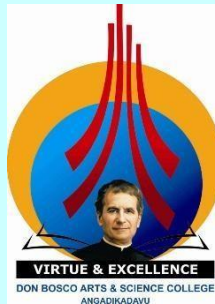


**DON BOSCO ARTS & SCIENCE
COLLEGE**

ANGADIKADAVU

*(Affiliated to Kannur University Approved by Government of
Kerala)*

ANGADIKADAVU P.O., IRITTY, KANNUR – 670706



COURSE PLAN

(B Sc Mathematics)

(2021 - 24)

SEMESTER – II

ACADEMIC YEAR 2021 – 22

II Semester (B Sc Mathematics) (2021 - 24)

Sl. No.	Name of Subjects with Code	Name of the Teacher	Duty Hours Per Week
1.	2A03 ENG: READINGS ON LIFE AND NATURE	ANILA MARY THOMAS	5
2.	2A04 ENG: READINGS ON GENDER	JESNA KURIAKOSE	4
3.	2A08 HIN KAVITHA MATHRUKAKAL	RAJISHA C	4
4.	2A08 HIN RACHANA THATHA	JAINY N.GEORGE	4
5.	2B02MAT:INTEGRAL CALCULUS AND LOGIC	NAJUMUNNISA.K	4
6.	2C02STA :PROBABILITY THEORY AND RANDOM VARIABLES	PRIJA .V , AJEENA JOSEPH	4
7.	2 C02CSC PROGRAMMING IN C	SINDHU P M	2
8.	4C05CSC PROGRAMMING IN C	SINDHU P M	2
	Name Of Class In Charge	NAJUMUNNISA.K	

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	2A08 HIN KAVITHA MATHRUKAKAL 2A08 HIN RACHANA THATHA	2 C02CSC PROGRAMMING IN C	2B02MAT:INTEGRAL CALCULUS AND LOGIC	2A03 ENG: READINGS ON LIFE AND NATURE	2C02STA :PROBABILITY THEORY AND RANDOM VARIABLES
2	2 C02CSC PROGRAMMING IN C	2A04 ENG: READINGS ON GENDER	2A08 HIN KAVITHA MATHRUKAKAL 2A08 HIN RACHANA THATHA	2B02MAT:INTEGRAL CALCULUS AND LOGIC	2A03 ENG: READINGS ON LIFE AND NATURE
3	2A03 ENG: READINGS ON LIFE AND NATURE	2C02STA :PROBABILITY THEORY AND RANDOM VARIABLES	2 C02CSC PROGRAMMING IN C	2A08 HIN KAVITHA MATHRUKAKAL 2A08 HIN RACHANA THATHA	2A04 ENG: READINGS ON GENDER

4	2B02MAT:INTEGRAL CALCULUS AND LOGIC	2A03 ENG: READINGS ON LIFE AND NATURE	2C02STA:PROBABILITY THEORY AND RANDOM VARIABLES	2A08 HIN KAVITHA MATHRUKAKAL 2A08 HIN RACHANA THATHA	2A04 ENG: READINGS ON GENDER
5	2C02STA:PROBABILITY THEORY AND RANDOM VARIABLES	2A03 ENG: READINGS ON LIFE AND NATURE	2B02MAT:INTEGRAL CALCULUS AND LOGIC	2A04 ENG: READINGS ON GENDER	2 C02CSC PROGRAMMING IN C
6	2A04 ENG: READINGS ON GENDER	2B02MAT:INTEGRAL CALCULUS AND LOGIC	2C02STA:PROBABILITY THEORY AND RANDOM VARIABLES	2 C02CSC PROGRAMMING IN C	2B02MAT:INTEGRAL CALCULUS AND LOGIC

Subject Code:	2A03 ENG
Subject Name:	READINGS ON LIFE AND NATURE
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	ANILA MARY THOMAS

SYLLABUS

Course Outcomes

1. Understand the basic themes and issues related to ecology through articles, poems, stories, life writings and historical narratives.
2. Assume ecologically friendly attitudes in events related to everyday life.
3. Identify the specific ecological problems related to Kerala.
4. Identify the major ecological movements around the world and within the country.
5. Ability to express specific opinions when confronted with ecology/development binary.
6. Identify the major or minor ecological issues happening around the student's native place.

Contents

Module – I (2 hours/week)

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 (2 hours/week)

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 hour/week)

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

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	Environmental studies
		2	Definition/ Introduction
		3	Scope of Environmental studies
		4	Importance of Environmental studies
		5	Importance of environmental studies
		12-02-2022	Second Saturday

2	14-02-2022 To 19-02-2022	6	Class Test
		7	Importance of Environmental studies
		8	Importance of Environmental studies
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	9	The Fish – Elizabeth Bishop
		10	The Fish – Elizabeth Bishop
		11	The Fish – Elizabeth Bishop
		12	The Fish – Elizabeth Bishop
		13	The Fish – Elizabeth Bishop
4	28-02-2022 To 05-03-2022	14	Trophic Cascade – Camille T Dungy
		15	Trophic Cascade – Camille T Dungy
		16	Trophic Cascade – Camille T Dungy
		01-03-2022	Shivarathri
		17	Trophic Cascade – Camille T Dungy
5	07-03-2022 To 12-03-2022	18	Class Test
		19	The Rightful Inheritors of the Earth – Basheer
		20	The Rightful Inheritors of the Earth – Basheer
		21	The Rightful Inheritors of the Earth – Basheer
		22	The Rightful Inheritors of the Earth – Basheer
6	14-03-2022 To 19-03-2022	23	Biodiversity
		24	Biodiversity
		25	Biodiversity
		12-03-2022	Second Saturday
		26	Biodiversity
7	21-03-2022 To 26-03-2022	27	Disaster Management
		28	Flood
		29	Earthquake
		30	Earthquake
		31	Cyclone
8	28-03-2022 To 02-04-2022	32	Cyclone
		33	Landslides
		34	Landslides
		35	Real Estate
		36	Real Estate
9	04-04-2022	37	Real Estate
		38	Class Test
		39	The Truth about the Floods
		40	The Truth about the Floods
		41	The Truth about the Floods
	42	The Truth about the Floods	
	43	Matsyagandhi	
	44	Matsyagandhi	

