MASTER OF TECHNOLOGY

(COMPUTER SCIENCE) M.TECH. (CS) (W. E. F. 2020-21)

Revised course codes (approved in 15th BOS)

Based on

AICTE Model Curriculum

for Postgraduate Degree Courses



DEPARTMENT OF COMPUTER SCIENCE & I.T. MAULANA AZAD NATIONAL URDU UNIVERSITY 2020

Program Summary

Course Type	Abbreviation	Credits
Program Core	PC	16
Program Elective	PE	20
Research Methodology & IPR	RMIPR	2
Generic Elective	GE	8
Laboratory	LAB	8
Mini Project with Seminar	MPS	2
Dissertation	DISS	24
Total Credits:		80

Semester - I

		Course		Marks			
Course Code	Course Title	Course Type	Internal Assessment	Semester Exam	Total	L-T-P	Credits
MTCS111PCT	Advanced Algorithm	PC	30	70	100	4-0-0	4
MTCS112PCT	Advanced Computer Architecture	PC	30	70	100	4-0-0	4
MTCS111RMT	Research Methodology & IPR	RMIPR	15	35	50	2-0-0	2
MTCS11XPET	Program Elective-1	PE	30	70	100	4-0-0	4
MTCS12XPET	Program Elective-2	PE	30	70	100	4-0-0	4
PGCS13XGET	Generic Elective-1	AC	30	70	100	4-0-0	4
MTCS160PCP	Lab- I Advanced Algorithm Lab	LAB	50	50	100	0-0-4	2
MTCS16XPEP	Lab – II (Based on Elective-I)	LAB	50	50	100	0-0-4	2
	Tot	al			800	22-0-8	26

Semester - II

		Course	N	/larks			
Course Code	Course Title	Type	Internal Assessment	Semester Exam	Total	L-T-P	Credits
MTCS211PCT	Machine Learning	PC	30	70	100	4-0-0	4
MTCS212PCT	Internet of Things	PC	30	70	100	4-0-0	4
MTCS23XPET	Program Elective-3	PE	30	70	100	4-0-0	4
MTCS24XPET	Program Elective -4	PE	30	70	100	4-0-0	4
PGCS23XGET	Generic Elective-2	AC	30	70	100	4-0-0	4
MTCS260PCP	Lab – III-ML Lab	LAB	50	50	100	0-0-4	2
MTCS261PCP	Lab – IV -loT Lab	LAB	50	50	100	0-0-4	2
MTCS270PCP	Mini Project with Seminar*	MPS	50	50	100	0-0-4	2
	Tot	al			800	20-0-12	26

^{*}Students are encouraged to go to Industrial Training/Internship for at least 2-3 months during semester break. They need to make a prototype model in the allotted areas on the recommendations of the supervisor.

Semester - III

		Course	N	/larks			
Course Code	Course Title	Type	Internal Assessment	Semester Exam	Total	L-T-P	Credits
MTCS31XPET	Program Elective -5	PE	30	70	100	4-0-0	4
MTCS370PCP	Dissertation-I	DISS	210	490	700	0-0-20	10
	То	tal			800	4-0-20	14

Semester – IV

		Course	N	<i>l</i> larks			
Course Code	Course Title	Туре	Internal Assessment	Semester Exam	Total	L-T-P	Credits
MTCS470PCP	Dissertation-II	DISS	240	560	800	0-0-28	14
	Tota	al			800	0-0-28	80

L-T-P stands for number of contact hours as Lecture-Tutorial-Practical in a week.

PROGRAM ELECTIVES (PE) & GENERIC ELECTIVES (GE)

	Sei	mest	ter – 1	st	
Course Code	Course Title		Course	Code	Course Title
	m Elective – I with Lab				gram Elective – II
MTCS111PET	Advanced Network Securi	ty	MTCS12	1PET	Intelligent Systems
MTCS112PET	Distributed Database		MTCS12		Augmented & Virtual Reality
MTCS113PET	Data Science		MTCS12	3PET	Soft Computing
MTCS114PET	Semantics Web		MTCS12	4PET	Digital Forensics
Program Elec					
MTCS160PEP		ty Lab			
MTCS161PEP	1				
MTCS162PEP	Data Science Lab				
MTCS163PEP	Semantics Web Lab				
G	Seneric Elective-1				
PGCS131GET	English for Research Paper V	Vriting			
PGCS132GET	Disaster Management				
PGCS133GET	Sanskrit for Technical Knowle	dge			
PGCS134GET	Value Education				
	Ser	nest	er – 2'	nd	
Progr	am Elective – III			Progran	n Elective – IV
MTCS231PET	3,	MTCS	S241PET		ced Operating System
MTCS232PET	Compilers for High Performance Computing	MTCS	S242PET	Digital	Image Processing
MTCS233PET	Distributed Computing	MTCS	S243PET	Advand Networ	ced Wireless & Mobile ks
MTCS234PET	Natural Language Processing	MTCS	S244PET	Mobile	Applications & Services
MTCS235PET	<u> </u>	MTCS	S245PET	Graphi	cs Processing Unit Computing
	eric Elective-2				
PGCS231GET	Constitution of India				
PGCS232GET	Pedagogy Studies	1			
PGCS233GET	Stress Management by Yoga				
PGCS234GET	Personality Development through Life Enlightenment Skills				

	Program Elective – V
TCS311PET	Deep Learning
MTCS312PET	Secure Software Design & Enterprise Computing
ITCS313PET	Wireless Access Technologies
TCS314PET	Data Preparation & Analysis
/ITCS315PET	Optimization Techniques