning.	28	25 (5+20)
Learning Outcome 1	• Demonstrate various staling and way of adding CSS in Web documents.	10	10 (ET)

Contents	• Introduction to CSS
	• Cascading Style Sheet (CSS) –
	  o Coding
	  o Set properties and values for various tags
	  o Other Style Values
	• Style Sheet		

	o In-Line, Embedded and External • Selector o Class, ID and Contextual		
Method of Assessment	End Term Theory Examination		
Learning Outcome 2	• Create dynamic styles in HTML document.	8	10 (ET)
Contents	• Introduction to DOM o Method o Documents and Elements o DOM CSS in Document		
Method of Assessment	End Term Theory Examination		
Learning Outcome 3	• Build responsive website using various components of Bootstrap.	10	5 (IP)
Contents	• Introduction to Bootstrap framework o Bootstrap Grid system o Bootstrap tables, Images, Buttons o Navigation Bar, Filters		
Method of Assessment	Internal Quiz/Assignments		

Course Outcome 4	• Discuss the basic concepts and analyzed data processing in PHP.	40	45 (10+35)
Learning Outcome 1	• Develop program using various elements and control statements.	12	10 (ET)

Contents	• Introduction of PHP
	
	• Element of PHP:
	
	   o Variables
	
	   o Data Types
	
	   o Operators and Expressions
	
	   o Constants
	
	   o Comment
	
	• Flow Control in PHP:
	
	   o Switch
	
	   o Loops (while, do-while, for and foreach)		

Method of Assessment	End Term Theory Examination		
Learning Outcome 2	• Describe the importance of functions and array in PHP.	8	10 (ET)

Contents	• Working with function
	
	   o Creating Function
	
	   o Calling with or without arguments
	
	• Calling with Static Statements		

	o Working with Arrays			
	o Creating Array and its type			
	o Array Related Functions and Operation			
Method of Assessment	End Term Theory Examination			
Learning Outcome 3	• Learn the Object oriented approach and its functionality.		8	10 (PT-II)

Contents	• Working with Objects:
	    o Creating Objects
	    o Object Instance
	 • Working with Strings:
	    o Formatting strings
	    o Manipulating Strings
	 • Dates and Time:
	    o Using Date and Time Functions in PHP			

Method of Assessment	Internal Theory Examination			
Learning Outcome 4	• Create the webpage using multiple forms for the given problem and collect forms data after submission.		12	15 (EP)
Contents	• Working with Forms: o Super Global Variables			

	o Accessing the Form Input		
	o Working with File Uploads		
Method of Assessment	External Practical Examination		
Course Outcome 5	• Develop Simple web based application and perform database operation in PHP.	30	20 (10+10)
Learning Outcome 1	• Create a database for a given problem in PHP Script.	15	10 (ET)
Contents	• PHP Databases:		
	o Basic Command With PHP Examples		
	o Connection To Server		
	o PHP MyAdmin and Database Bugs		
	o Creating Database		
	o Selecting A Database		
	o Listing Database		
	o Listing Table names		
Method of Assessment	End Term Theory Examination		
Learning Outcome 2	• Perform various operations for a given a database problem using PHP Script.	15	10 (IP)

Contents	- Creating A Table - Altering Tables - Inserting Data - Deleting Data - Update Data - Deleting Tables & Database		
Method of Assessment	Internal Practical Examination		

Abbreviation:

PT: Progressive Test   TW: Term Work   EP: External Practical   ET: External Theory   IP: Internal Practical

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	Web Technology
CO Description	Introduce the fundamental concept of web structure and creation of static webpage.
LO Description	Discuss the concept of web design principles and its architecture.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction of Web Technologies** o Web Protocols and programs o Secure connections o Application and development tools o Web browser and Web server **Web Design:** o Web site design principles o Planning the site and navigation o Architecture of Web based systems- Client/server (2-tier) architecture, 3-Tier architecture	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	0	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Internal Quiz/Assignments	**Term Work**	**10**	**Assignment /quiz questions**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	**Web Technology**
CO Description	Introduce the fundamental concept of web structure and creation of static webpage.
LO Description	Define the various tags which is used to create the layout of the webpage.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction to HTML** o Prologue o Head section – Link, Base, Meta, Script, Style o Body Section – Header, Paragraphs, Text Formatting, Anchor, Images, Lists, Tables, Frames, Phrase (Special Purpose) o Other Special Tags and Characters	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	6	4	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	**End Term**	**10**	**Test paper**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code	Course Code	CO Code	LO Code	Format No. 4

COURSE NAME	Web Technology
CO Description	Introduce the fundamental concept of web structure and creation of static webpage.
LO Description	Identify how to create a simple web page and adding a form to collect various user inputs.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**HTML Forms** o Form Attributes and Elements o Form Inputs types (text, submit, reset, radio, date, password, etc)	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	04	04	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Internal Practical Programs	**Practical**	**10**	**Lab file**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code		CO Code	LO Code	Format No.
		M	0	2	2	0	3	5	2	**4**

