BACHELOR OF PHYSIOTHERAPY (BPT) DEGREE COURSE

THE COURSE STRUCTURE

First Year

Course code	Subject	Hours	Credits
BPT 101	Anatomy	210	7
BPT 102	Anatomy -Lab Hours	90	2
BPT 103	Physiology	150	5
BPT 104	Physiology Lab Hours	60	1
BPT 105	Biochemistry	60	2
BPT 106	Psychology (General and Clinical Psychology)	60	2
BPT 107	Introduction to Physiotherapy	150	5
BPT 108	Introduction to Physiotherapy Lab Hours	90	3
BPT 109*	Introduction to Basic Nursing	30	1
BPT 110*	English	30	1
BPT 111*	Introduction to National Healthcare Delivery System in India	30	1

*Not included for university examination
Total=960Hrs (Th720, Lab Hrs 240)

Second Year

Course code	Subject	Hours	Credits
BPT 201	Biomechanics and Kinesiology	120	4
BPT 202	Biomechanics and Kinesiology Lab Hours	60	2
BPT 203	Pharmacology	90	3
BPT 204	Sociology	60	2
BPT 205	Pathology and Microbiology	90	3
BPT 206	Electrotherapy and Actinotherapy	150	5
BPT 207	Electrotherapy and Actinotherapy - Lab Hours	90	3
BPT 208	Exercise and Manual Therapy	150	5
BPT 209	Exercise and Manual Therapy - Lab Hours	90	3
BPT 210*	Introduction to quality and patient safety	30	1

*Not included for university examination
Total = 930Hrs (Th 690, Lab Hrs 240)

Third Year

Course code	Subject	Hours	Credits
BPT 301	Orthopedics and Sports Medicine	120	4
BPT 302	Orthopedics and Sports Medicine Lab Hours	60	1
BPT 303	Neurology, Neurosurgery and Pediatrics	120	4
BPT 304	Community Medicine and Rehabilitation	60	2
BPT 305	Computer Application	60	2
BPT 306	General Medicine, First Aid and Emergency	120	4
BPT 307	General Surgery	90	3
BPT 308	PT in General Medicine and General Surgery	120	4
BPT 309	PT in General Medicine and General Surgery Lab Hours	60	1
BPT 310	Bioengineering	60	2
BPT 311*	Diagnostic Imaging for Physiotherapy	30	1
	Clinical Training	400	

*Not included for university examination
Total = 1300 Hrs (Th Hrs 780, Lab Hrs 120, clinical training = 400)

Fourth Year

Course code	Subject	Hours	Credits
BPT 401	Research Methodology & Biostatistics	60	2
BPT 402	Organization & Administration: Law and Ethics	60	2
BPT 403	Orthopedics and Sports Physiotherapy	90	3
BPT 404	Orthopedics and Sports Physiotherapy Lab Hours	90	2
BPT 405	Neurophysiotherapy	90	3
BPT 406	Neurophysiotherapy Lab Hours	90	2
BPT 407	Cardiopulmonary Physiotherapy	90	3
BPT 408	Cardiopulmonary Physiotherapy Lab Hours	90	2
BPT 409	Research Project	60	2
BPT 410*	Health Promotion and Fitness	30	1
	Clinical Training	425	

Total = 1150 Hrs (Th 480, Lab Hrs 270, clinical training= 425)

Chapter -5 Internship: All candidates undergo a full time (950hr) supervised PT clinical practice for not less than 6 months in institutions/ hospitals/ centers recognized by Noida International University.

