Name of the Course	Software Development Methodologies (Agile, DevOPS
Duration	30 Hours
Type	Value Added Course

Module No	Module Name	Topics	Duration In Hours
1.	Software Development Life Cycle	Waterfall Model, Prototype model, Spiral Model, Iterative Incremental Model, RAD Model.	6
2.	Software Requirements Specification	Introduction to SRS, Software Requirements Specification vs. System Requirements Specification, SRS Template, Characteristics of good SRS, Case Study.	6
3.	Agile Methodologies	Introduction to Agile Methodologies, Agile VS Other software methodologies, The history of Agile methodology, Agile principles, benefits of Agile project management, Scrum, Daily Scrum, Case Study.	6
4.	DevOps Methodology	Version control with Git, Git, Jenkins, Maven, Integration with Jenkins, Testing with Selenium, Containerization with Docker, Ecosystem and Networking, Kubernetes, Case Study.	6
5.	Project	Software development project: From understanding requirements to developing models.	6