## SANGAMNER NAGARPALIKA ARTS, D.J.MALPANI COMMERCE & B.N. SARDA SCIENCE COLLEGE, SANGAMNER 422 605, DIST- AHMEDNAGAR (MS)

## (Autonomous College)

#### Affilated to Savitribai Phule Pune University Pune

#### Undergraduate (B.VOC.) Faculty Subject (2020 Pattern)

Sr.No.	CLASS	SUB. CODE	Subject Name		Int/ Ext/ Practi	Credit
			B.Vocational (SOFTWARE DEVELOPMENT)			
BVSU-1	F.Y.B.VOC.	SD- 1011	SOFT SKILL –ENGLISH AND COMMUNICATION SKILL-I	Ι	IE	2
BVSU-2	F.Y.B.VOC.	SD- 1021	INTRODUCTION TO C PROGRAMMING-I	Ι	IE	2
BVSU-3	F.Y.B.VOC.	SD- 1031	DATABASE MANAGEMENT SYSTEM-I	Ι	IE	2
BVSU-4	F.Y.B.VOC.	SD- 1041	HTML5 & CSS3–I	Ι	IE	2
BVSU-5	F.Y.B.VOC.	SD- 1051	COMPUTER FUNDAMENTALS-I	Ι	IE	2
BVSU-6	F.Y.B.VOC.	SD- 1061	APPLIED MATHEMATICS -I	Ι	IE	2
BVSU-7	F.Y.B.VOC.	SD- 1071	PRACTICAL I SOFT SKILL DEVELOPMENT, FIELD WORK & SELF-LEARNING	Ι	IP	6
BVSU-8	F.Y.B.VOC.	SD- 1081	PRACTICAL –II C PROGRAMMING-I, COMPUTER HARDWARE ,OS & N/W AND SELF-LEARNING	Ι	IP	6
BVSU-9	F.Y.B.VOC.	SD- 1091	PRACTICAL –III DBMS-I ,HTML5 & CSS3, FIELD WORK & SELF LEARNING	Ι	IP	6
BVSU- 10	F.Y.B.VOC.	SD- 1102	SOFT SKILL –ENGLISH AND COMMUNICATION SKILL-II	II	IE	2
BVSU- 11	F.Y.B.VOC.	SD- 1112	INTRODUCTION TO C PROGRAMMING-II	II	IE	2
BVSU- 12	F.Y.B.VOC.	SD- 1122	DATABASE MANAGEMENT SYSTEM-II	II	IE	2
BVSU- 13	F.Y.B.VOC.	SD- 1132	HTML5 & CSS3 –II	II	IE	2
BVSU- 14	F.Y.B.VOC.	SD- 1142	COMPUTER FUNDAMENTALS-II	II	IE	2
BVSU- 15	F.Y.B.VOC.	SD- 1152	APPLIED MATHEMATICS -II	II	IE	2
BVSU- 16	F.Y.B.VOC.	SD- 1162	PRACTICAL I SOFT SKILL DEVELOPMENT, FIELD VISIT & SELF-LEARNING	II	IP	6
BVSU- 17	F.Y.B.VOC.	SD- 1172	PRACTICAL -II C PROGRAMMING-II, COMPUTER HARDWARE ,OS & N/W AND SELF-LEARNING	II	IP	6
BVSU- 18	F.Y.B.VOC.	SD- 1182	PRACTICAL –III DBMS-II ,HTML5&CSS3, MINI PROJECT & SELFLEARNING	II	IP	6
BVSU- 19	S.Y.B.VOC.	SD- 2193	INTRODUCTION TO C#.NET -I	III	IE	2
BVSU- 20	S.Y.B.VOC.	SD- 2203	OBJECT ORIENTED PROGRAMMING USING CPP-I	III	IE	2
BVSU- 21	S.Y.B.VOC.	SD- 2213	PHP-I	III	IE	2
BVSU- 22	S.Y.B.VOC.	SD- 2223	OPERATING SYSTEM CONCEPT –I	III	IE	2
BVSU- 23	S.Y.B.VOC.	SD- 2233	NETWORKING-I	III	IE	2
BVSU- 24	S.Y.B.VOC.	SD- 2243	SOFTWARE ENGINEERING-I	III	IE	2
BVSU- 25	S.Y.B.VOC.	SD- 2253	PRACTICAL I- INTRODUCTION TO C#.NET-I, MINI PROJECT AND SELFLEARNING	III	IP	6
BVSU- 26	S.Y.B.VOC.	SD- 2263	PRACTICAL –II CPP-I, FIELD VISIT AND SELF-LEARNING	III	IP	6
BVSU- 27	S.Y.B.VOC.	SD- 2273	PRACTICAL –III PHP-I, MINI PROJECT AND SELF-LEARNING	III	IP	6
BVSU- 28	S.Y.B.VOC.	SD- 2284	INTRODUCTION TO C#.NET -1 I	IV	IE	2
BVSU- 29	S.Y.B.VOC.	SD- 2294	OBJECT ORIENTED PROGRAMMING USING CPP-II	IV	IE	2
BVSU- 30	S.Y.B.VOC.	SD- 2304	PHP-II	IV	IE	2
BVSU- 31	S.Y.B.VOC.	SD- 2314	OPERATING SYSTEM CONCEPT -II	IV	IE	2

