DON BOSCO ARTS & SCIENCE COLLEGE ANGADIKADAVU

(Affiliated to Kannur University Approved by Government of Kerala) ANGADIKADAVU P.O., IRITTY, KANNUR – 670706



COURSE PLAN

BCA

(2021 - 24)

SEMESTER - I

ACADEMIC YEAR 2021 -22

	I Semester (Department Name) (2021 - 24)						
Sl. No.	Name of Subjects with Code	Name of the Teacher	Duty Hours Per Week				
1.	1A01EG: Communicative English 1	Fr. Edwin	5				
2.	1A02ENG: Readings on Kerala	Twinkle Thomas	4				
3.	1A01-2HIN: Naya Sahithya	Jainy N George	5				
4.	1A07-MAL: Sahithya Ganangal	Linet Maria K	5				
5.	1A11BCA : Informatics For Computer Applications	Fincy Cyriac	3				
6	1B01BCA : Programming In C	Sindhu P M	2				
7	2B04BCA Lab I: Programming In C	Sindhu P M	2				
8	1C01 MAT-BCA: Mathematics for BCA I	Najumunnisa.K	4				
	Name of Class In-charge	Fincy Cyriac					

D	ay	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	1A11BCA : Informatics For Computer Applications	1A02ENG: Readings on Kerala	1A01EG: Communicative English 1	1B01BCA : Programming In C	1A01-2HIN: Naya Sahithya Or 1A07-MAL: Sahithya Ganangal
	2	2B04BCA Lab I: Programming In C	1C01 MAT-BCA: Mathematics for BCA I	1A01EG: Communicative English 1	1A01-2HIN: Naya Sahithya Or 1A07-MAL: Sahithya Ganangal	1A02ENG: Readings on Kerala
	3	1A01-2HIN: Naya Sahithya Or 1A07-MAL: Sahithya Ganangal	1A02ENG: Readings on Kerala	1A01EG: Communicative English 1	1A11BCA : Informatics For Computer Applications	1C01 MAT- BCA: Mathematics for BCA I

4	1B01BCA : Programming In C	1C01 MAT-BCA: Mathematics for BCA I	1A01EG: Communicative English 1	1A11BCA : Informatics For Computer Applications	1A01-2HIN: Naya Sahithya Or 1A07-MAL: Sahithya Ganangal
5	1A02ENG: Readings on Kerala	1A01-2HIN: Naya Sahithya Or 1A07-MAL: Sahithya Ganangal	1A01EG: Communicative English 1	1C01 MAT-BCA: Mathematics for BCA I	2B04BCA Lab I: Programming In C
6	1B01BCA : Programming In C	1C01 MAT-BCA: Mathematics for BCA I	1A01EG: Communicative English 1	1A01-2HIN: Naya Sahithya Or 1A07-MAL: Sahithya Ganangal	1A11BCA : Informatics For Computer Applications

Subject Code:	1A01EG
Subject Name:	Communicative English 1
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	Fr.Edwin

Course Outcomes

1. Understand and apply the rubrics of English grammar

2. Recognize and apply the basic patterns in English vocabulary

3. Read and elicit data, information, inferences and interpretations based on a given material in English

4. Develop the ability to speak in English in real life situations

5. Elicit necessary information after listening to an audio material in English

6. Compose academic and non-academic writings including letters, paragraphs and essays on a given topic and CV's for specific purposes

Module 1 (Grammar and Usage)- 2 Hours/Week

Grammar

Articles, Modals, Tenses, Voices, Subject- Verb Agreement, Direct & Reported Speech, Usage

Question Tags, Types of Words, Phrasal Verbs and Idiomatic Expressions.

Module 2 (Listening and Speaking) -2 Hours/Week

Listening

What is Communication?, Phonemes in English, Syllables and Word Stress, Listening to News Bulletins, Listening to Instructions and Directions, Listening to Lectures, Listening to Speeches **Speaking**

Greetings and Introductions, Small Conversations, Talking on Telephone, Making Requests, Making Enquiries, Making Suggestions, Expressing Gratitude, Complaining.

Module 3 (Reading and Writing)- 1 Hour/Week

Reading

Reading Official Letters and Profiles, Reading Advertisements, Reading News Reports, Reading Charts, Reading Online Content.

Writing

Writing Paragraphs, Taking and Making Notes, Essay and Academic Writing, Writing Letters, Writing Resumes.