B.SC.MEDICAL RADIOLOGY IMAGING AND TECHNOLOGY (BRIT)

First Year

Sl. No	Course code	Main Subjects	Theory Hours	Practical Hours (Tutorial & Demonstration)	Total Hours (Theory & Practical)	Credits	IA* Marks	UE* Marks	Exam Duration (IA/UE)
1	BMRIT 101	Human Anatomy	100	50	150	4	25	75	3 hours
2	BMRIT 102	Human Physiology	100	50	150	4	25	75	3 hours
3	BMRIT 103	Fundamental of Medical Imaging & Radiotherapy	90	60	150	4	25	75	3 hours
4	BMRIT 104	Basics Radiation Physics	90	60	150	4	25	75	3 hours
5	BMRIT 105	Practical(Basic Radiation Physics)	0	150	150	4	25	75	3 hours
6	BMRIT 106	English	30	0	30	1	25	75	3 hours
7	BMRIT 107	Computer	30	0	30	1	25	75	3 hours
		*Clinical posting		200	200				

Total Hours-1010
***Clinical Posting-Not Included in University Examination**
***IA-Internal Assessment**
***UE- University Examination**

Second Year

Sl. No	Course code	Main Subjects	Theory Hours	Practical Hours (Tutorial & Demonstration)	Total Hours	Credits	IA* Marks	UE* Marks	Exam Duration (IA/UE)
1	BMRIT 201	Clinical Radiography	100	60	160	4	25	75	3 hours
2	BMRIT 202	Patient care & Radiation Protection	100	50	150	4	25	75	3 hours
3	BMRIT 203	Equipment of Radiotherapy	100	50	150	4	25	75	3 hours
4	BMRIT 204	Special Radiographic Technique & Procedures	100	60	160	4	25	75	3 hours
5	BMRIT 205	x-ray film/image processing techniques including dark room	100	50	150	4	25	75	3 hours
6	BMRIT 206	Practical(Clinical Radiography)	0	0	100	4	25	75	3 hours

Total Hours-1070
***Clinical posting-Not Included in University Examination**

Third Year Subjects

Sl. No	Course code	Main Subjects	Theory Hours	Practical Hours(Tutorial & Demonstration)	Total Hours	Credits	IA* Marks	UE* Marks	Exam Duration (IA/UE)
1	BMRIT 301	Radiotherapy Planning and Quality Control	100	50	150	4	25	75	3 hours
2	BMRIT 302	Modern imaging techniques and recent trends in imaging	100	80	180	4	25	75	3 hours
3	BMRIT 303	Interventional Radiology , radiobiology and radiation safety in radio diagnosis imaging	100	80	180	4	25	75	3 hours
4	BMRIT 304	Radiotherapy & Brachy- therapy Techniques in Malignant and Non-Malignant Diseases	100	50	150	4	25	75	3 hours
5	BMRIT 305	Orientation in Para- Clinical Sciences ,Clinical Sciences &Community Healthcare	100	20	120	4	25	75	3 hours
6	BMRIT 306	Practical (Main subject)	0	0	100	4	25	75	3 hours
		*Clinical Posting		200	200				

Total Hours-1080
***Clinical posting-Not Included in University Examination**

INTERNSHIP – minimum 6 Months

Medical Laboratory Technology (BMLT)

FIRST YEAR

Subject Code	Course Titles	Credit			HOURS/YEAR			IA	UE	T(IA+ UE)	EXAM DURATION
		Th	P	T	Th	P	T				
BMLT-101	Microbiology I	4		4	120		120	25	75	100	3 Hour
BMLT-102	Pathology I	4		4	120		120	25	75	100	3 Hour
BMLT-103	Biochemistry I	4		4	120		120	25	75	100	3 Hour
BMLT-104	Human Anatomy and Physiology	4		4	120		120	25	75	100	3 Hour
BMLT-105	Microbiology I (practical)		2	2		120	120	25	75	100	3 Hour
BMLT-106	Pathology I (practical)		2	2		120	120	25	75	100	3 Hour
BMLT-107	Biochemistry I (practical)		2	2		120	120	25	75	100	3 Hour
BMLT-108	Human Anatomy and Physiology		2	2		120	120	25	75	100	3 Hour
	Introduction to Quality and Patient safety (including Basic emergency care and life supportskills, Infection prevention and control, Biomedical	1		1	30		30	25	75	100	3 Hour
	Medical Terminology, Record keeping (includinganatomical terms) and Orientation to Medical Laboratory Science (MLS)	1		1	30		30	25	75	100	3 Hour
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinicallaboratory				60		60				
	TOTAL			28			1080				

