RGPV (DIPLOMA WING) BHOPAL		WING) BHOPAL OBE CURRICULUM FOR THE COURSE				Sheet No. 1	
Branch	Comp	outer Scien	ce and Engineering	Sem	Semester Third		
Course Code	Course Code CO4 Course Name Web Technology						
					Teach Hrs	Marks	
Course Outcor	• Introduce the fundamental concept of web structure and creation of static webpage.				24	25 (20+10)	
Learning Outco	• Discuss the concept of web design principles and its architecture.						
Contents	• Intr	oduction of	Web Technologies				
	0	Web Protoco	ols and programs				
	0	Secure conn	nections				
	0	Application	and development tools				
	0	Web browse	er and Web server				
	• We	b Design:					
	0	Web site des	sign principles				
	0	Planning the	e site and navigation				
	0	Architecture	e of Web based systems-				
		 Clier 	nt/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 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 		
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 Form Attributes and Elements 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,		
	• Text Boxes		
	• Text Areas,		
	• Buttons		
	• Radio Buttons		
	• 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) –		
	• Coding		
	• Set properties and values for various tags		
	• Other Style Values		
	• Style Sheet		

	 In-Line, Embedded and External 		
	• Selector		
	• 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		
	• Method		
	 Documents and Elements 		
	 DOM CSS in Document 		
	End Term Theory Examination		
Method of Assessment			
Learning Outcome 3	• Build responsive website using various components of Bootstrap.	10	5 (IP)
Contents	Introduction to Bootstrap framework		
	 Bootstrap Grid system 		
	 Bootstrap tables, Images, Buttons 		
	 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:		
	• Variables		
	 Data Types 		
	 Operators and Expressions 		
	• Constants		
	• Comment		
	• Flow Control in PHP:		
	o Switch		
	• 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		
	 Creating Function 		
	• Calling with or without arguments		
	Calling with Static Statements		

	 Working with Arrays 		
	 Creating Array and its type 		
	 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:		
	• Creating Objects		
	• Object Instance		
	• Working with Strings:		
	 Formatting strings 		
	 Manipulating Strings 		
	• Dates and Time:		
	 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: Super Global Variables 		

	• Accessing the Form Input		
	 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: Basic Command With PHP Examples Connection To Server PHP MyAdmin and Database Bugs Creating Database Selecting A Database Listing Database 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

			. SC	HEME FOR LEARN	ING Branch	Code	Course Code	CO Code	LO Code	
RGF	V (Diplo	oma Wing) Bhopa		OUTCOME					F	ormat No. 4
COU	RSE NAME	Web Technology	I							
CO D	escription	Introduce the fundamenta	l concept o	f web structure and creation	n of static webpage.					
.0 D	escription	Discuss the concept of we	eb design p	rinciples and its architectur	е.					
				SCHEME OF S	STUDY					
S. No.	Learning Content Introduction of Web Technologies			Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Re	equired	Remarks
L	 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 			ion systems-				Hando Books Conter	/ E-	NIL
				SCHEME OF ASS	ESSMENT		·			·
S. No.	Method of Assessment Description			on of Assessment	Maximum Ma	ırks	Resource	es Required		External / Internal
1	Internal	Quiz/Assignments	Te	erm Work	10	10Assignment /ququestions			liz	Internal
			ADDITION	AL INSTRUCTIONS FOR T	HE HOD/ FACULT	Y (IF ANY)			

	(Dinla	oma Wing) Bhopa	Wing) Bhonal SCHEME FOR LEARNING			Branch Cod	e C	Course Code	CO Code	LO Code	/	
				OUTCOME						ŀ	Format No.	
COURS	E NAME	Web Technology	I		ł	· ·				i		
CO Des	cription	Introduce the fundamenta	l concept of w	veb structure and creation	of static w	vebpage.						
LO Dese	cription	Define the various tags whi	ch is used to cr	eate the layout of the webp	age.							
				SCHEME OF ST	UDY							
S. No.		Learning Content		Teaching –Learning Descri		ption of Process	Teach Hrs.	Pract. /Tut Hrs.	R	LRs equired	Remark	
1	 Prolo Head Style Body Form Fram 	roduction 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		Traditional Lecture method + Handout			6	4	Handouts Books / E- Contents		NIL	
				SCHEME OF ASSES	SSMENT							
S. No.	Metho	od of Assessment	Description	Description of Assessment		Maximum Marks			Resources Required			
1		d Term Theory Examination	End	l Term		10		Test paper			External	
			ADDITIONAL	. INSTRUCTIONS FOR TH	ie hod/ i	FACULTY (IF ANY)					

