

BS MEDICAL TECHNOLOGY (BS-MT)

COURSE OUTLINE CARDIAC PERFUSION SCIENCES (CPS)

SEMESTER – I		
COURSE CODE	SUBJECT	CREDIT HOUR
MT-301	Anatomy – I	3 (2+1)
MT-303	Physiology – I	3 (2+1)
MT-305	Medical Microbiology – I	3 (2+1)
ISL-300.1	Islamic Studies / Ethics (NM)	2
FEN-300.1	Functional English	3
TOTAL CREDIT HOURS		14

SEMESTER – II		
COURSE CODE	SUBJECT	CREDIT HOUR
MT-304	Physiology–II	3 (2+1)
MT-302	Anatomy–II	3 (2+1)
MT-308	Biochemistry	3 (2+1)
MT-306	Medical Microbiology–II	3 (2+1)
PST-300.2	Pakistan Studies	2
MT-401	Basics of Pharmacology	3
TOTAL CREDIT HOURS		17

SEMESTER – III		
COURSE CODE	SUBJECT	CREDIT HOUR
MT-503	Diet and Clinical Nutrition	3
MTCP-405	Fundamentals of Cardiac Care in perfusion	3 (2+1)
QR-400.1	Quantitative Reasoning – I	3 (3+0)
URU-300.1	Urdu	2
300.1 (Taweed)	Quran Translation, Tajweed & Tafseer	non
300.1 (Seerat)	The Seerat of the Holy Prophet Muhammad (P.B.U.H)	non
MTCP-407	Clinical Practical	3 (0+3)
TOTAL CREDIT HOURS		14

SEMESTER – IV		
COURSE CODE	SUBJECT	CREDIT HOUR
MTCP-404	Basic Perfusion Technology	3 (2+1)
MTCP-406	Respiratory Care	3 (2+1)
MTCP-408	Anesthesia Procedures	3 (2+1)
EPW-300.2	Expository Writing	3
QR-400.2	Quantitative Reasoning – II	3 (3+0)
MTCP-410	Clinical Practical	3 (0+3)
TOTAL CREDIT HOURS		18

SEMESTER – V		
COURSE CODE	SUBJECT	CREDIT HOUR
MT-403	Pathological Physiology	3
MT-502	Ethics and Administration	3
MT-505	Principles of Critical Care	3 (2+1)
MTCP-507	Invasive and Non-Invasive Procedures/Techniques and Equipment	3 (2+1)
CCE-300.1	Civics & Community Engagement	2
MTCP-509	Clinical Practical	6 (0+6)
TOTAL CREDIT HOURS		20

SEMESTER – VI		
COURSE CODE	SUBJECT	CREDIT HOUR
MT-402	Bio-Safety in Medical Technology	3 (3+0)
MT-504	Critical Care Unit Management	3 (2+1)
MT-506	Cardiovascular Emergencies	3 (2+1)
ICT-400.2	Applications of Information & Communication Technologies (ICT)	3 (2+1)
ICP-300.2	Ideology & Constitution of Pakistan	2
MTCP-508	Clinical Practical	6 (0+6)
TOTAL CREDIT HOURS		20

SEMESTER – VII		
COURSE CODE	SUBJECT	CREDIT HOUR
MTCP-603	Cardiopulmonary Diagnostics	3 (2+1)
MTCP-605	Operation Theater Organization and Management	3 (2+1)
ISS-300.2	Introduction to Social Sciences	2
ENTR-300.2	Entrepreneurship	2
	Internship	3 (0+3)
MTCP-607	Clinical Practical	6 (0+6)
TOTAL CREDIT HOURS		19

SEMESTER – VIII		
COURSE CODE	SUBJECT	CREDIT HOUR
MTCP-602	Advanced Perfusion Technology	3 (2+1)
MTCP-604	Medicine in Perfusion Technology	3 (2+1)
	Capstone Project	3 (0+3)
NCS-300.1	*Natural Sciences	3 (2+1)
MTCP-608	Clinical Practical	6 (0+6)
TOTAL CREDIT HOURS		18