BVSU- 32	S.Y.B.VOC.	SD- 2324	NETWORKING-II		IE	2
BVSU- 33	S.Y.B.VOC.	SD- 2334	SOFTWARE ENGINEERING-II		IE	2
BVSU- 34	S.Y.B.VOC.	SD- 2344	RACTICAL I- INTRODUCTION TO C#.NET-II, PROJECT AND SELF-LEARNING		IP	6
BVSU- 35	S.Y.B.VOC.	SD- 2354	ACTICAL –II CPP-II, FIELD VISIT AND SELF-LEARNING		IP	6
BVSU- 36	S.Y.B.VOC.	SD- 2364	PRACTICAL –III PHP-II, PROJECT AND SELF-LEARNING	IV	IP	6
BVSU- 37	T.Y.B.VOC.	SD- 3375	ASP.NET	v	IE	2
BVSU- 38	T.Y.B.VOC.	SD- 3385	CORE JAVA	v	IE	2
BVSU- 39	T.Y.B.VOC.	SD- 3395	WEB DEVELOPMENT USING CMS-I	v	IE	2
BVSU- 40	T.Y.B.VOC.	SD- 3405	OBJECT ORIENTED SOFTWARE ENGINEERING	v	IE	2
BVSU- 41	T.Y.B.VOC.	SD- 3415	RDBMS	v	IE	2
BVSU- 42	T.Y.B.VOC.	SD- 3425	MOBILE COMPUTING	v	IE	2
BVSU- 43	T.Y.B.VOC.	SD- 3435	PRACTICAL I- ASP.NET, PROJECT AND SELF-LEARNING	v	IP	6
BVSU- 44	T.Y.B.VOC.	SD- 3445	PRACTICAL –II- CORE JAVA, FIELD VISIT AND SELF LEARNING	v	IP	6
BVSU- 45	T.Y.B.VOC.	SD- 3455	PRACTICAL –III - WEB DEVELOPMENT USING CMS-I, PROJECT AND SELF-LEARNING	v	IP	6
BVSU- 46	T.Y.B.VOC.	SD- 3466	MOBILE PROGRAMMING USING ANDROID	VI	IE	2
BVSU- 47	T.Y.B.VOC.	SD- 3476	ADVANCE JAVA	VI	IE	2
BVSU- 48	T.Y.B.VOC.	SD- 3486	WEB DEVELOPMENT USING CMS-II	VI	IE	2
BVSU- 49	T.Y.B.VOC.	SD- 3496	COMPUTER GRAPHICS	VI	IE	2
BVSU- 50	T.Y.B.VOC.	SD- 3506	SOFTWARE TESTING	VI	IE	2
BVSU- 51	T.Y.B.VOC.	SD- 3516	MULTIMEDIA	VI	IE	2
BVSU- 52	T.Y.B.VOC.	SD- 3526	PRACTICAL I- ANDROID, PROJECT AND SELF-LEARNING	VI	IP	6
BVSU- 53	T.Y.B.VOC.	SD- 3536	PRACTICAL –II- ADVANCE JAVA, FIELD WORK AND SELF LEARNING	VI	IP	6
BVSU- 54	T.Y.B.VOC.	SD- 3546	PRACTICAL –III - WEB DEVELOPMENT USING CMS-II, PROJECT AND SELF-LEARNING	VI	IP	6

#### Name of subject – Introduction to C Programming-I

## Course Code – SD-1021

#### No. of Credit- 2

- 1. To develop Problem Solving abilities using computers
- To teach basic principles of programming
  To develop skills for writing programs using 'C'

Unit	Unit Title	Total	Purpose skills to be developed
No.		Lectures	
1	Programming Languages as Tools	3	
	1.1 Machine language		Know the Prerequisite of C-
	1.2 Assembly language		Programming
	1.3 High level languages		
	1.4 Compilers and Interpreters		
2	Introduction to C	2	Know the History, structure and
	2.1 History		application of C Programming
	2.2 Structure of a C program		
	2.3 Functions as building blocks		
	2.4 Application Aleas		
	2.5 C Program development me		
3	C Takang	10	Basics analogy and torms pood to
3	3 1 Keywords	12	developed C programming
	3 2 Identifiers		
	3.3 Variables		
	3.4 Constants – character, integer, float,		
	string, escape sequences		
	3.5 Data types – built-in and user		
	defined		
	3.6 Operators and Expressions		
	Operator types (arithmetic, relational,		
	logical, assignment, bitwise, conditional		
	other operators),Precedence and		
	associativity rules.	-	
4	Input and Output	3	I/O in C programming
	4.1 Character input and output		
	4.2 Sumg input and output		
5	Control Structures	10	Know the selection & repetition of
5	5.1 Decision making structures If if	10	statements of C Programming
	else switch		
	5.2 Loop Control structures While do-		
	while for		
	5.3 Nested structures		
	5.4 break and continue		

Unit No	Total Lecture	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	3	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Know the Prerequisite of C- Programming
2	2	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Know the History, structure and application of C Programming
3	12	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand Basics analogy and terms need to developed C programming
4	3	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to perform I/O in C programming.
5	10	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Know the selection & repetition of statements of C Programming

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	How to solve problems using computers	R. G. Dromey	Prentice-Hall	
2	Structured Programming approach using C	Forouzan and Gilberg, Thomson	learning publications	
3	The C Programming language	Kernighan and Ritchie	Prentice-Hall	
4	Complete C Reference	Herbert Schildt	Tata McGraw- Hill Education India	

#### Name of subject – Database Management System-I Course Code – SD-1031

### No. of Credit- 2

- 1. Learn and practice data modeling using the entity-relationship and developing database designs.
- 2. Understand the use of Structured Query Language (SQL) and learn SQL syntax.
- 3. Learn the conversion of ER to Relational Model $\setminus$

Unit No	Unit Title	Lectures	Purpose Skill To Be Developed
1	File Structure and Organization 1.1 Introduction 1.2 Logical and Physical Files 1.2.1 File 1.2.2 File Structure 1.2.3 Logical and Physical Files Definitions 1.3 Basic File Operations 1.3.1 Opening Files 1.3.2 Closing Files 1.3.3 Reading and Writing 1.3.4 Seeking 1.4 File Organization 1.4.1 Field and Record structure in file 1.4.2 Record Types	6	Know the Stucture of file,type of file and operation on file
2	Introduction of DBMS 2.1 Overview 2.2 File system Vs DBMS 2.3 Describing & storing data (Data models(relational,hierarchical, network)) 2.4 Levels of abstraction 2.5 Data independence 2.6 Structure of DBMS 2.7 Users of DBMS 2.8 Advantages of DBMS	6	Know the Stucture,uses,lev els of dbms
3	Conceptual Design (E-R model) 3.1 Overview of DB design 3.2 ER data model (entities , attributes, entity sets, relations, relationship sets) , 3.3 Additional constraints (Key constraints, Mapping constraints, Strong & Weak entities, aggregation / generalization) 3.4 Conceptual design using ER modelling ( entities VS attributes, EntityVs relationship, binary Vs ternary, constraints beyond ER), 3.5 Case studies	12	Basics terms need to solve case studies
4	Relational data model	6	Conversion of

