CURRICULUM FOR BS-MT-Nuclear Medicine & Theranostics

YEAR 1: SEMESTER I

Subject	Course Codes	Semester-I	Credit Hours
Natural Sciences	CHEM 201/ PHYS 201	CHEMISTRY/ PHYSICS	03 (2-1)
Application Of Information & Comm. Technologies	CSAI 201	COMPUTER SCIENCE AND INTEGRATED ARTIFICIAL INTELLIGENCE IN MEDICAL TECHNOLOGY	03 (2-1)
Functional English	ENG-F 211	ENGLISH FOUNDATION	03
Civilization Courses	ISL 201/ ETHIC 201	ISLAMIAT/ETHICS	02
Ideology and Constitution of Pakistan	ICP 201	IDEOLOGY AND CONSTITUTION OF PAKISTAN	02
Interdisciplinary Sciences	ANAT 201	ANATOMY	03
	PIO 201	PHYSIOLOGY	03
Total General Education Courses	**13**		
Interdisciplinary Sciences Course	**06**		
Total Credit Hours in Semester	**19**		

YEAR 1: SEMESTER II

Subject	Course Codes	Semester-II	Credit Hours
Pakistan Studies	PAK-STD 202	PAKISTAN STUDIES	02
Social Sciences	PSY 102	PSYCHOLOGY	02
Arts and Humanities	HIS 102/PHIL 102	HISTORY/PHILOSOPHY	02
Quantitative Reasoning	MATH 212	MATHEMATICS	03
Understanding of Holy Quran – I	FEHM 212/ SOC 212	FEHM UL QURAN – I/ SOCIOLOGY – I	01
Interdisciplinary Sciences	FAEC 202	FIRST AID AND EMERGENCY CARE	02
	BCHEM 202	BIOCHEMISTRY	03
	PHARM 202	PHARMACOLOGY	03
Total General Education Courses	**10**		
Interdisciplinary Sciences Course	**08**		
Total Credit Hours in Semester	**18**		

YEAR- 2: SEMESTER III

Subject	Course Codes	Semester-III	Credit Hours
Quantitative Reasoning	BSTAT 323	BIOSTATISTICS	03
Entrepreneurship	ENTP 203	ENTREPRENEURIAL STRATEGY	02
Expository Writing	ENG-W 323	EXPOSITORY WRITING	03
Understanding of Holy Quran – II	FEHM 323/ SOC 323	FEHM UL QURAN – II/ SOCIOLOGY – II	01
Interdisciplinary Sciences	MICRO 203	MICROBIOLOGY AND INFECTION CONTROL	03
Major Course	NMT-IFNM 203	INTRODUCTION AND FLOW IN NUCLEAR MEDICINE	02
	NMT-NPHY 203	NUCLEAR PHYSICS	02
Total General Education Courses	**09**		
Interdisciplinary Sciences Course	**03**		
Major Course	**04**		
Total Credit Hours in Semester	**16**		

YEAR- 2: SEMESTER IV

Subject	Course Codes	Semester-IV	Credit Hours
Civics and community engagement	CIVCM 204	CIVICS AND COMMUNITY ENGAGEMENT	02
Major Course	NMT-RADB 204	RADIOBIOLOGY	03
	NMT-INST 214	INSTRUMENTATION-I (SPECT) + PRACTICUM	03 (2+1)
	NMT- RMP 304	RESEARCH METHODS AND PRINCIPLES	03
	NMT-RPD 204	RADIATION PROTECTION AND DOSIMTERY + PRACTICUM	04 (3+1)
Total General Education Courses	**02**		
Major Course	**13**		
Total Credit Hours in Semester	**15**		

YEAR- 3: SEMESTER V

Subject	Course Codes	Semester-V	Credit Hours
Major Course	NMT-RPH 315	RADIOPHARMACEUTICALS-I (SPECT+PET/CT) + PRACTICUM	04 (3+1)
	NMT-NMS 315	NUCLEAR MEDICINE SPECT-I + PRACTICUM	04 (3+1)
	NMT-NCAR 315	NUCLEAR CARDIOLOGY-I + PRACTICUM	04 (3+1)
	NMT-INST 224	INTRUMENTATION-II (PET/CT) + PRACTICUM	03 (2+1)
	NMT-DEXA 305	DEXA + PRACTICUM	03 (2+1)
Major Course	**18**		
Total Credit Hours in Semester	**18**		

YEAR- 3: SEMESTER VI

Subject	Course Codes	Semester-VI	Credit Hours
Major Course	NMT-RPH 326	RADIOPHARMACEUTICALS-II (Quality Control) + PRACTICUM	04 (3+1)
	NMT-INST 336	INTRUMENTATION –III (RADIOPHARMACY) + PRACTICUM	03 (2+1)
	NMT-NMS 326	NUCLEAR MEDICINE SPECT-II + PRACTICUM	04 (3+1)
	NMT-NCAR 326	NUCLEAR CARDIOLOGY-II + PRACTICUM	04 (3+1)
Major Course	**15**		
Total Credit Hours in Semester	**15**		

YEAR-4: SEMESTER VII

Subject	Course Codes	Semester-VII	Credit Hours
Major Course	NMT-THER 317	THERANOSCTICS-I + PRACTICUM	04 (3+1)
	NMT-HMIS 307	HEALTH MANAGEMENT INFORMATION SYSTEM (HMIS) IN NUCLEAR MEDICINE	02
	NMT-NMPC 307	NUCLEAR MEDICINE PATIENT CARE	02
	NMT-PTCT 317	PET/CT-I + PRACTICUM	04 (3+1)
Field experience/ Internship	NMT-INTE 507	INTERNSHIP	03
Major Course	**12**		
Field experience/ Internship	**03**		
Total Credit Hours in Semester	**15**		

YEAR-4: SEMESTER VIII

Subject	Course Codes	Semester-VIII	Credit Hours
Major Course	NMT-THER 428	THERANOSCTICS-II + PRACTICUM	04 (3+1)
	NMT-RWM 408	RADIOACTIVE WASTE MANAGEMENT	04
	NMT-PTCT 428	PET/CT-II + PRACTICUM	04 (3+1)
Capstone Project	NMT-CP 508	CAPSTONE PROJECT	03
Major Course	**12**		
Capstone Project	**03**		
Total Credit Hours in Semester	**15**		