



DEPARTMENT OF BCA
E-Certification Programme on
'Foundation in Computer Application'
From 9th September, 2020 to 26th September, 2020
At 10:00 AM to 12:00 Noon

| RESOURCE PERSONS | | |
|-------------------------|--------------------------------------|-----------------------|
| Sr. No. | Course Name | Faculty Name |
| 1. | Fundamentals of Programming Language | Mr. Himanshu Rastogi |
| 2. | Basics of Mathematics | Dr. Suneeta Choudhary |

Course Objective:

1. Fundamentals of Programming Language

The objective of the course is to clear the fundamental concepts about a Programming language. Students will be able to develop logics which will help them to create basic programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

2. Basics of Mathematics

The purpose of the course is to make students aware of the basic knowledge of math which is not only helpful in their academic but also mould their interest towards math.

Course Outcome:

After completion of the course, student will be able to understand:

1. The basic concepts of Programming Language and Mathematics.
2. About the syntax of 'C' language and will be able to think logically for a problem.
3. How to solve a problem in mathematics, which are related to the topics covered in the course.



Schedule

| Date | Day | Faculty | Topic |
|------------|-----------|-------------------------|---|
| 09/09/2020 | WEDNESDAY | Prof. Abhay N. Tripathi | Inauguration, Formal Welcome and Introduction to Computer Application |
| 10/09/2020 | THURSDAY | Mr. Himanshu Rastogi | Communication & Language |
| 11/09/2020 | FRIDAY | Dr. Suneeta Choudhary | Types of Matrices: Symmetric, Skew-symmetric and Orthogonal Matrices; Complex Matrices, |
| 12/09/2020 | SATURDAY | Mr. Himanshu Rastogi | Compiler, Interpreter, & Assembler |
| 14/09/2020 | MONDAY | Dr. Suneeta Choudhary | Quiz on matrices |
| 15/09/2020 | TUESDAY | Mr. Himanshu Rastogi | Problem Solving |
| 16/09/2020 | WEDNESDAY | Dr. Suneeta Choudhary | Mathematical Puzzles |
| 17/09/2020 | THURSDAY | Mr. Himanshu Rastogi | Fundamentals of Programming Language |
| 18/09/2020 | FRIDAY | Dr. Suneeta Choudhary | Introduction to limits |
| 21/09/2020 | MONDAY | Mr. Himanshu Rastogi | Working with Operators |
| 22/09/2020 | TUESDAY | Mr. Himanshu Rastogi | Control Structures |
| 23/09/2020 | WEDNESDAY | Dr. Suneeta Choudhary | Continuity |



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|-------------------|-----------------|-----------------------|---|
| 24/09/2020 | THURSDAY | Mr. Himanshu Rastogi | Generation of Programming Language And Employability |
| 25/09/2020 | FRIDAY | Dr. Suneeta Choudhary | Introduction to differentiability |
| 26/09/2020 | SATURDAY | Dr. Suneeta Choudhary | Quiz & puzzle |



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DEPARTMENT OF BCA

E-Certification Programme on
'Foundation in Computer Application' Part-II

From 05th October, 2020 to 22nd October 2020

Timing : 11:00 AM to 12:00 Noon

| RESOURCE PERSON | | |
|------------------------|------------------------------|----------------------|
| Sr. No. | Course Name | Faculty Name |
| 1. | Fundamentals of 'C' Language | Mr. Himanshu Rastogi |

Course Objective:

Fundamentals of 'C' Language

The objective of the course is to clear the basic concepts 'C' language. Students will be able to develop logics which will help them to create basic programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

Course Outcome:

After completion of the course, student will be able to understand:

4. The basic concepts of Programming Language and Mathematics.
5. About the different features of 'C' language.
6. How a problem can be solved using 'C' Language.



Programme Structure

| Date | Day | Topic |
|-------------|------------|---|
| 05/10/2020 | MONDAY | Introduction about how to write and compile 'C' program |
| 06/10/2020 | TUESDAY | Practical Exercises using Arithmetic operators |
| 07/10/2020 | WEDNESDAY | Practical Exercises based on Conditional Statements |
| 08/10/2020 | THURSDAY | -Do- |
| 09/10/2020 | FRIDAY | Practical Exercises based on Control Statements |
| 10/10/2020 | SATURDAY | -Do- |
| 12/10/2020 | MONDAY | Working with different data types |
| 13/10/2020 | TUESDAY | -Do- |
| 14/10/2020 | WEDNESDAY | Practical Exercises based on User Defined Functions |
| 15/10/2020 | THURSDAY | -Do- |
| 16/10/2020 | FRIDAY | -Do- |
| 19/10/2020 | MONDAY | Working with 'Strings' |
| 20/10/2020 | TUESDAY | -Do- |
| 21/10/2020 | WEDNESDAY | Working with 'Structures' |
| 22/10/2020 | THURSDAY | -Do- |



Report

Department started e-Certification course for the newly entered students of the BCA student to provide the basic knowledge about the Programming Language and Mathematics.

In the current session, department has planned to organize e-Certification course in two phases, in which First session was based on the fundamentals of Programming Language and the basics of Mathematics. While in the second session, the main objective was to provide the basic knowledge of 'C' programming language.

First Phase was conducted from 9th September, 2020 to 26th September, 2020 and Second Phase was conducted from 5th October, 2020 to 22nd October, 2020.

In First phase, the activity was started with the brief introduction by the Head of the Department Prof. Abhay N. Tripathi about the BCA Course and importance of the e-Certification course to the students on First day of the activity i.e. 09-September-2020 at 10:00 AM to 12:00 Noon. After the formal speech by Prof. Abhay N Tripathi, students were asked to share their views about their future planning. On 26-Sept-2020, separate quizzes were conducted based on both the subjects. In this course 81 students were enrolled and these were evaluated based on the quiz. After the completion of the course, all students were given the 'Certificate'. The event was successfully completed as per the schedule.

Resource Persons for the first phase were Mr. Himanshu Rastogi for 'Fundamentals of Programming Language' and Dr. Sunita Choudhary for 'Basics of Mathematics'.

Second Session was started from 05th October, 2020 to 22nd October 2020 at 11:00 AM to 12:00 Noon to provide the preliminary knowledge about 'C' programming language. This session was taken by Mr. Himanshu Rastogi. In this session 81 students were participated.