DON BOSCO ARTS & SCIENCE COLLEGE

ANGADIKADAVU

(Affiliated to Kannur University Approved by Government of Kerala)

ANGADIKADAVU P.O., IRITTY, KANNUR – 670706

COURSE PLAN

BCA

(2020 – 23)

SEMESTER - II

ACADEMIC YEAR - (2020-21)

II Semester BCA (2020 - 23)			
SL. No.	Name of Subjects with Code	Name of the Teacher	Duty Hours per week
1.	2A04 Readings on Gender	Sr.Mercy Thomas	4
2.	2A03 ENG Readings on Life and Nature	Jesna Kuriakose	5
3.	2A08-2 MAL Gadhya Mathrukakal	Divya MM	5
4.	2A08-2 HIN Sahithya Aur Prayog	Ashwini E.T	
5.	2B02 BCA Digital Systems	Hebin Layola	3
6.	2B03BCA Object Oriented Programming Using C++	Vineetha Mathew	4
7	2C02 MAT-BCA Mathematics for BCA II	Sneha P Sebastian	4
	Name of Class Incharge		

TIME TABLE

Day	09.50 Am - 10.45 Am	10.45 Am -11.40 Am	11.55 Am -12.50 Pm	01.40 Pm - 02.35 Pm	02.35 Pm - 03.30 Pm
1	2B02 BCA Digital Systems	2B03BCA Object Oriented Programming Using C++	2A08-2 MAL Gadhya Mathrukakal/2A08-2 HIN Sahithya Aur Prayog	2C02 MAT-BCA Mathematics for BCA II	2A03 ENG Readings on Life and Nature
2	2A04 Readings on Gender	2B02 BCA Digital Systems	2B03BCA Object Oriented Programming Using C++	2A08-2 MAL Gadhya Mathrukakal/2A08-2 HIN Sahithya Aur Prayog	2A03 ENG Readings on Life and Nature
3	2A03 ENG Readings on Life and Nature	2A08-2 MAL Gadhya Mathrukakal/2A08-2 HIN Sahithya Aur Prayog	2A04 Readings on Gender	2C02 MAT-BCA Mathematics for BCA II	2B03BCA Object Oriented Programming Using C++

4	**2B02 BCA Digital Systems**	**2A03 ENG Readings on Life and Nature**	**2C02 MAT-BCA Mathematics for BCA II**	**2A04 Readings on Gender**	**2A08-2 MAL Gadhya Mathrukakal/2A08-2 HIN Sahithya Aur Prayog**
5	**2B03BCA Object Oriented Programming Using C++**	**2A03 ENG Readings on Life and Nature**	**2A08-2 MAL Gadhya Mathrukakal/2A08-2 HIN Sahithya Aur Prayog**	**2C02 MAT-BCA Mathematics for BCA II**	**2A04 Readings on Gender**
6	**2A03 ENG Readings on Life and Nature**	**2A08-2 MAL Gadhya Mathrukakal/2A08-2 HIN Sahithya Aur Prayog**	**2C02 MAT-BCA Mathematics for BCA II**	**2B03BCA Object Oriented Programming Using C++**	**2B02 BCA Digital Systems**

Subject Code:	**2A04 ENG**
Subject Name:	**Readings on Gender**
No. of Credits:	**3**
No. of Contact Hours:	**72**
Hours per Week:	**5**
Name of the Teacher:	**Twinkle Thomas**

MODULE- I

1. **An Introduction** ***Kamala Das***
2. **Kitchen Rags** ***Vijila Chirapadu***
3. **Dakshayani Velayudhan- A Biographical Sketch** ***Meera Velayudhan***
4. **Learning to be a Mother** ***Shashi Deshpande***
5. **Is this Desirable?** ***Lalithambika Antharjanam***

MODULE- II

6. **Still I Rise** ***Maya Angelou***
7. **I Am Not that Woman** ***Kishwar Naheed***
8. **Structural Violence and the Trans Struggle for Dignity** ***Gee Imaan Semmalar***
9. **Gender Justice and the Media** ***Ammu Joseph***
10. **Clothing Matters: Visiting the Melmundusamaram in Keralam** ***Sheeba K M***

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	Introducing the Subject
		2	Defining Gender
		3	Difference between gender and sex
2	12-04-2021 To 17-04-2021	4	Kamala Das
		April 14	**Vishu**
		5	An Introduction
		6	An Introduction
		7	An Introduction
		8	Discussing Q & A
3	19-04-2021 To 24-04-2021	9	Kitchen Rags
		10	Kitchen Rags
		11	Kitchen Rags
		12	Discussing Q & A
		13	CLASS TEST
4	26-04-2021 To 01-05-2021	14	Dakshayani Velayudhan- A Biographical Sketch
		15	Dakshayani Velayudhan- A Biographical Sketch
		16	Dakshayani Velayudhan- A Biographical Sketch
		17	Dakshayani Velayudhan- A Biographical Sketch
		18	Dakshayani Velayudhan- A Biographical Sketch
5	03-05-2021 To 08-05-2021	19	Discussing Q & A
		20	Learning to be a Mother
		21	Learning to be a Mother
		22	Learning to be a Mother
		23	Learning to be a Mother
6	10-05-2021 To 15-05-2021	24	Discussing Q & A
		25	Is this Desirable?
		26	Is this Desirable?
		27	Is this Desirable?
		May 13	Edul- Fither
		28	Discussing Q & A
7	17-05-2021 To 22-05-2021	29	Revision and Note Submission
		30	CLASS TEST – Module I
		31	Still I Rise
		32	Still I Rise

No of Weeks	Dates	Session	Topic
		33	Still I Rise
8	24-05-2021 To 29-05-2021	34	Discussing Q & A
		35	I Am Not That Woman
		36	I Am Not That Woman
		37	I Am Not That Woman
		38	I Am Not That Woman
9	31-05-2021 To 05-06-2021	39	Discussing Q & A
		40	CLASS TEST
		41	Structural Violence and trans Struggle for Dignity
		42	Structural Violence and trans Struggle for Dignity
		43	Structural Violence and trans Struggle for Dignity
10	07-06-2021 To 12-06-2021	44	Structural Violence and trans Struggle for Dignity
		45	Structural Violence and trans Struggle for Dignity
		46	Structural Violence and trans Struggle for Dignity
		47	Discussing Q & A
		48	Gender Justice and the Media
11	14-06-2021 To 19-06-2021	49	Gender Justice and the Media
		50	Gender Justice and the Media
		51	Gender Justice and the Media
		52	Gender Justice and the Media
		53	Gender Justice and the Media
12	21-06-2021 To 26-06-2021	54	Discussing Q & A
		55	Clothing Matters: Visiting the Melmundusamaram in Keralam
		56	Clothing Matters: Visiting the Melmundusamaram in Keralam
		57	Clothing Matters: Visiting the Melmundusamaram in Keralam
13	28-06-2021 To 03-07-2021	58	Clothing Matters: Visiting the Melmundusamaram in Keralam
		59	Clothing Matters: Visiting the Melmundusamaram in Keralam
		60	Discussing Q & A
		61	Revision & Note Submission
14	05-07-2021 To 10-07-2021	62	CLASS TEST
		63	Revision- Module I
		64	Revision- Module I
		65	Revision Test
15	12-07-2021	66	Revision- Module II