Prescribed Textbook: Equip: English for Undergraduates by Cambridge University

No of Weeks	Dates	Session	Торіс
	06-10-2021	1	Introduction to the paper
1	То	2	Articles
-	09-10-2021	3	Articles
	07 10 2021	09 October	Second Saturday
		4	Articles
	11-10-2021	5	Articles- Excercises
2	То	6	Articles – Test Paper
	16-10-2021	14 October	Mahanavami
		15 October	Vijayadashami
		7	Modals
		8	Modals
	18-10-2021	19 October	Nabidinam
3	То	9	Tenses
•	23-10-2021	10	Tenses
	23 10 2021	11	Tenses
		12	Tenses
	25-10-2021 To 30-10-2021	13	Tenses
		14	Tenses
4		15	Tenses
		16	Test Paper on Tenses& Modals
		17	Voices
		18	Voices
		19	Voices
	01-11-2021 To 06-11-2021	20	Voices
5		21	Voices
C		04 November	Diwali
		22	Subject Verb Agreement
		23	Subject Verb Agreement
		24	Subject Verb Agreement
	08-11-2021	25	Subject Verb Agreement
6	То	26	Reported Speech
Ŭ	13-11-2021	27	Reported Speech
	15 11 2021	28	Reported Speech
		13 November	Second Saturday
	15-11-2021	29	Reported Speech
7	То	30	Question Tags
	20-11-2021	31	Question Tags
		32	Question Tags

		22	Test Paper on Question Tags, Reported Speech, Subject
		33	Verb agreement and Voice
		34	Types of words
		35	Phrasal verbs and Idiomatic expressions
	22-11-2021	36	Writing paragraphs
8	To	37	Writing paragraphs
0		38	Taking and making notes
	27-11-2021	39	Taking and making notes
		40	Essay and Academic Writing
		41	Essay and Academic Writing
	29-11-2021	42	Essay and Academic Writing
9	To	43	Writing Letters
9		44	Writing Letters
	04-12-2021	45	Writing Letters
		46	Writing Letters
		47	Writing Letters
	06-12-2021	48	Resumes and Cover Letters
10	To	49	Resumes and Cover Letters
10		50	Resumes and Cover Letters
	11-12-2021	51	Test Paper on Writing
		11 December	Second Saturday
	13-12-2021 To 18-12-2021	52	Communication
		53	Phonemes in English
11		54	Phonemes in English
11		55	Syllables and word stress
		56	Syllables and word stress
		57	NEWS and weather forecast
		58	Listening to instructions
		59	Listening to lectures
	20-12-2021	60	Listening to Talks
12	То	61	Greetings and Introductions
	25-12-2021	62	Greetings and Introductions
		24 December	CHRISTMASS VACATION
		25 December	CHRISTMASS VACATION
		27 December	CHRISTMASS VACATION
	27-12-2021	28 December	CHRISTMASS VACATION
13	27 12 2021 То	29 December	CHRISTMASS VACATION
15	01-01-2022	30 December	CHRISTMASS VACATION
	01-01-2022	31 December	CHRISTMASS VACATION
		01 January	CHRISTMASS VACATION
	03-01-2022	63	I Internal Examination
14	05-01-2022	64	I Internal Examination
	То	01	

	08-01-2022	66	Internal Exam Question Paper Discussion
		67	Small Conversations
		68	Talking on Telephone
		69	Making Enquiries
	10-01-2022	70	Making Suggestions
15	То	71	Gratitude and apologising
	15-01-2022	72	Complaining
		73	READIG- Letters and Profiles
		74	Reading Ads
		75	Reading News Report
	17-01-2022	76	Reading Charts, graphs, and tables
16	То	77	Reading online content
10	22-01-2022	78	Revision
		79	Revision
		80	Revision
	24-01-2022 To 29-01-2022	81	Test Paper Module 1&2
		82	Revision
17		26 January	Republic Day
17		83	Revision
		84	Test Paper Module 3
		85	Revision
		86	II Internal Examination
		87	II Internal Examination
	31-01-2022	88	II Internal Examination II Internal Examination
10	То	89	II Internal Examination II Internal Examination
18	05-02-2022	90	

Subject Code:	1A02ENG
Subject Name:	COMMON COURSE – Readings on Kerala
No. of Credits:	3
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	Twinkle Thomas

MODULE 1

- 1. "Conversation": Sree Narayana Guru
- 2. "Curing Caste":Sahodaran Ayyappan
- 3. Excerpts from "Eri": Pradeepan Pambirikkunnu
- 4. Excerpts from Kelu: N. Sasidharan, E.P.Rajagopalan
- 5. Excerpts from "Parting from the Path of Life": Cherukad Govinda Pisharodi

MODULE 2

- 1. "About My Race: A Song": PoykayilAppachan
- 2. "The KuttippuramBridge": Idasseri
- 3. "Courageous Act": AnasuyaMenon
- 4. "Vaikom Satyagraha": K. N.Panikkar
- 5. "The Voice": Suresh Menon

No of Weeks	Dates	Session	Торіс
		1	"Conversation" : Sree Narayana Guru
	06-10-2021	2	"Conversation" : Sree Narayana Guru
1	To 09-10-2021	3	"Conversation" : Sree Narayana Guru
		4	"Conversation" : Sree Narayana Guru
		09 October	Second Saturday
	11-10-2021 To	5	"Conversation" : Sree Narayana Guru
2		6	Textbook Q & A Discussion
2		7	Class Test
	16-10-2021	14 October	Mahanavami