RGPV	RGPV (Diploma Wing) B		ng) Bhopal SCHEME FOR LEARNING OUTCOME				i	Branch Code Course			CO CO Code		LO Code	Format No. 4	
COURS	E NAME	Web Technology	,												
CO Des	cription	Introduce the fundar	nental co	oncept of web s	tructure and crea	ation of s	tatic web	page.							
.O Des	cription	Identify how to create	e a simple	web page and a	adding a form to c	ollect vari	ous user	inputs.							
					SCHEME C	OF STUD	Y								
S. No.	Lear	ning Content		g –Learning ethod	-Learning Description of T-L Teach Pract.		LRs Required				Remarks				
1	⊂ Elem ○ Form subm	Attributes and r		al Lecture - Handout	Teacher will ex the contents an provide handou students.	nd	04	04		Handouts / Books / E- Contents		NIL			
	1				SCHEME OF A	ASSESSIV	IENT	1	1					_	
S. No. Method of Assessment Description of A					ssessment	-	mum Irks		Res	ourc	es Re	quired	1		External / Internal
1	Interna	l Practical Programs		Practic	al	1	10 Lab file					Internal			
			ADI	DITIONAL INS	TRUCTIONS FO	OR THE H	IOD/ FA	CULTY (IF	AN	Y)					

			SCHEME F	OR LEARNING		Branch Coo	de	Cou	irse Code	CO Code	LO Code	Format No
KGP		oma Wing) Bhopal	OU	TCOME	М	0	2	2	0 3	5	2	4
COURS	E NAME	Web Technology						-	· · · · ·		1	
CO Des	cription	Discuss the various functions	of JavaScript to bu	uild dynamic webpage	creation	n.						
LO Des	cription	Develop program using basic	feature of JavaScr	ript.								
		1		SCHEME OF STUDY								
S. No.		Learning Content		Teaching – Learning Method	Description of T-L Process Teacher will			「each Hrs.	Pract. /Tut Hrs.	Re	LRs equired	Remarks
1	ElementoIdentoExpraoKeywoOperaoCond	essions vords ators litional Statements(if-else, switc ive Statements(while, do-while ch)	ch)	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.			06	04	Boo	ndouts / oks / E- ntents	NIL
			SC	CHEME OF ASSESSME	INT							
S. No.	Descrin				Maximum Marks				Resour	ces Re	equired	External , Internal
1	Internal Theory Examination Progress			Test 10					Test Paper			Internal
		ADD	DITIONAL INSTRU	JCTIONS FOR THE HC	DD/ FA	CULTY ((IF Al	NY)				
		ADD	ITIONAL INSTRU	JUIIONS FOR THE HU	JD/ FA	CULIY ((IF AI	NY)				

RGPV	(Diplo	ma Wing) Bh	opal	••••	E FOR LEAF DUTCOME	RNING	i	Branch Code	Co	ourse Cod	e CO Cod	LO e Code	Format No. Z
COURS	E NAME	Web Technology	,				I			I		I	
CO Dese	cription	Discuss the various	function	s of JavaScript	to build dynamic	c webpag	e creatio	n.					
LO Deso	cription	Write JavaScript to a	design a	form to accept	input values for	the giver	n problen	n.					
		1			SCHEME C	OF STUD	Y						
S. No.	Lear	ning Content		ng –Learning lethod	Description Process		Teach Hrs.	Pract. /Tut Hrs.	L	Rs Red	quired		Remarks
1	 Wind Introduct Navigato Docu Introduct 	1		al Lecture + Handout	Teacher will ex the contents an provide handou students.	nd	06	04	Hand Conte	•	Books / E	- NIL	
					SCHEME OF A	ASSESSIV	IENT						
S. No.	. No. Method of Assessment D			Description of Assessment			imum arks		Resourc	ces Red	quired		External / Internal
1		ernal Practical Examination		Practic	al	1	.5		Li	ab file			External
			AD	DITIONAL INS	TRUCTIONS FO	R THE H	IOD/ FA	CULTY (IF /	ANY)				