4.1 Structure of Relational Databases (concepts of a table, a row, a	ER to relational database
relation, a Tuple and a key in a relational database) 4.2 Conversion of ER to Relational model	
4.3 Integrity constraints ( primary key, referential	
integrity, unique	
constraint, Null constraint, Check constraint)	

Unit No	Total Lecture	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	6	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to Know the Stucture of file,type of file and operation on file
2	6	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to Know the Stucture,uses,levels of dbms
3	12	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to Understand the Basics terms need to solve case studies
4	6	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to understand the conversion of ER to relational data model

Sr.No	Title of Books	Name of Author/s	Publication	Place
1	Database System and	A Silberschatz, H	Tata McGraw-Hill	
	Concepts -	Korth, S Sudarshan,	Education India	
2	Database Systems	Rob, Coronel,	Cengage Learning.	
		Seventh Edition		
3	Database	Johannes	Tata McGraw-Hill	
	Management Systems	Gehrke, Tata	Education India	
4	Fundamentals of	Elmasri and Navathe,	PEARSON	
	Database Systems		Education.	

#### Name of subject-HTML 5 and CSS-I

#### Course Code–SD-1041

#### No. of Credit- 2

- 1. To design and develop a web page using HTML and CSS.
- To learn how to link pages so that they create a web site.
  To use graphics in web design.

Unit	Unit Title	Total	Purpose skills to be developed
No.		Lectures	
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1	Introduction	2	Know the introduction of
	1.1 The World Wide Web (www)		Internet, browsers, VV VV V.
	1.2 HTML History		Know the Prerequisite of Html.
	1.3 Hypertext and Hypertext		
	Markup Language		
	1.4 Introduction to Internet		
	1.5 Understanding Browsers and types		
0	of browsers	0	
2	HIML5 Documents	8	Know the structure of HTML5
	2.1 Dividing the document into 2 parts.		documents and basic tags.
	2.1.1 Headers		
	2.1.2 Body $2.2T_{0.00}$		
	2.2 Lags		
	2.3 Lienents of an ITTVL Document		
	and Formatting)		
	2 3 2 Tag Elements		
	2.4 HTML Page Structure		
	2.5 Marquee and Blink Text		
3	Simple HTML5 nages	6	Basics analogy and tags need to
Ŭ	3.1 Headings	Ũ	developed web page
	3.2 Paragraphs		
	3.3 Links		
	3.4 Images		
	3.5 Comments		
4	Formatting HTML Documents	5	To know the design and develop a
	4.1 Logical styles (source code, text		web page using Logical and
	enhancements, variables)		physical HTML tags.
	4.2 Physical Styles (Bold, Italic,		
	underlined, crossed)		
5	HTML5 Lists	4	To know how to create a list with
	5.1 Ordered Lists		different format.
	5.2 Unordered Lists		
	5.3 Description Lists		
	5.4 Examples on Lists		
6	HTML5 Tables	5	know the arrangement of data in
	6.1 Tags used in table definition		tables by using html5 tags.
	6.2 Tags used for border		
	thickness		
	6.3 Tags used for cell spacing		

6.4 Tags used for table size 6.5 Dividing table with lines	
6 6 Dividing lines with cells	
6.7 Cell types	
6.7.1 Titles cells	
6.7.2 Data cells	

Unit	Total	Innovative	Digital Tools/ Film	Project	Expected
No	Lecture	Methods to be	show and AV		Outcome
1	2	Lecturing Method, Unit Method, Problem Method.	Application Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Know the introduction of Internet,browsers, WWW. Know the Prerequisite of Html
2	8	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Know the structure of HTML5 documents and basic tags.
3	6	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Basics analogy and tags need to developed web page.
4	5	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to know the design and develop a web page using Logical and physical HTML tags.
5	4	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able toto know how to create a list with different format
6	5	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT		Student will able to know the arrangement of data in tables by using html5 tags

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	HTML5 for Web Designers	Jeremy Keith		
2	Sergey's HTML5 & CSS3 Quick Reference	Sergey Mavrody		
3	Introducing HTML5	Remy and Bruce		
4	HTML5: Designing Rich Internet Applications	Matthew David		
5	HTML5 Now: A Step-by-Step Video Tutorial for Getting Started Today	TantekÇelik		
6	www.W3schools.com			

#### Name of subject – Computer Fundamental - I

### Course Code – SD-1051

### No. of Credit- 2

- 1. To Know the Basics Of Computer.
- 2. To Understand the Basics of Operating systems.
- 3. To Understand how to use software packages in day to day activities

Unit No	Unit Title	Total	Purpose skills to be developed
110.		Lectures	
1	Introduction to Computers	8	
	1. Introduction		Understand the basic of computer
	2. Characteristics of Computers		hardware
	3. Block diagram of computer		
	4. Types of computers and		
	features		
	1. Mini Computers		
	2. Micro Computers		
	3. Mainframe Computers		
	4. Super Computers		
	5. Types of Programming		
	Languages		
	1. Machine Languages		
	2. Assembly Languages		
	3. High Level Languages		
	6. Data Organization		
	1. Drives		
	2. Files		
	3. Directories		
2	Types of Memory (Primary And	4	Know the different memory use in
_	Secondary)	•	computer system
	1 RAM		
	2 ROM		
	3 PROM		
	4 FPROM		
3	Secondary Storage Devices	6	Know the different secondary
Ŭ	1 (FD CD HD Pen drive)	Ũ	storage devices used in computer
	2 I/O Devices		system
	3 Scanners		
	4 Digitizers		
	5 Plotters		
	6 LCD		
	7. Plasma Display		
4	7. I lasina Display	10	Poprocontation of different type of
-	for Computers	12	data and arithmetic performed on
	1 Binary Octal Havadacimal		data and antimetic performed on
	1. Dillary, Octal, HEXauccillial		
	2 Interconversion from and		
	2. Interconversion from one		
	system to another		
1	3. BCD code, Gray code, Excess-3		

	code, ASCII code, Concept of	
	parity.	
4.	. Signed and unsigned numbers	
5.	. 1's complement and 2's	
	complement of binary numbers	
	and binary arithmetic	