No of Weeks	Dates	Session	Topic
	To 17-07-2021	67	Revision- Module II
		68	Revision- Module II
		69	Revision- Module II
16	19-07-2021 To 24-07-2021	70	REVISION TEST
		20 July	Bakrid - Holiday
		71	Revision
		72	Revision
			II Semester UG Internal Examination
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		**Study Leave**

Subject Code:	**2A03ENG**
Subject Name:	**READINGS ON LIFE AND NATURE**
No. of Credits:	**4**
No. of Contact Hours:	**90**
Hours per Week:	**5**
Name of the Teacher:	**JESNA KURIAKOSE**

SYLLABUS

Module – I
1. Environmental Studies: Definition, Scope and Importance
2. Concept of an Ecosystem
3. The Fish – Elizabeth Bishop
4. Trophic Cascade – Camille T. Dungy
5. The Rightful Inheritors of the Earth – Vaikom Muhammad Basheer

Module – II
1. Biodiversity
2. Disaster Management: Floods, Earthquakes, Cyclones, Landslides
3. Real Estate - Sebastian
4. The Truth about the Floods – Nissim Ezekiel
5. Matsyagandhi – Sajitha Madathil

Module – III
1. Role of an Individual in Prevention of Pollution
2. Environmental Values
3. The End of Living - The Beginning of Survival – Chief of Seattle
4. Going Local – Helena Norberg-Hodge

Prescribed Textbook: *Nature Matters* by MainSpring Publishers

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	General Introduction and familiarising the syllabus
		2	**Module-1** **Chapter-1** Environmental Studies
		3	Definition and scope
2	12-04-2021 To 17-04-2021	4	Importance of environmental studies
		April 14	**Vishu**
		5	Discussion of comprehensive questions -chapter-1
		6	**Chapter-2** Concept of an Ecosystem
		7	Detailed study of the lesson
		8	Detailed discussion and discussion of comprehensive questions
3	19-04-2021 To 24-04-2021	9	**Chapter-3** The Fish
		10	Detailed study about the poet
		11	Discussion of the poem
		12	Discussion of the poem
		13	Discussing comprehensive questions
		14	Revision-1st 3 chapters
4	26-04-2021 To 01-05-2021	15	Class test- 1st 3 chapters
		16	**Chapter-4** Trophic Cascade
		17	Introduction to the poem and the poet
		18	Detailed discussion of the poem
		19	Discussion of the poem
		20	Discussing comprehensive questions
5	03-05-2021 To 08-05-2021	21	**Chapter-5** The Rightful Inheritors of the Earth
		22	Background study
		23	Students' presentations
		24	Students' presentations
		25	Detailed study of the lesson
		26	Discussing the comprehensive questions
6	10-05-2021 To	27	Class test-chapter 4 and 5
		28	**Module-2** **Chapter-1**

No of Weeks	Dates	Session	Topic
	15-05-2021		Biodiversity
		29	Introduction and definition
		30	Different levels of biodiversity
		May 13	Edul- Fither
		31	Value of biodiversity and major biogeographic zones of India
7	17-05-2021 To 22-05-2021	32	Revision and discussion of comprehensive questions
		33	**Chapter-2** Disaster Management
		34	Difference between mitigation and management
		35	Detailed discussion of the lesson
		36	Detailed discussion of the lesson
		37	Discussion of the comprehensive questions
8	24-05-2021 To 29-05-2021	38	Revision- 1st two chapters
		39	**Chapter-3** Real Estate
		40	Background study and students' presentations
		41	Detailed discussion of the poem
		42	Discussion of the poem
		43	Discussing comprehensive questions
9	31-05-2021 To 05-06-2021	44	**Chapter-4** The Truth about the Floods
		45	Detailed study of the poem
		46	Discussion of the poem
		47	Discussion of comprehensive questions
		48	**Chapter-5** Matsyaganddhi
		49	Background study and introduction to the author
10	07-06-2021 To 12-06-2021	50	Detailed study of the lesson
		51	Study of the lesson
		52	Discussing major themes of the drama
		53	Students' presentations on the problems faced by Araya community women
		54	Discussion of the comprehensive questions
		55	Revision- module 2
11	14-06-2021 To 19-06-2021	56	Class test- module 2
		57	**Module-3** **Chapter-1** Role of an Individual in Prevention of Pollution

No of Weeks	Dates	Session	Topic
		58	Group based presentation of the lesson
		59	Group based presentation of the lesson
		60	Individual presentations of the paragraph questions
		61	Individual presentations of the paragraph questions
12	21-06-2021 To 26-06-2021	62	Discussion of the comprehensive questions
		63	**Chapter-2** Environmental Values
		65	Detailed study of the lesson
		65	Detailed study of the lesson
		66	Discussion of the comprehensive questions
		67	Revision- 1st two chapters
13	28-06-2021 To 03-07-2021	68	**Chapter-3** The End of the Living- The Beginning of the Survival
		69	Background study
		70	Detailed discussion of the lesson
		71	Discussing the comprehensive questions
		72	Discussion and presentation of Paragraph questions and answers
		73	**Chapter-4** Going Local
14	05-07-2021 To 10-07-2021	74	Detailed study of the lesson
		75	Study of the lesson
		76	Students' presentations on consequences of globalisation
		77	Debate- Globalisation v/s Localisation
		78	Discussion of the comprehensive questions
		79	Revision-Module-3
15	12-07-2021 To 17-07-2021	80	Class test-Module 3
		81	Overall revision
		82	Overall revision and doubt clearances
		83	Overall revision and presenting answers of the selected questions
		84	Discussion over the areas of difficulty
		85	Students' presentations on given topics [both inside and outside the syllabus]
16	19-07-2021 To 24-07-2021	86	Students' presentations- remaining part
		20 July	Bakrid – Holiday
		87	Discussion of previous year question papers
		88	Discussion of previous year question papers
		89	Discussion of previous year question papers

No of Weeks	Dates	Session	Topic
		90	Discussion of previous year question papers
			II Semester UG Internal Examination
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		**Study Leave**

Subject Code:	**2B 03 BCA**
Subject Name:	**OBJECT ORIENTED PROGRAMMING USING C++**
No. of Credits:	**2**
No. of Contact Hours:	**36**
Hours per Week:	**2**
Name of the Teacher:	**Vineetha Mathew**

COURSE OUTCOME

CO1: Understanding OOPs concepts such as inheritance and polymorphism and their implementation using C++.

