



SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)

(Established under section 3 of the UGC Act 1956)

Re - accredited by NAAC with 'A' Grade

Founder: Prof. Dr. S. B. Mujumdar, MSc, Ph.D. (Awarded Padma Bhushan and Padma Shri by President of India)

Sub Committee - Specialization for Curriculum Development

Course Name : Business Agile Practices

Course Code : T3682

Faculty : Computer Studies

Programme Type : PG

Course Credit : 3

Course Level : 4

Sub-Committee (Specialization) : Software Solutions Management

Batch : 2021

Learning Objectives :

- Understand the practices and philosophies of agile methods
- Understand agile development and testing activities
- To compare various agile practices in the project
- To implement agile methodologies using various tools.

Books Recommended :	Book	Author	Publisher
	Agile Software Development: The Cooperative Game, Second Edition	Cockburn, Alistair	Addison-Wesley Professional
	Coaching Agile Teams: A Companion for ScrumMasters, Agile Coaches, and Project Managers in Transition	Adkins, Lyssa	Addison-Wesley. 2010.

Course Outline :	Sr. No.	Topic	Hours
	1	System and software concepts, Engineering Software, Traditional software development methodologies, Selection of software engineering methodologies for software project	3
	2	Agile definitions and historical context Agile Manifesto - Agile Values and Principles Misconceptions about Agile	3
	3	Introduction to Agile ? Fundamentals of Agile Software Development Overview of Agile Methods Common Agile methods including Scrum, Lean, XP, Crystal and Kanban Specific Agile techniques - Cumulative Flow Diagrams and Value Stream Mapping	7
	4	Agile Project Lifecycles Typical Agile Project Lifecycles activities Activity-wise deliverables planning Forming Agile Teams Create product vision Develop product with a Minimum Marketable Feature Understanding Test Driven Development (TDD), RUP , MDA	8

5	Requirements and Release Planning	5
	Creating the Product Backlog	
	Develop User Stories	
	Prioritizing and Estimating work efforts	
	Creating the Release Plan and schedule	
6	Monitoring and Adapting Practices	6
	Task Boards and Information Radiators	
	Control Limits, Variance and Trend Analysis	
	Managing Risks and Issues	
	Retrospectives	
7	Testing in Traditional and Agile Approaches	6
	Fundamental Agile Testing Principles, Practices, and Processes	
	Testing and Development Activities	
	Test Levels	
	Testing and Configuration Management	
8	Tools in Agile Projects	2
9	Business Cases on Agile methodologies	5

Pre Requisites :

Basic understanding of software, software products, software applications
 Knowledge of 4G programming language
 Knowledge of Office tools

Evaluation :

case studies
 Assignment
 Quiz
 Class test
 Project

Pedagogy :

Lecture & Discussion
 Case analysis
 Article analysis

Expert :

Dr. Sarika Sharma, Professor, SICSR