	To 09-04-2022	45	Matsyagandhi
		46	Role of the individual in prevention of pollution
		47	Role of the individual in prevention of pollution
		48	Role of the individual in prevention of pollution
		49	Role of the individual in prevention of pollution
10	11-04-2022 To 16-04-2022	50	Class Test
		51	Class Test
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
		52	I Internal Examination
		53	I Internal Examination
		54	I Internal Examination
		55	I Internal Examination
		56	I Internal Examination
12	25-04-2022 To 30-04-2022	57	Environmental values
		58	Environmental values
		59	Environmental values
		60	Environmental values
		61	Environmental values
		62	The End of Living - The Beginning of survival
		63	The End of Living - The Beginning of survival
13	02-05-2022 To 07-05-2022	02-05-2022	RAMZAN
		64	The End of Living - The Beginning of survival
		65	The End of Living - The Beginning of survival
		66	The End of Living - The Beginning of survival
		67	The End of Living - The Beginning of survival
		68	The End of Living - The Beginning of survival
14	09-05-2022 To 14-05-2022	69	The End of Living - The Beginning of survival
		70	The End of Living - The Beginning of survival
		71	Concept of environmental an Ecosystem
		72	Concept of environmental an Ecosystem
		73	Concept of environmental an Ecosystem
		14-05-2022	Second Saturday
15	16-05-2022 To 21-05-2022	74	Concept of environmental an Ecosystem
		75	Concept of environmental an Ecosystem
		76	Concept of environmental an Ecosystem
		77	Concept of environmental an Ecosystem
		78	Going Local
		79	Going Local
16	23-05-2022	80	II Internal Examination

	To 28-05-2022	81	II Internal Examination
		82	II Internal Examination
		83	II Internal Examination
		84	II Internal Examination
		85	II Internal Examination
17	30-05-2022 To 04-06-2022	86	Going Local
		87	Going Local
		88	Going Local
		89	Going Local
		90	Class Test
			Class Test

Subject Code:	2A04 ENG
Subject Name:	Readings on Gender
No. of Credits:	3
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	Jesna Kuriakose

SYLLABUS

MODULE I

1. An Introduction Kamala Das
2. Kitchen Rags VijilaChirappad
3. DhakshayaniVelayudhan: A Life Sketch"- MeeraVelayudhan
4. Learning to be a Mother ShashiDeshpande
5. Is this Desirable LalithambikaAntharjanam

MODULE II

1. Still I Rise Maya Angelou
2. I Am Not that Woman KishwarNaheed
3. Structural Violence and the Trans Struggle for Dignity Gee ImaanSemmalar
4. Gender Justice and Media Ammu Joseph
5. Clothing Matters: Visiting the MelmunduSamaram in Keralam K M Sheeba

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	Introduction to Gender
		2	Introduction to Gender Equality
		3	Poem "An Introduction " - Kamala Das
		4	Poem " An Introduction " - Kamala Das
		12-02-2022	Second Saturday
2	14-02-2022 To 19-02-2022	5	Poem "Kitchen Rags "
		6	Poem "Kitchen Rags "
		7	Analysis and discussion of the poem "Kitchen Rags "
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	8	"Gender Justice and Media" - Ammu Joseph
		9	"Gender Justice and Media" - Ammu Joseph
		10	Gender Justice and Media" - Ammu Joseph
		11	Group discussion on "Gender Justice and Media"

4	28-02-2022 To 05-03-2022	12	Class Test
		01-03-2022	Shivarathri
		13	"DhakshayaniVelayudhan: A Life Sketch"- MeeraVelayudhan
		14	"DhakshayaniVelayudhan :A Life Sketch"- MeeraVelayudhan
		15	Class Presentation
5	07-03-2022 To 12-03-2022	16	Class Test
		17	"Learning to be a Mother "- ShashiDeshpande
		18	"Learning to be a Mother "- ShashiDeshpande
		19	Discussion on "Learning to be a Mother "
		12-03-2022	Second Saturday
6	14-03-2022 To 19-03-2022	20	"Is this Desirable " - LalithambikaAntharjanam
		21	"Is this Desirable " - LalithambikaAntharjanam
		22	"Is this Desirable"- LalithambikaAntharjanam
		23	Class Presentation
7	21-03-2022 To 26-03-2022	24	Class presentation
		25	Class Test
		26	"Still I Rise" - Maya Angelou
		27	"Still I Rise"- Maya Angelou
8	28-03-2022 To 02-04-2022	28	"Still I Rise"- Maya Angelou
		29	Discussion on "Still I Rise"
		30	Group Discussion
		31	Class Presentation
9	04-04-2022 To 09-04-2022	32	"I'm not that Woman"- KishwarNaheed
		33	"I'm not that Woman " - KishwarNaheed
		34	"I'm not that Woman"- KishwarNaheed
		35	Group Discussion on "I'm not that Woman"
		36	"Structural Violence and the Trans Struggle for Dignity" - Gee ImaanSemmalar
10	11-04-2022 To 16-04-2022	37	"Structural Violence and the Trans Struggle for Dignity"- Gee ImaanSemmalar
		38	Group Discussion
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
		39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
		42	I Internal Examination
		43	I Internal Examination