COURSE NAME	Web Technology
CO Description	Discuss the various functions of JavaScript to build dynamic webpage creation.
LO Description	Develop program using basic feature of JavaScript.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction to JavaScript** **Elements of JavaScript** – o Identifiers o Expressions o Keywords o Operators o Conditional Statements(if-else, switch) o Iterative Statements(while, do-while, for and foreach) o Functions	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	04	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Internal Theory Examination	**Progressive Test**	**10**	**Test Paper**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	**Web Technology**
CO Description	Discuss the various functions of JavaScript to build dynamic webpage creation.
LO Description	Write JavaScript to design a form to accept input values for the given problem.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Object of JavaScript –** o Window Object: Introduction, Methods, Navigator, Popup Alert o Document Object: Introduction, Methods, Documents, Elements etc.	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	04	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	External Practical Examination	Practical	15	Lab file	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	Web Technology
CO Description	Discuss the various functions of JavaScript to build dynamic webpage creation.
LO Description	Use form controls with validation of user inputs.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Forms Objects,** o Text Boxes o Text Areas, o Buttons o Radio Buttons o Check Boxes **Other Object** – Date Object, Math Object, String Object, Arrays, Examples	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	05	03	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	**End term**	**10**	**Test Paper**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. 4

COURSE NAME	Web Technology
CO Description	Describe the importance of CSS and XML in webpage deigning.
LO Description	Demonstrate various staling and way of adding in documents.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction to CSS** o Coding o Set properties and values for various tags o Other Style Values o Style Sheet: In-Line, Embedded and External o Selector: Class, ID and Contextual	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	04	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	**End Term**	**10**	**Test paper**	**External**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code	Course Code	CO Code	LO Code	Format No. 4

COURSE NAME	Web Technology
CO Description	Describe the importance of CSS and XML in webpage deigning.
LO Description	Create dynamic styles in HTML document.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction to DOM** o Method o Documents and Elements o DOM CSS in Document	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	02	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	**End term**	**10**	**Test paper**	**external**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	**Web Technology**
CO Description	Describe the importance of CSS and XML in webpage deigning.
LO Description	Build responsive website using various components of Bootstrap.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction to Bootstrap framework** o Bootstrap Grid system o Bootstrap tables, Images, Buttons o Navigation Bar, Filters	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	05	05	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Internal Practical Programs	**Practical**	**5**	**Lab file**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	Web Technology
CO Description	Discuss the basic concepts and analyzed data processing in PHP.
LO Description	Develop program using various elements and control statements.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Introduction of PHP** Element of PHP: o Variables o Data Types o Operators and Expressions o Constants o Comment Flow Control in PHP: o Switch o Loops (while, do-while, for and foreach)	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	08	04	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	**End term**	**10**	**Test paper**	**External**

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	**Web Technology**
CO Description	Discuss the basic concepts and analyzed data processing in PHP.
LO Description	Describe the importance of functions and array in PHP.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	Working with function o Creating Function o Calling with or without arguments Calling with Static Statements Working with Arrays o Creating Array and its type Array Related Functions and Operation	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	05	03	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	End Term	10	Test Paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	**Web Technology**
CO Description	Discuss the basic concepts and analyzed data processing in PHP.
LO Description	Learn the Object oriented approach and its functionality.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	Working with Objects: o Creating Objects o Object Instance Working with Strings: o Formatting strings o Manipulating Strings Dates and Time: o Using Date and Time Functions in PHP	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	05	03	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Internal Theory Examination	**Progressive Test**	**10**	**Paper Pen Test**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	Web Technology
CO Description	Discuss the basic concepts and analyzed data processing in PHP.
LO Description	Create the webpage using multiple forms for the given problem and collect forms data after submission.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	Working with Forms: o Super Global Variables o Accessing the Form Input o Working with File Uploads	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	06	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	External Practical Examination	Practical	15	Lab file	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	Web Technology
CO Description	Develop Simple web based application and perform database operation in PHP.
LO Description	Create a database for a given problem in PHP Script.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**PHP Databases:** o Basic Command With PHP Examples o Connection To Server o PHP MyAdmin and Database Bugs o Creating Database o Selecting A Database o Listing Database o Listing Table names	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	07	08	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	End Term Theory Examination	End term	10	Test paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code		Course Code		CO Code	LO Code	Format No. **4**

COURSE NAME	Web Technology
CO Description	Develop Simple web based application and perform database operation in PHP.
LO Description	Perform various operations for a given a database problem using PHP Script.

