

Software Quality Assurance



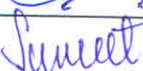
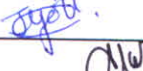

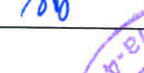


Semester III	Subject Code: MSE31906	Lectures: 60
--------------	------------------------	--------------

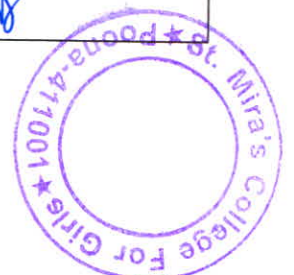
Objectives:

The syllabus aims in equipping students with,

- to enable student to learn Software Quality Assurance
- to enable student to do good practices with the help of various techniques, Strategies and Tools
- to enable student to improve quality of project

Unit 1: Software quality and SQA Components	8
Chapter 1 : Software quality	4
<ul style="list-style-type: none"> • Definition • Software errors, software faults and software failures • Software quality assurance – definition and objectives • Software quality assurance vs. software quality control • The objectives of SQA activities 	
Chapter 2 : Pre-project SQA Components	4
<ul style="list-style-type: none"> • Contract Review • Development and Quality Plan 	

Sr. No.	BOS member		Sign
1	Dr. Razak Sayyed	Subject Expert	
2	Prof. Abhijit Sathe	Subject Expert	
3	Prof. Sonali Deshmukh	Subject Expert	
4	Mr. Sumeet Kakroo	Industry Expert	
5	Ms. Jyoti Sharma	Alumni	
6	Prof. Ashwini Kulkarni	Chairman	
7	Prof. Swati Pulate	Internal Faculty	
8	Prof. Smita Borkar	Internal Faculty	




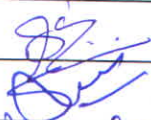
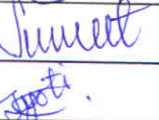
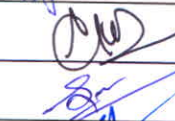
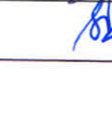


Chapter 7 : Configuration Management	4
<ul style="list-style-type: none"> • Change control • Release and version control • Software configuration management audit 	

Unit 4: Quality Improvement Technique and cost	9
Chapter 8 : Quality Improvement Technique	4
<ul style="list-style-type: none"> • Pareto Diagrams • Cause-Effect Diagrams • Scatter Diagrams • Run Charts 	
Chapter 9 : Quality Costs	5
<ul style="list-style-type: none"> • Quality Cost Measurement • Utilizing Quality Costs for Decision-Making 	

***Contact hours – 12 hours**

Reference Books:

1. Pearson, *Software Quality Assurance from theory to implementation*, Danial Galin
2. McGraw-Hill, *Software Project management*, Edwin Bennatan
3. McGraw-Hill, *Software Engineering*, Roger S. Pressman, TMH, 7Th Ed.
4. Alpha Science, *Software Quality Assurance : Principles and Practice*,s Nina Godbole,

Sr. No.	BOS member		Sign
1	Dr. Razak Sayyed	Subject Expert	
2	Prof. Abhijit Sathe	Subject Expert	
3	Prof. Sonali Deshmukh	Subject Expert	
4	Mr. Sumeet Kakroo	Industry Expert	
5	Ms. Jyoti Sharma	Alumni	
6	Prof. Ashwini Kulkarni	Chairman	
7	Prof. Swati Pulate	Internal Faculty	
8	Prof. Smita Borkar	Internal Faculty	

