

<b>Year One Semester II: 1 Elective Course</b>		
MIT 7206	IT Architecture	3
MIT 7207	Managing People in Organizations	3
MIT 7208	Quality in Management	3
MIS 7203	Electronic Commerce on the Internet	3
MIS 7204	Management Information Systems	3
MIS 7206	Data Warehousing	3
MIT 7209	Enterprise-Wide Computing	3
MIT 7210	Interaction Design	3
<b>Year I: Recess Term:</b>		
DIT 6302	PGD Project in Internet and Service Delivery	

### **D: Internet and Web Computing**

<b>Year I: Semester I: (Core Courses)</b>		<b>CU</b>
MIT 7103	IT Project Management	3
MIT 7109	Internet Programming	3
MIT 7110	Web Design and Usability	3
MIT 7113	Server-side Development of e-Commerce Applications	3
<b>Year I Semester I (1 Elective Course)</b>		
MIT 7111	Internet Technology	3
MIT 7112	E-Service Delivery	3
MIS 7101	Multimedia and Emerging Technologies	3
MIT 7105	IT Strategic Planning	3
MIT 7106	Information Management	3

MIT 7108	Organizational Issues in Information Technology	3
MIT 7114	Information Security Policy, Privacy and Ethics	3
<b>Year I: Semester II (4 Core Courses)</b>		
MIT 7213	XML and Web Services	3
MCS 7206	Network & Distributed Systems Programming	3
MIT 7209	Enterprise-Wide Computing	3
MIT 7210	Interaction Design	3
<b>Year I Semester II (1 Elective Course)</b>		
MIT 7212	Information Security Management	3
MIT 7211	E-Governance	3
MCS 7201	Software Engineering	3
MCS 7203	Database Management Systems	3
MIS 7203	Electronic Commerce on the Internet	3
MIS 7206	Data Warehousing	3
MIT 7204	Strategic Information Systems Management	3
MIT 7205	Information Systems for Managers	3
MIT 7206	IT Architecture	3
MIT 7207	Managing People in Organizations	3
MIT 7208	Quality in Management	3
<b>Year I: Recess Term:</b>		
DIT 6303	PGD Project in Internet and Web Computing	

### **3. MASTER OF SCIENCE IN DATA COMMUNICATIONS AND SOFTWARE ENGINEERING (GDSE)**

<b>Year I: Semester I</b>		<b>CU</b>
MCS 6100	Survey of Computer Languages	3
MCS 6101	Programming Languages	3
MCS 6104	Firewalls and Virtual Private Networks	3
MCS 6105	Multimedia Systems	3
MCS 6106	Networked Systems	3
MCS 6107	Network and System Administration	3
MCS 6108	Networking Technologies and Principles	3
MCS 6109	Analytical System Administration and Project Methodology	3

MCS 6110	Exchange Design and Implementation	4
MCS 6111	Routing and Remote Access	4
MCS 6112	Object Oriented Software Engineering	3
MCS 6113	Software Project Management	3
MCS 6114	Software Architecture	3
MCS 6115	Requirements Engineering	3
MIT 6104	Securing Operating Systems and Web Interfaces	3
MIT 6107	Corporate Network Management	3
MIT 6109	Internet Programming	3

<b>Year I: Semester II</b>		
MCS 6200	Data Communications Networks	4
MCS 6201	Software Engineering	3
MCS 6202	Design and Analysis of Algorithms	3
MCS 6203	Database Management Systems	3
MCS 6205	Network Intrusion and Firewall Security	3
MCS 6206	Network & Distributed Systems Programming	3
MCS 6207	Securing a Computer Network	3
MCS 6208	Network Performance and Evaluation	3
MCS 6209	Design, Installation, and Maintenance of Network Systems	4
MCS 6210	Multilayer Switching & Inter-network Troubleshooting	4
MCS 6211	Mobile and Adaptive Systems	3
MCS 6212	Software Quality Assurance and Testing	3
MCS 6213	Systems Engineering	3
MCS 6214	Software Design Process and Metrics	3
MIS 6202	System Test and Evaluation	3
MIT 6200	Security Assurance Principles	3
MIT 6204	Strategic Information Systems Management	3
MIT 6209	Enterprise-Wide Computing	3
MIT 6210	Interaction Design	3
<b>Year II: Semester I</b>		
MCS 6301	Client Server Computing	3
MCS 6303	Operating Systems Theory and Design	3
MCS 6305	Human Computer Interaction	3
MCS 6307	Communication Systems	3
MCS 6308	Network Infrastructure and Security Laboratory	3
MCS 6309	Network and Applications Programming	3
MCS 6310	Distributed Systems and Security	3
MCS 6311	Distributed Computing Algorithms	3
MCS 6312	Social Aspects of Systems and Cyber Ethics	3
MIS 6300	Object-Oriented Design & Applications	3
MIS 6301	Computer Security	3
MIS 6306	Interactive Computer Graphics	3
MIT 6300	Secure Computer Systems	3

