

POSTGRADUATE PROGRAMS

MS SOFTWARE ENGINEERING

The goal of our program is to take students with raw talent and intellect, nurture them in our environment through a thorough immersion in research and coursework, and produce well-educated researchers and future leaders in software engineers. Our program (duration approximately 2 years) is structured on the basis of minimum 32 credit hours. The program requirements involve minimum 26 credit hours of course work and 6 credit hours of research work. Our objective is to prepare students to pursue academia through research activities and Software industry through development activities and to impart knowledge of Software Engineering with team work skills in to our students. This enable the students to pursue career in related field using software Engineering skills such as requirement engineering, analysis and designing, source code writing, quality engineering, Engineering Management and through tools and technologies in the light of Islamic ethical values.

Our graduate students not only shall be able to design and develop indigenous software through tools and technologies but also perform research and development (R&D) in specialized areas of software engineering through oral and written communication skills.

Duration: 4 Semesters (2 Years)

Eligibility:

BS-SE/CS/IT/Sciences/Engineering (16 years), or its equivalent in the relevant discipline from HEC recognized university or degree awarding institute with at least 60% marks or CGPA of at least 2.0 (on a scale of 4.0)

Admission criteria: Interview and Admission Test

Class Timings:

05:30pm – 08:30pm (Monday – Friday)

Scholarships:

Talent & need based scholarship (upto 100% on tuition fee)

List of Core Courses:

Code	Course Name	Cr. Hrs
SE5063	Advanced Requirements Engineering	3
SE5033	Advanced Software System Architecture	3
SE5093	Software Testing and Quality Assurance	3
UR-711	Professional Ethics - I	2

Some Elective Courses

Code	Course Name	Cr. Hrs
SE5153	Agile Software Development	3
SE5413	Advanced Software Project Management	3
SE5553	Usability Engineering	3
SE5213	Cloud Base Software Engineering	3
SE5134	Enterprise Resource Planning Systems	3
SE5253	Cloud Security in Software Engineering	3
SE5263	Machine Learning in Software Engineering	3
SE5243	Developments & Operations in Software Engineering	3

Degree Completion

For award of MS degree, a student must have:

- Passed courses totaling at least 32 credit hours, including four core courses.
- Obtained a CGPA of 2.5 or more.