Unit No	Total Lecture	Innovative Methods to be	Digital Tools/ Film show and AV	Project	Expected Outcome
1	8	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will be able to Understand the basic of computer hardware
2	4	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will be able to Know the different memory use in computer system
3	6	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will be able to Know the different secondary storage devices used in computer system
4	12	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will be able to Represent different type of data and arithmetic performed on data

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	Modern digital Electronics	R.P.Jain	Tata Mc-Graw Hill Publication	
2	Fundamental of Computers	V. Rajaraman	B.P.B. Publications	
3	Fundamental of Computers	P. K. Sinha	B.P.B. Publications	
4	Computer Today	Suresh Basandra		

# Name of subject – Practical –II C Programming-I, Computer Hardware ,OS & N/W, Self Learning

### Course Code – SD-1081

### No. of Credit- 6 (90 Hours)

- 1. To develop Problem Solving abilities using computers
- 2. To teach basic principles of programming
- 3. To develop skills for writing programs using 'C'

Unit No	Unit Title	Total Hours	Purpose skills to be developed
1	Simple programs, Understanding errors and error handling.	3 hours	Understand structure, execution of C-Program
2	Assignment to demonstrate use of data types, simple operators (expressions)	3 hours	Understand the different datatypes and operators used in C-Program
3	Assignment to demonstrate decision making statements(if and if-else, nested structures)	3 hours	Understand different decision making statements
4	Assignment to demonstrate decision making statements(switch case)	3 hours	Understand switch statement
5	Assignment to demonstrate use of simple loops (while, do-while, for loop)	3 hours	Understand different looping statements
6	Assignment to demonstrate use of nested loops	3 hours	Understand nesting of looping statements
7	Assignment to demonstrate menu driven programs (Use of switch)	3 hours	Understand menu driven programs in C
8	Assignment to demonstrate character & string input output	3 hours	Understand Character & string input output in C Program
9	Assignment to demonstrate Formatted input output	3 hours	Understand Formatted input output in C Program
10	Assignment to demonstrate learned techniques in C- Programming	3 hours	Understand how to use different statement in single C-Program
	Total Hours	30 hours	

## Lab Work-C-Programming-I(Based of SD-1021)

## Field Work on Computer Hardware, OS & N/W

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Computer & N/W hardware, installation of OS & different Software	30 hours	Understand different Computer & N/W hardware, installation of OS & different Software

## Self Learning (Seminar, e-Content Activity)

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Seminar & e-Content Development Activity	30 hours	Understand preparation & presentation of seminar and Development of e-Content

## **Teaching Methodology :**

## Lab Work-C-Programming-I(Based of SD-1021)

Unit	Total	Innovative	Digital Tools/ Film	Project	Expected
No	Hours	Methods to be	show and AV		Outcome
		used	Application		
		Lecturing Method,	Wikipedia,Software's		Student will able to
1	3 hours	Unit Method,	You-Tube, Audio-Video	-	perform writing
		Problem Method.	Lectures ,Google		and execution of
			Classroom, PP1		C-Program
		Lecturing Method,	Wikipedia,Software's		Student will able to
		Unit Method,	You-Tube, Audio-Video	-	use different data
2	3 hours	Problem Method.	Lectures ,Google		types and
			Classroom, PPT		operators used in
					C-Program
		Lecturing Method,	Wikipedia,Software's		Student will able to
3	3 hours	Unit Method,	You-Tube, Audio-Video	-	use different
5	0 110013	Problem Method.	Lectures ,Google		decision making
			Classroom, PPT		statements
		Lecturing Method,	Wikipedia,Software's		Student will able to
1	3 hours	Unit Method,	You-Tube, Audio-Video	-	use switch
-		Problem Method.	Lectures ,Google		statement
			Classroom, PPT		_
		Lecturing Method,	Wikipedia,Software's	-	Student will able to
5	3 hours	Unit Method,	You-Tube, Audio-Video		use different
5		Problem Method.	Lectures ,Google		looping statements
			Classroom, PPT		_
		Lecturing Method,	Wikipedia,Software's	-	Student will able to
6	3 hours	Unit Method,	You-Tube, Audio-Video		use nesting of
0	e neare	Problem Method.	Lectures ,Google		looping statements
			Classroom, PPT		
		Lecturing Method,	Wikipedia,Software's	-	Student will able to
7	3 hours	Unit Method,	You-Tube, Audio-Video		use menu driven
		Problem Method.	Lectures ,Google		programs in C

			Classroom, PPT		
8	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use Character & string input output in C Program
9	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use Formatted input output in C Program
10	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able how to use different statement in single C- Program

## Field Work on Computer Hardware, OS & N/W

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	30 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Understand different Computer & N/W hardware, do installation of OS & different Software

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
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		Lecturing Method,	Wikipedia,Software's		Student will able to
	20	Unit Method,	You-Tube, Audio-Video	-	prepare and
1	30	Problem Method.	Lectures ,Google		deliver seminar
	nours		Classroom, PPT		and Development
					of e-Content

## Self Learning (Seminar, e-Content Activity)

### **References :**

Sr.	Title of Books	Name of	Publication	Place
No		Author/s		
1	How to solve problems	R. G. Dromey	Prentice-Hall	
	using computers			

Unit	Unit Title	Total	Purpose skills to be developed
No.		Hours	

2	Structured Programming approach using C	Forouzan and Gilberg, Thomson	learning publications	
3	The C Programming language	Kernighan and Ritchie	Prentice-Hall	
4	Complete C Reference	Herbert Schildt	Tata McGraw- Hill Education India	

#### Name of subject-Practical -III DBMS-I ,HTML5 & CSS3, Mini Project, Self Learning

#### Course Code–SD-1091

#### No. of Credit- 6 (90 Hours)

- 1. To develop skills in analyzing the usability of website.
- 2. Learn the language of the web:HTML and css.
- 3. Develop basic programming skills.
- 4. To develop table, heading levels, links within a web page.
- 5. To create a web page by using formatting tags and develop a web page more attractive.
- 6. To understand organizing, structuring and storing database.

