THE Impact Ranking 2021

SDG Curriculum Mapping

Course Title: Software Engineering

Course Code: CSE 404

Faculty Name: Satyaki Das

**Learning Objectives mapping with SDG:**

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| Learning Objectives | Statement of the learning components | SDG Mapping | | |
| Goal | Target | Indicator |
| Introduce basic SW engineering methods and practices, and their appropriate application | SDG 4,  SDG 9,  SDG 11,  SDG 17 |  |  |
| Provide a general understanding of software process models | SDG 4,  SDG 9,  SDG 11 |  |  |
| Develop the understanding of software requirements and the SRS documents | SDG 4,  SDG 9,  SDG 11,  SDG 17 |  |  |
| Expose to the role of project management including software documentation | SDG 4,  SDG 9,  SDG 11,  SDG 17 |  |  |
| Highlight on software testing approaches | SDG 4,  SDG 9,  SDG 11 |  |  |
| Content | Introduction to Software Engineering as a Discipline | SDG 4,  SDG 9 |  |  |
| Software Life Cycles | SDG 4,  SDG 9 |  |  |
| Software Requirement Specification and Analysis | SDG 4,  SDG 9,  SDG 11,  SDG 17 |  |  |
| Object Oriented Analysis and Design | SDG 4,  SDG 9 |  |  |
| Architectural and Design patterns | SDG 4,  SDG 9 |  |  |
| SQA, Project management, Testing | SDG 4,  SDG 9,  SDG 11,  SDG 17 |  |  |
| Learning Activities | 1. Lectures, group discussion, studying published literature along with textbooks | SDG 4,  SDG 17 |  |  |
| 2. As a group project, students prepare develop a software and prepare an SRS report for the software | SDG 4,  SDG 9,  SDG 11,  SDG 17 |  |  |