

**Maulana Abul Kalam Azad University of Technology, West Bengal***(Formerly West Bengal University of Technology)***Syllabus for B. Tech in Computer Science & Engineering**

(Applicable from the academic session 2018-2019)

**Software Engineering Lab****Code: ESC591****Contact: 4P**

Name of the Course:	<b>Software Engineering Lab</b>
Course Code: <b>ESC591</b>	Semester:V
Duration:6 months	Maximum Marks:100
<b>Teaching Scheme:</b>	
Theory: hrs./week	Continuous Internal Assessment
Tutorial: NIL	External Assesement:60
Practical: 4 hrs./week	Distribution of marks:40
Credit Points:	2
<b>Course Outcomes:</b>	
1	To understand the software engineering methodologies involved in the phases for project development.
2	To gain knowledge about open source tools used for implementing software engineering methods.
3	To exercise developing product-startups implementing software engineering methods.
4	Learn simple optimization techniques
<b>Pre-Requisite:</b>	

**Laboratory Experiments:**

- Problem Analysis and Project Planning -Thorough study of the problem – Identify Project scope, Objectives and Infrastructure.
- Software Requirement Analysis – Describe the individual Phases/modules of the project and Identify deliverables. Identify functional and non-functional requirements.
- Data Modeling – Use work products – data dictionary.
- Software Designing - Develop use case diagrams and activity diagrams, build and test class diagrams, sequence diagrams and add interface to class diagrams.
- Prototype model – Develop the prototype of the product.

The SRS and prototype model should be submitted for end semester examination.

Any experiment specially designed by the college

(Detailed instructions for Laboratory Manual to be followed for further guidance)