CO2: Ability to develop programs in C++

SYLLABUS

Unit I:

Principles of object-oriented programming; OOP paradigm; Basic concepts of OOP; Benefits; applications. Introduction to C++, Structure of C++ program; Tokens, Keywords, identifiers and constants; Data types, symbolic constants; type compatibility; declaration and dynamic initialization of variables; reference variables. Operators, manipulators; type cast operators; Expressions, implicit conversions; operator overloading; operator precedence; Control structures. (9Hrs)

Unit II:

Functions; function overloading; friend and virtual functions; Math library functions. Structures; Specifying a class; Defining member functions; making an outside function inline; nesting of member functions; private member functions; arrays within a class; memory allocation for objects; static data members; static member functions; arrays of objects; objects as function arguments; friendly functions; returning objects; const member functions; pointer to members; Local classes. (7 Hrs)

Unit III:

Constructors and destructors; dynamic initialization of objects; copy constructor; Dynamic constructors; const objects; Destructors. Operator overloading – definition; overloading unary operators; overloading binary operators; overloading binary operators using friends; manipulation of strings using operators; rules for overloading operators. Type conversions. (7 Hrs)

Unit IV:

Inheritance – defining derived classes; making a private member inheritance; Types of inheritance; virtual base classes; abstract classes; constructors in derived classes; Nesting of classes. Pointers; Pointers to objects; Pointers to derived classes; virtual functions; pure virtual functions. (6 Hrs)

Unit V:

C++ streams; stream classes; unformatted I/O operations; Formatted console I/O operations; Managing output with manipulators. Files – classes for file stream operations; Opening and closing a file; file modes; file pointers and their manipulations; Sequential input and output operation. (7 Hrs)

Books for Study:

1. E. Balagurusamy, Object Oriented Programming with C++, 7th Ed, TMH

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	Introduction
		2	Principles of object-oriented programming; OOP paradigm, Basic concepts of OOP
2	12-04-2021 To 17-04-2021	3	Benefits; applications and Introduction to C++
		April 14	**Vishu**
		4	Structure of C++ program
		5	Tokens, Keywords, identifiers and constants, Data types, symbolic constants
3	19-04-2021 To 24-04-2021	6	Type compatibility; declaration and dynamic initialization of variables; reference variables. Operators, manipulators
		7	Type cast operators; Expressions, implicit conversions; operator overloading; operator precedence; Control structures.
		8	Class Test
4	26-04-2021 To 01-05-2021	9	Functions; function overloading, Friend and virtual functions; Math library functions.
		10	Structures; Specifying a class; Defining member functions
5	03-05-2021 To 08-05-2021	11	Making an outside function inline; nesting of member functions; private member functions; arrays within a class
		12	Memory allocation for objects; static data members; static member functions; arrays of objects
6	10-05-2021 To 15-05-2021	13	Objects as function arguments; friendly functions; returning objects; const member functions; pointer to members; Local classes.
		May 13	Edul- Fither
		14	Class Test
7	17-05-2021 To 22-05-2021	15	Constructors Dynamic initialization of objects; copy constructor; Dynamic constructors; const objects; Destructors.
		16	Operator overloading – definition; overloading unary operators
		17	Overloading binary operators; overloading binary operators using friends
8	24-05-2021	18	Manipulation of strings using operators; rules for overloading operators.

No of Weeks	Dates	Session	Topic
	To 29-05-2021	19	Type conversions.
9	31-05-2021 To 05-06-2021	20	Class Test
		21	Inheritance – defining derived classes; making a private member inheritance
10	07-06-2021 To 12-06-2021	22	Types of inheritance
		23	Types of inheritance
11	14-06-2021 To 19-06-2021	24	Virtual base classes; abstract classes
		25	Constructors in derived classes Nesting of classes
		26	Pointers; Pointers to objects, Pointers to derived classes
12	21-06-2021 To 26-06-2021	27	Virtual functions; Pure virtual functions
		28	Class Test
13	28-06-2021 To 03-07-2021	29	C++ streams; stream classes, Unformatted I/O operations; Formatted console I/O operations
		30	Managing output with manipulators.
		31	Files – classes for file stream operations
14	05-07-2021 To 10-07-2021	32	Opening and closing a file; file modes
		33	File pointers and their manipulations
15	12-07-2021 To 17-07-2021	34	Sequential input and output operation.
		35	Class Test
16	19-07-2021 To 24-07-2021	36	Previous question Paper Discussion
		20 July	Bakrid - Holiday
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		**Study Leave**

Subject Code:	**2B05BCA LAB II**
Subject Name:	**PROGRAMMING IN C++**
No. of Credits:	**1**
No. of Contact Hours:	**36**
Hours per Week:	**2**
Name of the Teacher:	**Vineetha Mathew**

Sample Program List

1. Program to find whether the given number belongs to fibonacci series. (class basics)
2. Program to find whether the string is palindrome or not. Use pointers. (class basics)
3. Write a program to sort n numbers. (class basics)
4. Program to add one day to a given date. (class basics)
5. Program to find the trace and transpose of a matrix. (class basics)
6. Create a class time comprises hr, min and sec as member data and add() and display() as member functions. Use constructor to initialise the object. Write a main function to add two time objects, store it in another time object and display the resultant time (constructors)
7. Program to find biggest, smallest, sum and difference of two numbers using inline function. (inline)
8. Program to find the area and volume of respective figures using function overloading. (function overloading)
9. Program to negate the elements of an array. Use operator overloading function with the operator -. (operator overloading - unary)
10. Program to compare two strings. Use operator overloading (==). Do not use any built in functions. (operator overloading - binary)
11. Addition / Subtraction / Multiplication of complex numbers using classes. (operator overloading)
12. Define a class student with name, reg.no, date of birth and name of college as member data and functions to get and display these details. Design another class Test with subjects of study and grade for each subject as member data and corresponding

input and output functions. Derive a class Result from both Student and Test classes and Print the Result of each student with relevant information. (inheritence)

13. Start with an array of pointers to strings representing the days of the week. Provide functions to sort the strings into alphabetical order. Use pointers (array of pointers)

14. Design two classes A and B with member data n1 and n2 respectively. Set values for each one. Write a program to interchange the values of both A and B. Use friend function. (friend functions)

15. Design a class employee with relevant emp details. Read the details of n emp from the keyboard and write it into a File named empdetails. At the end of writing every n emp details read them back from the same file and display into the screen.

