C programming

[2 Credits 30 hours]

Course Objective:

C is a general purpose, imperative computer programming language, supporting structured programming, lexical variable scope and recursion. This course introduces various programming constructs that are needed to lay a basic foundation of programming fundamental into students.

Learning Outcome:

The students will be able to design solutions to mathematical problems and programme them using the C language.

Course Contents

1. **Getting Started:** What is C,Getting Started with C,The C Character Set,Constants, Variables and Keywords,Types of C Constants,Rules for Constructing Integer Constants,Rules for Constructing Real Constants,Rules for Constructing Character Constants,Types of C Variables,Rules for Constructing Variable Names,C Keywords,The First C Program,Compilation and Execution(5)

2. **The Decision Control Structure :** Decisions! Decisions!,The if Statement,The Real Thing. Multiple Statements within if,The if-else Statement,Nested if-elses, Forms of if,Use of Logical Operators,The else if Clause, The ! Operator, The conditional operator(5)

3. **The Loop Control Structure:** Loops,The while Loop,Tips and Traps,More Operators. The for Loop,Nesting of Loops,Multiple Initialisations in the for Loop,The Odd Loop. The break Statement,The continue Statement,The do-while Loop(4)

4. **The Case Control Structure:** Decisions Using switch, The Tips and Traps, switch Versus if-else Ladder, The goto Keyword(2)

5. **Functions:** Why Use Functions,Passing Values between Functions,Scope Rule of Functions Calling Convention,One Dicey Issue,Advanced Features of Functions,Function Declaration and Prototypes,Call by Value and Call by Reference,An Introduction to Pointers,Pointer Notation Back to Function Calls,Recursion,Recursion and Stack,Adding Functions to the Library(5)

6. **The C Preprocessor :** Features of C Preprocessor, Macro Expansion, Macros with Argument Macros versus Functions, File Inclusion(2)

7. **Arrays:** What are Arrays, A Simple Program Using Array, More on Arrays, Array Initialization Bounds Checking, Passing Array Elements to a Function, Pointers and Arrays, Passing an Entire Array to a Function, The Real Thing, Two Dimensional Arrays, Strings, Standard Library String Functions strlen( ), strcpy( ), strcat( ), strcmp( )(4)

8. **Structures:** Why Use Structures, Declaring a Structure, Accessing Structure Elements, How Structure Elements are Stored (3)

Reference: 1) Yashwant Kanetkar, Let us C

Ms Shilpa Naik

Name of the Course : C- Programming.

Class :- F.Y. B.Sc.

Topic : _____

Batch :- _____

Roll no.	Name of Student	1	2	3	4	5	6	7	8	9	10
	Lecture No.										
	Date:-	11/8/18	18/8/18	18/8/18	25/8/18	25/8/18	25/8/18	8/9/18	8/9/18	8/9/18	22/9/18
	Time:-	1.30 pm	1.30 pm	2.30 pm	1.30 pm	2.30 pm	3.30 pm	1.30 pm	2.30 pm	3.30 pm	1.30 pm
18056	Akshata Abhonsle	Abont	Abont	Abont	Abont	Abont	Abont	Abont	Abont	Abont	Abont
18049	VEDA DESSAI	D	D	D	D	D	D	D	D	D	D
18015	Vrunda Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak
18192	Vedang Ketankar										
18120	YUKTI GARG										
18136	NURIEL FERNANDES	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes	Fernandes
18187	Raghavendra Kshirsagar	Rk	Rk	Rk	Rk	Rk	Rk	Rk	Rk	Rk	Rk

Dempo Charities Trust

Dhempe College of Arts & Science

Miramar – Goa.

Academic Year : **2018 -19**

SHORT TERM COURCE ATTENDANCE SHEET

Name of the Course : C- Programming.

Class :- F.Y.B.Sc.

