



OFFICE OF THE PRINCIPAL & DEAN
Rama Institute of Paramedical Sciences
RAMA UNIVERSITY, UTTAR PRADESH
Rama City, G.T. Road, Mandhana, Kanpur - 209217

Ref: RIPS/ESTB/2019/451

Date: 01/03/2019

BOS MEETING NOTICE

This is to inform all the faculty members that a meeting is scheduled on 06th April 2019 with eminent members of Board of Studies for discussion of syllabus of Bachelors of Physiotherapy (BPT), Bachelors of Medical Laboratory Technician (BMLT) and Bachelors in Optometry (BOPTO). The meeting will be discussing about the revisions to be made in the syllabus and regarding the course curriculum.

Dean & Principal
Faculty of Paramedical Sciences
RAMA University, Mandhana, Kanpur



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Ref: RIPS/ESTB. /2019/470A

Date: 08/04/2019

BOS MINUTES OF MEETINGS

A BOS Meeting was arranged within the institution to discuss the curriculum of Bachelors of Physiotherapy (BPT), Bachelors in Medical Laboratory Technology (BMLT) and Bachelors of Optometry (BOPTO).

The meeting discussed several points including:

- Amendment of the evaluation scheme
- Removal of Project Work from BPT IV-year curriculum
- Incorporation of Clinical studies into Internship Programme
- Inclusion of new subjects within the curriculum of BPT
- Inclusion of new subjects within the curriculum of BMLT
- Inclusion of new subjects within the curriculum of BOPTO
- Inclusion of Yoga as separate subject in every year as Non- University Examinee subject as guided by the recent guidelines of UGC.

P. Singh
Principal & Dean
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Rama City, G.T. Road, Mandhana
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**RAMA UNIVERSITY UTTAR PRADESH,
KANPUR**

Faculty of Paramedical Sciences

**3½ YEARS B.Sc. PROGRAMME IN
MEDICAL LABORATORY TECHNOLOGY (B.M.L.T.)**



2019-20

Ordinance, Rules, Regulations

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SYLLABUS

training following which the University shall award the B.Sc. in Medical Laboratory Technology Degree or declare the candidate eligible for the same.

- No candidate shall be awarded degree without successfully completing six months internship.
- Externship (Internship from the Institute/Hospital other than affiliated to Rama University/Hospital) is not allowed in any circumstances.
- Externship shall only be allowed in rare cases and after the recommendation of Internship council of Rama University.
- Institution shall have to satisfy themselves that satisfactory infrastructure facilities of Pathology Laboratory exist in the Institute / Hospital where the internship training has to be undertaken. Following parameters / guidelines have been suggested:
 - a. It is mandatory for the Institution to have its own well equipped and modern pathology laboratory and should be registered with state authorities.
 - b. Senior Pathologist should manage the pathology laboratory in the Institutes/Hospitals.

Internship council of Rama University can grant NOC to the students to do the Externship at the place of his choice provided the concerned Hospital/Pathology Laboratory fully satisfies the above criteria. For the purpose of granting NOC the candidate shall have to submit to the Institution the status of Pathology Laboratory services available at the place where he intends to do his Internship.

- The candidate is required to commence his internship within 30 days of announcement of Final Year Results. The candidate who commences internship beyond 30 days of announcement of Final Year Results shall have to take permission to do so from Internship council of Rama University producing valid reasons with certificates.

DEGREE:

On successful completion of Three and Half year programme the candidate will be awarded with “Bachelor of Science in Medical Lab Technology” (B.M.L.T.) from Rama University. The candidate will now be eligible to be registered in the U.P. State Medical faculty. After the registration he/she shall be eligible to pursue his future career as Medical Lab Technologist.

SCHEME OF EXAMINATION :

B.Sc. in Medical Laboratory Technology Part-I (First Year) University Examination

Sr. No.	Subjects	Subject Code	THEORY MARKS				PRACTICAL MARKS				Total marks
			Theory Paper	Internal Assessment	Min. Marks	Total	Practical	Internal Assessment	Min. Marks	Total	
1.	Basic Anatomy	BMLT-101	80	20	50	100	80	20	50	100	200
2.	Physiology	BMLT-102	80	20	50	100	80	20	50	100	200
3.	Biochemistry	BMLT-103	80	20	50	100	80	20	50	100	200
4.	General Pathology, Haematology, Instruments & Reagents.	BMLT-104	80	20	50	100	80	20	—	—	200
5.	General Microbiology	BMLT-105	80	20	50	100	80	20	—	—	200

GRAND TOTAL											1000
6.*	Environment al Studies (EVS)	---	100	NA	35	100	NA	NA	NA	NA	100
7.*	English	---	100	NA	35	100	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

B.Sc. in Medical Laboratory Technology Part-II (Second Year) University Examination

