

CSE3211: System Analysis and Design
75 Marks [70% Exam, 20% Quizzes/Class Tests, 10% Attendance]
3 Credits, 33 Contact hours, Exam. Time: 4 hours

Introduction: Introduction to information systems, general design consideration of information systems.

Overview: system concepts and the information systems environment, information needs, the concepts of MIS, the system development life cycle, the role of the systems analysis.

Systems Analysis: Systems planning and the initial investigation, information gathering, the tools of structured analysis, feasibility study, cost benefit analysis.

Systems Design: The process and stages of systems design, input/output and forms design, file organization and data base design.

System Implementation: system testing and quality assurance, implementation and software maintenance, hardware/software selection, project scheduling and software, Security, disaster/recovery, and ethics in system development.

Case study: Case studies of various information systems such as: Library management system, inventory system, voter identity management system, payroll system, etc.

Books Recommended:

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| 1. | E.M. Awad | : | System Analysis and Design , <i>Galgotia Publication Ltd</i> |
| 2. | P. Edwards | : | System Analysis & Design , <i>McGraw-Hill</i> |
| 3. | J.G. Burch Jr., F.R. Strater and G. Grundnitski | : | Information Systems: Theory and Practice , <i>John Wiley & Sons.</i> |
| 4. | G. Scott. | : | Principles of Management Information Systems , <i>McGraw-Hill</i> |
| 5. | A. Daniels and D. Yeates | : | Basic System Analysis , <i>Galgottia</i> |