1	Assignment on Installation of " SUBLIME TEXT 2", Basic html Program (structure)	3 hours	Understand the installation process and structure of HTML5.
2	Assignment on Marquee tag & other text formatting tag.	3 hours	Understand scrolling text and other formatting tags to develop static web page.
3	Assignment on Program headings,paragraphs.	3 hours	Understand basic heading tags and paragraph need to developed web page
4	Assignment on Program on links ,images	3 hours	Understand the ability to link other document and beautify webpage by using image tag.
5	Assignment on Physical tag.	3 hours	Develop to publish information on the web page and represent visual effect.
6	Assignment on nested tag.	3 hours	Understand the how we can use tag within tag and demonstrate the simplified output.
7	Assignment Program on order list , unorder list, description list	3 hours	Understand how to listing our items, subjects and menus in form using different types of list tags.
8	Assignment Program onTables and its attributes.	3 hours	Understand how to arrange our data in tabular format using table tag and its attribute.
9	Assignment 9: Conceptual design (E-R Model)	3 hours	Understand ERD and constraint.
10	Assignment 10: Conversion of ER to relational model.	3 hours	Understand conversion ,constraints and different entities.
	Total Hours	30 hours	

## Lab Work- Practical –III DBMS-I ,HTML5 & CSS3,Self Learning(Based on SD-1031& SD-1041)

## Field work based on project

Unit No.	Unit Title	Total Hours	Purpose skills to be developed	
1	Installation of sublimetext and other software and develop a web pages.	30 hours	Understand Installation of Sublime- Text and other software and develop a static website.	

## Self Learning (Seminar, e-Content Activity)

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Seminar & e-Content Development Activity	30 hours	Understand preparation & presentation of seminar and Development of e-Content

Lab Work- Practical –III DBMS-I ,HTML5 & CSS3,Self Learning(Based on SD-1031& SD-1041)

Unit	Total	Innovative Methods to be	Digital Tools/ Film	Project	Expected
NO	nouis	used	Application		Outcome
1	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand the installation process and structure of HTML5.
2	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand scrolling text and other formatting tags to develop static web page.
3	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand basic heading tags and paragraph need to developed web page
4	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able tounderstand the ability to link other document and beautify webpage by using different tags.
5	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to developed to publish information on the web page and represent visual effect.
6	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand the how we can use to tag within tag and demonstrate the simplified output.
7	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand how to listing our items,subjects and menus in form using different types of list tags.

8	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand how to arrange our data in tabular format using table tag and its attribute.
9	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	student will able to understand ERD and constraint.
10	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understandconver sion ,constraints and different entities.

## Field Work Based on project

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	30 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand different tags to develop a static website.

## Self Learning (Seminar, e-Content Activity)

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	30 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to prepare and deliver seminar and Development of e-Content

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	HTML5 for Web Designers	Jeremy Keith		
2	Sergey's HTML5 & CSS3 Quick Reference	Sergey Mavrody		
3	Introducing HTML5	Remy and Bruce		
4	HTML5: Designing Rich Internet Applications	Matthew David		

5	HTML5 Now: A Step-by-Step Video Tutorial for Getting	TantekÇelik	
	Started Today		
6	www.W3schools.com		

Unit	Unit Title	Total	Purpose skills to be developed
No.		Lectures	

Name of subject – Introduction to C Programming-II

Course Code – SD-1112

No. of Credit- 2

- To develop Problem Solving abilities using computers
  To teach basic principles of programming
  To develop skills for writing programs using 'C'

1	Functions in C 1.1 What is a function 1.2 Advantages of Functions 1.3 Standard library functions 1.4 User defined functions :Declaration, definition, function call, parameter passing (by value), return keyword, 1.5 Scope of variables, storage classes 1.6 Recursion	6	Understand Functions in c program
2	Arrays2.1 Array declaration, initialization2.2 Types – one, two andmultidimensional2.3 Passing arrays to functions	6	Understand arrays in c program
3	Pointers3.1 Pointer declaration, initialization3.2 Dereferencing pointers3.3 Pointer arithmetic3.6 Dynamic memory allocation	6	Pointers declaration & uses in c programming
4	Strings 4.1 Declaration and initialization 4.2 Standard library functions 4.3 Strings and pointers 4.4 Array of strings	5	Handling of strings in C programming
5	Command Line Arguments 5.1. Accessing command line arguments	2	Accessing of command line in C program
6	File Handling7.1 Streams7.2 Types of Files7.3 Operations on files7.4 Random access to files	5	Access and use files in c program

Unit No	Total Lecture	Innovative Methods to be	Digital Tools/ Film show and AV	Project	Expected Outcome
4	0	USEC	Application		Otudent will able to
1	6	Lecturing Method,	vvikipedia,Software's		Student will able to
		Unit Method,	You-Tube, Audio-Video	-	Understand
		Problem Method.	Lectures ,Google		Functions in c
			Classroom, PPT		program
2	6	Lecturing Method,	Wikipedia,Software's		Student will able to
		Unit Method,	You-Tube, Audio-Video	-	Understand arrays
		Problem Method.	Lectures ,Google		in c program
			Classroom, PPT		