NOTE:

1. **Abbreviations: Th-Theory, T - Total and P – Practical**

Total Hours-1080
IA-Internal Assessment
UE- University Examination
Clinical Posting & INTERNSHP- Not Included in University Examination
NOTE: -CODE ALLOTTED PRACTCAL WILL BE Included in University Examination

SECOND YEAR

Subject Code	Course Titles	Credit/week			HOURS/YEAR			IA	UE	T(IA+ UE)	EXAM DURATION
		Th	P	T	Th	P	T				
BMLT-201	Microbiology II	4		4	120		120	25	75	100	3 Hour
BMLT-202	Pathology II	4		4	120		120	25	75	100	3 Hour
BMLT-203	Biochemistry II	4		4	120		120	25	75	100	3 Hour
BMLT-204	Evs	4		4	120		120	25	75	100	3 Hour
BMLT-205	Microbiology II (practical)		2	2		120	120	25	75	100	3 Hour
BMLT-206	Pathology II (practical)		2	2		120	120	25	75	100	3 Hour
BMLT-207	Biochemistry II (practical)		2	2		120	120	25	75	100	3 Hour
BMLT-208	Applied Histopathology (practical)		2	2		120	120	25	75	100	3 Hour
	Guest Lecture/Tutorial/Seminar/visit to any medical.research institution or reputed clinical laboratory		1	1		120	120	25	75	100	3 Hour
	TOTAL			25	480	608	1080				

NOTE:

1. **Abbreviations: Th-Theory, T - Total and P – Practical**

Total Hours-1080
IA-Internal Assessment
UE- University Examination
Clinical Posting & INTERNSHP- Not Included in University Examination
NOTE: -CODE ALLOTTED PRACTCAL WILL BE Included in University Examination

THIRD YEAR

NOTE:

Subject Code	Course Titles	Credit/week			HOURS/YEAR			IA	UE	T(IA+ UE)	EXAM DURATION
		T	P	T	T	P	T				
BMLT-301	Microbiology III	4		4	120		120	25	75	100	3 Hour
BMLT-302	Pathology III	4		4	120		120	25	75	100	3 Hour
BMLT-303	Biochemistry III	4		4	120		120	25	75	100	3 Hour
BMLT-304	Research methodology and	4		4	120		120	25	75	100	3 Hour
BMLT-305	Microbiology III (practical)		2	2		120	120				
BMLT-306	Pathology III (practical)		2	2		120	120				
BMLT-307	Biochemistry III (practical)		2	2		120	120				
BMLT-308	Research methodology and Biostatistics(practical)		2	2		120	120				
	Guest Lecture/Tutorial/Seminar/visit to any medical research institution or reputed clinical laboratory		1	1		120	120	25	75	100	3 Hour
	TOTAL			25	480	608	1080				

1. **Abbreviations: Th-Theory, T - Total and P – Practical**

Total Hours-1080
IA-Internal Assessment
UE- University Examination
Clinical Posting & INTERNSHP- Not Included in University Examination
NOTE: -CODE ALLOTTED PRACTCAL WILL BE Included in University Examination

Subject Code	Course Titles	Credit/week			HOURS/YEAR		
		T	P	T	T	P	T
BMLT-801	MLT Internship***	26					720

INTERNSHIP – After completion of seven semesters of Bachelor MLS the candidates shall undergo six months internship in a Government recognized hospital/Institution as partial fulfillment for the award of Bachelor in MLT as per government norms.