		15 October	Vijayadashami	
		8	Excerpts from "Eri" : Pradeepan pambirikunnu	
		9	Excerpts from "Eri" : Pradeepan pambirikunnu	
	18-10-2021	19 October	Nabidinam	
3	To 23-10-2021	10	Excerpts from "Eri" : Pradeepan pambirikunnu	
		11	Excerpts from "Eri" : Pradeepan pambirikunnu	
		12	Textbook Q & A Discussion	
		13	Class Test	
	25-10-2021	14	Excerpts from "Kelu": N. Sasidharan, E.P.Rajagopalan	
4	То	15	Excerpts from "Kelu": N. Sasidharan, E.P.Rajagopalan	
	30-10-2021	16	Excerpts from "Kelu": N. Sasidharan, E.P.Rajagopalan	
		17	Excerpts from "Kelu" : N. Sasidharan, E.P.Rajagopalan	
		18	Textbook Q & A Discussion	
	01 11 0001	19	Class Test	
_	01-11-2021	20	Excerpts from "Parting from the Path of Life" :	
5	То		Cherukad Govinda Pisharodi	
	06-11-2021	04 November	Diwali	
		21	Excerpts from "Parting from the Path of Life" :	
				Cherukad Govinda Pisharodi Excerpts from "Parting from the Path of Life" :
	08-11-2021 To 13-11-2021	22	Cherukad Govinda Pisharodi	
			Excerpts from "Parting from the Path of Life" :	
6		To 23	Cherukad Govinda Pisharodi	
		24	Textbook Q & A Discussion	
		25	Class Test	
		13 November	Second Saturday	
		26	"About My Race: A Song" : Poykayil Appachan	
	15-11-2021	27	"About My Race: A Song": Poykayil Appachan	
7	То	28	Textbook Q & A Discussion	
	20-11-2021	29	Class Test	
		30	"Kuttippuram Palam" : Idasseri	
	22-11-2021	31	"Kuttippuram Palam" : Idasseri	
8	То	32	"Kuttippuram Palam" : Idasseri	
Ū	27-11-2021	33	"Kuttippuram Palam" : Idasseri	
	27 11-2021	34	Textbook Q & A Discussion	
	00.11.0001	35	Class Test	
	29-11-2021	36	"Courageous Act" : Anasuya Menon	
9	То	37	"Courageous Act" : Anasuya Menon	
	04-12-2021	38	"Courageous Act" : Anasuya Menon	
		39	"Courageous Act" : Anasuya Menon	
	06-12-2021	40	"Courageous Act" : Anasuya Menon	
10	То	41	Textbook Q & A Discussion	
	11-12-2021	42	Class Test	
		43	"Vaikom Satyagraha" : K.N. Panikkar	

		11 December	Second Saturday
	12 12 2021	44	"Vaikom Satyagraha" : K.N. Panikkar
11	13-12-2021	45	"Vaikom Satyagraha" : K.N. Panikkar
11	To	46	"Vaikom Satyagraha" : K.N. Panikkar
	18-12-2021	47	"Vaikom Satyagraha" : K.N. Panikkar
		48	Textbook Q & A Discussion
	20-12-2021	49	Class Test
12	To	50	"Curing Caste" : Sahodaran Ayyappan
12		51	"Curing Caste" : Sahodaran Ayyappan
	25-12-2021	24 December	CHRISTMASS VACATION
		25 December	CHRISTMASS VACATION
		27 December	CHRISTMASS VACATION
	27-12-2021	28 December	CHRISTMASS VACATION
13	27 12 2021 То	29 December	CHRISTMASS VACATION
13	01-01-2022	30 December	CHRISTMASS VACATION
	01-01-2022	31 December	CHRISTMASS VACATION
		01 January	CHRISTMASS VACATION
	03-01-2022	52	I Internal Examination
14	To 08-01-2022	53	I Internal Examination
		54	I Internal Examination
		55	"Curing Caste" : Sahodaran Ayyappan
	10-01-2022 To 15-01-2022	56	"Curing Caste" : Sahodaran Ayyappan
15		57	Textbook Q & A Discussion
		58	Class Test
		59	"Voice" : Suresh Menon
	17-01-2022 To 22-01-2022	60	"Voice" : Suresh Menon
16		61	"Voice" : Suresh Menon
		62	"Voice" : Suresh Menon
		63	Textbook Q & A Discussion
	24.01.2022	64	Class Test
15	24-01-2022	65	Revision : Module I
17	To	26 January	Republic Day
	29-01-2022	66	Revision : Module II
		67	Revision Test
	31-01-2022	68	II Internal Examination
	To	69 70	II Internal Examination II Internal Examination
18	05-02-2022	70	II Internal Examination
	03-02-2022	71 72	II Internal Examination
		12	

Subject Code:	1A01-2HIN
Subject Name:	Common course -Naya Sahithya
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	Jainy N George

Unit I :

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Unit II :

Unit III:

Unit IV:

No of Weeks	Dates	Session	Торіс
	06 10 2021	1	
	06-10-2021	2	
1	To 09-10-2021	3	
		09 October	Second Saturday
2	11-10-2021	4	