12	25-04-2022 To 30-04-2022	44	"Clothing Matters: Visiting the Melmundusamaram in Keralam" - K M Sheeba
		45	"Clothing Matters: Visiting the Melmundusamram in Keralam" - KM Sheeba
		46	"Clothing Matters: Visiting the Melmundusamaram in Keralam" - K M Sheeba
		47	Class Presentation
		48	Class Presentation
13	02-05-2022 To 07-05-2022	02-05-2022	RAMZAN
		49	"Clothing Matters: Visiting the Melmundusamaram in Keralam" - K M Sheeba
		50	Class Presentation
		51	Class Presentation
14	09-05-2022 To 14-05-2022	52	Class Test
		53	Revision - Module I
		54	Revision - Module II
		55	Revision
		56	Class Test
		14-05-2022	Second Saturday
15	16-05-2022 To 21-05-2022	57	Class Presentation
		58	Class Presentation
		59	Group Discussion
		60	Revision
		61	Revision
		62	Revision
16	23-05-2022 To 28-05-2022	63	II Internal Examination
		64	II Internal Examination
		65	II Internal Examination
		66	II Internal Examination
		67	II Internal Examination
		68	II Internal Examination
17	30-05-2022 To 04-06-2022	69	Revision
		70	Revision
		71	Revision
		72	Revision

Subject Code:	2B02MAT
Subject Name:	Integral Calculus and Logic
No. of Credits:	4
No. of Contact Hours:	72
Hours per Week:	5
Name of the Teacher:	Najumunnisa.K

SYLLABUS

Module –I:

Unit I – Integration of hyperbolic functions, Reduction formulae (20 hours)

Hyperbolic functions (Section 7.7 of Text 1). Reduction formulae, Integration of $\sin^n x$ evaluation of the definite integral $\int_0^{\pi/2} \sin^n x dx$, Integration of $\cos^n x$, evaluation of the definite integral $\int_0^{\pi/2} \cos^n x dx$, Integration of $\sin^n x \cos^n x$ evaluation of the definite integral $\int_0^{\pi/2} \sin^n x \cos^n x dx$, integration of $\tan^n x$, integration of $\cot^n x$, integration of $\sec^n x$, integration of $\operatorname{cosec}^n x$ (Sections 2.8, 4.1, 4.1.1, 4.2, 4.2.1, 4.3, 4.3.1, 4.4.1, 4.4.2, 4.5.1, 4.5.2 of Text 2)

Module – II:

Unit II – Multiple integrals (20

hours)

Polar coordinates (Sections 11.3 of Text 1). Multiple integrals: Double and iterated integrals over rectangles, double integrals over general regions, area by double integration, double integrals in polar form, triple integrals in rectangular coordinates, triple integrals in cylindrical and spherical co-ordinates, substitution in multiple integrals (Sections 11.3, 15.1, 15.2, 15.3, 15.4, 15.5, 15.7, 15.8 of Text 1).

Module – III:

Unit III - Numerical integration (12

hours)

Numerical integration, Trapezoidal rule, Simpson's 1/3 rd rule (Sections 6.3, 6.3.1, 6.3.2 of Text 3).

Module – IV:

Unit IV – Logic and proofs (20

hours)

Logic and proofs (Appendix A of Text 4). Propositional functions and truth set, Negation of quantified statements (Section 10.11, 10.12 of Text 5).

Prescribed Textbook

1. G.B, Thomas Jr., M.D. Weir and J.R. Hass, Thomas' Calculus (12th edition), Pearson Education
2. S. Narayan and P.K. Mittal, Integral Calculus, S. Chand
3. S. R. K. Iyengar and R. K. Jain, Mathematical methods (2nd edition), Narosa Publishing House
4. R.G. Bartle and D.R. Sherbert, Introduction to Real Analysis (4th edition), Wiley
5. S. Lipschutz, Set Theory and Related Topics (2nd edition), Schaum's Series.

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	Hyperbolic functions,introduction,examples
		2	Problems
		3	Problems
		4	Reduction formula,problems
		12-02-52022	Second Saturday
2	14-02-2022 To 19-02-2022	5	Integration of $\sin^n x$ -problems
		6	Problems
		7	Evaluation of the definite integral $\int_0^{\pi/2} \sin^n x dx$, problems
			College Arts Fest
			College Arts Fest
		8	Problems
3	21-02-2022 To 26-02-2022	9	Integration of $\cos^n x$,problems
		10	Evaluation of the definite integral $\int_0^{\pi/2} \cos^n x dx$,problems
		11	Problems
		12	Integration of $\sin^n x \cos^n x$,problems
		13	Problems
		14	Problems
4	28-02-2022 To 05-03-2022	15	Class test
		16	Shivarathri
		17	Evaluation of the definite integral $\int_0^{\pi/2} \sin^n x \cos^n x dx$,problems
		18	integration of $\tan^n x$, problems
		19	integration of $\cot^n x$, problems
		20	integration of $\sec^n x$, problems
5	07-03-2022 To 12-03-2022	21	integration of $\operatorname{cosec}^n x$, problems
		22	Class test
		23	Polar coordinates,introduction,examples
		24	Problems
		25	Problems
		12-03-2022	Second Saturday

6	14-03-2022 To 19-03-2022	26	Multiple integrals: Double and iterated integrals over rectangles, problems
		27	Double integrals over general regions, problems
		28	problems
		29	Area by double integration, introduction, examples
		30	Double integrals in polar form, problems
7	21-03-2022 To 26-03-2022	31	Problems
		32	Triple integrals in rectangular coordinates, problems
		33	Problems
		34	Triple integrals in cylindrical and spherical coordinates, introduction, examples
8	28-03-2022 To 02-04-2022	35	Problems
		36	Problems
		37	Substitution in multiple integrals, problems
		38	Problems
9	04-04-2022 To 09-04-2022	39	Problems
		40	Class test
		41	Numerical integration, introduction
		42	Examples
10	11-04-2022 To 16-04-2022	43	Problems
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
		44	I Internal Examination
		45	I Internal Examination
		46	I Internal Examination
		47	I Internal Examination
12	25-04-2022 To 30-04-2022	48	I Internal Examination
		49	I Internal Examination
		50	Trapezoidal rule, problems
		51	Problems
13	02-05-2022 To 07-05-2022	52	Problems
		02-05-2022	Ramzan
		53	Simpson's 1/3 rd rule, problems
		54	Problems
14	09-05-2022 To 14-05-2022	55	Problems
		56	Revision
		57	Class test
		58	Logic and proofs ,introduction, examples
15	16-05-2022	14-05-2022	Second Saturday
15	16-05-2022	59	Problems