3	6	Lecturing Method,	Wikipedia,Software's		Student will able to
		Unit Method,	You-Tube, Audio-Video	-	Pointers
		Problem Method.	Lectures ,Google		declaration & uses
			Classroom, PPT		in c programming
4	5	Lecturing Method,	Wikipedia,Software's		Student will able to
		Unit Method,	You-Tube, Audio-Video	-	Handling of strings
		Problem Method.	Lectures ,Google		in C programming
			Classroom, PPT		
5	2	Lecturing Method,	Wikipedia,Software's	-	Student will able to
		Unit Method,	You-Tube, Audio-Video		Accessing of
		Problem Method.	Lectures ,Google		command line in C
			Classroom, PPT		program
6	5	Lecturing Method,	Wikipedia,Software's	-	Student will able to
		Unit Method,	You-Tube, Audio-Video		Access and use
		Problem Method.	Lectures ,Google		files in c program
			Classroom, PPT		

### **References :**

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	How to solve problems using computers	R. G. Dromey	Prentice-Hall	
2	Structured Programming approach using C	Forouzan and Gilberg, Thomson	learning publications	
3	The C Programming language	Kernighan and Ritchie	Prentice-Hall	
4	Complete C Reference	Herbert Schildt	Tata McGraw- Hill Education India	

Name of subject – Database Management System-II Course Code – SD-1122

#### No. of Credit- 2

- 1. Learn and Practice Relational algebra queries.
- 2. Learn and Practice Structured Query Language (SQL) queries
- 3. Apply normalization techniques to normalize the database
- 4. Understand the needs of database processing and learn techniques for controlling the consequences of concurrent data access.

Unit Unit Title	Lectures	Purpose skill To be
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No			developed
1	Relational algebra 1.1 Preliminaries 1.2 Relational algebra (selection, projection,set operations, renaming joins, division) 1.3 Relational algebra queries	4	Basics terms need to solve relational algebra queries
2	SQL (Structured Query Language) 2.1 Introduction 2.2 History Of SQL 2.3 Basic Structure 2.4 DDL Commands 2.5 DML Commands 2.6 Simple Queries 2.7 Nested Queries 2.8 Aggregate Functions 2.9 Clauses	15	Know the history ,structure,commands and basic terms needs to solve SQL queries
3	Relational Database Design 3.1 Introduction 3.2 Anomalies of un normalized database 3.3 Normalization 3.4 Normal Form 3.4.1 1 NF 3.4.2 2 NF 3.4.3 3 NF	7	Know the concept normalization in database and type of normalization
4	<b>Transaction Concepts</b> 4.1 Describe a transaction, properties of transaction, state of the transaction. 4.2 Executing transactions concurrently associated problem in concurrent execution.	4	Know the properties,state of the transaction

Unit No	Total Lecture	Innovative Methods to	Digital Tools/ Film show and AV	Project	Expected Outcome
1	4	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to understand the basics terms need to solve relational algebra queries

2	15	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to Know the history ,structure,commands and basic terms needs to solve SQL queries
3	7	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Student will able to Know theconcept of normalization in database and type of normalization
4	4	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio- Video Lectures ,Google Classroom, PPT	-	Know the properties,state of the transaction

### **References:**

Sr.No	Title of Books	Name of Author/s	Publication	Place
1	Database System and	A Silberschatz, H	Tata McGraw-Hill	
	Concepts	Korth, S Sudarshan,	Education India	
2	Database Systems	Rob, Coronel,	Cengage Learning.	
	-	Seventh Edition		
3	Database	Johannes	Tata McGraw-Hill	
	Management Systems	Gehrke, Tata	Education India	
4	Fundamentals of	Elmasri and Navathe,	PEARSON	
	Database Systems	5thEdition,	Education.	
	-			

Name of subject-HTML 5 and CSS-I

#### Course Code–SD-1132

#### No. of Credit- 2

- To design and develop a web page using HTML and CSS.
  To learn how to link pages so that they create a web site.
  To style your page using CSS, internal style sheets, and external style sheets.
  To use graphics in web design.

Unit	Total	Innovative	Digit	al Tools/ Film	า	Project	Expected
No	Lecture	Methods to be	shov	v and AV			Outcome
		used	Appl	ication			
Uhit	6	Lecturint g i Method,	Wikip	edia <b>, Stati</b> ware	's <b>Pur</b> j	ose skills	<b>s Souble roteviel loplec</b> to
No.		Unit Method,	You-	Tu <b>bec£urdeis</b> -∖	lideo	-	Know the design
1	HTML5	images Method.	Lectu	res ,Gøogle			and develop web
	1.1	Image format (quality,	Glass	room, PPT	Know	the desia	nparge devierbinnage
	tyr	be,)	,		page	using ima	aenah framansestet.
2	2 <u>1.</u>	2 Hagturing Method, ima	gWikip	edia,Software	's	U I	Student will able to
	1.2	₃ ₩ŋѯŧnMe₂thod,	You-	Tube, Audio-∖	ídeo	-	Know the
		Problem Methodeset	Lectu	res ,Google			Prerequisite of
	1.3.2 I	nline Frame(iframe)	Class	room, PPT			different
2	Multimed	lia Tags		2	Know	the Prere	quisiterordiarterent
3	7 2.1	Lecturing Method,	Wikip	edia,Software	ânultir	nedia tags	Student will able to
	2.2	white Method,	You-	Tube, Audio-∖	ideo	-	Know the analogy
	2.1	Brablem Method.	Lectu	res ,Google			and tags need to
	2.4	l Canvas	Class	room, PPT			developed web
							page using html5
3.	T					the ende	and css.
34		Lecturing Method,	Wikip	edia,Software	'gnow	line anaio	
	). 2 1	UNIPMETHOU,	You-	lube, Audio-V		and eee	en or and the south mep
	3.2 3.2	Problem Method.	Lectu	res ,Google	THING	anu 055.	page using CSS.
	- 3	Dackgrounds	Class	room, PPT	,		
5		tline margin	Wikip	edia,Software	Ŝ	-	Student will able to
	3	Unit Wethod, Tables I ists I inks	YOU-	I ube, Audio-V	ideo		To design web
	3 6 Naviga	tion bar and images	Leciu				page using ntmis
4	Types of	CSS	Class	8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tost	vle vour we	eb page using
	4.1	Inline Style sheet		Ū	CSS.	,,	oo pago aonig
	4.2	2 Internal Style sheet					
	4.3 Extern	al Style sheet					
5	Creating	HTML5 forms		7	To de	sian web	page using html5
-	5.1	Input tags			forms	S.	
	5.2	2 Text Field					
	5.3	3 Password Field					
	5.4	Radio Button					
	5.5	5 Checkbox					
	5.6	5 Submit Button					
	5.7 Creatin	ng Forms using CSS					

