SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY
SOFTWARE ENGINEERING DEPARTMENT

COURSE INFORMATION SHEET

Session:	Spring-2021
Course Title:	Introduction to Software Engineering
Course Code:	SWE - 106
Credit Hours:	0+1
Pre-Requisite:	Introduction to Computing, Programming Fundamentals

COURSE OBJECTIVE:

This course provides rich learning experiences to educate future software engineers for success in a rapidly evolving computing field. The program help students lay the foundation for achievement of the objectives like agile software developers with a comprehensive set of skills, capable of team and organizational leadership in computing project settings and have a broad understanding of ethical application of computing based solutions to the society and organizations. Also, acquire skills and knowledge to advance their career including professional, communication, analytic and software technical skills.

COURSE LEARNING OUTCOMES:

No.	Course Learning Outcomes (CLOs)	Bloom's Taxonomy
CLO 1	Follow instructions in the laboratory to construct scenarios in different software tools to produce process development and execution	C3 (Applying)
CLO 2	Demonstrate team work to create a technical project report	C6 (Creating)

GRADING POLICY:

Assessment Tools	Percentage
Lab Manual	30%
Project/Assignment	30%
Lab Exam	40%
TOTAL	**100%**

Recommended Books:
- 2nd Semester, **Introduction to Software Engineering Lab Manual**, Software Engineering Department, Sir Syed University of Engineering & Technology, Karachi
- **Software Engineering (A Practitioner's Approach)** By Roger S. Pressman & Maxim B. R., McGraw Hill (8th Edition)
- Software Engineering by Sommerville I., Pearson (10th Edition)

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LAB PLAN

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Week No.	Lab Date	Objective	Required Reading
1	15-02-2021 to 19-02-2021	Creating flow charts with MS Visio	Lab # 1
2	22-02-2021 to 26-02-2021	Advanced concepts with MS Visio	Lab # 1
3	01-03-2021 to 05-03-2021	Implementation of Gantt and Pert Charts	Lab # 2
4	08-03-2021 to 12-03-2021	Working with UML	Lab # 3
5	15-03-2021 to 19-03-2021	Use Case and Sequence Diagram in UML	Lab # 4
6	22-03-2021 to 26-03-2021	Working with Class Diagram in UML	Lab # 5
7	29-03-2021 to 02-04-2021	Working with Data Flow Diagrams in UML	Lab # 6
8	**Mid Term Examination (05-04-2021 to 10-04-2021)**		
9	12-04-2021 to 16-04-2021	Software Requirement Specification Development	Lab # 7
10	19-04-2021 to 23-04-2021	Project Development; Client Side Configuration	Lab # 8
11	26-04-2021 to 30-04-2021	Project Development; Server Site Configuration	Lab # 9
12	03-05-2021 to 07-05-2021	User Login and Password Configuration	Lab # 10
13	10-05-2021 to 14-05-2021	Web Development; View and Edit Record	Lab # 11, 12
14	17-05-2021 to 21-05-2021	Web Development; Insert & Delete Record	Lab # 13, 14

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15	24-05-2021 to 28-05-2021	Implementation of Program Testing	Lab # 15
16		**Lab Examination** **(31-05-2021 to 04-06-2021)**	