	То	5	
	16-10-2021	6	
		14 October	Mahanavami
		15 October	Vijayadashami
		7	
		8	
	18-10-2021	19 October	Nabidinam
3	То	9	
5	23-10-2021	10	
	25 10-2021	11	
		12	
		13	
	25-10-2021 To 30-10-2021	14	
4		15	
		16	
		17	
		18	
		19	
	01-11-2021	20	
5	То	21	
	06-11-2021	04 November	Diwali
		22	
		23	
	08-11-2021	24	
6	То	25	
	13-11-2021	26	

		27	
		28	
		13 November	Second Saturday
		29	
	15-11-2021	30	
7	То	31	
	20-11-2021	32	
	20-11-2021	33	
		34	
		35	
		36	
	22-11-2021 To 27-11-2021	37	
8		38	
		39	
		40	
		40	
		42	
	29-11-2021 To 04-12-2021	42	
9		43	
		45	
		46	
	06 10 0001	47	
	06-12-2021	48	
10	То	49	
	11-12-2021	50	
		51	

		11 December	Second Saturday
		52	
	13-12-2021	53	
11	То	54	
	18-12-2021	55	
	10-12-2021	56	
		57	
		58	
		59	
	20-12-2021	60	
12	То	61	
	25-12-2021	62	
		24 December	CHRISTMASS VACATION
		25 December	CHRISTMASS VACATION
		27 December	CHRISTMASS VACATION
	27-12-2021	28 December	CHRISTMASS VACATION
13	То	29 December	CHRISTMASS VACATION
	01-01-2022	30 December	CHRISTMASS VACATION
		31 December	CHRISTMASS VACATION
		01 January	CHRISTMASS VACATION
		63	I Internal Examination
	03-01-2022	64	I Internal Examination
14	То	65	I Internal Examination
	08-01-2022	66	
		67	
		68	
15	10-01-2022	69	

	То	70	
	15-01-2022	71	
		72	
		73	
		74	
		75	
	17-01-2022	76	
16	To	77	
	22-01-2022	78	
		79	
		80	
		81	
	24-01-2022 To 29-01-2022	82	
		26 January	Republic Day
17		83	
		84	
		85	
		86	II Internal Examination
	31-01-2022	87	II Internal Examination
	То	88	II Internal Examination
18	05-02-2022	89	II Internal Examination
	05-02-2022	90	II Internal Examination

Subject Code:	1A07-MAL
Subject Name:	
No. of Credits:	4
No. of Contact Hours:	90
Hours per Week:	5
Name of the Teacher:	Linet Maria K

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No of Weeks	Dates	Session	Торіс
		1	
	06-10-2021	2	
1	To 09-10-2021	3	
		09 October	Second Saturday
2	11-10-2021	4	

	То	5	
	16-10-2021	6	
		14 October	Mahanavami
		15 October	Vijayadashami
		7	
		8	
	18-10-2021	19 October	Nabidinam
3	То	9	
	23-10-2021	10	
		11	
		12	
		13	
	25-10-2021	14	
4	То	15	
	30-10-2021	16	
		17	
		18	
		19	
	01 11 0001	20	
_	01-11-2021	21	
5	То	04 November	Diwali
	06-11-2021	22	
		23	
		24	
	08-11-2021	25	
6	То	26	
_	13-11-2021	27	
	10 11 2021	28	
		13 November	Second Saturday
		29	
	15-11-2021	30	
7	То	31	
	20-11-2021	32	
		33	
		34	
	22-11-2021	35	
8	То	36 37	
	27-11-2021		
		38	

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		40	
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		42	
	20 11 2021	43	
0	29-11-2021 То	44	
9			
	04-12-2021	45	
		46	
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		47	
		40	
	06 10 2021	48	
10	06-12-2021	49	
10	То	ر ب	
	11-12-2021	50	
		51	
		11 December	Second Saturday
	13-12-2021	52	
		53	
		55	
		54	
11	То		
	18-12-2021	55	
		56	
		57	
		58	
		59	
	20-12-2021	60	
12	То	00	
	25-12-2021	61	
		62	
		25 December	CHRISTMASS VACATION
		27 December	CHRISTMASS VACATION
	27-12-2021	27 December 28 December	CHRISTMASS VACATION
13	То	29 December	CHRISTMASS VACATION CHRISTMASS VACATION
	01-01-2022	30 December	CHRISTMASS VACATION CHRISTMASS VACATION
		JU December	

		31 December	CHRISTMASS VACATION
		01 January	CHRISTMASS VACATION
		63	I Internal Examination
		64	I Internal Examination
	02 01 2022	65	I Internal Examination
14	03-01-2022 To	66	
	08-01-2022	67	
		68	
		69	
	10-01-2022	70	
15	To 15-01-2022	71	
	15 01 2022	72	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
		73	
		74	
		75	
	17-01-2022 To 22-01-2022	76	
16		77	
		78	
		79	
		80	
		81	
	24-01-2022	82	
17	То	26 January 83	Republic Day
	29-01-2022	83 84	
		85	
		85	II Internal Examination
		80	II Internal Examination
	21.01.2022	88	II Internal Examination
	31-01-2022	89	II Internal Examination
18	То	90	II Internal Examination
	05-02-2022		

Subject Code:	1A11BCA
Subject Name:	Informatics For Computer Applications
No. of Credits:	2
No. of Contact Hours:	52
Hours per Week:	3
Name of the Teacher:	Fincy Cyriac

CO1: Understand the basic concepts and functional knowledge in the field of Informatics. **CO2:** Equip the students with fundamentals of Computer.

