<u>Software Engineering (MSc Program)</u>

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Program Objectives and Program (Intended) Learning Outcomes (MSc)

Program Objectives and Program (Intended) Dearning outcomes (ILO)																
(PO)		A- Knowledge &Understanding			B-intellectual Skills			C-Practical Skills				D-Transferable Skills & Personal Qualities				
Students will be able:	A1	A2	A3	B1	B2	В3	C1	C2	С3	C4	D1	D2	D3	D4	D5	
PO1: Students will be able to demonstrate a broad knowledge of Software Engineering which includes software requirement, software design, architecture, c_struction, testing.	~				~		~	*	*	*		~	~			
PO2: Students will gain a substantial knowledge of one of the following Software Engineering specialties: software requirement, software design, architecture, construction, testing.	~				~		~	~	*	1		~	~			
PO3 : Students will demonstrate the ability to recognize, design and implement efficient software solutions to problems.	~	~	~	~	*	>	~	~					~			
PO4: Students will demonstrate knowledge and understanding of professional ethics and responsible behaviour.	~	~	~								~	~	~	~	~	
PO5: Students will demonstrate the ability to communicate effectively and to work as a team.	~	~	~								~	~	~	~	~	
PO6: Students will become successful professionals able to gain Employment and/or to be accepted into a Software engineering Ph.D. program	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	

Intended Learning Outcomes (ILO)

A-Knowledge & Understanding

Students will be able to:

- A1) Acquire knowledge of a range of advanced topics in Software Engineering beyond undergraduate level and at the forefront of research.
- A2) Have a knowledge & understanding of research methodology & practice.
- A3) Understand, apply and develop leading-edge technologies.

B. Intellectual Skills

Students will be able to:

- B1) Develop and evaluate original ideas in a research context.
- B2) Perform problem-solving in academic and industrial environments.
- B3) Develop original ideas in a research context (synthesis).

C. Practical Skills

Students will be able to:

- C1) Develop applications to satisfy given requirements.
- C2) Organize & pursue a scientific or industrial research project.
- C3) Use, manipulate and develop large computational systems.
- C4) Perform independent information acquisition and management.

D. Transferable Skills and Personal Qualities

Students will be able to:

- D1) Work and communicate effectively as a team member.
- D2) Prepare and present seminars to a professional standard.
- **D3**) Understand ethical issues related to professional activities.
 - D4) Write thesis and reports to a professional standard.
 - D5) Perform independent and efficient time-management.

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