Clinical Posting & INTERNSHP- Not Included in University Examination

Bachelor of Cardiac Care Technology (BCT)

First Year

S. No	Course Code	Course Title	Total Theory	Total Practical	Total Credits	Total Hours (Th + Practical)	IA	UE	Exam Hours
1.	**BCT 101**	General Anatomy	90	30	3	120	25	75	3 hrs
2.	**BCT102**	General Physiology	90	30	3	120	25	75	3 hrs
3.	**BCT103**	General Biochemistry	60	60	3	120	25	75	3 hrs
4.	**BCT 104**	General Microbiology	80	-	3	80	25	75	3 hrs
5.	**BCT 105**	General Nutrition	80	-	2	80	25	75	3 hrs
6.	**BCT 106**	General Pathology	60	-	2	60	25	75	3 hrs
7.	**BCT 107**	Basics of Computer	40	-	2	40	25	75	3 hrs
8.	**BCT 108**	English & Communication	40	-	2	40	25	75	3 hrs
9.	**BCT 109**	Clinical Hours	470 hrs						

Total Theory Hours – 660 hrs
Total Clinical Hours – 470 hrs

Second Year

S. No	Course Code	Course Title	Total Theory	Total Practical	Total Credits	Total Hours (Th +Practical)	IA	UE	Exam Hours
1.	**BCT 201**	Medical Electronics & Biophysics computer usage to cardiac care technology	60	20	2	80	25	75	3 hrs
2.	**BCT202**	Medicines relevant to cardiac care technology	80	-	2	80	25	75	3 hrs
3.	**BCT203**	Applied Pharmacology	80	-	2	80	25	75	3 hrs
4.	**BCT 204**	Introduction to Cardiac Care Technology	120	40	4	160	25	75	3 hrs
5.	**BCT 205**	Applied Microbiology & Pathology	60	-	2	60	25	75	3 hrs
9.	**BCT 206**	Clinical Hours	650 hrs						

Total Theory Hours - 460 hrs
Total Clinical Hours - 650 hrs

Third Year

S. No	Course Code	Course Title	Total Theory	Total Practical	Total Credits	Total Hours (Theory + Practical)	IA	UE	Exam Hours
1.	**BCT 301**	Cardiac Care Technology - Clinical	120	40	4	160	25	75	3 hrs
2.	**BCT302**	Cardiac Care Technology - Applied	120	40	4	160	25	75	3 hrs
3.	**BCT303**	Cardiac Care Technology - Advanced	120	40	4	160	25	75	3 hrs
4.	**BCT 304**	Introduction to Quality & Patient Safety	45	-	2	45	25	75	3 hrs
5.	**BCT 305**	Medical Psychology, Medical Law & Medical Ethics	50	-	2	50	25	75	3 hrs
6.	**BCT 306**	Research & Biostatistics	80	-	2	80	25	75	3 hrs
9.	**BCT 109**	Clinical Hours	750 hrs						

Total Theory Hours – 655 hrs

Total Clinical Hours - 750 hrs

Note – Cardiac Care Technology – Clinical (Clinical posting – 250 hours)
Cardiac Care Technology – Applied (Clinical posting – 250 hours)
Cardiac Care Technology – Advanced (Clinical posting – 250 hours)

Total Theory Course Hours – 1775 Hours
Total Clinical Course Hours – 1870 Hours
Note- Internship posting for 3 months

BACHELOR OF OPTOMETRY

First Year

S.No.	Course Code	Course Titles	Theory Hours	Practical Hours	Total Hours (Theory + Practical)	Credits	1A*	UE**	Exam Duration (IA/UE)
1	BOP101	General Anatomy	120	30	150	5	25	75	3 Hours
2	BOP102	General Physiology	120	30	150	5	25	75	3 Hours
3	BOP103	General Biochemistry	60	30	90	3	25	75	3 Hours
4	BOP104	General Microbiology	60	0	60	2	25	75	3 Hours
5	BOP105	Nutrition	60	0	60	2	25	75	3 Hours
6	BOP106	Pathology	60	0	60	2	25	75	3 Hours
7	BOP107	Basics of Computers #	30	0	30		100		3 Hours
8	BOP108	English and Communication #	30	0	30		100		3 Hours