CO3: Awareness about social issues and concerns in the use of digital technology

CO4:Skills to enable students to use free software.

Unit I:

Concept of Hardware and Software: Computer Languages – Machine Language, Assembly Language, High-level Language, Language translators: Compiler, Interpreter, Assembler, Features of good language.

(12Hrs)

Unit II:

Basic Computer Organization: Von Neumann model, Input Unit, Output Unit, Storage Unit, Control Unit, Memory hierarchy, RAM, ROM, PROM and EPROM, cache memory and registers. Secondary storage devices. Storage capacity: bit, byte, nibble.

(**10Hrs**)

Unit III:

Introducing Input output devices with examples. Introduction to operating System: need of OS, Types of OS, Functions of OS (introduction only). Introduction to Computer Networks: definition and applications.

(12Hrs)

Unit IV:

Introduction to Linux: Basic commands in Linux such as listing files, viewing contents in files, creating and deleting directories, moving and copying files and/or directories, man pages, setting permissions on files/directories and vi editor. Steps to install Linux OS.

(10Hrs)

Unit V:

IT & Society- issues and concerns- digital divide, IT & development, free software movement, cyber ethics, cybercrime, cyber threats, cyber security, privacy issues, cyber laws, cyber addictions, guide lines for proper usage of computers, internet and mobile phones.

(10Hrs)

Books for Study:

1. V. Rajaraman and T. Radhakrishnan, An Introduction to Digital Computer Design, 5th Ed, PHI.

2. B.Ram, Computer Fundamentals, Architecture & Organization, 4th Ed, New Age International Publishers

3. Pradeep K. Sinha and PritiSinha, Computer Fundamentals, 6th Ed, BPB Publications

4. Ellen Siever, Stephen Figgins, Robert Love and Arnold Robbins, Linux in a Nutshell: A Desktop Quick Reference, 6thEdition, O_Reilly

No of Weeks	Dates	Session	Торіс
	06-10-2021	1	Concept of Hardware
1	То	2	Concept of Software
I	09-10-2021	3	Computer Languages
	07-10-2021	09 October	Second Saturday
		4	Machine Language
	11-10-2021	5	Assembly Language
2	То	14 October	Mahanavami
	16-10-2021	15 October	Vijayadashami
		6	High-level Language
	18-10-2021	7	Language translators
3	То	19 October	Nabidinam
	23-10-2021	8	Compiler
		9	Interpreter
	25-10-2021	10	Assembler
4	То	11	Features of good language
	30-10-2021	12	Module 1 Exam
	01-11-2021	13	Basic Computer Organization:
5	то Т	04 November	Diwali
5	06-11-2021	14	Von Neumann model
	00-11-2021	15	Input Unit, Output Unit, Storage Unit, Control Unit
	08-11-2021	16	Memory hierarchy, RAM, ROM, PROM and EPROM
6	То	17	Cache memory and registers
	13-11-2021	18	Secondary storage devices
		13 November	Second Saturday
	15-11-2021	19	Secondary storage devices
7	То	20	Secondary storage devices
	20-11-2021	21	Storage capacity: bit, byte, nibble
	22-11-2021	22	Module 2 Exam
8	То	23	Introducing Input output devices with examples
	27-11-2021	24	Introducing Input output devices with examples
	29-11-2021	25	Introduction to operating System
9	То	26	Need of OS
	04-12-2021	27	Types of OS
	06-12-2021	28	Functions of OS (introduction only)
10	То	29	Functions of OS (introduction only)
10	11-12-2021	11 December	Second Saturday
	13-12-2021	30	Introduction to Computer Networks: definition
11	То	30	Introduction to Computer Networks: applications
••	18-12-2021	32	Module 3 Exam
	10 12 2021	54	

