Aggarwal College Ballabgarh

A Post Graduate Co-educational College
(Affiliated to M. D. University, Rohtak)
NAAC Accredited 'A' Grade (CGPA: 3.40)

Certificate Course in Information Systems and Common Business Processes

Objective

This program focuses on enterprise resource planning, sales and marketing and managing data using SQL

Benefit

This program imparts of information system and common Business Processes and Manage data using SQL

Duration

66 hours

Examination

Paper	Title of the paper
Paper-1	Introduction of programming component
Paper-2	Data Management System

Project:

Project using SQL data base

Course contents & Syllabus

Introduction of programming component – Paper 1

- Implement iterative processes
    - Loops.
    - While loop.
    - Do while Loop.
- Implement modular programming
    - Functions.
    - Batches.
    - Procedures.
- Work with arrays
    - What is an array?
    - What is the difference between variable and Array.
    - Single dimensional Array
    - Double Dimensional Array.
    - Manipulate arrays using loops

- Understand Organization and their Business Processes
    - What is organization?

- o What are different business processes?
- Understand Information Systems
  - o What is information Systems?
  - o How to implement Information systems
- Identify the need of Enterprise Resource Planning
  - o Resource Planning.
  - o Enterprise resource planning.
- Manage Sales and Marketing Using Information Systems
  - o What is sales and Marketing?
  - o Why Sales and Marketing?
  - o How to implement Sales and Marketing using Information systems.

Data Management System – Paper 2

- Manage Production Using Information Systems
- Manage Logistics Using Information Systems
- Learn about Human Resource Management Using Information Systems
  - o What is Human Resource?
  - o What are the different Job roles of Human Resource?
  - o How we can manage Human Resources using Information Systems.
- Manage Financial Accounting Using Information Systems
  - o Idea of Financial Accounting?
  - o Different tools in Information
- Create Financial Statements.
  - o Trading Account.
  - o Profit and loss Account.
  - o Balance sheet.
  - o Cash flow statement.
- Manage The Supply Chain Using Information Systems
  - o Subsidiary books.
- Learn about Data Models
  - o What is a Data Models.
  - o Different types of Data Models.
- Create Database Design
  - o What is a database?
  - o Create database.
  - o Manage database.
- Normalize and De-normalize Data
  - o What is normalization?
  - o Why to normalize data?
  - o Different forms of Normal Form.
- Manipulate Data in Tables
  - o What is a table?
  - o What is tupple?
  - o What is a field?
- Implement Indexes, Views, and Full-Text Search
  - o What is an Index.
  - o Why we need indexing.
  - o Different types of Indexes.
  - o Full-Text Search.
  - o Why Views.
- Implement Stored Procedures and Functions
  - o Stored procedures.
  - o Stored procedures with input parameters.
  - o Stored procedures with Output Parameters.
  - o Functions
  - o Difference between function and stored procedure.
- Work with Triggers and Transactions

- o   Triggers.
- o   Different types of Triggers.
- o   Insert, update and delete Trigger.
- Monitor and Optimize Performance

Certification
Certificate in Information Systems and Common Business Processes

Project
Project using SQL data base