

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)

Subject	Course Codes	Semester-VII	Credit Hours
	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		