

<b>IT9111</b>	<b>SOFTWARE ENGINEERING METHODOLOGIES</b>	<b>L T P C</b>
		<b>3 0 0 3</b>
<b>UNIT I</b>	<b>SOFTWARE LIFE CYCLE</b>	<b>12</b>
Scope of Software Engineering – Historical, Economic and Maintenance Aspects – Software Process – Software Life Cycle Models – Tools.		
<b>UNIT II</b>	<b>TESTING</b>	<b>7</b>
Quality – Non-Execution based Testing – Execution based Testing – Testing versus Correctness Proofs – Testing Distributed and Real Time Software		
<b>UNIT III</b>	<b>OBJECT ORIENTATION</b>	<b>7</b>
Modules – Objects – Reusability – Portability and Interoperability – Planning and Estimation		
<b>UNIT IV</b>	<b>ANALYSIS AND DESIGN</b>	<b>11</b>
Requirements Phase – Specification Phase – Object Oriented Analysis Phase – Design Phase.		
<b>UNIT V</b>	<b>IMPLEMENTATION AND INTEGRATION</b>	<b>8</b>
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.