



# RAMA INSTITUTE OF PARAMEDICAL SCIENCES

UNDER

## FACULTY OF PARAMEDICAL SCIENCES

### RAMA UNIVERSITY, MANDHANA- KANPUR



A meeting of the Board of Studies of the department of Rama Institute of Paramedical Sciences, Rama University, Mandhana- Kanpur, was held on 13<sup>th</sup> July 2023 at Rama Institute of Paramedical Sciences, Rama University, Mandhana- Kanpur.

The following members were present:

1. Dr. Brajendra Nigam ..... (Chairperson)
2. Zainw Abedin ..... (External Member)
3. Dr. (Prof.) Abdul Raheem ..... (External Member)
4. Dr. Madhu Yadav ..... (External Member)
5. Dr. R. Sujatha ..... (Internal Member)
6. Mr. Satyendra Singh Sachan ..... (Internal Member)
7. Dr. Nidhi Agarwal ..... (Internal Member)

The agendas of the meeting were:

- a. Updation of Syllabus of BPT Course
- b. Discussion and Updation of the Ordinances in BPT, BMLT & BOPTO Internships
- c. Addition of elective subjects in the curriculum of BPT course according to UGC norms
- d. Separation of Value-Added courses from generalised syllabus
- e. Formation of practical subject codes different from theoretical subject codes

All the above agendas, unanimously adopted as per annexures.

PRINCIPAL/ DEAN  
RAMA INSTITUTE OF PARAMEDICAL SCIENCES  
RAMA UNIVERSITY, MANDHANA- KANPUR



**RAMA INSTITUTE OF PARAMEDICAL SCIENCES**

UNDER

**FACULTY OF PARAMEDICAL SCIENCES**

**RAMA UNIVERSITY, MANDHANA- KANPUR**



**BOS MEMBERS**

1. CHAIRPERSON- Dr. Brijendra Nigam  
 Designation: Dean and Principal, Rama Institute of Paramedical Sciences, Rama University, Kanpur.  
 Date & Signature: .....
  
2. EXTERNAL MEMBER- Zainul Abedin  
 Designation: Assistant prof & HOD of optometry, Integral University, D.P.A.H.S.R, Lucknow  
 Date & Signature: [Signature]
  
3. EXTERNAL MEMBER- Prof. Dr. Abdul Raheem  
 Designation: Head of Department, Department of Physiotherapy, Integral Institute of Allied Health Sciences, Integral University  
 Date & Signature: [Signature]
  
4. EXTERNAL MEMBER- Dr. Madhu Yadav  
 Designation: Associate Prof., Department of Microbiology, G.S.U.M. Medical College, Kanpur, Uttar Pradesh.  
 Date & Signature: [Signature]
  
5. INTERNAL MEMBER- Dr. R. Sujatha  
 Designation: Prof & HOD, Dept of Microbiology, Rama Medical College, Mandhana, Kanpur  
 Date & Signature: [Signature]
  
6. INTERNAL MEMBER- Mr. Salyendra Singh Sachan  
 Designation: Assistant Professor, Rama Institute of Paramedical Sciences, Rama University, Kanpur  
 Date & Signature: [Signature]
  
7. INTERNAL MEMBER- Dr. Nidhi Agarwal  
 Designation: Assistant Professor, Rama Institute of Paramedical Sciences, Rama University, Kanpur  
 Date & Signature: Nidhi Agarwal

[Signature]  
DEAN & PRINCIPAL

RAMA INSTITUTE OF PARAMEDICAL SCIENCES  
RAMA UNIVERSITY, MANDHANA- KANPUR





**RAMA INSTITUTE OF PARAMEDICAL SCIENCES**

UNDER

**FACULTY OF PARAMEDICAL SCIENCES**

**RAMA UNIVERSITY, MANDHANA-KANPUR**



**DEPARTMENT OF PHYSIOTHERAPY**

POINTS TO BE DISCUSSED IN BOS MEETING:

- Addition of Choice based Credit System (CBCS) and elective courses in all years of the course
- Distribution of type of Courses
- Change of Electro I and II, Exercise I and II course's name and code.
- Choice of elective courses
- formation of PO-CO matrices
- formation of separate practical subject codes
- Changes in syllabus and curriculum of Internship schedule and regulations.