		33	Introduction to Linux:
	20-12-2021	34	Basic commands in Linux
12	То	35	listing files and viewing contents in files
	25-12-2021	24 December	CHRISTMASS VACATION
		25 December	CHRISTMASS VACATION
		27 December	CHRISTMASS VACATION
	27-12-2021	28 December	CHRISTMASS VACATION
10		29 December	CHRISTMASS VACATION
13	То	30 December	CHRISTMASS VACATION
	01-01-2022	31 December	CHRISTMASS VACATION
		01 January	CHRISTMASS VACATION
			I Internal Examination
			I Internal Examination
	03-01-2022		I Internal Examination
14	То	36	Creating and deleting directories
	08-01-2022	37	Moving and copying files and/or directories,
		39	man pages
		40	Setting permissions on files/directories
	10-01-2022	41	vi editor.
15	То-01-2022	42	Steps to install Linux OS.
15	15-01-2022	43	Module 4 Exam
	13-01-2022	44	IT & Society- issues and concerns-
	17-01-2022	45	digital divide,
16	То	46	IT & development
10	22-01-2022	47	Free software movement,
	22-01-2022	48	Cyber ethics, cybercrime, cyber threats, cyber security
		49	Privacy issues, cyber laws, cyber addictions
	24-01-2022	50	Guide lines for proper usage of computers
17	То	26 January	Republic Day
	29-01-2022	51	Internet and mobile phones.
		52	Module 5 Exam
			II Internal Examination
			II Internal Examination
	31-01-2022		II Internal Examination
	То		II Internal Examination
18	05-02-2022		II Internal Examination

Subject Code:	1B01BCA
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

Unit I:

Algorithms and Flow charts: Definitions, Symbols, Program: structure, top-down design, source code, object code, executable file, files extensions. Importance of C; Basic structure of C, programming style, executing a C program. Character set, C tokens, Keywords, identifiers, Constants, data types, declaration of variables, arithmetic operators, logical operators, Relational operators, Assignment operators, Increment and decrement operators, conditional operators, Bitwise operators. Precedence and order of evaluation. Type conversion in expression. Common programming errors, program testing and debugging, Program efficiency. (9 Hrs)

Unit II:

Managing Input output operation: reading a character, writing a character, formatted input output. Branching statements-if, if..else, nested if...else, else...if ladder, switch statement, go to statement. Looping statements- while, do...while, for loop. Break and continue statements. (7 Hrs) **Unit III:**

Unit III:

Arrays: One dimensional arrays, two dimensional arrays, Initializing array elements, Multidimensional arrays. Strings: declaration and initializing, reading and writing. Arithmetic operations on character. String handling functions, Functions: Library and user defined, defining a function, calling a function. Parameter passing techniques, Scope and life time of variables in function, recursive functions, arrays and functions. (7 Hrs)

Unit IV:

Structure and union: definition, giving values to members, initialization. Array of structures, array within structure, structure within structure, union. Pointers: accessing the address of a variable, declaration and initializing pointers, accessing a variable through its pointers, pointer arithmetic, pointers and arrays (pointer to array and array of pointers), pointers and character string, pointer and functions. Dynamic memory allocation: malloc(), calloc(), free(),realloc(). (6 Hrs) **Unit V:**

File Management: Text and binary files, Defining and opening a file, closing a file, input and output operations on file, error handling, and random access file. Command line arguments. (7 Hrs)

No of Weeks	Dates	Session	Торіс	
	06-10-2021	1	Algorithms and Flow charts: Definitions, Symbols.	
1	То	2	Program: structure, top-down design, source code, object code, executable file, files extensions.	

	09-10-2021	09 October	Second Saturday
	11-10-2021	3	Importance of C; Basic structure of C, programming style, executing a C program.
2	То	4	Character set, C tokens, Keywords, identifiers, Constants.
	16-10-2021	14 October	Mahanavami
		15 October	Vijayadashami
		5	Data types, declaration of variables.
	18-10-2021	19 October	Nabidinam
3	To 23-10-2021	6	Arithmetic operators, logical operators, Relational operators, Assignment operators, Increment and decrement operators, conditional operators, Bitwise operators.
4	25-10-2021 To	7	Precedence and order of evaluation. Type conversion in expression.
-	30-10-2021	8	Common programming errors, program testing and debugging, Program efficiency.
	01-11-2021	9	Module I Exam
5	To 06-11-2021	10	Managing Input output operation: reading a character, writing a character.
	00-11-2021	04 November	Diwali
	08-11-2021	11	Formatted input output.
6	То	12	Branching statements-if, ifelse.
	13-11-2021	13 November	Second Saturday
7	15-11-2021 То	13	Nested ifelse, elseif ladder, switch statement, go to statement.
1	20-11-2021	14	Looping statements- while, dowhile, for loop.
	22-11-2021	15	Break and continue statements.
8	To 27-11-2021	16	Module II Exam
9	29-11-2021 To	17	Arrays: One dimensional arrays, two dimensional arrays, Initializing array elements, Multidimensional arrays.
	04-12-2021	18	Strings: declaration and initializing, reading and writing.
	06-12-2021	19	Arithmetic operations on character. String handling functions.
10	To 11-12-2021	20	Functions: Library and user defined, defining a function, calling a function.
		11 December	Second Saturday
11	13-12-2021 To	21	Parameter passing techniques, Scope and life time of variables in function.
	18-12-2021	22	Recursive functions, arrays and functions.
	20-12-2021	23	Module III Exam
12	То	24	Structure and union: definition, giving values to members, initialization. Array of structures.