- Not included in university exams
*IA – Internal Assessment
**UE-University Examinations

Second Year

S.No.	Course Code	Course Titles	Theory Hours	Practical Hours	Total Hours (Theory + Practical)	Credits	1A*	UE**	Exam Duration (IA/UE)
1	BOP 201	Geometrical Optics	90	30	120	4	25	75	3 Hours
2	BOP 202	Visual Optics	60	30	90	3	25	75	3 Hours
3	BOP 203	Basic and Ocular Pharmacology	90	0	90	3	25	75	3 Hours
4	BOP 204	Physical Optics	60	30	90	3	25	75	3 Hours
5	BOP 205	Optometric Instruments	120	30	150	5	25	75	3 Hours
6	BOP 206	Practice Management	60	0	60	2	25	75	3 Hours
7	BOP 207	Dispensing Optics and Public Health and Community Optometry	90	0	90	3	25	75	3 Hours
8	BOP 208	Binocular Vision	120	30	150	5	25	75	3 Hours
9	BOP 209	Systemic Disease	90	0	90	3	25	75	3 Hours
10	BOP 251	Core Practical Examination		100	100	2	25	75	3 Hours
		Clinical Postings #		100	100				

Third Year

S.No.	Course Code	Course Titles	Theory Hours	Practical Hours	Total Hours (Theory + Practical)	Credits	1A*	UE**	Exam Duration (IA/UE)
1	BOP 301	Contact Lens	120	30	150	5	25	75	3 Hours
2	BOP 302	Low Vision Care	60	30	90	3	25	75	3 Hours
3	BOP 303	Ocular Disease and Glaucoma	120	30	150	5	25	75	3 Hours
4	BOP 304	Clinical Examination of Visual System	60	0	60	2	25	75	3 Hours
5	BOP 305	Indian Medicine and Telemedicine	60	0	60	2	25	75	3 Hours
6	BOP 306	Optometric Optics	90	0	90	3	25	75	3 Hours
7	BOP 307	Introduction to Quality and Patient Safety	30	0	30	1	25	75	3 Hours
8	BOP 308	Medical Psychology	30	0	30	1	25	75	3 Hours
9	BOP 309	Medical Law and Ethics	60	0	60	2	25	75	3 Hours
10	BOP 310	Geriatric Optometry, Pediatric Optometry & Occupational Optometry	120	30	150	5	25	75	3 Hours
11	BOP 311	Research Methodology and Biostatistics	90	0	90	3	25	75	3 Hours
12	BOP 351	Core Practical Examination		100	100	2	25	75	3 Hours
		Clinical Postings #		100	100				

Fourth Year

S.No.	Course Code	Course Titles	Theory Hours	Practical Hours	Total Hours (Theory + Practical)	Credits	1A*	UE**	Exam Duration (IA/UE)
1	BOP 401	Internship and Research Project#		1500	1500		100		3 Hours

not included in university exams

BACHELOR OF RENAL DIALYSIS TECHNOLOGY

First Year

Sl. No.	CourseTitles	Hours			Credit	IA	UE
		T	P	Total			
RDT-101	Introduction to HealthcareDelivery System in India	60	0	60	2	25	75
RDT-102	Basic computers andinformation Science	10	40	50	2	25	75
RDT-103	Communication , soft skills, Professionalism and values	20	10	30	1	100	0
RDT-104	Medical Terminologyand Record keeping (including anatomical terms)and Medical Law and Ethics	40	0	40	1	100	0
RDT-105	Introduction to Quality andPatient safety and Principals of Management	30	10	40	1	100	0
RDT-106	Research Methodology andBiostatistics	40	20	60	2	25	75
RDT-107	Community orientation and clinical visit (including related practical to course RDT101)	0	100	100	3	25	75
RDT-108	Human anatomy	40	80	120	4	25	75
RDT-109	Physiology	40	80	120	4	25	75
RDT-110	Applied anatomy & physiology related toDialysis Therapy Technology	40	80	120	4	25	75
RDT-111	Biochemistry	30	50	80	2	25	75
	BSc.DTT Directed ClinicalEducation– part I (studentship)***	-	100	100			
	TOTAL	350	570	920			