RGPV	/ (Diplo	oma Wing) Bhopa	al S	CHEME FOR LEA OUTCOMI		Branch Code	Course	Code	CO Code	LO Code	Format No.
COURS	E NAME	Web Technology							11		
CO Des	cription	Discuss the various funct	tions of Ja	avaScript to build dynan	nic webpage creation	on.					
LO Des	cription	Use form controls with v	alidation	of user inputs.							
		1		SCHEME	OF STUDY						
S. No.		Learning Content		Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LR	s Requ	ired	Remarks
1	 Text Butto Radio Chect Other O 	Boxes Areas,	Object,	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	05	03 Handouts / Book E-Contents		300ks /	NIL	
				SCHEME OF	ASSESSMENT						
S. No.	Metho	Method of Assessment Descript		tion of Assessment	Maximum	Marks	Resou	rces Re	equired	ł	External / Internal
1		End Term Theory Examination		End term	10		T	est Pap	er		External
			ADDITIC	ONAL INSTRUCTIONS I	OR THE HOD/ FA	ACULTY (IF	ANY)				

RGPV	/ (Diplo	oma Wing) Bhopal	SC	SCHEME FOR LEARNING OUTCOME			Course Co	ode CO Code	LO Code	Format No.
COURS	E NAME	Web Technology		0010011	•					
CO Des	cription	Describe the importance of (CSS and XN	/L in webpage deigning.						
LO Des	cription	Demonstrate various stalin	g and wa	y of adding in docume	nts.					
				SCHEME	OF STUDY					
S. No.		Learning Content	Learning Method I-L Process Hrs. / Tut Hr						quired	Remarks
1	 Codii Set p Other Style Exter 	roperties and values for vari r Style Values Sheet: In-Line, Embedded a	and	Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	06	04	Handou Books / Content	E-	NIL
				SCHEME OF	ASSESSMENT					
S. No.	Metho	od of Assessment	Descripti	on of Assessment	Maximum	Marks	Resou	rces Requi	red	External / Internal
1		d Term Theory Examination	I	End Term	10		Test pape			External
		Δ	DDITION	IAL INSTRUCTIONS F	OR THE HOD/ FA					

RGPV	(Diplo	oma Wing) Bh	opal		E FOR LEAF DUTCOME	RNIN	G	Branch Code		Co	urse Cod		CO Code	LO Code	Format No.
COURS	E NAME	Web Technology	,												
CO Des	cription	Describe the importa	nce of CS	S and XML in we	bpage deigning.										
LO Des	cription	Create dynamic styl	es in HT	ML document.											
		'			SCHEME C	OF STUI	ΟY								
S. No.	Lea	rning Content		eaching – ing Method	Description Process		Teach Hrs.	Pract /Tut Hi		L	Rs Re	quired			Remarks
1	MethDocu	etion to DOM od ments and Elements I CSS in Document	Traditional Lecture method + HandoutTeacher will explain the contents and provide handout to students.0602Handouts / Books / E- Contents		/ E-	NIL									
	1		1		SCHEME OF A	SSESSI	MENT	1							
S. No.	Metho	ethod of Assessment Description of Assessment				-	kimum arks	Resources Required					External , Internal		
1		d Term Theory Examination		End ter	m		10	Test paper					external		
			AD	DITIONAL INS	TRUCTIONS FO	RTHE	HOD/ FA	CULTY (I	F AN	NY)					

RGPV	/ (Diplo	oma Wing) Bhopal	SCHEME FOR LEAR OUTCOME	NING Brar	nch Code	Course Code C		LO Code	Format No.
COURS	E NAME	Web Technology							
CO Des	cription	Describe the importance of C	SS and XML in webpage deigning.						
LO Des	cription	Build responsive website u	sing various components of Boots	trap.					
			SCHEME O	F STUDY					
S. No.		Learning Content	Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LR: Requi		Remarks
1	frameworkoBootsoBoots	oduction to Bootstrap neworkTraditional Lecture method + HandoutBootstrap Grid system Bootstrap tables, Images, Buttons Navigation Bar, FiltersHandout		Teacher will explain the contents and provide handout to students.	05	05	Handou Books / Content	E-	NIL
			SCHEME OF A	SSESSMENT					
S. No.	5. No. Method of Assessment D		Description of Assessment	Maximum M	arks	Resourc	es Requir	ed	External / Internal
1	Internal Practical Programs		nal Practical Programs Practical		5		b file		Internal
		A	DDITIONAL INSTRUCTIONS FO	R THE HOD/ FACUI	TY (IF AN	Y)			

		oma Wing) Bhopa	SCHEME FO	R LEARNING	Bran	h Code	Co	urse Code	C Co	de Code	
		nna wing j bhopa	OUT(COME						F	ormat No. 4
COURS	E NAME	Web Technology	· ·							· · · ·	
CO Des	cription	Discuss the basic concept	s and analyzed data proc	essing in PHP.							
LO Des	cription	Develop program using va	arious elements and cont	rol statements.							
		I	S	CHEME OF STUD	Y						
S. No.		Learning Conte	ent	Teaching – Learning Method	Descriptio of T-L Process	IE	Teach Hrs.		act. Hrs.	LRs Required	Remarks
1	Element • Varia • Data • Opera • Cons • Com Flow Con • Switt	bles Types ators and Expressions tants ment ntrol in PHP:	foreach)	Traditional Lecture method + Handout	Teacher wil explain the contents an provide handout to students.		08	0	4	Handouts / Books / E- Contents	NIL
			SCH	EME OF ASSESSN	1ENT						
S. No.	Metho	od of Assessment	Description of Assessi	nent	Maximum	Marks			Resoui Requi		External / Internal
1	End Term Theory Examination End term		End term		10			Test pap		aper	External