MIT 6301	Network Security	3
MIT 6302	Database Security	3
MIT 6306	Web Database Applications	3
MIT 6309	Web-based Information Systems and Web Mining Technology	3
<b>Year II: Semester II</b>		
MCS 6401	Master's Project in Data Communications Engineering	
MCS 6402	Master's Project in Network and System Administration	
MCS 6403	Master's Project in Software Engineering	

### **A: Data Communications Engineering**

<b>Year I: Semester I: (4 Core Courses)</b>		<b>CU</b>
MCS 6104	Firewalls and Virtual Private Networks	3
MIT 6104	Securing Operating Systems and Web Interfaces	3
MCS 6105	Multimedia Systems	3
MCS 6106	Networked Systems	3
<b>Year I Semester I: (1 Elective Course)</b>		
MCS 6107	Network and System Administration	3
MCS 6108	Networking Technologies and Principles	3
MCS 6109	Analytical System Administration and Project Methodology	3
MCS 6110	Exchange Design and Implementation	4
MCS 6111	Routing and Remote Access	4
<b>Year I: Semester II (4 Core Courses)</b>		
MCS 6205	Network Intrusion and Firewall Security	3
MCS 6200	Data Communications Networks	4
MCS 6206	Network & Distributed Systems Programming	3
MCS 6207	Securing a Computer Network	3
<b>Year I: Semester II (1 Elective Course)</b>		
MCS 6208	Network Performance Evaluation and Management	3
MCS 6209	Design, Installation, and Maintenance of Network Systems	
MCS 6210	Multilayer Switching & Inter-network Troubleshooting	4
MCS 6211	Mobile and Adaptive Systems	3
MIT 6204	Strategic Information Systems Management	3

<b>Year II: Semester I (4 Core Courses)</b>		
MCS 6307	Communication Systems	3
MCS 6308	Network Infrastructure and Security Laboratory	3
MCS 6309	Network and Applications Programming	3
MCS 6310	Distributed Systems and Security	3
<b>Year II: Semester I (1 Elective Course)</b>		
MCS 6311	Distributed Computing Algorithms	3
MCS 6303	Operating Systems Theory and Design	3
MIS 6301	Computer Security	3
MIT 6300	Secure Computer Systems	3
MIT 6301	Network Security	3
MIT 6302	Database Security	3
MCS 6312	Social Aspects of Systems and Cyber Ethics	3
<b>Year II: Semester II</b>		
MCS 6401	Master's Project in Data Communications Engineering	

### **B: Network and System Administration**

<b>Year I: Semester I (4 Core Courses)</b>		<b>CU</b>
MCS 6104	Firewalls and Virtual Private Networks	3
MCS 6107	Network and System Administration	3
MCS 6108	Networking Technologies and Principles	3
MCS 6109	Analytical System Administration and Project Methodology	3
<b>Year I: Semester I: (1 Elective Course)</b>		
MCS 6106	Networked Systems	3
MCS 6110	Exchange Design and Implementation	4
MCS 6111	Routing and Remote Access	4
MIT 6104	Securing Operating Systems and Web Interfaces	3
MIT 6107	Corporate Network Management	3
<b>Year I: Semester II (4 Core Courses)</b>		
MCS 6205	Network Intrusion and Firewall Security	3
MCS 6207	Securing a Computer Network	3
MCS 6208	Network Performance Evaluation and Management	3
MCS 6209	Design, Installation, and Maintenance of Network Systems	4