Total Hours-1080

IA-Internal Assessment

UE- University Examination

*****Clinical Posting & Practical-Not Included in University Examination**

NOTE: -ONLY CODED RDT-110 COUMMNITY PRACTCAL WILL BE Included in University Examination

Second Year

Sl. No.	Course Titles	Hours			credit	IA	UE
		T	P	Total			
RDT-201	Pathology	50	80	130	4	25	75
RDT-202	Microbiology	50	80	130	4	25	75
RDT-203	Applied pathology & microbiology related toDialysis Therapy Technology	50	80	130	4	25	75
RDT-204	General Pharmacology	30	30	60	2	25	75
RDT-205	Pharmacology related todialysis technology	50	-	50	2	25	75
RDT-206	Concepts of renal disease, dialysis &nutrition	60	-	60	2	25	75
RDT-207	Applied Dialysis Therapy Technology – Part I	50	80	130	4	25	75
	BSc.DTT Directed Clinical Education – partII (studentship)***	-	390	390	-		
	TOTAL	340	740	1080			

Third Year

Sl. No.	Course Titles	Hours			Credit	IA	UE
		T	P	T			
RDT-301	Applied Dialysis Therapy Technology – Part II	50	100	150	4	25	75
RDT-302	Applied Dialysis Therapy Technology – Part III	50	100	150	4	25	75
	BSc.DTT Directed Clinical Education – Part III (studentship)***	-	780	780			
	TOTAL	100	980	1080			

B.SC. OPERATION THEATER TECONOLOGY

First Year

SL NO	COURSE CODE	SUBJECT	HOURS	CREDITS
1	OTT 101	Human Anatomy	125	4
2	OTT 102	Physiology	125	4
3	OTT 103	Introduction to Quality and Patient safety	90	3
4	OTT 104	Biochemistry I	90	3
7	OTT 105	Introduction to OTT	90	3
8	OTT106	Practical (Introduction to OTT)	90	3
9	OTT 107	English(Communication and soft skills)	30	1
10	OTT 108	Introduction to Healthcare Delivery System in India	90	3
11	OTT 109	Basic computers and information science	30	1
12		Clinical Lab posting	200	

Second Year

SL NO	COURSE CODE	SUBJECT	HOURS	CREDITS
1	OTT 201	Medicine	90	3
2	OTT 202	Applied Pathology & blood banking	60	2
3	OTT 203	Applied Microbiology	60	2
4	OTT 204	Clinical Pharmacology	90	3
5	OTT 205	Psychology & Sociology	90	3
6	OTT 206	Basic of surgery	90	3
7	OTT 207	Principles & basics of Anesthesia	90	3
8	OTT 208	OTT Practical	60	3
10		Clinical Lab posting	300	

Third Year

SL NO	COURSE CODE	SUBJECT	HOURS	CREDITS
1	OTT 301	Operation theatre technology - clinical	60	2
2	OTT 302	Operation theatre technology - practical	60	1
3	OTT 303	Operation theatre technology - Applied	120	4
4	OTT 304	Operation theatre technology - practical	120	2
5	OTT 305	Operation theatre technology - Advanced	100	4
	OTT 306	Operation theatre technology – Advanced - Practical	60	2
6	OTT 307	Ethics & Database management	30	1
7	OTT 308	Research and Biostatistics	30	1
8		Clinical Lab posting	600	

INTERNSHIP

SR. NO.	COURSE TITTLE	HOURS		
1	INTERNSHIP	THEORY	PRACTICAL	HOURS
			1000	1000