	To 21-05-2022	60	Propositional functions and truth set, examples
		61	Problems
		62	Problems
16	23-05-2022 To 28-05-2022	63	Problems
		64	II Internal Examination
		65	II Internal Examination
		66	II Internal Examination
		67	II Internal Examination
17	30-05-2022 To 04-06-2022	68	II Internal Examination
		69	II Internal Examination
		70	University Question Paper Discussion
		71	Problems
		72	Revision

Subject Code:	2C02STA
Subject Name:	PROBABILITY THEORY AND RANDOM VARIABLES
No. of Credits:	3
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	Prija V, Ajeena Joseph

SYLLABUS

Unit I: Probability Theory-I

Random experiments, sample space, events, classical definition and frequency approach to probability, Laws of events, sigma field, axiomatic definition of probability, probability space, addition theorem (2 and 3 events), Boole's inequalities.

Unit II: Probability Theory-II

Conditional probability, multiplication theorem, independence of events, pair wise and mutual independence, Baye's theorem and its applications.

Unit III: Random Variables - Discrete and continuous random variables, probability mass function and probability density function, distribution function - definition and properties, transformation of random variables- discrete and continuous.

Unit IV: Bivariate Random Variables - Definitions, joint probability distributions, marginal and conditional distributions, independence of random variables, transformations of bivariate random variables.

Books for Study:

1. Gupta, S. C. & Kapoor, V. K. (1980). *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons, New Delhi.

Books for Reference:

1. Rao, C. R. (1973). *Linear Statistical Inference and its Applications*, 2/e, Wiley, New York.

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	Unit I: Probability Theory-I, Introduction.
		2	Random experiments, Definition.
		3	Exercise problems.
		4	Sample space,
		12-02-2022	Second Saturday
2	14-02-2022 To 19-02-2022	5	Class Test.
		6	Events, Definition.
		7	Exercise problems, Homework.
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	8	Classical definition and frequency approach to probability
		9	Exercise problems.
		10	Laws of events, Exercise problems.
		11	Sigma field, Definition, Exercise problems.
4	28-02-2022 To 05-03-2022	12	Exercise problems, Homework.
		01-03-2022	Shivarathri
		13	Axiomatic definition of probability, Exercise problems.
		14	Exercise problems, Homework.
		15	Probability space, Definition.
5	07-03-2022 To 12-03-2022	16	Addition theorem (2 and 3 events).
		17	Exercise problems.
		18	Boole's inequalities, Definition.
		19	Class Test.
		12-03-2022	Second Saturday
6	14-03-2022 To 19-03-2022	20	Unit II: Probability Theory-II, Introduction.
		21	Conditional probability, Definition.
		22	Exercise problems.
		23	Exercise problems, Homework.
7	21-03-2022 To 26-03-2022	24	Multiplication theorem
		25	Exercise problems.
		26	Independence of events, Definition.
		27	Exercise problems.
8	28-03-2022 To 02-04-2022	28	Class Test.
		29	Exercise problems, Homework.
		30	Pairwise and mutual independence
		31	Exercise problems.
9	04-04-2022	32	Baye's theorem and its applications.
		33	Exercise problems.

	To 09-04-2022	34	Class Test.
		35	Assignment.
10	11-04-2022 To 16-04-2022	36	Unit III: Random Variables - Introduction.
		37	Discrete and continuous random variables, Definition.
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
		38	I Internal Examination
		39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
12	25-04-2022 To 30-04-2022	42	I Internal Examination
		43	Probability mass function and probability density function, Definition.
		44	Exercise problems.
		45	Exercise problems.
		46	Distribution function - definition and properties
13	02-05-2022 To 07-05-2022	02-05-2022	RAMZAN
		47	Class Test.
		48	Exercise problems, Homework.
		49	Transformation of random variables-discrete and continuous, Definition.
		50	Exercise problems.
14	09-05-2022 To 14-05-2022	51	Exercise problems, Homework.
		52	Class Test.
		53	Unit IV: - Introduction, Bivariate Random Variables - Definitions,
		54	Joint probability distributions, Definition.
		55	Exercise problems, Homework.
		14-05-2022	Second Saturday
15	16-05-2022 To 21-05-2022	56	Exercise problems.
		57	Marginal and conditional distributions, Definition.
		58	Exercise problems.
		59	Transformations of bivariate random variables, Definition.
		60	Independence of random variables, Definition.
		61	Exercise problems.
16	23-05-2022 To 28-05-2022	62	II Internal Examination
		63	II Internal Examination
		64	II Internal Examination
		65	II Internal Examination
		66	II Internal Examination
		67	II Internal Examination

17	30-05-2022 To 04-06-2022	68	Revision.
		69	Revision.
		70	Revision.
		71	Question paper discussion.
		72	Question paper discussion.