	25-12-2021	24 December	
	25-12-2021	25 December	
		27 December	
		27 December 28 December	
	27-12-2021	29 December	
13	То	30 December	
	01-01-2022	30 December 31 December	
		01 January	
		01 Januar y	I Internal Examination
			I Internal Examination
	03-01-2022		I Internal Examination
14	То	25	Array within structure, structure within structure, union.
	08-01-2022		Pointers: accessing the address of a variable, declaration
	00 01 2022	26	and initializing pointers, accessing a variable through its
			pointers.
			Pointer arithmetic, pointers and arrays (pointer to array
	10-01-2022	27	and array of pointers), pointers and character string,
15	То		pointer and functions.
	15-01-2022	28	Dynamic memory allocation: malloc (), calloc (), free
			(),realloc ().
	17-01-2022	29	Module IV Exam
16	То	30	File Management: Text and binary files.
	22-01-2022	31	Defining and opening a file, closing a file.
	24-01-2022	32	Input and output operations on file.
17	То	33	Error handling and random access file.
	29-01-2022	26 January	Republic Day
			II Internal Examination
			II Internal Examination
	31-01-2022		II Internal Examination
			II Internal Examination
18	To		II Internal Examination
	05-02-2022	34	Command line arguments.
		35	Module V Exam
		36	Previous Year Question Paper Discussion

Subject Code:	2B04BCA
Subject Name:	PROGRAMMING IN C
No. of Credits:	1
No. of Contact Hours:	36
Hours per Week:	2
Name of the Teacher:	Sindhu P M

Sample Program List Students have to practice all programs

1. Write a program to print the size of any five data types in C and its range.

- 2. Write a program to convert Fahrenheit to Celsius.
- 3. Write a program to accept three numbers and find the largest and second largest (if stmt)
- 4. Write a program to to find the roots of a quadratic equation (if stmt)
- 5. Write a program to print all prime numbers between any 2 given limits. (while/for stmt)
- 6. Write a program to check whether a given matrix is an Identity matrix or not. (2D array)
- 7. Write a program matrix multiplication. (2D array)

8. Write a program to accept two numbers and perform various arithmetic operations (+,-,*,/) based on the symbol entered. (switch stmt)

9. Write a recursive program to find the factorial of a number.(recursive function)

- 10. Write a program to check whether the string is a Palindrome. (string, 1D array)
- 11. Write a program to count and display the different vowels in a line of text. (string)
- 12. Create an employee structure and display the same. (structure)
- 13. Write a function to swap two numbers using pointers (pointers, call by value, call by ref)
- 14. Write a program to access an array of integers using pointers (pointers to arrays)
- 15. Create a file and store some records in it. Display the contents of the same.(file)

TEACHING	SCHEDULE

No of Weeks	Dates	Session	Торіс
	06-10-2021 To 09-10-2021	1	Write a program to print the size of any five data types in C and its range.
1		2	Write a program to print the size of any five data types in C and its range.
	07 10 2021	09 October	Second Saturday
	11-10-2021	3	Write a program to convert Fahrenheit to Celsius.
2	То	4	Write a program to convert Fahrenheit to Celsius.
4		14 October	Mahanavami
	16-10-2021	15 October	Second Saturday Write a program to convert Fahrenheit to Celsius. Write a program to convert Fahrenheit to Celsius. Mahanavami Vijayadashami Write a program to accept three numbers and find the largest and second largest (if stmt) Nabidinam
	18-10-2021	5	Write a program to accept three numbers and find the largest and second largest (if stmt)
3	То	19 October	Nabidinam
	23-10-2021	6	Write a program to accept three numbers and find the largest and second largest (if stmt)

4	25-10-2021 To	7	Write a program to to find the roots of a quadratic equation (if stmt)
4	To 30-10-2021	8	Write a program to to find the roots of a quadratic equation (if stmt)
	01-11-2021	9	Write a program to print all prime numbers between any 2 given limits. (while/for stmt)
5	To 06-11-2021	10	Write a program to print all prime numbers between any 2 given limits. (while/for stmt)
	00112021	04 November	Diwali
	08-11-2021	11	Write a program to print all prime numbers between any 2 given limits. (while/for stmt)
6	To 13-11-2021	12	Write a program to check whether a given matrix is an Identity matrix or not. (2D array)
		13 November	Second Saturday
7	15-11-2021 To	13	Write a program to check whether a given matrix is an Identity matrix or not. (2D array)
,	20-11-2021	14	Write a program to check whether a given matrix is an Identity matrix or not. (2D array)
	22-11-2021	15	Write a program matrix multiplication. (2D array)
8	То 27-11-2021	16	Write a program matrix multiplication. (2D array)
9	29-11-2021 To	17	Write a program to accept two numbers and perform various arithmetic operations $(+,-,*,/)$ based on the symbol entered. (switch stmt)
9	04-12-2021	18	Write a program to accept two numbers and perform various arithmetic operations $(+,-,*,/)$ based on the symbol entered. (switch stmt)
10	06-12-2021	19	Write a program to accept two numbers and perform various arithmetic operations $(+,-,*,/)$ based on the symbol entered. (switch stmt)
10	To 11-12-2021	20	Write a recursive program to find the factorial of a number.(recursive function)
		11 December	Second Saturday Write a requiring program to find the factorial of a
11	13-12-2021 То	21	Write a recursive program to find the factorial of a number.(recursive function)
	18-12-2021	22	Write a program to check whether the string is a Palindrome. (string, 1D array)
	20-12-2021	23	Write a program to check whether the string is a Palindrome. (string, 1D array)
12	То	24	Write a program to check whether the string is a Palindrome. (string, 1D array)
	25-12-2021	24 December	
10	27 12 2021	25 December 27 December	
13	27-12-2021	27 December	

