



NAZARETH COLLEGE OF ARTS AND SCIENCE

Affiliated to University of Madras
Re-accredited by NAAC with 'B' Grade
Academic year: 2022 – 2023 (Odd Semester)


Subject Orientation Program - Report

The Department of Computer Science organized “**Subject Orientation Program**” for the students during the **odd semester** in the academic year 2022- 2023. Subject Handlers of the respective subjects given orientation to the students. In this session staff members were given syllabus for their subjects. They also explained about the scope of the subjects along with its various outcome. Staff members also explained about how to study the subject and how to score good marks in the subject. Apart from the subject various activities is conducted to students and students also enthusiastically participated in that.


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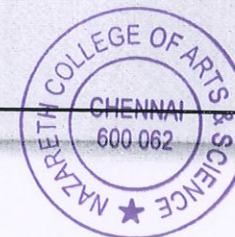
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SUBJECT ORIENTATION

**CLASS :III B.SC CS
SUBJECT :RELATIONAL DATABASE MANAGEMENT SYSTEM
SEMESTER: ODD**

STAFF NAME: MS.R.KAVIYARASI

DEPARTMENT: COMPUTER SCIENCE




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ORIENTATION

**WELCOME ALL TO THIS
ODD SEMESTER
(2022-2023)**



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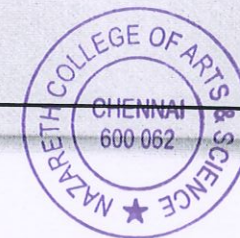
ORIENTATION

SUBJECT HANDLER

KAVIYARASI R

SUBJECT

**RELATIONAL DATABASE
MANAGEMENT SYSTEM**

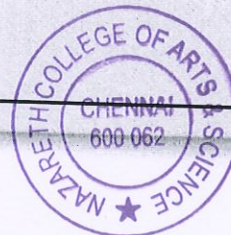


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RELATIONAL DATABASE MANAGEMENT SYSTEM

GOOGLE CLASSROOM
(Code will be send by class
incharges, Students should join, so
that subject handlers can give
assignments, notes ,assessments,
tests and seminars and evaluate
them)



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SYLLABUS

(This contains the details
of the unit in the particular
subject)



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NOTES

(This contains notes in doc
so that the students can
able to study)



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RELATIONAL DATABASE MANAGEMENT SYSTEMURES

PPT

(This contains notes in ppt
so that the students can
able to study)



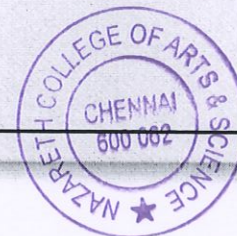
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ASSESSMENTS

(The assessment contains 5 questions for each class and the students should answer which can be taken for internal assessment)



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ASSIGNMENT (1 assignment)



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ATTENDANCE

(Staff should take the students attendance everyday ,send the report to the principal and taken for internal assessment)



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WORK DONE REGISTER
(Class Representative
should do this work)



Forthalia
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INTERNAL ASSESSMENT

1. Seminar-5 marks
2. Assignments -5 marks
3. Test-10 Marks
4. Attendance-5 marks

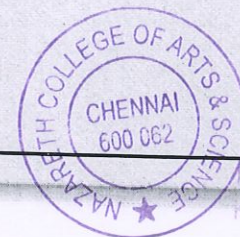



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OBJECTIVES

- Gain a good understanding of the architecture and functioning of Database Management Systems
- Understand the use of Structured Query Language (SQL) and its syntax. Apply Normalization techniques to normalize a database.
- Understand the need of transaction processing and learn techniques for controlling the consequences of concurrent data access.




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OUTCOMES:

- Describe basic concepts of database system
- Design a Data model and Schemas in RDBMS
- Competent in use of SQL
- Analyze functional dependencies for designing robust Database



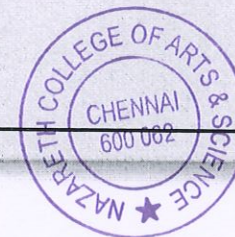
Paul Anbari
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SYLLABUS

Unit 1: Introduction to DBMS– Data and Information - Database – Database Management System – Objectives - Advantages – Components - Architecture. ER Model: Building blocks of ER Diagram – Relationship Degree – Classification – ER diagram to Tables – ISA relationship – Constraints – Aggregation and Composition – Advantages

Unit-2: Relational Model: CODD's Rule- Relational Data Model - Key - Integrity – Relational Algebra Operations – Advantages and limitations – Relational Calculus – Domain Relational Calculus - QBE.



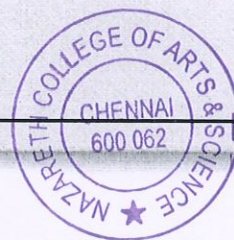
P. Anitha
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UNIT - III Structure of Relational Database. Introduction to Relational Database Design - Objectives – Tools – Redundancy and Data Anomaly – Functional Dependency - Normalization – 1NF – 2NF – 3NF – BCNF. Transaction Processing – Database Security.

UNIT - IV SQL: Commands – Data types – DDL - Selection, Projection, Join and Set Operations – Aggregate Functions – DML – Modification - Truncation -Constraints – Subquery.

UNIT - V PL/SQL: Structure - Elements – Operators Precedence – Control Structure – Iterative Control - Cursors - Procedure - Function - Packages – Exceptional Handling - Triggers




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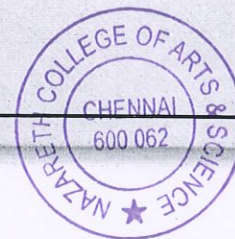
TEXT BOOKS:


1.S. Sumathi, S. Esakkirajan, “Fundamentals of Relational Database Management System”, Springer International Edition 2007.

REFERENCE BOOKS:

1.Abraham Silberchatz, Henry F. Korth, S. Sudarshan, “Database System Concepts”, McGrawHill 2019, 7th Edition.

2. Alexis Leon & Mathews Leon, “Fundamentals of DBMS”, Vijay Nicole Publications 2014, 2nd Edition.




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THANK YOU



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