Use separate functions to write and read into and out of the file. (file, can use object pointers)

16. Define a class to represent a bank account. Include the following members :

- Data Members:
    - Name of the depositor.
    - Account number.
    - Type of account.
    - Balance amount in the account.
- Member Functions
    - To assign initial values.
    - To deposit an amount.
    - To withdraw an amount after checking the balance.
    - To display name and balance.

Use appropriate main program. (application level class program)

17. Create a base class called shape. Use this class to store two double type values that could be used to compute the area of figures. Derive two specific classes called TRIANGLE and RECTANGLE from the base SHAPE. Add to the base class, a member function get_data() to initialize base class data members and another member function display_area() to compute and display the area of figures. Make display_area() as a virtual function and redefine this function in the derived class to suite the requirements (virtual functions)

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	Introduction
		2	Sample Program
2	12-04-2021 To 17-04-2021	3	Sample Program
		4	Sample Program
		April 14	**Vishu**
		5	Sample Program
3	19-04-2021 To 24-04-2021	6	Sample Program
		7	Sample Program
		8	Sample Program
4	26-04-2021 To 01-05-2021	9	Lab: Program to find the area and volume of respective figures using function overloading. (function overloading)
		10	Lab: Write a program to sort n numbers. (class basics)
5	03-05-2021 To 08-05-2021	11	Lab: Program to find biggest, smallest, sum and difference of two numbers using inline function. (inline)
		12	Sample Program
6	10-05-2021 To 15-05-2021	13	Lab: Program to find the trace and transpose of a matrix. (class basics)
		14	Lab: Program to find whether the given number belongs to fibonacci series. (class basics)
		May 13	Edul- Fither
7	17-05-2021 To 22-05-2021	15	Lab: Create a class time comprises hr, min and sec. as member data and add() and display() as member functions. Use constructor to initialise the object. Write a main function to add two time objects, store it in another time object and display the resultant time (constructors)
		16	Sample Program
8	24-05-2021 To 29-05-2021	17	Lab: Program to negate the elements of an array. Use operator overloading function with the operator -. (operator overloading - unary)
		18	Sample Program
		19	Lab: Program to compare two strings. Use operator overloading (==). Do not use any built in functions.

No of Weeks	Dates	Session	Topic
			(operator overloading - binary)
9	31-05-2021 To 05-06-2021	20	Lab: Addition / Subtraction / Multiplication of complex numbers using classes. (operator overloading)
		21	Lab: Design two classes A and B with member data n1 and n2 respectively. Set values for each one. Write a program to interchange the values of both A and B. Use friend function. (friend functions)
10	07-06-2021 To 12-06-2021	22	Sample Program
		23	Sample Program
11	14-06-2021 To 19-06-2021	24	Lab: Define a class student with name, reg.no, date of birth and name of college as member data and functions to get and display these details. Design another class Test with subjects of study and grade for each subject as member data and corresponding input and output functions. Derive a class Result from both Student and Test classes and Print the Result of each student with relevant information. (inheritence)
		25	Sample Program
		26	Lab: Program to find whether the string is palindrome or not. Use pointers. (class basics)
12	21-06-2021 To 26-06-2021	27	Lab: Start with an array of pointers to strings representing the days of the week. Provide functions to sort the strings into alphabetical order. Use pointers (array of pointers)
		28	Sample Program
13	28-06-2021 To 03-07-2021	29	Sample Program
		30	Sample Program
14	05-07-2021 To 10-07-2021	31	Lab: Design a class employee with relevant emp details. Read the details of n emp from the keyboard and write it into a File named empdetails. At the end of writing every n emp details read them back from the same file and display into the screen. Use seperate functions to write and read into and out of the file. (file, can use object pointers)
		32	Lab: Define a class to represent a bank account. Include the following members : • Data Members: ○ Name of the depositor. ○ Account number.

No of Weeks	Dates	Session	Topic
			○ Type of account. ○ Balance amount in the account. • Member Functions ○ To assign initial values. ○ To deposit an amount. ○ To withdraw an amount after checking the balance. ○ To display name and balance. Use appropriate main program. (application level class program)
15	12-07-2021 To 17-07-2021	33	Lab: Create a base class called shape. Use this class to store two double type values that could be used to compute the area of figures. Derive two specific classes called TRIANGLE and RECTANGLE from the base SHAPE. Add to the base class, a member function get_data() to initialize base class data members and another member function display_area() to compute and display the area of figures. Make display_area() as a virtual function and redefine this function in the derived class to suite the requirements (virtual functions)
		34	Sample Program
16	19-07-2021 To 24-07-2021	35	Lab: Create a base class called shape. Use this class to store two double type values that could be used to compute the area of figures. Derive two specific classes called TRIANGLE and RECTANGLE from the base SHAPE. Add to the base class, a member function get_data() to initialize base class data members and another member function display_area() to compute and display the area of figures. Make display_area() as a virtual function and redefine this function in the derived class to suite the requirements (virtual functions)
		20 July	Bakrid - Holiday
		36	Record Preparation
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		**Study Leave**

Subject Code:	**2B02 BCA**
Subject Name:	**DIGITAL SYSTEMS**
No. of Credits:	**3**
No. of Contact Hours:	**54**
Hours per Week:	**3**
Name of the Teacher:	**Hebin Layola**

CO1: Introduce the basic and important concepts of Digital Principles and applications
CO2: Familiarize with basic building blocks of Digital systems, Digital Logic and Digital Circuits
CO3: Design simple combinational digital systems.
CO4: Familiarize different number systems, codes and data representation in digital systems

Unit 1:
Introductory Digital Concepts: Digital and Analog Quantities Binary Digits, Logic Levels and Digital Waveforms Basic Logic - Digital IC. Number Systems: Decimal, Binary, Hexa-decimal and Octal - Conversions -CODES: BCD,ASCII, Excess-3, GRAY and UNICODE. BINARY ARITHMETIC: Addition, Subtraction. Data Representation(textbook 2): Data types Complements (1's and 2's)- FixedPoint representation - Floating Point representation. (10 Hrs)

Unit II:
Logic Gates: Inverter-AND-OR-NAND-NOR-XOR-XNOR-positive and Negative logic Examples of IC gates. Boolean Algebra and Logic simplification: Boolean operations and Expressions - Laws and Rules of Boolean Algebra - DeMorgan's Theorem - Boolean analysis of Logic Circuits - Simplification, Standard forms and Truth tables of Boolean Expressions-K-Map, SOP, POS Minimization. (12 Hrs)

Unit III:
Combinational Logic Circuits: Basic Combinational Logic Circuits Implementing Combinational Logic - Universal Property of NAND and NOR gates. Functions of Combinational Logic: Basic overview Basic Adders-Parallel Binary Adders 18Comparators-Decoders-Encoders-Code Converters Parity generators/checkers. Multiplexers Demultiplexers(12 Hrs)

