

1.	Software Life Cycle	12
	Scope of Software Engineering – Historical, Economic and Maintenance Aspects – Software Process – Software Life Cycle Models – Tools.	
2.	Testing	7
	Quality – Non-Execution based Testing – Execution based Testing – Testing versus Correctness Proofs – Testing Distributed and Real Time Software	
3.	Object Orientation	7
	Modules – Objects – Reusability – Portability and Interoperability – Planning and Estimation	
4.	Analysis and Design	11
	Requirements Phase – Specification Phase – Object Oriented Analysis Phase – Design Phase.	
5.	Implementation and Integration	8
	Implementation Phase – Integration Phase – Maintenance Phase	

TOTAL = 45

Text Books :

1. Stephen R Schach, “Classical and Object-Oriented Software Engineering – With UML and C++”, McGraw Hill, New Delhi, 2002.
2. Ivar Jacobson, “Object Oriented Software Engineering”, Pearson Education, 1992

References:

1. Roger S.Pressman, Software engineering- A practitioner’s Approach, McGraw-Hill International Edition, Fifth Edition , 2001.
2. Ian Sommerville, Software engineering, Pearson education Asia, Sixth edition, 2000.
3. Pankaj Jalote- An Integrated Approach to Software Engineering, Springer Verlag, 1997.
4. James F Peters and Witold Pedryez, “Software Engineering – An Engineering Approach”, John Wiley and Sons, New Delhi, 2000.
5. Ali Behforooz and Frederick J Hudson, “Software Engineering Fundamentals”, Oxford University Press, New Delhi, 1996.