Sr. Title of Books Name of Publication Place	
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No		Author/s	
1	HTML5 for Web Designers	Jeremy Keith	
2	Sergey's HTML5 & CSS3 Quick Reference	Sergey Mavrody	
3	Introducing HTML5	Remy and Bruce	
4	HTML5: Designing Rich Internet Applications	Matthew David	
5	HTML5 Now: A Step-by-Step Video Tutorial for Getting Started Today	TantekÇelik	
6	www.W3schools.com		

#### Name of subject-Computer Fundamental

### Course Code–SD-1142

#### No. of Credit- 2

- To Know the Basics Of Computer
  To Understand the Basics of Operating systems
  ToUndestand how to use software packages in day to day activities

Unit	Total	Innovative	Digit	al Tools/ Film	า	Project	Expected
No	Lecture	Methods to be	shov	/ and AV			Outcome
		used	Appl	ication			
1	6	Lecturing Method,	Wikip	edia,Software	e's		Student will able to
		Unit Method,	You-	Tube, Audio-∖	/ideo	-	Basic analogy
		Problem Method.	Lectu	res ,Google			terms need to
Unit		Unit Title	Class	roon <b>TiotaP</b> T	Pur	ose skills	honsedeveroped
No.				Lectures	-		operating system.
2	2	Lecturing Method,	Wikip	edia,Software	'S		Student will able to
		Unit Method,	You-	Tube, Audio-∖	lideo	-	Know the History,
1	Operatin	g <b>Bystoleennalvite Storetic</b> es i	inLectu	res ,Google			structure and
	<b>O.S.</b>		Class	room, PPT	Basic	analogy t	eamplincation toof
	1. Do	os - History			hand	e different	ol/perating system.
	2. Fi	es and Directories					operating system.
3	r≱. In	erecturing Method, Ex	teanialip	edia,Software	'S		Student will able to
	Comn	audit Method,	You-	Fube, Audio-∖	lideo	-	Know the
	4. Ba	<sup>tt</sup> Phoblem Method.	Lectu	res ,Google			Prerequisite of Ms-
	Types of	D.S.	Class	room, PPT			Word and term
2	Windows	<b>Operating Environme</b>	nt	2	Know	the Histor	ydestkuepure and
	2.1 Fe	atures of MS – Window	S		applic	ation of W	ipdowshipperating
4	<b>g</b> .1.1	Deterdining Method,	Wikip	edia,Software	'§yste	m.	Student will able to
	2.1.2	Leskit Wethod,	You-	Fube, Audio-∖	lideo	-	To know the
	2.1.3	Problem Method.	Lectu	res ,Google			prerequisite of Ms
	2.1.4	Windows Application	Class	room, PPT			Office.
	2.1.5	cons					
5	7.2 W	Lectoring Method,	Wikip	edia,Software	's	-	Student will able to
	2.2.1		You-	Tube, Audio-V	ideo		Know the linux
	2.2.2	Problem Method.	Lectu	res ,Google			operating system
2	Editors	nd Wand Duagagang	Class	room, PPT	Know	the Drore	and its commands.
3	3 1 Basic	Concents		/	Word		
	3.1 Dasie	oles · MS_Word			Basic	torm to kr	now desktop
	3.3 Introdu	ction to deskton publish	ing		nublig	shina	
4	Snreadsh	eets and Database nacl	290es	8	Tokr	ow the nre	ereguisite of Ms
-	4 1 Purpo	se usage commands	ages	0	Office		
	4.2  MS-E	xcel					
	4.3 Creati	on of files in MS-Access	3				
	4.4 Switch	ning between application	, 1				
	4.5 MS -P	PowerPoint					
5	Linux			7	Know	the linux	operating system
	5.1 File sy	vstem			and it	s commar	nds.
	5.2 Linux	Commands					
	5.3 Permi	ssion and inodes					
	5.4 I/O ree	direction					
	5.5 Pipes						
	5.6 VI Ed	itor					

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	Fundamental of Computers	P. K. Sinha		
2	Fundamental of Computers	V. Rajaraman	B.P.B.	
			Publications	
3	Introducing HTML5	Remy and		
		Bruce		
4	Computer Today	Suresh		
		Basandra		
5	Unix Concepts and Application	Sumitabha Das		
6	MS- Office 2000(For Windows)	Steve Sagman		
7	Computer Networks	Tennenbum		
		Tata MacGrow		

# Name of subject – Practical –II C Programming-I, Computer Hardware ,OS & N/W, Self Learning

#### Course Code – SD-1172

### No. of Credit- 6 (90 Hours)

### **Objectives**:

- 1. To develop Problem Solving abilities using computers
- 2. To teach basic principles of programming
- 3. To develop skills for writing programs using 'C'

## Lab Work-C-Programming-II (Based of SD-1112)

## Field Work on Computer Hardware, OS & N/W

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Computer & N/W hardware, installation of OS & different Software	30 hours	Understand different Computer & N/W hardware, installation of OS & different Software

