



AMITY UNIVERSITY
— R A J A S T H A N —

**AMITY INSTITUTE OF INFORMATION TECHNOLOGY
(AIIT)**

M.Sc. (Network Technology and Management)

Programme Code: MNT

12008

Duration – 2 Years Full Time

(Programme Structure)

Choice Based Credit System (CBCS)

2020

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Program Learning Outcomes – PLO

- Demonstrate and apply knowledge of current trends in network management, particularly in the areas of emerging technology, mobile and wireless Communication, Ad Hoc Network, network security, network architecture, routing and network configuration;
- Apply skills in the analysis and selection of routing methods and network addressing schemes, secure network design, server administration and communication technology.
- Demonstrate essential networking skills including installing, configuring, securing and troubleshooting the devices, protocols and services within a network infrastructure.
- Utilize a variety of tools, techniques and programming languages and apply knowledge of computing, mathematics and science to real world problems;

Credits Summary

M.Sc. (Network Technology and Management) (02 Years/ 04 Semesters)						
Semester	Core Course (CC)	Domain Electives (DE)	Value Added Course (VAC)	Open Electives (OE)	Non-Teaching Credit Courses (NTCC)	Total
I	21	3	4	-	-	28
II	18	3	4	3	-	28
III	14	3	4	3	-	24
IV	06	-	-	-	21	27
Total	0	0	12	6	21	0

CC = Core Course

DE = Domain Elective

OE = Open Elective

VA = Value Added Course

NTCC = **Non - Teaching Credit Courses (NTCC)**



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Program Name: M.Sc. – (Network Technology and Management)

FIRST SEMESTER

CODE	COURSE	CATEGORY	L	T	P/FW	CREDITS
MNT101	Data Communication	CC	2	1	-	3
MNT102	Core Hardware	CC	2	1	-	3
MNT103	Operating Systems	CC	2	1	-	3
MNT104	System Administration – I	CC	2	1	-	3
MNT105	Network Fundamentals	CC	2	1	-	3
MNT106	Computer Programming in C Language	CC	2	1	-	3
MNT124	System Administration – I Lab	CC	-	-	2	1
MNT125	Network Fundamentals Lab	CC	-	-	2	1
MNT126	Computer Programming in C Language Lab	CC	-	-	2	1
DE Electives: Student has to select 1 course from the list of following DE electives						
MNT131	Network devices & Hardware	DE	2	1	-	3
MNT132	Telecommunication Networks	DE				
MNT133	Mobile Communication	DE				
VALUE ADDITION COURSES						
BCS111	Communication Skills – I	VA	1	-	-	1
BSS112	Behavioral Science - I	VA	1	-	-	1
	Foreign Language - I	VA	2	-	-	2
FLT111	French					
FLG111	German					
FLS111	Spanish					
FLC111	Chinese					
	TOTAL					28



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SECOND SEMESTER

CODE	COURSE	CATEGORY	L	T	P/FW	CREDITS
MNT201	Wireless LAN	CC	2	1	-	3
MNT202	Network Planning & Design	CC	2	1	-	3
MNT203	System Administration – II	CC	2	1	-	3
MNT204	Routing Protocols and Concepts	CC	2	1	-	3
MNT205	LAN Switching and Wireless	CC	2	1	-	3
MNT223	System Administration – II Lab	CC	-	-	2	1
MNT224	Routing Protocols and Concepts Lab	CC	-	-	2	1
MNT225	LAN Switching and Wireless Lab	CC	-	-	2	1
DE Electives: Student has to select 1 course from the list of following DE electives						
MNT231	Cloud Computing	DE	2	1	-	3
MNT232	Wireless Communication	DE				
MNT233	Emerging Technologies – I (VoIP & IPv6)	DE				
MNT234	Network Management	DE				
MNT235	Ad-Hoc Networks	DE				
MNT236	High Performance Networks	DE				
OPEN ELECTIVES						
	Open Electives	OE	2	1	-	3
VALUE ADDITION COURSES						
BCS211	Communication Skills – II	VA	1	-	-	1
BSS212	Behavioral Science – II	VA	1	-	-	1
	Foreign Language - II	VA	2	-	-	2
FLT211	French					
FLG211	German					
FLS211	Spanish					
FLC211	Chinese					
	TOTAL					28

SUMMER PROJECT



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THIRD SEMESTER

CODE	COURSE	CATEGORY	L	T	P/FW	CREDITS
MNT301	System Administration - III (including Linux/Unix)	CC	2	1	-	3
MNT302	Accessing the WAN	CC	2	1	-	3
MNT321	System Administration - III (including Linux/Unix) Lab	CC	-	-	2	1
MNT322	Accessing the WAN Lab	CC	-	-	2	1
MNT350	Summer Project (Evaluation)	CC	-	-	-	6
DE Electives: Student has to select 1 course from the list of following DE electives						
MNT331	Information Security System	DE	2	1	-	3
MNT332	Optical Technologies	DE				
MNT333	Satellite Communication	DE				
MNT334	IT Enabled Services	DE				
MNT335	Network Simulation & Modeling	DE				
OPEN ELECTIVES						
	Open Electives	OE	2	1	-	3
VALUE ADDITION COURSES						
BCS311	Communication Skills - III	VA	1	-	-	1
BSS312	Behavioral Science - III	VA	1	-	-	1
	Foreign Language - III	VA	2	-	-	2
FLT311	French					
FLG311	German					
FLS311	Spanish					
FLC311	Chinese					
	TOTAL					24



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FOURTH SEMESTER

CODE	COURSE	CATEGOR Y	L	T	P/FW	CREDITS
MNT401	Network Security	CC	2	1	-	3
MNT402	Emerging Technologies - II (Data Storage Solutions)	CC	2	1	-	3
MNT460	Internship /Industrial Project/ Dissertation		-	-	-	21
	TOTAL					27

Total Credits (28+28+24+27) = 107