Unit IV:

Flip Flops: Latches Edge triggered Flip flops Master Slave Flip flops-operating characteristics. Counters: Asynchronous counters Synchronous counters - UP/Down synchronous counters - Design of Synchronous counters(10Hrs)

Unit V:

Shift Registers: Basic Shift Registers Functions Serial in/Serial Out Shift Registers - Parallel In/Parallel out Shift Registers Bidirectional Shift Registers Shift Register Counters. Memory: Basics of Semiconductor memories RAM ROM - PROM - EPROM-Flash Memories (10 Hrs)

Books for Study:

1. Thomas L. Floyd, Digital Fundamentals, 11th Ed. Pearson
2. M. Morris Mano, Computer System Architecture, 3rd Ed, Pearson

Books for Reference:

1. Donald P. Leach, Albert Paul Malvino and Gautam Saha, Digital Principles and Applications, 8th Ed, TMH

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	Introductory Digital Concepts: Digital and Analog Quantities.
		2	Binary Digits, Logic Levels and Digital Waveforms
		3	Basic Logic - Digital IC
2	12-04-2021 To 17-04-2021	4	Number Systems: Decimal, Binary, Hexa-decimal and Octal Number
		April 14	**Vishu**
		5	Decimal, Binary, Hexa-decimal and Octal - Conversions
		6	Decimal, Binary, Hexa-decimal and Octal - Conversions
3	19-04-2021 To 24-04-2021	7	Decimal, Binary, Hexa-decimal and Octal - Conversions
		8	Decimal, Binary, Hexa-decimal and Octal - Conversions
		9	CODES: BCD,ASCII
		10	Excess-3, GRAY and UNICODE
		11	BINARY ARITHMETIC: Addition, Subtraction.
4	26-04-2021 To 01-05-2021	12	Data Representation
		13	Data types Complements (1's and 2's)-
		14	Fixed Point representation - Floating Point representation
		15	Revision & Class Test- UNIT I
5	03-05-2021 To 08-05-2021	16	Logic Gates: Inverter-AND-OR
		17	NAND-NOR
		18	XOR-XNOR
6	10-05-2021 To 15-05-2021	19	Positive and Negative logic Examples of IC gates.
		20	Boolean Algebra and Logic simplification:
		13-05-2021	Edul- Fither
		21	Boolean operations and Expressions
7	17-05-2021 To 22-05-2021	22	Laws and Rules of Boolean Algebra
		23	De Morgan's Theorem
		24	Boolean analysis of Logic Circuits
8	24-05-2021 To 29-05-2021	25	Simplification, Standard forms and Truth tables of Boolean Expressions
		26	K-Map
		27	K-Map
9	31-05-2021	28	SOP Minimization
		29	POS Minimization

No of Weeks	Dates	Session	Topic
	To 05-06-2021	30	Revision & Class Test- UNIT II
10	07-06-2021 To 12-06-2021	31	Combinational Logic Circuits: Basic Combinational Logic Circuits Implementing Combinational Logic
		32	Universal Property of NAND and NOR gates.
		33	Functions of Combinational Logic: Basic overview Basic Adders-Parallel Binary Adders
11	14-06-2021 To 19-06-2021	34	Comparators
		35	Decoders-Encoders
		36	Code Converters Parity generators/checkers.
12	21-06-2021 To 26-06-2021	37	Multiplexers & Demultiplexers
		38	Revision & Class Test- UNIT III
		39	Flip Flops: Latches Edge triggered Flip flops Master Slave Flip flops
		40	Operating characteristics.
13	28-06-2021 To 03-07-2021	41	Counters: Asynchronous counters Synchronous counters
		42	Synchronous counters
		43	UP/Down synchronous counters
14	05-07-2021 To 10-07-2021	44	Design of Synchronous counters
		45	Revision & Class Test- UNIT IV
		46	Shift Registers: Basic Shift Registers Functions Serial in/Serial Out Shift Registers
		47	Parallel In/Parallel out Shift Registers
15	12-07-2021 To 17-07-2021	48	Bidirectional Shift Registers
		49	Shift Register Counters
		50	Memory: Basics of Semiconductor memories RAM ROM - PROM -EPROM-Flash Memories
16	19-07-2021 To 24-07-2021	51	Revision & Class Test- UNIT IV
		20 July	Bakrid - Holiday
		52	Previous year question paper discussion
		53	Previous year question paper discussion
		54	Revision & Class Test
			II Semester UG Internal Examination
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination

No of Weeks	Dates	Session	Topic
18	02-08-2021		Study Leave

Subject Code:	**2C02 MAT-BCA**
Subject Name:	**MATHEMATICS FOR BCA II**
No. of Credits:	**4**
No. of Contact Hours:	**72**
Hours per Week:	**4**
Name of the Teacher:	**SNEHA P SEBASTIAN**

Unit I- Differential Calculus - Partial Differentiation

Text: Higher Engineering Mathematics (41st edition), B.S. Grewal

Functions of two or more variables, limits, continuity, partial derivatives, homogeneous functions, Euler's theorem on homogeneous functions, total derivative, differentiation of implicit functions, change of variables.

Unit II - Integral Calculus – Integration and Integration by Successive Reduction

Text: Integral Calculus, Santhi Narayanan and P.K. Mittal, S. Chand

Basics of Integration – Integration by parts, trigonometric integrals, trigonometric substitutions, integration of rational functions by partial fractions

Integration of Trigonometric Functions: Integration of $sin^n x$ where *n* is a positive integer,

Integration of $sin^n x$, evaluation of the definite integral $\int_0^{\frac{\pi}{2}} sin^n x\, dx$, Integration of , $cos^n x$, evaluation of the definite integral $\int_0^{\frac{\pi}{2}} cos^n x\, dx$, , Integration of $sin^p x\, cos^q x$, evaluation of the definite integral $\int_0^{\frac{\pi}{2}} sin^p x\, cos^q x\, dx$, integration of $tan^n x$ (Derivation of formulae omitted)

Unit III Integral Calculus – Multiple Integrals

Text: Thomas' Calculus (12th edition), Maurice D. Weir and Joel Hass, Pearson India Education Services, 2016

Polar co-ordinates, Double and Iterated Integrals over rectangles, double integrals over general regions, triple integrals in rectangular co-ordinates

Unit IV - Linear Algebra - Eigen Values and Cayley-Hamilton Theorem

Text: Higher Engineering Mathematics (41st edition), B.S. Grewal

Eigen values, eigen vectors, properties of eigen values, Cayley- Hamilton theorem (without proof),reduction to diagonal form, similarity of matrices, powers of a matrix, reduction of quadratic form to canonical form, nature of a quadratic form.