## Self Learning (Seminar, e-Content Activity)

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Assignment to demonstrate use of simple, recursive functions, scope of Variable.	9 hours	Understand different way of using function in C Program
2	Assignment to demonstrate use of 1D & 2D array in C Program	6 hours	Understand the use of 1D & 2D array in C-Program
3	Assignment to demonstrate use of array and functions)	3 hours	Understand relation between array and function
4	Assignment to demonstrate use of pointers in C-Program	3 hours	Understand use of pointers in C- Program
5	Assignment to demonstrate use string & string handling function in C-Program	3 hours	Understand use of string & string handling function in C-Program
6	Assignment to demonstrate use of Command line arguments in C- Programs	3 hours	Understand use of command line arguments
7	Assignment to demonstrate use of File handling in C programs	3 hours	Understand use of file handling in C Program
	Total Hours	30 hours	
Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Seminar & e-Content Development Activity	30 hours	Understand preparation & presentation of seminar and Development of e-Content

## **Teaching Methodology:**

## Lab Work-C-Programming-I(Based of SD-1112)

Unit	Total	Innovative	Digital Tools/ Film	Project	Expected
No	Hours	Methods to be	show and AV		Outcome

		used	Application		
1	9 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use different way of using function in C Program
2	6 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use 1D & 2D array in C- Program
3	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Understand relation between array and function
4	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use pointers in C- Program
5	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use string & string handling function in C-Program
6	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use command line arguments
7	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to use file handling in C Program

## Field Work on Computer Hardware, OS & N/W

Unit	Total	Innovative	Digital Tools/ Film	Proj	Expected Outcome
No	Hours	Methods to be	show and AV	ect	
		used	Application		
1	30 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to Understand different Computer & N/W hardware, do installation of OS & different Software

## Self Learning (Seminar, e-Content Activity)

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	30 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to prepare and deliver seminar and Development of e-Content

### **References :**

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	How to solve problems using computers	R. G. Dromey	Prentice-Hall	
2	Structured Programming approach using C	Forouzan and Gilberg, Thomson	learning publications	
3	The C Programming language	Kernighan and Ritchie	Prentice-Hall	
4	Complete C Reference	Herbert Schildt	Tata McGraw- Hill Education India	

#### Name of subject-Practical -III DBMS-II ,HTML5&CSS3, Mini Project & Self learning

#### Course Code–SD-1182

#### No. of Credit- 6 (90 Hours)

- 1. To develop skills in analyzing the usability of website.
- 2. Learn the language of the web:HTML and css.
- 3. Develop basic programming skills.
- 4. To develop table, heading levels, links within a web page.
- 5. To create a web page by using formatting tags and develop a web page more attractive.
- 6. Understand the principles of creating an effective web page.

7. To understand organizing, structuring and storing database.

## Lab Work - Practical –III DBMS ,HTML5&CSS3, Self Learning( Based on SD-1122 & SD-1132)

## Mini Project (based on SDT-23)

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Develop a simple web pages.	30 hours	Understand simple software and develop static website.

## Self Learning (Seminar, e-Content Activity)

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Seminar & e-Content Development Activity	30 hours	Understand preparation & presentation of seminar and Development of e-Content

Unit No.	Unit Title	Total Hours	Purpose skills to be developed
1	Practical assignment on Images,frameset.	3 hours	Understand image tags and insert, links images to develop static web page and to display multiple documents at once when browser running on graphical display.
2	Program on Multimedia tag and div tag	3 hours	Understand to adding audio/video in web page.
3	Assignment to demonstrate use inline, internal, external css.	3 hours	Understand to develop webpage using different types of css.
4	Practical assignment on forms.	6 hours	Understand is used to collect user input.
5	DBMS SQL queries	3 hours	Understand Database creation and implementation using various commands. e.g create, alter, drop etc
6	Practical assignment on aggregate function.	3 hours	Understand to solve different queries in simplified ways.
7	Practical assignment on Relational Algebra Queries.	3 hours	Understand to create a database using different relationship. e.g 1:1, 1:M, M:1, M:M
8	Practical assignment on Command, and/or& between clausegroup by& having clause,normalization.	3 hours	Develop relationship using different command and sorting data in proper format.
9	Nested Queries	3 hours	Understand to collect information in a table and modify record using queries
	Total Hours	30 hours	

## Lab Work-DBMS-II and HTML5, CSS3 (SD-1122 & SD-1132)

Unit	Total	Innovative	Digital Tools/ Film	Project	Expected
NO	Hours	Methods to be used	show and AV Application		Outcome
1	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand image tags and insert, links images to develop static web page and to display multiple documents at once when browser running on graphical display.
2	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand to adding audio/video in web page.
3	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand to develop webpage using different types of css.
4	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to create forms which is used to collect user input.
5	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand database creation and implementation using DML command. e.g create, alter, drop etc
6	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand to solve different queries in simplified ways.
7	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to understand create a database using different relationship, e.g.

		1:1, 1:M, M:1, M:M

8	6 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to develop relationship using different command and sorting data in
					proper format.
9	3 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT		Student will able to understand to collect information in a table and modify record using queries

## Mini project

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	1Lecturing Method, Unit Method, Problem Method.Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT		-	Student will able to develop a static website.	

## Self Learning (Seminar, e-Content Activity)

Unit No	Total Hours	Innovative Methods to be used	Digital Tools/ Film show and AV Application	Project	Expected Outcome
1	30 hours	Lecturing Method, Unit Method, Problem Method.	Wikipedia,Software's You-Tube, Audio-Video Lectures ,Google Classroom, PPT	-	Student will able to prepare and deliver seminar and Development of e-Content

Sr. No	Title of Books	Name of Author/s	Publication	Place
1	HTML5 for Web Designers	Jeremy Keith		

2	Sergey's HTML5 & CSS3 Quick Reference	Sergey Mavrody	
3	Introducing HTML5	Remy and Bruce	
4	HTML5: Designing Rich Internet Applications	Matthew David	
5	HTML5 Now: A Step-by-Step Video Tutorial for Getting Started Today	TantekÇelik	
6	www.W3schools.com		