ISLAMIA COLLEGE PESHAWAR
(Chartered University)

Department of Computer Science
GRAUDUATE CURRICULUM
M.Sc (2 Years Program)

A Student majoring in Master in Computer Science (M.Sc) must complete minimum of 72 Credit Hours courses. The courses list is as follows:

Semester I		
Course #	Title	Cred.Hrs.
MSC311	Software Engineering - I	3 (3-0)
MSC312	Discrete Mathematics	3 (3-0)
MSC313	Automata Theory	3 (3-0)
MSC314	Internet Programming	3 (2-3)
MSC315	Probability and Statistics	3 (3-0)
MSC316	Object Oriented Programming – I	3 (2-3)
		18

Semester II		
Course #	Title	Cred.Hrs.
MSC321	Data Communications and Networking	3 (3-0)
MSC322	Digital Logic Design	3 (3-0)
MSC323	Computer Organization and Assembly Language Programming	3 (2-3)
MSC324	Data Structures	3 (2-3)
MSC325	Operating System	3 (3-0)
MSC326	Object Oriented Programming - II	3 (2-3)
		18

Semester III		
Course #	Title	Cred.Hrs.
MSC411	System Programming	3 (2-3)
MSC412	Artificial Intelligence	3 (3-0)
MSC413	Computer Graphics	3 (2-3)
MSC414	Analysis of Algorithms	3 (3-0)
MSC415	Computer Architecture	3 (3-0)
MSC416A	Project/Thesis	3 (3-0)
		18

Semester IV		
Course #	Title	Cred.Hrs.
MSC421	Compiler Construction	3 (3-0)
MSC422	Digital Image Processing	3 (2-3)
MSC423	Network Security	3 (3-0)
MSC424	Database	3 (3-0)
MSC425	Digital Signal Processing	3 (3-0)
MSC416B	Project/Thesis	3 (3-0)
		18