Topic : _____

Batch:- _____

Lecture No.	1	2	3	4	5	6	7	8	9	10
Date:-	22\9\18	22\9\18	29\9\18	29\9\18	29\9\18	06\10\18	06\10\18	06\10\18	13\10\18	13\10\18
Time:-	2:30 pm	3:30 pm	1:30 pm	2:30 pm	3:30 pm	1:30 pm	2:30 pm	3:30 pm	1:30 pm	2:30 pm

Roll no.	Name of Student										
18056	Akshata .A. Bhonsle										
18049	VEDA DESSAI										
18015	Vrunda Gayak										
18192	Vedang. Fidanlay										
18180	YUKTI GARG										
18136.	NURJEL FERNANDES										
18187	Raghavendaa Kshirsagar										

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HOD

(Mr. Sewon De Sona)
Teacher In-charge

Dempo Charities Trust

Dhempe College of Arts & Science

Miramar – Goa.

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SHORT TERM COURCE ATTENDANCE SHEET

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Topic : _____

Class :- F.Y.B.Sc.

Batch :- _____

Lecture No.	1	2	3	4	5	6	7	8	9	10
Date:-	13/10/18	8/12/18	8/12/18	8/12/18	5/1/19	5/1/19	5/1/19	19/1/19	19/1/19	19/1/19
Time:-	3:30 pm	1:30 pm	2:30 pm	3:30 pm	1:30 pm	2:30 pm	3:30 pm	1:30 pm	2:30 pm	3:30 pm

Roll no.	Name of Student	1	2	3	4	5	6	7	8	9	10
18056	Akshata A. Bhonsle										
18049	VEDA DESSAI										
18015	Vrunda P. Gayak										
18192	Vedang. Patankar										
18100	YUKTI GARG										
18136	NURIEL FERNANDES										
18187	Raghavendra Kshirsagar										

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HOD

(Mr. Senor De Souza)
Teacher In-charge

SHORT TERM COURCE ATTENDANCE SHEET

Name of the Course : C-Programming

Class :- F.Y. B.Sc.

Topic :- _____

Batch:- _____

Roll no.	Name of Student	1	2	3	4	5	6	7	8	9	10
	Lecture No.										
	Date:-	5/2/18	5/2/19	5/2/18	11/2/19	11/2/19	11/2/18	22/2/19	22/2/19	25/2/19	25/2/19
	Time:-	1:30 pm	2:30 pm	3:30 pm	1:30 pm	2:30 pm	3:30 pm	1:30 pm	2:30 pm	1:30 pm	2:30 pm
18056	Akshata A Bhosh	Bhoul	Bhoul	Bhoul	Bhoul	Bhoul	Bhoul	Bhoul	Bhoul	Bhoul	Bhoul
18049	VEDA DESSAI	D	D	D	D	D	D	D	D	D	D
18015	Vrunda Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak	Gayak
18192	Vedang. Bernde	Vatan	Vatan	Vatan	Vatan	Vatan	Vatan	Vatan	Vatan	Vatan	Vatan
18110	YUKTI GARG	Yuki	Yuki	Yuki	Yuki	Yuki	Yuki	Yuki	Yuki	Yuki	Yuki
18136	NURIEL FERNANDES	Bernandes	Bernandes	Bernandes	Bernandes	Bernandes	Bernandes	Bernandes	Bernandes	Bernandes	Bernandes
18187	Raghavendra Kshirsagar	Rk	Rk	Rk	Rk	Rk	Rk	Rk	Rk	Rk	Rk

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HOD

(Mr. Senon De Souza)
Teacher In-Charge

Dempo Charities Trust's
Dhempe College of Arts and Science
Panaji, Goa

Name of the Course: **C Programming**
C is a general purpose, imperative computer programming language, supporting structured programming, lexical variable scope and recursion. This course introduces various programming constructs that are needed to lay a basic and strong foundation of programming fundamental into students.

No. of students: **07**
Fees: **Rs.1000/-**
Resource Person:**Mr. Senon S. De Souza**
Co-ordinator: **Mr. Senon S. De Souza**
Duration: (Dates) From **11/8/2018 to25/2/2019 (40 contact hours**)
Attendance Record: Maintained/Not Maintained**Maintained**
Certificates: Issued/Not issued**Issued**
Proposal: Submitted/Not submitted**Submitted**
Student forms: Submitted/Not submitted**submitted**
Bills: Settled/Not settled**settled**