Sr. No.	Subjects	Subject Code	THEORY MARKS				PRACTICAL MARKS				Total marks
			Theory Paper	Internal Assessment	Min. Marks	Total	Practical	Internal Assessment	Min. Marks	Total	
1.	Pathology-I & Blood Bank Procedures	BMLT-201	80	20	50	100	80	20	50	100	200
2.	Pathology-II	BMLT-202	80	20	50	100	80	20	50	100	200
3.	General Microbiology -I (Immunology & Serology)	BMLT-203	80	20	50	100	80	20	50	100	200
4.	Microbiology -II, Parasitology	BMLT-204	80	20	50	100	80	20	50	100	200
5.	Clinical Biochemistry	BMLT-205	80	20	50	100	80	20	50	100	200
GRAND TOTAL											1000
6*	Computer	---	100	NA	35	100	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

B.Sc. in Medical Laboratory Technology Part-III (Third Year) University Examination

Sr. No.	Subjects	Subject Code	THEORY MARKS				PRACTICAL MARKS				Total marks
			Theory Paper	Internal Assessment	Min. Marks	Total	Practical	Internal Assessment	Min. Marks	Total	
1.	Pathology-I Paper (Histopathology & Cytology Techniques)	BMLT-301	80	20	50	100	80	20	50	100	200
2.	Pathology-II (Coagulation studies)	BMLT-302	80	20	50	100	80	20	50	100	200
3.	Microbiology -I (Systematic Bacteriology, Mycology)	BMLT-303	80	20	50	100	80	20	50	100	200

4.	Microbiology-II (Virology, Quality Laboratory Management & Automation)	BMLT-304	80	20	50	100	80	20	50	100	200
5.	Research & Biostatistics	BMLT-305	80	20	50	100	NA	NA	NA	NA	100
								GRAND TOTAL			900

**RAMA UNIVERSITY UTTAR PRADESH,
KANPUR**

Faculty of Paramedical Sciences

**4- YEARS B.Sc. PROGRAMME IN
OPTOMETRY**



2019-20

Ordinance, Rules, Regulations

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SYLLABUS

Examination Schedule : (University Examination)

B.Sc. Optometry (First Year)

SR. NO.	Subject	Subject Code	Theory marks				Practical Marks				Total Marks
			Theory Paper	Internal Assessment	Min. Marks	Total	Practical	Internal Assessment	Min. Marks	Total	
1	Anatomy-I (General)	BO-101	80	20	50	100	80	20	50	100	200
2	Anatomy-II (Ocular)	BO-102	80	20	50	100	NA	NA	NA	NA	100
3	Physiology-I (General)	BO-103	80	20	50	100	80	20	50	100	200
4	Physiology-II (Ocular)	BO-104	80	20	50	100	NA	NA	NA	NA	100
5	Biochemistry	BO-105	60	40	50	100	—	—	—	—	100
6	Geometric & Physical Optics	BO-106	80	20	50	100	—	—	—	—	100
GRAND TOTAL											800
7*	Environmental Studies	---	100	NA	35	100	NA	NA	NA	NA	100
8*	Professional Communication in English	---	100	NA	35	100	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

B.Sc. Optometry (Second Year)

SR. NO.	Subject	Subject Code	Theory marks				Practical Marks				Total Marks
			Theory Paper	Internal Assessment	Min. Marks	Total	Practical	Internal Assessment	Min. Marks	Total	
1	Ocular Disease (Anterior Segment)	BO-201	80	20	50	100	NA	NA	NA	NA	100
2	Visual Optics	BO-202	80	20	50	100	NA	NA	NA	NA	100
3	Clinical Refraction and Lighting of the Eye	BO-203	80	20	50	100	80	20	50	100	200
4	Ophthalmic & Optical Instrumentation and Dispensing Optics	BO-204	80	20	50	100	80	20	50	100	200
5	General Pathology & Microbiology	BO-205	80	20	50	100	80	20	50	100	200
6	General Pharmacology	BO-206	80	20	50	100	—	—	—	—	100
GRAND TOTAL											900
7*	Computer Fundamentals & Programming	---	100	NA	35	100	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

B.Sc. Optometry (Third Year)

SR. NO.	Subject	Subject Code	Theory marks				Practical Marks				Total Marks
			Theory Paper	Internal Assessment	Min. Marks	Total	Practical	Internal Assessment	Min. Marks	Total	
1	Ocular Diseases (Posterior Segment) & Systematic Diseases of the eye	BO-301	80	20	50	100	NA	NA	NA	NA	100
2	Binocular Vision & Ocular Motility	BO-302	80	20	50	100	NA	NA	NA	NA	100
3	Contact Lens	BO-303	80	20	50	100	80	20	50	100	200
4	Low Vision Aid & Visual Rehabilitation	BO-304	80	20	50	100	80	20	50	100	200
5	Clinical Refraction & Applied Optometry & Orthoptics	BO-305	80	20	50	100	80	20	50	100	200
6	Public Health & Community Medicine and Biostatistics	BO-306	80	20	50	100	NA	NA	NA	NA	100
									GRAND TOTAL	900	

**RAMA UNIVERSITY UTTAR PRADESH,
KANPUR**

Faculty of Paramedical Sciences

**4½ YEARS B.Sc. PROGRAMME IN
PHYSIOTHERAPY**



2019-20

Ordinance, Rules, Regulations

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SYLLABUS

DEGREE:

On successful completion of Four and Half year programme the candidate will be awarded with "Bachelor of Physiotherapy" (B.P.T.) from Rama University. The candidate will now be eligible to be registered in the U.P. State Medical faculty. After the registration he/she shall be eligible to pursue his future career as Physiotherapist.

