

10. PHD BY COURSEWORK AND RESEARCH

10.1 PhD (Computer Science)

Year I Semester I: 4 Courses		CU
3 Core Courses		
MCS 9100	Philosophy of Computing and Information Technology	3
MCS 9101	Research and Project Proposal	3
MCS 9102	Advanced Research Methods in Computing and IT	3
1 Elective course		
MCS 9103	Managerial Problems in Information Technology	3
MCS 9104	Research Project management	3
MCS 9105	Gender and ICT	3
Year I Semester II: 4 Courses		
3 Core Courses		
MCS 9200	Philosophy of Science and Computing Research	3
MCS 9201	Presentations, Scientific Writing and Research Ethics	3
MCS 9202	Trends in Computer Science	3
1 Elective Course		
MCS 9203	Trends in Information Systems	3
MCS 9204	Trends in Information Technology	3
MCS 9205	Trends in Software Engineering	3
Year II Semester I & II		
Independent Research and Dissertation Compilation		
Year III Semester I & II		
Independent Research, Dissertation Compilation and Defense		

10.2 PhD (Information Systems)

Year I Semester I: 4 Courses		CU
3 Core courses		
MCS 9100	Philosophy of Computing and Information Technology	3
MCS 9101	Research and Project Proposal	3
MCS 9102	Advanced Research Methods in Computing and IT	3
1 Elective Course		
MCS 9103	Managerial Problems in Information Technology Research	3
MCS 9104	Research Project management	3
MCS 9105	Gender and ICT	3

Year I Semester II: 4 Courses		
3 Core Courses		
MCS 9200	Philosophy of Science and Computing Research	3
MCS 9201	Presentations, Scientific Writing and Research Ethics	3
MCS 9203	Trends in Information Systems	3
1 Elective Course		
MCS 9202	Trends in Computer Science	3
MCS 9204	Trends in Information Technology	3
MCS 9205	Trends in Software Engineering	3
Year II Semester I & II		
Independent Research and Dissertation Compilation		
Year III Semester I & II		
Independent Research, Dissertation Compilation and Defense		

10.3 PhD (Information Technology) (PITE)

Year I Semester I: 4 Courses		CU
3 Core Courses		
MCS 9100	Philosophy of Computing and Information Technology	3
MCS 9101	Research and Project Proposal	3
MCS 9102	Advanced Research Methods in Computing and IT	3
1 Elective Course		
MCS 9103	Managerial Problems in Information Technology	3
MCS 9104	Research Project Management	3
MCS 9105	Gender and ICT	3
Year I Semester II: 4 Courses		
3 Core Courses		
MCS 9200	Philosophy of Science and Computing Research	3
MCS 9201	Presentations, Scientific Writing and Research Ethics	3
MCS 9204	Trends in Information Technology	3
1 Elective Course		
MCS 9202	Trends in Computer Science	3
MCS 9203	Trends in Information Systems	3
MCS 9205	Trends in Software Engineering	3

Year II Semester I & II		
Independent Research and Dissertation Compilation		
Year III Semester I & II		
Independent Research, Dissertation Compilation and Defense		

10.4 PhD (Software Engineering)

Year I Semester I: 4 Courses		CU
3 Core courses		
MCS 9100	Philosophy of Computing and Information Technology	3
MCS 9101	Research and Project Proposal	3
MCS 9102	Advanced Research Methods in Computing and IT	3
1 elective course		
MCS 9103	Managerial Problems in Information Technology	3
MCS 9104	Research Project management	3
MCS 9105	Gender and ICT	3

Year I Semester II: 4 Courses		
3 Core Courses		
MCS 9200	Philosophy of Science and Computing Research	3
MCS 9201	Presentations, Scientific Writing and Research Ethics	3
MCS 9205	Trends in Software Engineering	3
1 Elective Course		
MCS 9202	Trends in Computer Science	3
MCS 9203	Trends in Information Systems	3
MCS 9204	Trends in Information Technology	3
Year II Semester I & II		
Independent Research and Dissertation Compilation		
Year III Semester I & II		
Independent Research, Dissertation Compilation and Defense		

11. MASTER OF SCIENCE IN COMPUTER SCIENCE (CURRENTLY RUNNING)

PLAN A:

Year I: Semester I		CU
Cores: (4 Core Courses)		
MCS 7100	Survey of Computer Languages	3
MIS 7100	Systems Analysis and Design	3
MIS 7102	Modeling and Simulation	3
MIS 7103	Information Systems Project Management	3
Electives: (1 Elective Course)		
MCS 7101	Programming Languages	3
MCS 7102	Combinatorial Optimization	3
MCS 7103	System Administration	3
MIS 7101	Multimedia and Emerging Technologies	3
MIS 7104	Quantitative Methods	3
Year I: Semester II (5 Courses)		
MCS 7200	Data Communications Networks	4
MCS 7201	Software Engineering	3
MCS 7202	Design and Analysis of Algorithms	3
MCS 7203	Database Management Systems	3

MCS 7204	Legal and Ethical Aspects of Computing	3
MIS 7200	Information Systems	3
MIS 7201	Database Systems	3
MIS 7202	System Test and Evaluation	3
MIS 7203	Electronic Commerce on the Internet	3
MIS 7204	Management Information Systems	3
MIS 7205	Telecommunications & Computer Networking	4
MIS 7206	Data Warehousing	3
YEAR II: (A Master's Dissertation)		

PLAN B:

Year I: Semester I		CU
Cores: 4 Core Courses		
MCS 7100	Survey of Computer Languages	3
MIS 7100	Systems Analysis and Design	3
MIS 7102	Modeling and Simulation	3
MIS 7103	Information Systems Project Management	3
Electives: (1 Elective Course)		
MCS 7101	Programming Languages	3
MCS 7102	Combinatorial Optimization	3