RGPV	/ (Diplo	oma Wing) Bhopal		OR LEARNING ICOME	Branch (Code	Course Code		LO code	Format No. Z
COURS	SE NAME	Web Technology								
CO Des	cription	Discuss the basic concepts	and analyzed data pro	ocessing in PHP.						
	cription	Describe the importance of	functions and array in	n PHP.						
				SCHEME OF STUDY						
S. No.		Learning Content	Teaching – Learning Method	Description of T-L	Process	Teach Hrs.	Pract. /Tut Hrs.	LR Requ	-	Remarks
1	 Working with function Creating Function Calling with or without arguments Calling with Static Statements Working with Arrays Creating Array and its type Array Related Functions and Operation 		Handout	Teacher will explain the contents and provide handout to students.		05	03	Handou Books / Conten	' E-	NIL
			SCI	HEME OF ASSESSMENT	T					
S. No.	Method of Assessment Descr		escription of Assess	sment Max	Maximum Ma		Resource	s Require	ed	External / Internal
1	End Term Theory Examination		End Term		10		Test	Paper		External

	PV (Diploma Wing) Bhopal			SCHEME FOR LEAF	RNING ^{Br}	anch Code	Course Code	CO Code	LO Code	ormat No. Z
				OUTCOME						-ormat No. 🖿
COURS	E NAME	Web Technology								
CO Des	cription	Discuss the basic conce	pts and	analyzed data processing in l	PHP.					
LO Deso	cription	Learn the Object oriente	ed appro	each and its functionality.						
		1		SCHEME C	DF STUDY					
S. No.		Learning Content		Teaching –Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs R	equired	Remarks
1	 Working with Objects: Creating Objects Object Instance Working with Strings: Formatting strings Manipulating Strings Dates and Time: Using Date and Time Functions in PHP 			Traditional Lecture method + Handout	Teacher will explain the contents and provide handout to students.	05	03	Hando Books Conter	/ E-	NIL
				SCHEME OF A	SSESSMENT					
S. No.	o. Method of Assessment Des		Desci	ription of Assessment	Maximum	Marks	Resource	es Requi	red	External / Internal
1	Internal '	Theory Examination		Progressive Test	10		Paper	Pen Tes	t	Internal
			ADDI	FIONAL INSTRUCTIONS FO	R THE HOD/ FACL	ILTY (IF AN	Y)			

RGDV	(Dinlo	ma Wing) Bhopal	SC	HEME FOR LEARN	ING	Brar	nch Co	de	Cour	se Code	CO Code	LO Code	Format No.
				OUTCOME									Format No.
COURS	E NAME	Web Technology											
CO Des	cription	Discuss the basic concepts	and anal	yzed data processing in PHI	•								
LO Deso	ription	Create the webpage using	multiple f	forms for the given problem	and coll	ect forms	s data	a afte	er submis	sion.			
				SCHEME OF S	TUDY								
S. No.	Working with Forms: • Super Global Variables			Teaching –Learning Method		Description of T-L Process			Teach Hrs.	-	act. Hrs.	LRs Requir	Rema
1	e e		Traditional Lecture method + Handout		exp con pro	Teacher will explain the contents and provide handout to students.		:	06	0	16	Handou / Books E- Conten	1
				SCHEME OF ASS	SSMEN	т					1		
S. No.	Metho	d of Assessment	Description of Assessment		Maximum Mark			arks	(S		esouro Requiro		External Interna
1	-	ernal Practical Examination		Practical		15	5				Lab fil	e	Externa
		Δ	DDITION	IAL INSTRUCTIONS FOR T	HE HOD	/ FACUI	LTY	(IF A	NY)				