SCHEME OF EXAMINATION:

BPT- Part-I (First Year) University Examination

S. No.	Subjects	Subject code	THEORY MARKS				PRACTICAL MARKS				Total Marks
			Theory Paper	Internal Assessment	Total	Minimum Marks	Practical	Internal Assessment	Total	Minimum Marks	
1	Anatomy	BPT-101	80	20	100	50	80	20	100	50	200
2	Physiology	BPT-102	80	20	100	50	80	20	100	50	200
3	Clinical Biochemistry	BPT-103	80	20	100	50					100
4	General Psychology	BPT-104	80	20	100	50					100
5	Basic Nursing & First Aid	BPT-105	80	20	100	50					100
Grand Total											700
6.*	Ethics in Physiotherapy Practice	---	100	NA	100	35	NA	NA	NA	NA	100
7.*	Anatomy & Physiology clinically relevant to Physiotherapy	---	100	NA	100	35	NA	NA	NA	NA	100
8.*	English	---	100	NA	100	35	NA	NA	NA	NA	100
9.*	Fundamentals of Yoga	---	100	NA	100	35	NA	NA	NA	NA	100
10.**	Environmental Science (EVS)	---	100	NA	100	35	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

** Environmental Science (EVS) paper shall be conducted by the University however, marks will not be added in the grand total (only qualifying subject).

BPT- Part-II (Second Year) University Examination

S. No	Subjects	Subject Code	THEORY MARKS				PRACTICAL MARKS				Total Marks
			Theory Paper	Internal Assessment	Total	Minimum Marks	Practical	Internal Assessment	Total	Minimum Marks	
1	Biomechanics & Kinesiology	BPT-201	80	20	100	50	80	20	100	50	200
2	Exercise therapy – I	BPT-202	80	20	100	50	80	20	100	50	200
3	Electrotherapy – I	BPT-203	80	20	100	50	80	20	100	50	200
4	Medical Microbiology	BPT-204	80	20	100	50	80	20	100	50	200
5	Pathology	BPT-205	80	20	100	50	80	20	100	50	200
6	Pharmacology	BPT-206	80	20	100	50					100
Grand Total											1100
7*	Fundamentals of Computer	---	100	NA	100	35	NA	NA	NA	NA	100
8*	Philosophy of Yoga	---	100	NA	100	35	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

BPT- Part-III (Third Year) University Examination

S. No	Subjects	Subject code	THEORY MARKS				PRACTICAL MARKS				Total Marks
			Theory Paper	Internal Assessment	Total	Minimum Marks	Practical	Internal Assessment	Total	Minimum Marks	
1	Exercise therapy-II	BPT-301	80	20	100	50	80	20	100	50	200
2	Electro therapy – II	BPT-302	80	20	100	50	80	20	100	50	200
3	Orthopaedics	BPT-303	80	20	100	50	---	---	---	---	100
4	General Medicine including Pediatrics & Psychiatry	BPT-304	80	20	100	50	---	---	---	---	100
5	General Surgery	BPT-305	80	20	100	50	---	---	---	---	100
6	Community Medicine	BPT-306	80	20	100	50	---	---	---	---	100
7	Research Methodology & Biostatistics	BPT-307	80	20	100	50	---	---	---	---	100
Grand Total											900
8*	Application of Yoga	---	100	NA	100	35	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

BPT- Part-IV (Final Year) University Examination

S. No	Subjects	Subject code	THEORY MARKS				PRACTICAL MARKS				Total Marks
			Theory Paper	Internal Assessment	Total	Minimum Marks	Practical	Internal Assessment	Total	Minimum Marks	
1	Physiotherapy in Orthopaedic Conditions	BPT-401	80	20	100	50	80	20	100	50	200
2	Physiotherapy in Neurological Conditions	BPT-402	80	20	100	50	80	20	100	50	200
3	Physiotherapy in Cardio Respiratory and General Conditions	BPT-403	80	20	100	50	80	20	100	50	200
4	Physiotherapy in Sports	BPT-404	80	20	100	50	80	20	100	50	200
5	Rehabilitation on Medicine	BPT-405	80	20	100	50	80	20	100	50	200
Grand Total											1000
6*	Therapeutic Yoga	---	100	NA	100	35	NA	NA	NA	NA	100

* These subjects are only to qualify in Internal Assessment. Not included for University Examinations.

SYLLABUS

Course of study

BPT- I Year

S. No.	Subjects	Teaching hours		
		Theory	Practicals	Total
1	Anatomy	180	120	300
2	Physiology	140	60	200
3	Clinical Biochemistry	70		70
4	General Psychology	100		100
5	Basic Nursing & First Aid	100		100
6*	Ethics in Physiotherapy Practice	25		25
7*	Anatomy & Physiology clinically relevant to Physiotherapy	60		60
8*	English	40		40
9*	Fundamentals of Yoga	120	120	240
10**	Environmental Science (EVS)	40		40