# Software Engineering Methodologies

## Session 1: System concept and Information System Environment

1. The system concept, characteristics of system, elements of system.
3. Introduction system planning & initial investigation, various information gathering tools feasibility study concretions & structures tools of system analysis.
4. Various methods of process design, form design methodologies, introduction to information system testing, quality assurance security.

## Session 2: Software Process, Product and Project


## Session 3: Software Project Planning & Design

2. The Make/Buy Decision., Risk analysis.

## Session 4: Software Quality Assurance and Testing

4. Testing Strategies: A strategic approach of software testing strategic issues, unit testing, integration testing, validation testing, system testing.
5. The art of debugging. OOA, OOD.

## Session 5: Advance Topics

1. MIS & DSS: Introduction to MIS, long range planning, development and implementation of an MIS, applications of MIS in manufacturing sector and in service sector.
2. Decision Support System concepts, types of DSS.
5. CASE tools, Re-engineering.
Book References