	То	28 December	
	01-01-2022	29 December	
		30 December	
		31 December	
		01 January	
			I Internal Examination
	03-01-2022		I Internal Examination
14	то		I Internal Examination
17	08-01-2022	25	Lab Model Exam
	00-01-2022	26	Write a function to swap two numbers using pointers (pointers, call by value, call by ref)
15	10-01-2022 То	27	Write a function to swap two numbers using pointers (pointers, call by value, call by ref)
13	15-01-2022	28	Write a function to swap two numbers using pointers (pointers, call by value, call by ref)
	17-01-2022	29	Write a program to access an array of integers using pointers (pointers to arrays)
16	To 22-01-2022	30	Write a program to access an array of integers using pointers (pointers to arrays)
		31	Write a program to access an array of integers using pointers (pointers to arrays)
	24-01-2022	32	Create a file and store some records in it. Display the contents of the same.(file)
17	To 29-01-2022	33	Create a file and store some records in it. Display the contents of the same.(file)
	27 01 2022	26 January	Republic Day
			II Internal Examination
			II Internal Examination
			II Internal Examination
	31-01-2022		II Internal Examination
18	То		II Internal Examination
	05-02-2022	34	Create a file and store some records in it. Display the contents of the same.(file)
		35	Module Exam
		36	Module Exam

Subject Code:	1C01 MAT
Subject Name:	MATHEMATICS FOR BCA I
No. of Credits:	4
No. of Contact Hours:	72
Hours per Week:	4
Name of the Teacher:	NAJUMUNNISA.K

Unit I - Differential Calculus – Differentiation

Text: Differential Calculus, Shanti Narayan and P.K. Mittal

Basics of differentiation – Derivative of a constant function, some general theorems on derivation (theorems without proof), derivatives of trigonometric functions, derivatives of inverse trigonometric functions, derivative of $y = \log x$, hyperbolic functions, derivation of parametrically defined functions, logarithmic differentiation, derivation of implicitly defined functions. (Sections 4.2, 4.3 except 4.3.5, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 4.10)

Unit II - Differential Calculus– Successive Differentiation

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

Successive differentiation, standard results, preliminary transformations, use of partial fractions, Leibnitz's theorem for the nth derivative of the product of two functions (Sections 4.1, 4.2)

Unit III - Boolean Algebra

Text: Set Theory and Related Topics, S. Lipschitz, Schaum's Series

Introduction, basic definition, duality, basic theorems (Sections 11.1, 11.2, 11.3, 11.4)

Unit IV - Linear Algebra - Matrices and System of Equations, Linear Transformations

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

Rank of a matrix, elementary transformation of a matrix, equivalent matrix, elementary matrices, Gauss-Jordan method of finding the inverse, normal form of a matrix, partition method of finding the inverse, solution of linear system of equations – method of determinants – Cramer's rule, matrix inversion method, consistency of linear system of equations, Rouche's theorem, procedure to test the consistency of a system of equations in n unknowns, system of linear homogeneous equations. Linear transformations, orthogonal transformation, vectors – linear dependence (Sections 2.7, 2.8,2.9, 2.10, 2.11, 2.12)

Referencce

- 1. Advanced Engineering Mathematics (10th edition), E. Kreyszig, Wiley
- 2. Calculus (10th edition), Anton, Bivens, Davis, Wiley-India
- 3. A Textbook of Matrices, Shanti Narayan and P.K. Mittal, S. Chand & Co
- 4. Higher Engineering Mathematics (41st edition), B.S. Grewal, Khanna Pub.

5. Theory of and Problems of Matrices, Frank Ayres JR, Schaum's Outline Series, McGraw- Hill Book Company

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	20-11-2021	28	Successive differentiation
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8		30	Standard results
	22-11-2021	31	Problems related to standard results
	То	32	Preliminary transformations
	27-11-2021	33	Use of Partial fractions
		34	Problems related to partial fractions
		35	n th derivative of functions
	29-11-2021	36	Leibnitz theorem for the nth derivative of the product of
9	То		two functions
	04-12-2021	37	Problems related to Leibnitz theorem
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10		41 42	Basic definitions
10	To	42	Duality
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	18-12-2021	40	Elementary transformation of a matrix
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		25 December	
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13	Z7-12-2021 To	29 December	
15		30 December	
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		52	I Internal Examination
14	03-01-2022	53	I Internal Examination
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	08-01-2022	55	Problems
		56	Normal form of a matrix
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16	17-01-2022 To 22-01-2022	61	Cramer's Rule
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