



# **SANATAN DHARMA COLLEGE, AMBALA CANTT**

College with Potential for Excellence, UGC, New Delhi  
NAAC Accredited Grade "A+" with CGPA 3.51 in 3<sup>rd</sup> cycle  
ISO 9001:2015 & ISO 14001:2015 Certified



## **Department of Computer Science**

### **Lesson Plan (Session 2022-2023)**

**Class: B.Com CAV    Sem: V    Course Code: BC (Voc)-506    Nomenclature: SYSTEM ANALYSIS & DESIGN**

**Duration: 16 Weeks**

**Dates: 5 Sep, 2022- 25 Dec, 2022**

### **SYLLABUS**

**BC (Voc)-506  
SYSTEM ANALYSIS & DESIGN**

Max. Marks: 60  
Internal Marks: 20  
Time: 3 Hours

**Note:** Paper setter will set nine questions in all. Question No. 1 comprising of five short types questions carrying four (4) marks each is compulsory. It covers the entire syllabus. Answer to each question should not be more than one page. Candidate is required to attempt four questions from the remaining eight questions carrying 10 marks each.

**SAD:** definition of system, characteristics, elements, types of system, system development life cycle; techno-economic feasibility; role of system analyst the process of logical and physical design, form design: input, output, form, system testing, auditing, system maintenance, threats to security, control measures.

**Practical:** The candidates will develop a systems design, such as feasibility study, comparative charts, impact analysis, etc., in their vicinity using computer applications

### **REFERENCES**

- E.M. Awadh, Structured Systems Analysis by, Galgotia Publications.
- Kendall, System Analysis and Design, Pearson
- Maneesh Trivedi, System Analysis and Design, Khanna Publishing
- A Priya, System Analysis and Design, Margham Publications

### Course Outcomes

After the completion of this course, prospective Computer professionals will have the ability to

| CO No. | Course Outcome   |
|--------|--|
| 1      | Students will learn the types of system, system development life cycle.  |
| 2      | Will introduce Techno-economic feasibility; Role of system analyst the process of logical and physical design. |
| 3      | Will make students learn to form design: input, output, form. System testing, auditing,                        |
| 4      | Will provide knowledge about system maintenance, threats to security, control measures.                        |

| S.No | Instructional Technique | Assessment Methods (AM) |
|------|-------------------------|-------------------------|
| 1    | Chalk & Talk            | Assignments             |
| 2    | ICT tools               | Quiz                    |
| 3    | Group discussions       | Group Discussions       |
| 4    | Industrial visit        | Oral Tests              |
| 5    | Case studies            | Sessional               |
| 6    | Small Projects          | Presentations           |
| 7    | Workshop                | Seminar                 |
| 8    | Spoken Tutorials        | University Exams        |
| 9    | Flipped Class           |                         |
| 10.  | E-Resources             |                         |

### Detailed Lesson Plan

| Week | Date                   | Topic to be Covered                                     | Instructional Technique | Assessment Method |
|------|------------------------|---|-------------------------|-------------------|
| 1    | 8- Sep-22              | Introduction of SAD                                     | 2-(PPT/Projector)       | ----              |
|      | 9- Sep-22              | Definition of system, and characteristics               | 2(PPT/Projector)        | 1                 |
|      | 10-Sep-22              | Elements of system                                      | 1                       | 1                 |
| 2    | 15-Sep-22              | Types of system   | 1                       | 1,2,3,4           |
|      | 16-Sep-22              | Overview of system development life cycle               | 2-(PPT/Projector)       | 1,2,3,4           |
|      | 17-Sep-22              | Discuss various phases of system development life cycle | 2-(PPT/Projector)       | 1,2,3,4           |
| 3    | 22-Sep-22              | Examples of system development life cycle               | 2-(PPT/Projector)       | 1,2,3,4           |
|      | 23-Sep-22              | Holiday   |                         |                   |
|      | 24-Sep-22              | Techno feasibility;                                     | 2-(PPT/Projector)       | 1,2,3,4           |
| 4    | 29-Sept-22             | Economic feasibility;                                   | --                      | ---               |
|      | 30-Sept-22             | Role of system analyst                                  | 2-(PPT/Projector)       | 1,2,3,4           |
|      | 1-Oct-22               | comparative charts                                      | 2-(PPT/Projector)       | 1,2,3,4           |
| 5    | 6-Oct-22               | Assignment -1   |                         |                   |
|      | 7-Oct-22               | Revision  |                         |                   |
|      | 8-Oct-22               | Doubt session   |                         |                   |
| 6    | 13-Oct-22              | Holiday   | ---                     |                   |
|      | 14-Oct-22              | impact analysis   | 9                       | 1,2,3,4,6         |
|      | 15-Oct-22              | Case study of an enterprise                             | 8,10,2                  | 1,2,3,4,          |
| 7    | 20-Oct-22              | Design Phase  | 8,10,2                  | 1,2,3,4,          |
|      | 21-Oct-22              | process of logical and physical design                  | 6                       | 1,2,3,4           |
|      | 22-Oct-22 to 26-Oct-22 | Diwali Vacation   |                         |                   |
| 8    | 27-Oct-22              | process of logical and physical design                  | 2-(PPT/Projector)       | 1,2,3,4           |
|      | 28-Oct-22              | Revision  |                         |                   |
|      | 29-Oct-22              | Revision  |                         |                   |
| 9    | 3-Nov-22               | form design   | 2-(PPT/Projector)       | 1,2,3,4           |
|      | 4-Nov-22               | Input form design                                       |                         |                   |
|      | 5-Nov-22               | Output form design                                      | 2-(PPT/Projector)       | 1,2,3,4           |
| 10   | 10-Nov-22              | Doubts of form design                                   | 2-(PPT/Projector)       | 1,2,3,4           |
|      | 11-Nov-22              | Assignment-2  |                         |                   |
|      | 12-Nov-22              | Testing   | 6                       | 1,2,3,4           |
| 11   | 17-Nov-22              | Various types of testing                                | --                      | 5                 |
|      | 18-Nov-22              | Revision  |                         |                   |
|      | 19-Nov-22              | Sessional   |                         |                   |
| 12   | 24-Nov-22              | system testing  | 6                       | 1,2,3,4           |
|      | 25-Nov-22              | Auditing  | 2-(PPT/Projector)       | 1,2,3,4           |

|    |           |                     |                   |         |
|----|-----------|---------------------|-------------------|---------|
|    | 26-Nov-22 | Auditing            | 6                 | 1,2,3,4 |
| 13 | 1-Dec-22  | System maintenance  | 2-(PPT/Projector) | 1,2,3,4 |
|    | 2-Dec-22  | threats to security | 9,10              | 1,2,3,4 |
|    | 3-Dec-22  | threats to security | 9,10              | 1,2,3,4 |
| 14 | 8-Dec-22  | Revision            |                   |         |
|    | 9-Dec-22  | Revision            |                   |         |
|    | 10-Dec-22 | Class Test          |                   |         |
| 15 | 15-Dec-22 | control measures    | 6                 | 1,2,3,4 |
|    | 16-Dec-22 | Case study          | 2-(PPT/Projector) | 1,2,3,4 |
|    | 17-Dec-22 | Case study          |                   |         |
| 16 | 22-Dec-22 | Revision            | --                | --      |
|    | 23-Dec-22 | Revision            | --                | --      |
|    | 24-Dec-22 | Revision            |                   |         |