Subject Code:	2 C02CSC
Subject Name:	PROGRAMMING IN C
No. of Credits:	2
No. of Contact Hours:	36
Hours per Week:	2
Name of the Teacher:	SINDHU P M

SYLLABUS

Unit I: Introduction to C

C Character Set, Constants, Variables, Keywords, Instructions in C (Type Declaration, Arithmetic, Integer and Float Conversions), Operators in C (Arithmetic, Relational, Logical, Increment/Decrement, Assignment, Bitwise), Operator Precedence, Data Types (int, char, float, double, void), Compiling and Running C Programs in Linux. (7 Hrs)

Unit II: Inputs and Control Statements

Formatted Console I/O Functions (printf, scanf), Escape Sequences, Unformatted Console I/O Functions (getch, putch, gets, puts), Decision control structures (Different forms of if statement), Conditional Operator, Case Control Structure (switch), Loop control structure (while, do-while, for), break and continue statements. (10 Hrs)

Unit III: Functions and Pointers

User defined Functions (Advantages, Definition, Calling and Prototype), Library Functions, Pointers (Introduction to Pointers, Pointer Notation, Pointer Declaration and Initialization, Accessing Variable through Pointer), Call by Value and Call by Reference, Recursion (10 Hrs)

Unit IV: Arrays, Strings and Structures

Arrays (Introduction, One Dimensional Arrays, Two Dimensional Arrays), Strings, Standard Library String Functions (strlen, strcpy, strcat, strcmp), Two-Dimensional Array of Characters. Storage Classes in C, Structures (Declaration, Initialization, Accessing Structure Elements), Array of Structures, Array Within Structure, Renaming Data Types with Typedef, C Preprocessors (#define, #include). (9 Hrs)

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	C Character Set, Constants, Variables
		2	Keywords, Instructions in C (Type Declaration, Arithmetic, Integer and Float Conversions)
		3	Operators in C (Arithmetic, Relational, Logical, Increment/Decrement, Assignment, Bitwise)
		12-02-2022	Second Saturday
2	14-02-2022 To 19-02-2022	4	Operator Precedence
		5	Data Types (int, char, float, double, void)
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	6	Compiling and Running C Programs in Linux.
		7	MODULE 1 EXAM
4	28-02-2022 To 05-03-2022	8	Formatted Console I/O Functions (printf)
		01-03-2022	Shivarathri
		9	Formatted Console I/O Functions (scanf)
5	07-03-2022 To 12-03-2022	11	Escape Sequences
		12	Unformatted Console I/O Functions (getch, putch, gets, puts)
		12-03-2022	Second Saturday
6	14-03-2022 To 19-03-2022	13	Decision control structures (Different forms of if statement)
		14	Decision control structures (Different forms of if statement)
7	21-03-2022 To 26-03-2022	15	Conditional Operator, Case Control Structure (switch)
		16	Loop control structure (while, do-while, for)
		17	Break and continue statements
8	28-03-2022 To 02-04-2022	18	MODULE 2 EXAM
		19	User defined Functions -Advantages
		20	User defined Functions –Definition
9	04-04-2022 To 09-04-2022	21	User defined Functions -Calling and Prototype
		22	Library Functions
		23	Introduction to Pointers, Pointer Notation
10	11-04-2022 To 16-04-2022	24	Pointer Declaration and Initialization
		25	Accessing Variable through Pointer
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
	16-04-2022	Easter Holidays	

11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
			I Internal Examination
			I Internal Examination
			I Internal Examination
			I Internal Examination
12	25-04-2022 To 30-04-2022	26	Call by Value and Call by Reference
		27	Recursion
		28	MODULE 3 EXAM
13	02-05-2022 To 07-05-2022	02-05-2022	RAMZAN
		29	Arrays Introduction One Dimensional Arrays, Two Dimensional Arrays)
		30	Strings, Standard Library String Functions (strlen, strcpy, strcat, strcmp)
14	09-05-2022 To 14-05-2022	31	Storage Classes in C
		32	Structures (Declaration, Initialization, Accessing Structure Elements)
		33	Renaming Data Types with Typedef
15	16-05-2022 To 21-05-2022	14-05-2022	Second Saturday
		34	Array of Structures, Array Within Structure
16	23-05-2022 To 28-05-2022	35	C Preprocessors (#define, #include).
			II Internal Examination
17	30-05-2022 To 04-06-2022		II Internal Examination
			II Internal Examination
			II Internal Examination
			II Internal Examination
			II Internal Examination
17	30-05-2022 To 04-06-2022	36	MODULE 4 EXAM

Subject Code:	4C05CSC
Subject Name:	PROGRAMMING IN C
No. of Credits:	2
No. of Contact Hours:	36
Hours per Week:	2
Name of the Teacher:	SINDHU P M

SYLLABUS

C Programming-Lab

1. Write a program to receive an angle in degrees and check whether sum of the squares of sines and cosines of the angle is equal to 1. (Hint: Convert the angle in degrees to radians and apply mathematical functions).
2. Write a C program to check whether a year entered through the keyboard is leap year or not.
3. Write a program to reverse the digits of a positive integer number up to 5 digits. Display an error message if any other number is entered.
4. Write a program to enter numbers till the user wants. At the end, it should display the count of positive, negative and zeros entered.
5. Given the value of n, write a program to generate n Fibonacci numbers.
6. Create a menu driven calculator using switch statement. The menu should contain options for Addition, Subtraction, Multiplication, Division and Exit. The program should end only when the user enters the choice as Exit.
7. Create function which takes an integer value as parameter and returns 1 if the number is prime and 0 otherwise. Write a program which uses this function to generate first 100 prime numbers.
8. Write a program using recursion to find the factorial of a number.
9. Write a program to sort n numbers in ascending/descending order.
10. Write a program to check whether a string is palindrome or not.
11. Write a program to add two matrices. Display an error message if the matrices cannot be added due to incompatibility.
12. Create a structure student with member's roll_no, name and year_of_admn. Write a program to read n students into an array of the structure student. Write a function which takes year as argument and displays the names of students who joined that year. Get an input year from the user and display the student list using this function. (Hint: Make student array and number of students as global variables).

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To	1	Write a program to receive an angle in degrees and check whether sum of the squares of sines and cosines of the angle is equal to 1. (Hint: Convert the angle in degrees to radians and apply mathematical functions).