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	**Unit 1- Differential calculus- partial differentiation**
		2	Functions of two or more variables
		3	Limits and continuity
2	12-04-2021 To 17-04-2021	4	Problems on limits and continuity
		April 14	**Vishu**
		5	Partial derivatives
		6	Homogeneous functions
		7	Problems
3	19-04-2021 To 24-04-2021	8	Euler's theorem on homogeneous functions
		9	Problems
		10	Total derivatives
		11	Differentiation of implicit functions
4	26-04-2021 To 01-05-2021	12	Problems
		13	Change of variables
		14	CLASS TEST – UNIT I
		15	**Unit II- Integration and integration by successive reduction**
5	03-05-2021 To 08-05-2021	16	Basics of integration
		17	Integration by parts
		18	Problems
		19	Trigonometric integrals
6	10-05-2021 To 15-05-2021	20	Problems
		21	Trigonometric substitution
		22	Integration of rational functions by partial fraction
		23	Problems
		May 13	Edul- Fither
7	17-05-2021 To 22-05-2021	24	Integration of trigonometric functions
		25	Integration of $sin^n x$
		26	Evaluation of the definite integral $\int_0^{\frac{\pi}{2}} sin^n x\, dx$
		27	Problems
8	24-05-2021 To	28	Integration of $cos^n x$
		29	Evaluation of the definite integral $\int_0^{\frac{\pi}{2}} cos^n x\, dx$

No of Weeks	Dates	Session	Topic
	29-05-2021	30	Problems
		31	Integration of $sin^p x\ cos^q x$
		32	Evaluation of the definite integral $\int_0^{\frac{\pi}{2}} sin^p x\ cos^q x\ dx$
9	31-05-2021 To 05-06-2021	33	Problems
		34	Integration of $tan^n x$
		35	Problems
		36	CLASS TEST UNIT II
		37	**Unit III – Integral calculus, Multiple integrals**
10	07-06-2021 To 12-06-2021	38	Polar co-ordinates
		39	Relation between polar and Cartesian co-ordinates
		40	Problems
		41	Double integrals over rectangles
		42	Problems
11	14-06-2021 To 19-06-2021	43	Iterated integrals over rectangles
		44	Problems
		45	Double integrals over general regions
		46	Problems
		47	Triple integrals in rectangular co-ordinates
12	21-06-2021 To 26-06-2021	48	Problems
		49	CLASS TEST UNIT III
		50	**Unit IV – Linear Algebra- Eigen values and Cayley – Hamilton theorem**
		51	Eigen values
		52	Problems
13	28-06-2021 To 03-07-2021	53	Eigen vectors
		54	Problems
		55	Properties of Eigen values
		56	Problems
		57	Cayley – Hamilton theorem
14	05-07-2021 To 10-07-2021	58	Problems
		59	Reduction to diagonal form
		60	Problems
		61	Similarity of matrices
		62	Problems
15	12-07-2021 To 17-07-2021	63	Powers of a matrix
		64	Problems
		65	Reduction of quadratic form to canonical form

No of Weeks	Dates	Session	Topic
		66	Problems
		67	Nature of quadratic form
16	19-07-2021 To 24-07-2021	68	Problems
		20 July	Bakrid - Holiday
		69	CLASS TEST – UNIT IV
		70	Revision Unit I and Previous Question paper Discussion
		71	Revision Unit II and Previous Question paper Discussion
		72	Revision Unit III and Previous Question paper Discussion
			II Semester UG Internal Examination
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		**Study Leave**

Subject Code:	**2A08-2MAL**
Subject Name:	**ഗദ്യ മാതൃകകൾ**
No. of Credits:	**4**
No. of Contact Hours:	**90**
Hours per Week:	**6**
Name of the Teacher:	**DIVYA M M**

COURSE OUTCOMES

1. വിവിധ ഗദ്യ രൂപങ്ങളുടെ ഘടന, പ്രമേയം എന്നിവ സാമാന്യമായി പരിചയപ്പെടുകയും ആസ്വാദന ശേഷി വളർത്തുകയും ചെയുക
2. ജീവിതമെഴുത്തു രൂപങ്ങളായ ആത്മകഥ, ജീവചരിത്രം, സ്മരണ തുടങ്ങിയവയുടെ വായനാനുഭവം രൂപപ്പെടുത്തുക

SYLLABUS

UNIT-1

1. സ്ത്രീജന്മം- കെ.സരസ്വതിയമ്മ
2. മോതിരം - കാരൂർ
3. കൊമ്പിപ്പൂശാരിയുടെ വാതിൽ - ഓ. വി. വിജയൻ
4. മോഹമഞ്ഞ - കെ. ആർ. മീര
5. ആദം - എസ് . ഹരീഷ്

UNIT-2

ആത്മകഥ

1. ജീവിതപാത - ചെറുകാട്

UNIT-3

ജീവചരിത്രം

1. ചങ്ങമ്പുഴ നക്ഷത്രങ്ങളുടെ സ്നേഹഭാജനം - പ്രൊഫ. എം.കെ സാനു

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	ഭാഷ പഠനത്തിന് ഒരു ആമുഖം
		2	കഥ സാഹിത്യത്തിൻറെ ചരിത്രം
		3	കെ. സരസ്വതിയമ്മയെ പരിചയപ്പെടുത്തൽ
2	12-04-2021 To 17-04-2021	4	പെണ്ണെഴുത്ത് സാഹിത്യം ചർച്ച
		April 14	Vishu
		5	പെണ്ണെഴുത്ത് സാഹിത്യം ചർച്ച
		6	സ്ത്രീജന്മം എന്ന കഥയുടെ വിശകലനം
		7	സ്ത്രീജന്മം എന്ന കഥയുടെ വിശകലനം
		8	സ്ത്രീജന്മം എന്ന കഥയുടെ വിശകലനം
3	19-04-2021 To 24-04-2021	9	കെ. സരസ്വതിയമ്മയുടെ കഥകളുടെ ആഖ്യാനപരമായ സവിശേഷതകൾ
		10	കാരൂർ എന്ന എഴുത്തുകാരനെ പരിചയപ്പെടുത്തൽ
		11	കഥകളുടെ മനഃശാസ്ത്രപരത
		12	മോതിരം കഥ വിശകലനം
		13	മോതിരം കഥ വിശകലനം
		14	മോതിരം കഥ വിശകലനം
4	26-04-2021 To 01-05-2021	15	മോതിരം കഥ വിശകലനം
		16	കഥാപാത്രനിരൂപണം തയാറാക്കുന്നതെങ്ങനെ എന്നതിനെക്കുറിച്ചുള്ള ചർച്ച
		17	വ്യത്യസ്ത പ്രണയ കഥ എന്ന രീതിയിൽ മോതിരം കഥ വിശകലനം
		18	കഥയിലെ നാടകീയ സങ്കർഷങ്ങളുടെ വിശകലനം
		19	ക്ലാസ് പരീക്ഷ
		20	ഓ.വി വിജയൻ എന്ന എഴുത്തുകാരനെ പരിചയപ്പെടുത്തൽ
5	03-05-2021 To 08-05-2021	21	മിത്തുകൾ പുരാവൃത്തം ചർച്ച
		22	കൊമ്പിപൂശാരിയുടെ വാതിൽ കഥാവിശദീകരണം
		23	കൊമ്പിപൂശാരിയുടെ വാതിൽ

