Name of the Programme: M.Sc. in Artificial Intelligence

Course code:CSI-515

Title of course: Software Engineering for AI Enabled Systems Lab

Number of credits: 2 (0L-0T-2P) Effective from AY: 2023-24

<b>Prerequisites for</b>	Programming & Data Structures, Python	
the course		
<u>Objectives</u>	Applying SE approach to developing AI solutions	
	Use of modern software engineering tools and frameworks	
<u>Content</u>	1)Version Control Tools- Git and Github	12 hours
	2)TDD –Unit testing and refactoring with Python	12 hours
	3)Working with Python libraries and frameworks	12 hours
	4)Use of testing tools- selenium, Jmeter	12 hours
	5) Cloud based software development & DevOps	12 hours
<u>Pedagogy</u>	Lab sessions and projects	
References/	Hands-On Software Engineering with Python: Move beyond basic	
<u>Readings</u>	programming and construct reliable and efficient software with complex code,	
	Brian Allbee, Packt Publishing.	
	2. A concise Introduction to Software Engineering, Pankaj Jalote-2008n- Springer.	
	3. Agile Estimating and Scrum, Mike Cohn, Prentice Hall.	
<u>Course</u>	1. Application of SE principles for AI and Data Science projects	
<u>Outcomes</u>	2. How to work in self organzing teams	
	3. Use of tools and techniques for automating and manag	ing software
	development	
	4. Understand how to implement devop	