	12-02-2022	2	Write a program to receive an angle in degrees and check whether sum of the squares of sines and cosines of the angle is equal to 1. (Hint: Convert the angle in degrees to radians and apply mathematical functions).
		3	Write a program to receive an angle in degrees and check whether sum of the squares of sines and cosines of the angle is equal to 1. (Hint: Convert the angle in degrees to radians and apply mathematical functions).
		12-02-2022	Second Saturday
2	14-02-2022 To 19-02-2022	4	Write a C program to check whether a year entered through the keyboard is leap year or not
		5	Write a C program to check whether a year entered through the keyboard is leap year or not
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	6	Write a C program to check whether a year entered through the keyboard is leap year or not
		7	Write a program to reverse the digits of a positive integer number up to 5 digits. Display an error message if any other number is entered.
4	28-02-2022 To 05-03-2022	8	Write a program to reverse the digits of a positive integer number up to 5 digits. Display an error message if any other number is entered.
		01-03-2022	Shivarathri
		9	Write a program to reverse the digits of a positive integer number up to 5 digits. Display an error message if any other number is entered.
5	07-03-2022 To 12-03-2022	11	Write a program to enter numbers till the user wants. At the end, it should display the count of positive, negative and zeros entered
		12	Write a program to enter numbers till the user wants. At the end, it should display the count of positive, negative and zeros entered
		12-03-2022	Second Saturday
6	14-03-2022 To 19-03-2022	13	Write a program to enter numbers till the user wants. At the end, it should display the count of positive, negative and zeros entered
		14	Given the value of n, write a program to generate n Fibonacci numbers.
7	21-03-2022 To 26-03-2022	15	Given the value of n, write a program to generate n Fibonacci numbers.
		16	Given the value of n, write a program to generate n Fibonacci numbers.
		17	Create a menu driven calculator using switch statement. The menu should contain options for Addition, Subtraction, Multiplication, Division and Exit. The program should end only when the user enters the choice as Exit.

8	28-03-2022 To 02-04-2022	18	Create a menu driven calculator using switch statement. The menu should contain options for Addition, Subtraction, Multiplication, Division and Exit. The program should end only when the user enters the choice as Exit.
		19	Create a menu driven calculator using switch statement. The menu should contain options for Addition, Subtraction, Multiplication, Division and Exit. The program should end only when the user enters the choice as Exit.
		20	Create function which takes an integer value as parameter and returns 1 if the number is prime and 0 otherwise. Write a program which uses this function to generate first 100 prime numbers
9	04-04-2022 To 09-04-2022	21	Create function which takes an integer value as parameter and returns 1 if the number is prime and 0 otherwise. Write a program which uses this function to generate first 100 prime numbers
		22	Create function which takes an integer value as parameter and returns 1 if the number is prime and 0 otherwise. Write a program which uses this function to generate first 100 prime numbers
		23	Write a program using recursion to find the factorial of a number.
10	11-04-2022 To 16-04-2022	24	Write a program using recursion to find the factorial of a number.
		25	Write a program using recursion to find the factorial of a number.
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
			I Internal Examination
			I Internal Examination
			I Internal Examination
			I Internal Examination
12	25-04-2022 To 30-04-2022	26	Write a program to sort n numbers in ascending/descending order.
		27	Write a program to sort n numbers in ascending/descending order.
		28	Write a program to check whether a string is palindrome or not.
13	02-05-2022 To	02-05-2022	RAMZAN
		29	Write a program to check whether a string is palindrome or not.

	07-05-2022	30	Write a program to add two matrices. Display an error message if the matrices cannot be added due to incompatibility.
		31	Write a program to add two matrices. Display an error message if the matrices cannot be added due to incompatibility.
14	09-05-2022 To 14-05-2022	32	Write a program to add two matrices. Display an error message if the matrices cannot be added due to incompatibility.
		33	Create a structure student with member's roll_no, name and year_of_admn. Write a program to read n students into an array of the structure student. Write a function which takes year as argument and displays the names of students who joined that year. Get an input year from the user and display the student list using this function. (Hint: Make student array and number of students as global variables)
		14-05-2022	Second Saturday
15	16-05-2022 To 21-05-2022	34	Create a structure student with member's roll_no, name and year_of_admn. Write a program to read n students into an array of the structure student. Write a function which takes year as argument and displays the names of students who joined that year. Get an input year from the user and display the student list using this function. (Hint: Make student array and number of students as global variables)
		35	Create a structure student with member's roll_no, name and year_of_admn. Write a program to read n students into an array of the structure student. Write a function which takes year as argument and displays the names of students who joined that year. Get an input year from the user and display the student list using this function. (Hint: Make student array and number of students as global variables)
16	23-05-2022 To 28-05-2022		II Internal Examination
			II Internal Examination
			II Internal Examination
			II Internal Examination
			II Internal Examination
			II Internal Examination
17	30-05-2022 To 04-06-2022	36	MODEL LAB EXAM

Subject Code:	2A08 HIN
Subject Name:	RACHANA THATHA PRAYOG
No. of Credits:	4
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	JAINY N GEORGE

Semester	Course Code	Hours per week	Credit	Exam hours
2	2A08 HIN	4	4	3

Unit 1:

संज्ञा - संज्ञा के भेद - सर्वनाम - सर्वनाम के भेद - विशेषण - विशेषण के भेद - क्रिया - क्रिया के भेद - प्रेरणार्थक क्रिया - संयुक्त क्रिया - सहायक क्रियाएं (सक, चुक, लग, चाहिए, पड) - लिंग - लिंग की पहचान और लिंग के नियम - वचन - भेद - नियम - कारक - भेद - सर्वनाम की कारकीय रूपरचना - क्रिया विशेषण - भेद - संबंध बोधक - समुच्चयबोधक - विस्मयादिबोधक।