SCHEME OF STUDY

S. No.	Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	**Creating A Table** o Altering Tables o Inserting Data o Deleting Data o Update Data o Deleting Tables & Database	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	09	Handouts / Books / E-Contents	NIL

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Internal Practical Examination	**Practical**	**10**	**Lab file**	**Internal**

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Web Technology

Course Outcome (COs) and Learning Outcome (LOs):

Total Teaching Hours: 120

Total Marks: 150 (100(Theory) :{ External (70) + Internal (30)}, 50(Practical) :{ External (30) + Internal (20)}

COs			Teaching Hours	Assessment Marks	
				Internal	**External**
CO-1		Introduce the fundamental concept of web structure and creation of static webpage.	24		
	LO-1	Discuss the concept of web design principles and its architecture	6	TW (10)	
	LO-2	Define the various tags which is used to create the layout of the webpage.	10		END TERM (10)
	LO-3	Identify how to create a simple web page and adding a form to collect various user inputs.	8	Practical(5)	
CO-2		Discuss the various functions of JavaScript to build dynamic webpage creation.	28		
	LO-1	Develop program using basic feature of JavaScript.	10	PT(10)	
	LO-2	Write JavaScript to design a form to accept input values for the given problem.	10		Practical(15)
	LO-3	Use form controls with validation of user inputs.	8		END TERM(10)
CO-3		Describe the importance of CSS and Bootstrap in webpage deigning.	28		
	LO-1	Demonstrate various staling and way of adding CSS in Web documents.	10		END TERM (10)
	LO-2	Create dynamic styles in HTML document.	8		END TERM (10)
	LO-3	Build responsive website using various components of Bootstrap.	10	Practical(5)	
CO-4		Discuss the basic concepts and analyzed data processing in PHP.	40		
	LO-1	Develop program using various elements and control statements.	12		END TERM (10)

	LO-2	Describe the importance of functions and array in PHP.	8		END TERM (10)
	LO-3	Learn the Object oriented approach and its functionality.	8	PT(10)	
	LO-4	Create the webpage using multiple forms for the given problem and collect forms data after submission.	12		Practical (15)
CO-5		Develop Simple web based application and perform database operation in PHP.	30		
	LO-1	Create a database for a given problem in PHP Script.	15		END TERM (10)
	LO-2	Perform various operations for a given a database problem using PHP Script.	15	Practical (10)	

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WEB TECHNOLOGY COURSE CONTENT

CO: 1

LO: 1
- Introduction of Web Technologies
  - Web Protocols and programs
  - Secure connections
  - Application and development tools
  - Web browser and Web server
- Web Design:
  - Web site design principles
  - Planning the site and navigation
  - Architecture of Web based systems-
    - Client/server (2-tier) architecture, 3-Tier architecture

LO: 2
- Introduction to HTML
  - Prologue
  - Head section – Link, Base, Meta, Script, Style
  - Body Section – Header, Paragraphs, Text Formatting, Anchor, Images, Lists, Tables, Frames, Phrase (Special Purpose)
- Other Special Tags and Characters

LO: 3
- HTML Forms
  - Form Attributes and Elements
  - Form Inputs types (text, submit, reset, radio, date, password, etc)

CO: 2

LO: 1
- Introduction to JavaScript
- Elements of JavaScript –
  - Identifiers
  - Expressions
  - Keywords
  - Operators
  - Conditional Statements(if-else, switch)
  - Iterative Statements(while, do-while, for and foreach)
  - Functions

LO: 2
- Object of JavaScript –
  - Window Object:
    - Introduction, Methods, Navigator, Popup Alert
  - Document Object:
    - Introduction, Methods, Documents, Elements etc.

LO: 3
- Forms Objects,
  - Text Boxes

WEB TECHNOLOGY COURSE CONTENT

- o Text Areas,
- o Buttons
- o Radio Buttons
- o Check Boxes
- o Other Object – Date, Math, String, Array with Examples

CO: 3

LO: 1

- Introduction to CSS
- Cascading Style Sheet (CSS) –
  - o Coding
  - o Set properties and values for various tags
  - o Other Style Values
- Style Sheet
  - o In-Line, Embedded and External
- Selector
  - o Class, ID and Contextual

LO: 2

- Introduction to DOM
  - o Method
  - o Documents and Elements
  - o DOM CSS in Document

LO: 3

- Introduction to Bootstrap framework
  - o Bootstrap Grid system
  - o Bootstrap tables, Images, Buttons
  - o Navigation Bar, Filters

C0: 4

LO: 1

- Introduction of PHP
- Element of PHP:
  - o Variables
  - o Data Types
  - o Operators and Expressions
  - o Constants
  - o Comment
- Flow Control in PHP:
  - o Switch
  - o Loops (while, do-while, for and foreach)

LO: 2

- Working with function
  - o Creating Function
  - o Calling with or without arguments
  - o Calling with Static Statements
- Working with Arrays

WEB TECHNOLOGY COURSE CONTENT

- o Creating Array and its type
- o Array Related Functions and Operation

LO: 3
- Working with Objects:
  - o Creating Objects
  - o Object Instance
- Working with Strings:
  - o Formatting strings
  - o Manipulating Strings
- Dates and Time:
  - o Using Date and Time Functions in PHP

LO: 4
- Working with Forms:
  - o Super Global Variables
  - o Accessing the Form Input
  - o Working with File Uploads

C0: 5

LO: 1
- PHP Databases:
  - o Basic Command With PHP Examples
  - o Connection To Server
  - o PHP MyAdmin and Database Bugs
  - o Creating Database
  - o Selecting A Database
  - o Listing Database
  - o Listing Table names

LO: 2
- Creating A Table
  - o Altering Tables
  - o Inserting Data
  - o Deleting Data
  - o Update Data
  - o Deleting Tables & Database

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