No of Weeks	Dates	Session	Topic
			കഥാവിശദീകരണം
		24	കൊമ്പിപൂശാരിയുടെ വാതിൽ കഥാവിശദീകരണം
		25	കൊമ്പിപൂശാരിയുടെ വാതിൽ കഥാവിശദീകരണം
		26	കഥയുടെ ആഖ്യാന പരമായ സവിശേഷതകൾ ചർച്ച
6	10-05-2021 To 15-05-2021	27	കടൽ തീരത്ത് കഥയുടെ വിശകലനം
		28	കെ. ആർ. മീര എന്ന എഴുത്തുകാരിയെ പരിചയപ്പെടുത്തൽ
		29	സ്ത്രീപക്ഷ സാഹിത്യം ചർച്ച
		30	സ്ത്രീപക്ഷ സാഹിത്യം ചർച്ച
		May 13	Edul- Fither
		31	മോഹമഞ്ഞ കഥ വിശകലനം
7	17-05-2021 To 22-05-2021	32	മോഹമഞ്ഞ കഥ വിശകലനം
		33	മോഹമഞ്ഞ കഥ വിശകലനം
		34	മോഹമഞ്ഞ കഥ വിശകലനം
		35	കഥാപാത്ര നിരൂപണം എങ്ങനെ തയാറാക്കും എന്നതിനെക്കുറിച്ചു ചർച്ച
		36	കഥാപാത്ര നിരൂപണം എങ്ങനെ തയാറാക്കും എന്നതിനെക്കുറിച്ചു ചർച്ച
		37	എസ്. ഹരീഷ് എന്ന എഴുത്തുകാരനെ പരിചയപ്പെടുത്തൽ
8	24-05-2021 To 29-05-2021	38	മൃഗങ്ങൾ കഥാപാത്രങ്ങൾ ആയുള്ള പ്രമുഖ കഥകളുടെ വിശകലനം
		39	ആദം കഥ വിശകലനം
		40	ആദം കഥ വിശകലനം
		41	ആദം കഥ വിശകലനം
		42	ആദം കഥ വിശകലനം
		43	ആദം കഥ വിശകലനം
9	31-05-2021 To	44	ആദം കഥ വിശകലനം
		45	ആത്മകഥ സാഹിത്യത്തിൻറെ നാൾവഴികൾ

No of Weeks	Dates	Session	Topic
	05-06-2021	46	മലയാളത്തിലെ പ്രധാന ആത്മകഥകൾ വിശകലനം
		47	ചെറുകാട് എന്ന എഴുത്തുകാരനെ പരിചയപ്പെടുത്തൽ
		48	ആതമകഥ വിശകലനം
		49	ആതമകഥ വിശകലനം
10	07-06-2021 To 12-06-2021	50	ആതമകഥ വിശകലനം
		51	ആതമകഥ വിശകലനം
		52	ആതമകഥ വിശകലനം
		53	ആതമകഥ ആഖ്യാന സവിശേഷതകൾ
		54	ആത്മകഥ രചനയുടെ പ്രത്യേകതകൾ ചർച്ച
		55	ആത്മകഥ രചനയുടെ പ്രത്യേകതകൾ ചർച്ച
11	14-06-2021 To 19-06-2021	56	ആത്മകഥ, ജീവചരിത്രം താരതമ്യ പഠനം
		57	ആത്മകഥ, ജീവചരിത്രം താരതമ്യ പഠനം
		58	ആത്മകഥയിലെ കാലഘട്ടം ചർച്ച
		59	ക്ലാസ് പരീക്ഷ
		60	ജീവചരിത്ര സാഹിത്യം നാൾവഴികൾ
		61	ജീവചരിത്രത്തിൻറെ സാമൂഹിക പ്രസക്തി
12	21-06-2021 To 26-06-2021	62	ജീവചരിത്ര സാഹിത്യം വിശകലനം
		63	ജീവചരിത്ര സാഹിത്യം വിശകലനം
		65	മലയാളത്തിലെ പ്രധാന ജീവചരിത്രം വിശകലനം
		65	മലയാളത്തിലെ പ്രധാന ജീവചരിത്രം വിശകലനം
		66	പ്രൊഫ. എം. കെ സാനുവിനെ പരിചയപ്പെടുത്തൽ
		67	ചങ്ങമ്പുഴ കവി പരിചയം
13	28-06-2021 To 03-07-2021	68	ചങ്ങമ്പുഴ കൃതികൾ വിശകലനം
		69	ചങ്ങമ്പുഴ കൃതികൾ വിശകലനം
		70	കാല്പനിക പ്രസ്ഥാനം ചർച്ച
		71	ഇടപ്പള്ളി കവിതകൾ, ചങ്ങമ്പുഴ കവിതകൾ വിശകലനം
		72	മലയാളത്തിലെ ഓർഫ്യൂസ് എന്ന നിലയിൽ

No of Weeks	Dates	Session	Topic
			ചങ്ങമ്പുഴയെ പരിചയപ്പെടുത്തൽ
		73	ജീവചരിത്രം വിശകലനം
14	05-07-2021 To 10-07-2021	74	ജീവചരിത്രം വിശകലനം
		75	ജീവചരിത്രം വിശകലനം
		76	ജീവചരിത്രം വിശകലനം
		77	ജീവചരിത്ര രചനയിലെ പ്രത്യേകതകൾ വിശകലനം
		78	ജീവചരിത്ര രചനയിലെ പ്രത്യേകതകൾ വിശകലനം
		79	ജീവചരിത്രത്തിലെ ചരിത്രം ചർച്ച
15	12-07-2021 To 17-07-2021	80	മുൻകാല ചോദ്യപേപ്പർ വിശകലനം
		81	മുൻകാല ചോദ്യപേപ്പർ വിശകലനം
		82	മുൻകാല ചോദ്യപേപ്പർ വിശകലനം
		83	Revision- Unit-1
		84	Revision- Unit-2
		85	Revision- Unit-3
16	19-07-2021 To 24-07-2021	86	Revision- Unit-3
		20 July	Bakrid - Holiday
		87	മുൻകാല ചോദ്യപേപ്പർ വിശകലനം
		88	മാതൃക പരീക്ഷ- Unit-1
		89	മാതൃക പരീക്ഷ- Unit-2
		90	മാതൃക പരീക്ഷ- Unit-3
			II Semester UG Internal Examination
17	26-07-2021 To 30-07-2021		**II Semester UG Internal Examination**
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		**Study Leave**

