



**Dempo Charities Trust's  
DHEMPE COLLEGE OF ARTS & SCIENCE  
Miramar, Panaji-Goa**

**Logic building and programming**

**[2 Credits 30 hours]**

**Course Objective:**

The course is intended to prepare the students to solve logical problems that will help them in programming.

**Learning Outcome:**

The students will be able to design logical solutions to mathematical problems and convert them into flow chart and algorithms.

**Course Content**

1. Problem solving aspect: Top down, bottom up approach, Algorithms, Efficiency and analysis of algorithms (4)
2. Fundamental algorithms: Swapping two variables, Finding greatest of three numbers, Summation of a set of numbers, Reversing digits of an integer, Check is a number is prime, Generate Fibonacci numbers, Calculate factorial of a number, raising a number to a power (14)
3. Array techniques: Reverse array elements, find maximum or minimum of an array, Removing duplicates from array (6)
4. Merging, sorting and searching: Sorting array: insertion, selection, quick sort, sequential and binary searching (6)

**References:**

1.R.G. Dromey, How to solve it by computer

*Shaw*  
*Ms Shilpa Nark*

Attendance

No exam

Dempo Charities Trust  
**Dhempe College of Arts & Science**  
 Miramar - Goa.  
 Academic Year : 2015 - 16  
**SHORT TERM COURSE ATTENDANCE SHEET**

Name of the Course : Logic building and programming      Topic : Logic building and programming  
 Class :- **SYBSc.**      Batch :- I.      Assignment

Lecture No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
Date	5/11	6/11	7/11	11/11	13/11	14/11	15/11	19/11	21/11	25/11	27/11	28/11	1/12	3/12	4/12	15/12	16/12	17/12	11/3	12/3	18/3	19/3	21/3	22/3	24/3	25/3	26/3	27/3	28/3	29/3	30/3	
Name of Student																																
Trupti Mayee Das	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	
Jha Swapnil R.	P	P	A	A	P	A	A	P	P	A	P	P	P	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Priti Raut	P	A	P	P	P	P	P		P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Jocinto Luemba Lelo	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Murgarida Das																																
Dores Denza	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Umesh Kumar Pal	P	P	P	P	A	A	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
Bhatkande Gautami	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	

Name & Signature of the Teacher : Ms. Dipti Nene

In-Charge : Ms. Shilpa Naik

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**3. Name: Logic Building & Programming**

**Class: SYBSc Computer Science**

**Number of Students: 07**

**Fees charged: Rs 1000 per student**

**Duration: 40 hours**

**Aim: To learn & practice programming with effective reasoning & logic building.**

**Conducted from: 3<sup>rd</sup> January -12<sup>th</sup> March 2016**

**Instructor: Ms Dipti Nene**

The course on Logic Building & Programming was conducted for SYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the second term from 1st Dec 2015 to 12<sup>th</sup> march 2016.

The course teaches students the techniques Problem solving and logic building necessary for programming a system.

The student feedback score of the Instructor was 2.59