Unit2:

पत्र लेखन - पारिवारिक पत्र - आवेदन पत्र - शिकायती पत्र - अनुवाद -अंग्रेजी से हिंदी में।

Unit3:

संक्षेपण के अभ्यास - संकेत बिंदुओं के आधार पर कहानी लेखन।

Unit4:

1. यात्रा जिसे मैं भुला नहीं पाता
- 2.समय का महत्व
3. इंटरनेट की दुनिया
- 4.प्रदूषण की समस्या
- 5.भ्रष्टाचार: एक समस्या
- 6.सांप्रदायिकता :एक अभिशाप
- 7.आरक्षण :कितना उचित या कितना अनुचित
- 8.भारत में आतंकवाद
- 9.विद्यार्थी और अनुशासन
- 10.खेल और व्यायाम।

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	वर्ण,वर्णमाला
		2	संज्ञा
		3	संज्ञा
		4	संज्ञा
		12-02-2022	Second Saturday
2	14-02-2022 To 19-02-2022	5	सर्वनाम
		6	सर्वनाम
		7	सर्वनाम
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	8	विशेषण
		9	विशेषण
		10	विशेषण
		11	लिंग
4	28-02-2022 To 05-03-2022	12	लिंग
		01-03-2022	Shivarathri
		13	वचन
		14	वचन
5	07-03-2022 To 12-03-2022	15	वचन
		16	क्रिया
		17	क्रिया विशेषण
		18	प्रेरणार्थक क्रिया
		19	संयुक्त क्रिया
6	14-03-2022 To 19-03-2022	12-03-2022	Second Saturday
		20	सहायक क्रिया
		21	लग
		22	चूक
7	21-03-2022 To 26-03-2022	23	पड़
		24	चाहिए
		25	कारक
		26	कारक
8	28-03-2022	27	कारक
8	28-03-2022	28	कारक

	To 02-04-2022	29	कारक
		30	कारक
		31	कारक
9	04-04-2022 To 09-04-2022	32	कारक
		33	संबंध बोधक
		34	संबंधबोधक
		35	संबंध बोधक
		36	समुच्चय बोधक
10	11-04-2022 To 16-04-2022	37	विस्मयादी बोधक
		38	कक्षा परीक्षा
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
		39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
		42	I Internal Examination
12	25-04-2022 To 30-04-2022	43	I Internal Examination
		44	पत्रलेखन
		45	पारिवारिक पत्र
		46	पारिवारिक पत्र
		47	आवेदन पत्र
13	02-05-2022 To 07-05-2022	48	शिकायती पत्र
		02-05-2022	RAMZAN
		49	अनुवाद
		50	अनुवाद
14	09-05-2022 To 14-05-2022	51	अनुवाद
		52	अनुवाद
		53	कक्षा परीक्षा
		54	संक्षेपण
		55	कहानी लेखन
		56	कहानी लेखन
15	16-05-2022 To	14-05-2022	Second Saturday
		57	कहानी लेखन
		58	कहानी लेखन

	21-05-2022	59	भेंट वार्ता
		60	भेंटवार्ता
		61	निबंध
		62	निबंध
16	23-05-2022 To 28-05-2022	63	II Internal examination
		64	II Internal examination
		65	II Internal examination
		66	II Internal examination
		67	II Internal examination
		68	II Internal examination
17	30-05-2022 To 04-06-2022	69	निबंध
		70	निबंध
		71	निबंध
		72	Revision

Subject Code:	2A08 HIN
Subject Name:	കവിത മാതൃകകൾ
No. of Credits:	4
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	RAJISHA C K

COMMON COURSE II

കവിതാ മാതൃകകൾ
(പഠന മണിക്കൂർ 72)

SEMESTER	COURSE CODE	HOURS PER WEEK	CREDIT	EXAM HRS
II	2A08 MAL	4	4	3

യൂണിറ്റ് 1

1. ശ്രീപുണ്ണഖാഗമനം എഴുത്തച്ഛൻ
2. ശരത് വർണ്ണനം - ചെറുശ്ശേരി

യൂണിറ്റ് 2

1. മാപ്പിളപ്പാട്ട് ബദരൽ മുനീർ ഹുസ്സുൽ ജമാൽ -മോയിൻകുട്ടി വൈദ്യർ
2. വേദവിഹാരം - മനുഷ്യ സൃഷ്ടി - കെ വി സൈമൺ
3. കരുണ - (ആദ്യ ഖണ്ഡം മാത്രം) കുമാരനാശാൻ

യൂണിറ്റ് 3

1. ഓണപ്പാട്ടുകാർ- വൈലോപ്പിള്ളി
2. കാലവർഷമേ നന്ദി പി കുഞ്ഞിരാമൻ നായർ
3. അട്ടപ്പാടിയെ സ്വപ്നം കണ്ടു ഞാനിന്നും- സുഗതകുമാരി
4. ഒരു കാലമുണ്ടായിരുന്നു -അയ്യപ്പപ്പണിക്കർ

യൂണിറ്റ് 4

1. മാൻമാർക്ക് കൂട -പി പി രാമചന്ദ്രൻ
2. കട ചൂടി മറഞ്ഞവൾ -എസ് ജോസഫ്

3. പുകയില്ലാത്ത അടുപ്പുകളുടെ ഉപമ -വിരാൻകുട്ടി
4. രാത്രിമരം -വി എം ഗിരിജ
5. പട്ടിജനം- രമ്യ സഞ്ജീവ്