<b>Year I: Semester II (1 Elective Course)</b>		
MCS 6210	Multilayer Switching & Inter-network Troubleshooting	4
MCS 6206	Network & Distributed Systems Programming	3
MCS 6200	Data Communications Networks	4
MIT 6200	Security Assurance Principles	3
MIT 6204	Strategic Information Systems Management	3
<b>Year II: Semester I: (4 Core Courses)</b>		
MCS 6308	Network Infrastructure and Security Laboratory	3
MCS 6309	Network and Applications Programming	3
MCS 6310	Distributed Systems and Security	3
MIT 6301	Network Security	3
<b>Year II: Semester I: (1 Elective Course)</b>		
MCS 6307	Communication Systems	3
MCS 6303	Operating Systems Theory and Design	3
MIS 6301	Computer Security	3
MIT 6300	Secure Computer Systems	3
MIT 6302	Database Security	3
MCS 6312	Social Aspects of Systems and Cyber Ethics	3
<b>Year II: Semester II</b>		
MCS 6402	Master's Project in Network and System Administration	

### **C: Software Engineering**

<b>Year I: Semester I (4 Core Courses)</b>		<b>CU</b>
MCS 6112	Object Oriented Software Engineering	3
MCS 6113	Software Project Management	3
MCS 6114	Software Architecture	3
MCS 6115	Requirements Engineering	3
<b>Year I: Semester I: (1 Elective Course)</b>		
MCS 6105	Multimedia Systems	3
MCS 6106	Networked Systems	3
MIT 6104	Securing Operating Systems and Web Interfaces	3
MCS 6100	Survey of Computer Languages	3
MCS 6101	Programming Languages	3
MIT 6109	Internet Programming	3
MIS 6109	Object Oriented Database Systems	3
<b>Year I: Semester II (4 Core Courses)</b>		
MCS 6212	Software Quality Assurance and Testing	3
MCS 6213	Systems Engineering	3

MCS 6214	Software Design Process and Metrics	3
MCS 6202	Design and Analysis of Algorithms	3
<b>Year I: Semester II: (1 Elective Course)</b>		
MCS 6200	Data Communications Networks	4
MCS 6201	Software Engineering	3
MCS 6206	Network & Distributed Systems Programming	3
MIS 6202	System Test and Evaluation	3
MIT 6209	Enterprise-Wide Computing	3
MIT 6210	Interaction Design	3
MIT 6204	Strategic Information Systems Management	3
MCS 6203	Database Management Systems	3
<b>Year II: Semester I: (4 Core Courses)</b>		
MIT 6309	Web-based Information Systems and Web Mining Technology	
MIT 6306	Web Database Applications	3

MIS 6300	Object-Oriented Design & Applications	3
MCS 6301	Client Server Computing	3
<b>Year II: Semester I (1 Elective Course)</b>		
MCS 6303	Operating Systems Theory and Design	
MCS 6305	Human Computer Interaction	
MIS 6306	Interactive Computer Graphics	
MCS 6309	Network and Applications Programming	
MCS 6311	Distributed Computing Algorithms	
MCS 6312	Social Aspects of Systems and Cyber Ethics	
<b>Year II: Semester II</b>		
MCS 6403	Master's Project in Software Engineering	

#### 4. POSTGRADUATE DIPLOMA IN DATA COMMUNICATIONS AND SOFTWARE ENGINEERING (PGDCSE)

<b>Year I: Semester I</b>		<b>CU</b>
MCS 7100	Survey of Computer Languages	3
MCS 7101	Programming Languages	3
MCS 7104	Firewalls and Virtual Private Networks	3
MCS 7105	Multimedia Systems	3
MCS 7106	Networked Systems	3
MCS 7107	Network and System Administration	3
MCS 7108	Networking Technologies and Principles	3
MCS 7109	Analytical System Administration and Project Methodology	3
MCS 7110	Exchange Design and Implementation	4
MCS 7111	Routing and Remote Access	4
MCS 7112	Object Oriented Software Engineering	3
MCS 7113	Software Project Management	3
MCS 7114	Software Architecture	3
MCS 7115	Requirements Engineering	3
MIT 7104	Securing Operating Systems and Web Interfaces	3
MIT 7107	Corporate Network Management	3
MIT 7109	Internet Programming	3

MIS 7109	Object Oriented Database Systems	3
<b>Year I: Semester II</b>		
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 7205	Network Intrusion and Firewall Security	3
MCS 7206	Network & Distributed Systems Programming	3
MCS 7207	Securing a Computer Network	3
MCS 7208	Network Performance and Evaluation	3
MCS 7209	Design, Installation, and Maintenance of Network Systems	4
MCS 7210	Multilayer Switching & Inter-network Troubleshooting	4
MCS 7211	Mobile and Adaptive Systems	3
MCS 7212	Software Quality Assurance and Testing	3
MCS 7213	Systems Engineering	3
MCS 7214	Software Design Process and Metrics	3
MIS 7202	System Test and Evaluation	3