Subject Code:	2A08-2HIN
Subject Name:	COMMON COURSE - Sahithya Aur prayog
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	E.T. Ashwni

Semester	Course code	Hours per week	Credit	Exam hours
2	2A08-2HIN	5	4	3

Unit I :
कहानी
1.प्रेमचन्द - परीक्षा
2.फणीश्वरनाथ रेण– पंचलाइट
3.मन्नु भण्डारी – यही सच है
4.मैत्रेयी पुष्पा– बिछडे हुए

Unit II :
पत्र लेखन का महत्व– वाणिज्यक या व्यावसायिक पत्र लेखन – उसकी विशेषताएं – व्यावसायिक पत्र का स्वरूप – व्यावसायिक पत्र के प्रकार – पछूताछ संबंधी – व्यापारिक प्रस्ताव , माल मंगाने के आदेश संबंधी – संदर्भ पत्र– शिकायती –तकादे या भुगतान संबंधी – बैंक और बीमा संबंधी – आवेदन पत्र–परिपत्र। वार्तालाप समकालीन विषयो पर आधारित ।

Unit III:
अनुवाद – उसकी आवश्यकता और महत्व– साहित्यिक अनुवाद – समाचार पत्रो के लेख का अनुवाद –वैज्ञानिक लेख तथा सामाजिक शास्त्र से संबंधित लेखों का अनुवाद – किसी परिच्छेद का हिंदी से अंग्रेजी में तथा अंग्रेजी से हिंदी में अनुवाद।

Unit IV:
व्याकरण – संज्ञा – सर्वनाम – लिंग – वचन – परुष – विशेषण – क्रिया – काल –कारक – मुहावरे एवं कहावतें ।

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	08-04-2021 To 10-04-2021	1	हिंदी भाषा और साहित्य का परिचय
		2	समकालीन हिंदी कहानी
		3	प्रेमचंद- लेखक परिचय
2	12-04-2021 To 17-04-2021	4	परीक्षा
		April 14	Vishu
		5	परीक्षा
		6	परीक्षा
		7	परीक्षा
		8	कक्षा परीक्षा
3	19-04-2021 To 24-04-2021	9	फणीश्वरनाथ रेणु- लेखक परिचय
		10	पंचलाइट
		11	पंचलाइट
		12	पंचलाइट
		13	कक्षा परीक्षा
		14	मन्नु भण्डारी - लेखिका परिचय
4	26-04-2021 To 01-05-2021	15	यही सच है
		16	यही सच है
		17	यही सच है
		18	यही सच है
		19	यही सच है
		20	यही सच है
5	03-05-2021 To 08-05-2021	21	कक्षा परीक्षा
		22	मैत्रेयी पुषपा- लेखिका परिचय
		23	बिछडे हुए
		24	बिछडे हुए
		25	बिछडे हुए
		26	बिछडे हुए
6	10-05-2021 To 15-05-2021	27	बिछडे हुए
		28	कक्षा परीक्षा
		29	पत्र लेखन का महत्व
		30	व्यावसायिक पत्र
		May 13	Edul- Fither
		31	व्यावसायिक पत्रो के प्रकार

No of Weeks	Dates	Session	Topic
7	17-05-2021 To 22-05-2021	32	पूछताछ संबंधी पत्र
		33	माल मंगाने के आदेश पत्र
		34	आवेदन पत्र
		35	शिकायती पत्र
		36	तकादे या भुगतान संबंधी पत्र
		37	बैंक और बीमा संबंधी पत्र
8	24-05-2021 To 29-05-2021	38	कक्षा परीक्षा
		39	समकालीन विषयो पर आधारित वार्तालाप
		40	समकालीन विषयो पर आधारित वार्तालाप
		41	अनुवाद
		42	अनुवाद की आवश्यक्ता और महत्व
		43	परिच्छेदो का अनुवाद
9	31-05-2021 To 05-06-2021	44	हिंदी से अंग्रेजी मे अनुवाद
		45	हिंदी से अंग्रेजी मे अनुवाद
		46	अंग्रेजी से हिंदी मे अनुवाद
		47	अंग्रेजी से हिंदी मे अनुवाद
		48	अनुवाद का अभ्यास
		49	कक्षा परीक्षा
10	07-06-2021 To 12-06-2021	50	हिंदी भाषा और व्याकरण- परिचय
		51	वर्ण विचार
		52	शब्द विचार
		53	संज्ञा
		54	संज्ञा के भेद
		55	सर्वनाम
11	14-06-2021 To 19-06-2021	56	सर्वनाम के भेद
		57	कक्षा परीक्षा
		58	लिंग
		59	पुल्लिंग शब्दो की पहचान
		60	स्त्रीलिंग शब्दो की पहचान
		61	लिंग बदलने के नियम
12	21-06-2021 To 26-06-2021	62	वचन- पहचान
		63	वचन बदलने के नियम
		65	पुरुष
		65	कक्षा परीक्षा
		66	विशेषण
		67	विशेषण के भेद
13	28-06-2021 To	68	विशेषणो की रूपरचना
		69	विशेषणो की तुलना

	03-07-2021	70	कक्षा परीक्षा
		71	क्रिया
		72	क्रिया के भेद
		73	वियुत्पत्ती के अनुसार क्रिया के भेद
14	05-07-2021 To 10-07-2021	74	कक्षा परीक्षा
		75	काल
		76	वर्तमान काल
		77	भूतकाल
		78	भविष्य काल
		79	कक्षा परीक्षा
15	12-07-2021 To 17-07-2021	80	कारक
		81	कारको के भेद
		82	कारको के भेद
		83	मुहावरे और कहावतें
		84	मुहावरे और कहावतें
		85	मुहावरे और कहावतें
16	19-07-2021 To 24-07-2021	86	कक्षा परीक्षा
		20 July	Bakrid - Holiday
		87	रिविजन
		88	रिविजन
		89	गत वर्षो के प्रश्न पत्रो की चर्चा
		90	गत वर्षो के प्रश्न पत्रो की चर्चा
			II Semester UG Internal Examination
17	26-07-2021 To 30-07-2021		II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
			II Semester UG Internal Examination
18	02-08-2021		Study Leave