AMEWeb TechnologytionDevelop Simple web based ationCreate a database for a given	application and perform database of problem in PHP Script. SCHEME OF	operation	n in PHP.				
	problem in PHP Script.	operation	n in PHP.				
ion Create a database for a given							
		STUDY					
Learning Content	Teaching –Lear Method	rning	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Requir	ed
Basic Command With PHP Examp Connection To Server	les method + Hando	out e c p	explain the contents and provide handout	07	08	Books / I	E-
	SCHEME OF AS	SESSME	NT				
Nethod of Assessment De	scription of Assessment		Maximum Marks	5			External / Internal
End Term Theory Examination	End term	term 10			Test pa	iper	External
AD	DITIONAL INSTRUCTIONS FOR	THE HO	D/ FACULTY (IF #	NY)	1		
	Connection To Server PHP MyAdmin and Database Bugs Creating Database Selecting A Database Listing Database Listing Table names Method of Assessment De End Term Theory Examination	Basic Command With PHP Examples Connection To Server PHP MyAdmin and Database Bugs Creating Database Selecting A Database Listing Database Listing Table names SCHEME OF AS Method of Assessment End Term Theory Examination End term	Basic Command With PHP Examples method + Handout Connection To Server method + Handout PHP MyAdmin and Database Bugs Creating Database Selecting A Database Selecting A Database Listing Database SCHEME OF ASSESSME Listing Table names SCHEME OF ASSESSME Method of Assessment Description of Assessment End Term Theory End term	Basic Command With PHP Examples method + Handout explain the contents and provide handout to students. PHP MyAdmin and Database Bugs Selecting A Database explain the contents and provide handout to students. Selecting A Database Listing Database Examination End Term Theory Examination End Term Theory End term 10	P Databases: Traditional Lecture Teacher will 07 Basic Command With PHP Examples method + Handout Explain the 07 Connection To Server method + Handout explain the 07 PHP MyAdmin and Database Bugs method + Handout explain the 07 Creating Database Selecting A Database selecting A Database 10 Listing Database End Term Theory End Term Theory 10	P Databases: Basic Command With PHP Examples Connection To Server PHP MyAdmin and Database Bugs Creating Database Selecting A Database Listing Table names Traditional Lecture method + Handout Teacher will explain the contents and provide handout to students. 07 08 Sclecting A Database Listing Table names Scheme of Assessment 07 08 Method of Assessment Description of Assessment Maximum Marks Resour Requite Requite End Term Theory Examination End term 10 Test pate	P Databases: Basic Command With PHP Examples Connection To Server PHP MyAdmin and Database Bugs Creating Database Selecting A Database Listing Database Listing Table names Traditional Lecture method + Handout Teacher will explain the contents and provide handout to students. 07 08 Handout Books / E Contents Selecting A Database Listing Database Listing Table names SCHEME OF ASSESSMENT 07 08 Handout Books / E Contents Method of Assessment Description of Assessment Maximum Marks Resources Required End Term Theory Examination End term 10 Test paper

RGD\/	(Dinlo	ma Wing) Bhopa	I SCH	EME FOR LEARN	ING	Branch Cod	e C	ourse Code	CO Code	LO Code	Former	at No. 4
			•	OUTCOME							Forma	at No. 🛏
COURS	E NAME	Web Technology										
CO Des	cription	Develop Simple web base	d application	n and perform database o	peration in	PHP.						
LO Des	cription	Perform various operation	ns for a given	a database problem usin	g PHP Sci	ript.						
				SCHEME OF	STUDY							
S. No.		Learning Content		Teaching –Learnir Method	-	escription T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LR	s Requi	red	Remark
1	 Alter Insert Delet Upda 	A Table ing Tables ing Data ing Data te Data ing Tables & Database		Traditional Lecture method + Handout	exp cor pro har	icher will Ilain the Itents and Ivide Indout to dents.	06	09	Boc	idouts / iks / E- itents		NIL
				SCHEME OF ASS	ESSMENT	г						
S. No.	. No. Method of Assessment Descriptio			n of Assessment N		Maximum Marks		Resources	Requ	uired		ernal / ternal
1		ernal Practical Examination	Pr	actical		10		Lab	file		Int	ternal
			ADDITIONA	L INSTRUCTIONS FOR	HE 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	12		Practical (15)
		after submission.			
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)	

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
 - o 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
 - o Form Attributes and Elements
 - Form Inputs types (text, submit, reset, radio, date, password, etc)

CO: 2

LO: 1

- Introduction to JavaScript
- Elements of JavaScript
 - o Identifiers
 - \circ 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

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

CO: 3

LO: 1

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

LO: 2

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

LO: 3

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

C0: 4

LO: 1

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

LO: 2

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

WEB TECHNOLOGY COURSE CONTENT

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

LO: 3

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

LO: 4

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

C0: 5

LO: 1

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

LO: 2

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