TEACHING SCHEDULE

No of Weeks	Dates	Session	Topic
1	07-02-2022 To 12-02-2022	1	ഭാഷാപഠനത്തിൽ ഒരാമുഖം
		2	കവിതാസാഹിത്യ ചരിത്രം
		3	എഴുത്തച്ഛനും മലയാളഭാഷയും
		4	രാമായണ കഥയിലെ ആരണ്യകാണ്ഡം
		12-02-2022	Second Saturday
2	14-02-2022 To 19-02-2022	5	ശ്രീപുണ്ണവാഗമനം വ്യാഖ്യാനം
		6	ശ്രീപുണ്ണവാഗമനം വ്യാഖ്യാനം
		7	ശ്രീപുണ്ണവാഗമനം വ്യാഖ്യാനം
			College Arts Fest
			College Arts Fest
3	21-02-2022 To 26-02-2022	8	ശ്രീപുണ്ണവാഗമനം വ്യാഖ്യാനം
		9	ശ്രീപുണ്ണവാഗമനം വ്യാഖ്യാനം
		10	ക്ലാസ് പരീക്ഷ 1
		11	കൃഷ്ണഗാഥയും ചെറുശ്ശേരി യും
		12	ഭഗവതം സാമാന്യ പരിചയം
4	28-02-2022 To 05-03-2022	01-03-2022	Shivarathri
		13	ശ്രീകൃഷ്ണ കഥ
		14	ശരത് വർണ്ണനം വ്യാഖ്യാനം
		15	ശരത് വർണ്ണനം വ്യാഖ്യാനം
		16	ശരത് വർണ്ണനം വ്യാഖ്യാനം
5	07-03-2022 To 12-03-2022	17	ശരത് വർണ്ണനം വ്യാഖ്യാനം
		18	ക്ലാസ്സ് പരീക്ഷ 2
		19	മാപ്പിളപ്പാട്ട് സാമാന്യ പരിചയം
		12-03-2022	Second Saturday
		6	14-03-2022
21	ബദുൽ മുനീർ ഹുസ്സുൽ ജമാൽ കഥ		

	To	22	പാഠഭാഗം വ്യാഖ്യാനം
	19-03-2022	23	പാഠഭാഗം വ്യാഖ്യാനം
7	21-03-2022 To 26-03-2022	24	പാഠഭാഗം വ്യാഖ്യാനം
		25	പാഠഭാഗം വ്യാഖ്യാനം
		26	ക്ലാസ്സ് പരീക്ഷ 3
		27	വേദവിഹാരം
8	28-03-2022 To 02-04-2022	28	മനുഷ്യസൃഷ്ടി മായി ബന്ധപ്പെട്ട കഥകൾ
		29	മനുഷ്യസൃഷ്ടി വ്യാഖ്യാനം
		30	മനുഷ്യസൃഷ്ടി വ്യാഖ്യാനം
		31	ക്ലാസ്സ് പരീക്ഷ 4
9	04-04-2022 To 09-04-2022	32	കുമാരനാശാൻ
		33	വാസവദത്തയുടെയും ഉപഗൃഹ്യന്റെയും കഥ
		34	കരുണ വ്യാഖ്യാനം
		35	കരുണ വ്യാഖ്യാനം
		36	കരുണ വ്യാഖ്യാനം
10	11-04-2022 To 16-04-2022	37	ക്ലാസ്സ് പരീക്ഷ 5
		38	കാല്പനിക കവിത
		13-04-2022	Easter Holidays
		14-04-2022	Easter Holidays
		15-04-2022	Easter Holidays
		16-04-2022	Easter Holidays
11	18-04-2022 To 23-04-2022	18-04-2022	Easter Holidays
		39	I Internal Examination
		40	I Internal Examination
		41	I Internal Examination
		42	I Internal Examination
12	25-04-2022 To 30-04-2022	43	I Internal Examination
		44	വൈലോപ്പിള്ളിയും മലയാള കവിതയും
		45	ഓണപ്പാട്ടുകാർ വ്യാഖ്യാനം
		46	ഓണപ്പാട്ടുകാർ വ്യാഖ്യാനം
		47	ഓണപ്പാട്ടുകാർ വ്യാഖ്യാനം
13	02-05-2022 To	48	ഓണപ്പാട്ടുകാർ വ്യാഖ്യാനം
		02-05-2022	RAMZAN
		49	ക്ലാസ്സ് പരീക്ഷ 6
		50	പി കഞ്ഞിരാമൻ നായരും മലയാള കവിതയും

	07-05-2022	51	കാലവർഷമേ നന്ദി വ്യാഖ്യാനം
14	09-05-2022 To 14-05-2022	52	കാലവർഷമേ നന്ദി വ്യാഖ്യാനം
		53	കാലവർഷമേ നന്ദി വ്യാഖ്യാനം
		54	കാലവർഷമേ നന്ദി വ്യാഖ്യാനം
		55	ക്ലാസ്സ് പരീക്ഷ 7
		56	സുഗതകുമാരിയും മലയാളകവിതയും
		14-05-2022	Second Saturday
		15	16-05-2022 To 21-05-2022
58	അട്ടപ്പാടിയെ സ്വപ്നം കണ്ടു ഞാനിന്നും വ്യാഖ്യാനം		
59	അട്ടപ്പാടിയെ സ്വപ്നം കണ്ടു ഞാനിന്നും വ്യാഖ്യാനം		
60	ക്ലാസ്സ് പരീക്ഷ 8		
61	അയ്യപ്പപ്പണിക്കരും ആധുനികതയും		
62	ഒരു കാലമുണ്ടായിരുന്നു വ്യാഖ്യാനം		
16	23-05-2022 To 28-05-2022		
		64	II Internal examination
		65	II Internal examination
		66	II Internal examination
		67	II Internal examination
		68	II Internal examination
17	30-05-2022 To 04-06-2022	69	മാൻമാർക്ക് കൂട
		70	കുട ചൂടി മറഞ്ഞവൾ
		71	പുകയില്ലാത്ത അടുപ്പുകളുടെ ഉപമ
		72	പട്ടി ജൻമം കവിത വിശകലനം