

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

Preparatory course for MCA entrance exam

[2 Credits 30 hours]

Course Objective:

The course is intended to prepare the students for entrance examinations for post-graduation courses in Computer Science.

Learning Outcome:

The students will be able to solve logical, analytical, mathematical, reasoning, problems that are part of various competitive examinations.

Course Content

- 1. Analytical Geometry: Cartesian and polar coordinate, straight line, circle, ellipse, parabola, hyperbola, translation & rotation of axes. (4)
- Algebra: Complex number, De Movier's theorem, Solution of equations, Determinants, Matrices, Summation of series, Addition of vectors, Scalar and vector products, Inequation, Sets and diagram, Union and intersection of sets, Complements, Algebra of sets, Finite sets, Class of sets, partitions, cross product, Group, Ring and Field.(5)
- Calculus: Limit, Continuity, Differentiation, Maxima and minima; Taylor & Maclaurin's series; Definite and indefinite integrals; First and second order differential equations; Functions of several variables; partial differentiation. (4)
- Probability & Statistics: Permutation, Combination; Probability distribution; Mean;
 Median; Mode; Standard deviation; Correlation coefficient. (5)
- Computer Basics: Organization of a computer, Central Processing Unit (CPU), structure of instructions in CPU, input/output devices, computer memory, and back-up devices.(3)
- Data Representation: Representation of characters, integers and fractions, binary and hexadecimal representations, binary arithmetic: addition, subtraction, multiplication, division, simple arithmetic and two's complement arithmetic, floating point representation of numbers, (6)
- 7. Boolean algebra, truth tables, Venn diagrams.(3)

Man Sula Nask

References

Dempo Charities Trust Dhempe College of Arts & Science

Miramar – Goa. Academic Year: 2015 - 16 SHORT TERM COURCE ATTENDANCE SHEET

Name of the course: MCA Entrance Exam Proparation

Topic: MCA Entrance Exam Preparation

Class :- TYBSc.

Lecture No.		2	3	4	5	6	7	8	9	10	11	12				16					22	23	24	25	26	27	28	29	30
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Name of Student																													
Francis Alfonso	P	P	A	P	P	P	P	4	P	P	P	P	P	P	47	P	P	P	P	P									
Johan A Braganza	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P									
Cameiro C Dahlin	P	H	P	P	P	P		P	P	P	P	P	P	A	P	P	P	P	P	P									
Ratish Kumbharjuvenl	car P	P	P	P	P	A	P	P	P	P	P	P	P	P	£	P	P	P	P	P			4						
Nagekar Dattesh	P	ρ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P									
Rodrigues Cassadra M.	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P									
Wagle Shrisha Sham	P	P	P	P	P	P	P	8	P	P	P	P	P	P	P	P	P	P	P	P									
Silveira Darrel Mehul	P	P	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P									
Manisha Phadte	P	P	P	P	P	A	P	8	P	P	P	P	P	A	P	P	r	P	P	P									
Nivesha Lopes	P	P	P	A	P	P	A	A	P	P	P	0	P	P	P	A	P	P	A	F									
Nikhil Mandrekar	P	P	A	P	P	P	P	A	A	P	P	P	P	A	A	P	P	P	A	P									

NA. Dipti Nene Name & Signature of the Teacher

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In-Charge Mark Nauk

6. Name: Preparatory course for MCA Entrance exam

Class: TYBSc Computer Science

Number of Students: 11

Fees charged: Rs 1000 per student

Aim: To learn to solve aptitude and computer application problems for MCA entrance exam

Conducted from: December 2015 to MArch 2016

The course on Android development was conducted for TYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the first term from December to March 2016

The course teaches students the techniques to solve mathematical aptitude and computer application related problems that are useful for entrance examinations for MCA and MSc.

The student feedback score of the Instructor was_2.78____

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