Kathmandu University School of Management
Bachelor of Business Administration
Course Syllabus

Course Title	**SYSTEM ANALYSIS AND DESIGN**
Course Code Number	**COM 321**
Credit Hours	**3**
Course Objective	
Main Objective	The objective of the course is to develop understanding on the functions and methods of systems development from theoretical and applied perspective. The course aims to develop understanding on System Development Life Cycle, its methodologies and various structured approaches to the system development process and its tools, and techniques. The course also intends to introduce the concepts of business information system analysis and design including the framework for information systems architecture, , feasibility analysis, requirement discovery, data and process modeling, system construction and implementation, operation and support.
Learning Unit	
Learning Unit One **Net Contact Hours -4 hrs**	**1. Players in the System Game** Importance of System Analysis & Design, Information Workers, Modern System Analyst, Modern Business Trends and Implications, Preparing for Career as System Analyst
Learning Unit Two **Net Contact Hours - 5 hrs**	**2. Information System Building Blocks** Information Systems, Framework for Information Systems Architecture, Data Building Blocks Process Building Blocks, Interface Building Blocks.
Learning Unit Three **Net Contact Hours - 6 hrs**	**3. Information Systems Development** Process of Systems Development, System Development Methodology, Alternate Routes and Methods, Automated Tools and Technology.
Learning Unit Four **Net Contact Hours - 4 hrs**	**4. Project Management** What is Project Management?, Project Management Life Cycle.
Learning Unit Five **Net Contact Hours - 5 hrs**	**5. Feasibility Analysis and the System Proposal** Feasibility Analysis and System Proposal, Four Tests of Feasibility, Cost-Benefit Analysis Techniques, Feasibility Analysis of Candidate Systems, System Proposal.
Learning Unit Six **Net Contact Hours - 5 hrs**	**6. Requirement Discovery** Introduction to Requirement Discovery, Process of Requirement Discovery, Requirement Discovery Methods, Documenting Requirements Methods.
Learning Unit Seven **Net Contact Hours - 6 hrs**	**7. Data Modeling and Analysis** Introduction to Systems Modeling, Systems concepts for Data Modeling, Process of Logical Data Modeling, How to construct Data Models, Analyzing Data Model, Mapping Data Requirement to Locations, DFD, ERD.
Learning Unit Eight **Net Contact Hours - 6 hrs**	**8. Process Modeling and Analysis** Introduction to Systems Modeling, Systems Concepts for Process Modeling, Process of Logical Process Modeling, How to construct Process Models, Synchronizing of System Models.
Learning Unit Nine **Net Contact Hours - 4 hrs**	**9. System Constructions and Implementation** What is System Construction and Implementation?, Implementation Phase.
Learning Unit Ten **Net Contact Hours - 3 hrs**	**10. System Operations and Support** Context of Systems Operation and Support, System Maintenance, System Recovery, Technical Support, System Obsolescence, System Enhancement.
Total Contact Hours	48 hrs (excluding assessment and final examination)
Basic Text	1. Jeffrey L. Whitten and Lonnie D. Bentley (2001), ***Systems Analysis and Design Methods,*** 7th Edition, Tata McGraw-Hill Edition. 2. CASE tools for lab work
Evaluation Scheme	In-Semester evaluation 50% End-Semester evaluation 50% Total 100%

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