

BS (4 Years) Software Engineering

(4 Years)
8 Semesters

Total Credit Hours 120

Admission Criteria

The minimum requirements for admission in a bachelor's degree program in any computing program is any of following:

- At least 50% marks in the Intermediate (HSSC) examination with Mathematics or equivalent qualification with Mathematics, certified by IBCC. OR
- At least 50% marks in Intermediate (HSSC) examination with Pre-Medical or equivalent qualification, certified by IBCC. Deficiency: "Students with pre-medical, must have to pass deficiency courses of Mathematics of 6 credit hours in first two semesters."

Scheme of Studies BS Software Engineering

Semester 1			
COURSE CODE	COURSE TITLE	COURSE TYPE	CREDIT HOURS
CS-311	Fundamental of ICT	Major	03(2+1)
	English-I	General Education	03(3+0)
	Islamic Studies	General Education	03(3+0)
	QR-I	General Education	03(3+0)
	Art and Humanities-I	General Education	03(3+0)
Semester 2			
CS-321	Programming Fundamentals	Major	03(2+1)
	English-II	General Education	03(3+0)
	Pakistan Studies	General Education	03(3+0)
	Art and Humanities-II	General Education	03(3+0)
	QR-II	General Education	03(3+0)
Semester 3			
CS-411	Object Oriented Programming	Major	03(2+1)
BSSE-411	Web Engineering	Major	03(3+0)
	English-III	General Education	03(3+0)
	Natural Sciences-I	General Education	03(3+0)
	Social Sciences-I	General Education	03(3+0)

Semester 4			
COURSE CODE	COURSE TITLE	COURSE TYPE	CREDIT HOURS
CS-421	Data Structure and Algorithms	Major	03(2+1)
CS-422	Introduction to Software Engineering	Major	03(2+1)
	SE Supporting-I	Major	03(3+0)
	Natural Sciences-II	General Education	03(2+1)
	Social Sciences-II	General Education	03(3+0)
Semester 5			
	SE Supporting-II	Major	03(3+0)
BSSE-511	Software Project Management	Major	03(2+1)
BSSE-512	Management Information Systems	Major	03(3+0)
CS-514	Operating Systems	Major	03(2+1)
	SE Elective-I	Major	03(3+0)
Semester 6			
CS-521	Database Systems	Major	03(2+1)
CS-522	Human Computer Interaction	Major	03(3+0)
BSSE-521	Software Requirement Engineering	Major	03(2+1)
CS-523	Computer Networks	Major	03(2+1)
	Elective-II	Major	03(3+0)
Semester 7			
BSSE-611	Software Design and Architecture	Major	03(2+1)
BSSE-612	Software Construction and Development	Major	03(3+0)
	Elective-III	Major	03(3+0)
	Elective-IV	Major	03(2+1)
BSSE-621	FYP-I SE	Major	03(0+3)
Semester 8			
BSSE-621	Software Quality Engineering	Major	03(3+0)
BSSE-622	Information Security	Major	03(3+0)
BSSE-623	Software Re-Engineering	Major	03(2+1)
	Elective-V	Major	03(2+1)
BSSE-621	FYP-II SE	Major	03(2+1)