CHANGES PASSED FROM BOS MEETING FOR THE SYLLABUS 2023-24

- CBCS passed alongwith PO-CO matrix
- Elective courses to be added in first year and third year
- Electro I and II changed to Basic Electrotherapy and Advanced Electrotherapy
- Exercise I and II changed to Basic and Advanced exercise therapy.
- Practical subject codes separated.
- Major changes in Internship schedule and Internship regulations
- Formulations of Exit Examination for Internship students.

SIGNATURES:

Dr. Anurag Singh

Dr. Anurag Singh

Dr. Anurag Singh





# RAMA INSTITUTE OF PARAMEDICAL SCIENCES

UNDER

FACULTY OF PARAMEDICAL SCIENCES

RAMA UNIVERSITY, MANDHANA- KANPUR



## DEPARTMENT OF OPTOMETRY

### POINTS TO BE DISCUSSED IN BOS MEETING:

- Addition of Choice based credit system (CBCS) and elective courses in all years of the course.
- Distribution of type of courses.
- Choice of elective courses.
- formation of CO-PO matrices.
- formation of separate practical subject codes.
- Changes in syllabus and curriculum of Internship schedule and regulations.
- Changes in subject name & their respective code in B.DPTD I year, II & III year.

### CHANGES PASSED FORM BOS MEETING FOR THE SYLLABUS 2023-24

- CBCS passed along with PO-CO matrices.
- Elective courses to be added in first year and third year.
- Practical subject codes separated.
- Major changes in Internship schedule and Internship regulations.
- formulation of Exit Examination for Internship students.
- Changes in subject name & their respective codes in B.DPTD I year, II year & III year.

SIGNATURES:

*[Signature]*  
K. Jyoti

*[Signature]*

*[Signature]*

*[Signature]*  
Nishi Aggarwal

*[Signature]*

*[Signature]*  
Priya



# RAMA INSTITUTE OF PARAMEDICAL SCIENCES

UNDER

FACULTY OF PARAMEDICAL SCIENCES

RAMA UNIVERSITY, MANDHANA-KANPUR



## DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY

### POINTS TO BE DISCUSSED IN BOS MEETING:

- Addition of Choice based Credit System (CBCS) and elective courses in all years of the course.
- Distribution of types of courses.
- Choice of Elective course.
- Formation of PO-matrix.
- Formation of separate practical subject code.
- Changes in separate syllabus and curriculum of Internship schedule and their regulations.
- 

### CHANGES PASSED FROM BOS MEETING FOR THE SYLLABUS 2023-24

- CBCS passed along with PO-Co matrix.
- Elective courses to be added in first year and third year.
- Practical subject codes separated.
- Major changes in Internship schedule and Internship regulations.
- Formulation of Exit Examination for Internship students.

SIGNATURES:

K. Sufallo

M. H. Anand





# RAMA INSTITUTE OF PARAMEDICAL SCIENCES

UNDER

FACULTY OF PARAMEDICAL SCIENCES

RAMA UNIVERSITY, MANDHANA- KANPUR



## MINUTES OF BOS MEETING

A meeting of the Board of Studies of the department of Rama Institute of Paramedical Sciences, Rama University, Mandhana-Kanpur, was held on 13<sup>th</sup> July 2023 at Rama Institute of Paramedical Sciences, Rama University, Mandhana- Kanpur.

The following members were present:

1. Dr. Bajendra Nigam ..... (Chairperson)
2. Zainul Abedin ..... (External Member)
3. Prof. Dr. Abdul Raheem ..... (External Member)
4. Dr. Madhu Yadav ..... (External Member)
5. Dr. R. Sujatha ..... (Internal Member)
6. Mr. Satyendra Singh Sachan ..... (Internal Member)
7. Dr. Nidhi Agarwal ..... (Internal Member)

The agendas of the meeting were:

- a. Updation of Syllabus of BPT Course
- b. Discussion and Updation of the Ordinances in BPT, BMLT & BOPTO Internships
- c. Addition of elective subjects in the curriculum of BPT course according to UGC norms
- d. Separation of Value-Added courses from generalised syllabus
- e. Formation of practical subject codes different from theoretical subject codes

The members discussed the following points:

- a. Discussion and Updating ordinances of all the three courses BPT, BMLT & BOPTO
- b. Revision of syllabus of the existing subjects in BPT, BMLT & BOPTO course
- c. Elective subjects passed the committee's approval
- d. Changes within the Internship program of students and Detainment policy of the institute according to the University's norms
- e. Introduction of Choice Based Credit System (CBCS) in BPT, BMLT & BOPTO
- f. Changes of the marking from 80/20 for External/ Internal to 70/30 in all courses of BPT, BMLT & BOPTO

Minutes:

A. K. Gupta

DR

Nidhi Agarwal

Satyendra Singh

Rajendra

It was decided unanimously in the meeting session that the CBCS course system will be adopted for all degree courses, allowing students to opt one subject from two elective subjects in only first year and third year.

- Proposal for elective subjects in all the years of curriculum was not adopted pass, instead members suggested that it could be used for two years (First and Third year) of the curriculum for all the degree courses.
- All the members, decided to change the evaluation scheme of subjects from 80-20 ratio for external and internal assessments to 70-30 ratio as per norms of UGC.
- All the board members were of the opinion that there must be exit examinations for students pursuing Internship program which will enhance their learning experience and relevance with the curriculum they have studied.
- Also, the panel agreed for separating the practical subject codes for the subjects having practical marks.

All the above agendas, unanimously adopted by all the board members.

~~Signature~~

Natyaal (Dec)

DK

Neel Agrawal

W

K. Ayub Ali

Prize

PRINCIPAL/ DEAN

RAMA INSTITUTE OF PARAMEDICAL SCIENCES  
RAMA UNIVERSITY, MANDHANA- KANPUR

**RAMA UNIVERSITY UTTAR  
PRADESH, KANPUR**

**RAMA INSTITUTE OF  
PARAMEDICAL SCIENCES**

**UNDER  
Faculty of Paramedical Sciences**

**4½ YEARS**

**BACHELOR OF PHYSIOTHERAPY**



**2023-24**

**Ordinance, Rules,  
Regulations &  
SYLLABUS**



**SCHEME OF EXAMINATION**

**BPT- I Year (First Year) University Examination.**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS			Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment	Minimum Marks		
1	Anatomy	BPT-101	3	1	-	70	30	50	100	4
2	Anatomy-P	BPT-101P	-	-	2	70	30	50	100	1
3	Physiology	BPT-102	3	1	-	70	30	50	100	4
4	Physiology-P	BPT-102P	-	-	2	70	30	50	100	1
5	Clinical Biochemistry	BPT-103	1	1	-	70	30	50	100	2
6	Biophysics	BPT-111	1	1	-	70	30	50	100	2
7	Psychology and Sociology	BPT-113	3	-	-	70	30	50	100	3
8.	English*	RIPS-EN	-	1	-	-	100	50	100	1
9.	Environmental Science (EVS)**	EVS-001	1	-	-	100	-	40	100	1
10	Anatomy relevant to Physiotherapy*	BPT-001	2	1	-	-	100	50	100	3
11	Physiology relevant to Physiotherapy*	BPT-002	2	1	-	-	100	50	100	3
12	YOGA*	BPT-YO1	-	-	2	-	100	50	100	1
13	Nutrition & Diet*	BPT-110	1	-	-	-	100	50	100	1
14.	ELECTIVE		1	1	-	70	30	50	100	2
	Pain	BPT-E1								
	Healthcare	BPT-E2								
TOTAL			18	06	06				1400	29

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.
- Subject marked with (\*\*) will be evaluated and their passing criteria will be in accordance to the UGC norms.

**BPT- II Year (Second Year) University Examination**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Biomechanics & Kinesiology	BPT-201	3	1	-	70	30	50	100	4
2	Biomechanics & Kinesiology- P	BPT-201P	-	-	2	70	30	50	100	1
3	Basics of Exercise therapy	BPT-212	3	1	-	70	30	50	100	4
4	Basics of Exercise therapy -P	BPT-212P	-	-	2	70	30	50	100	1
5	Basics of Electrotherapy	BPT-213	3	1	-	70	30	50	100	4
6	Basics of Electrotherapy -P	BPT-213P	-	-	2	70	30	50	100	1
7	Medical Microbiology	BPT-204	1	-	-	70	30	50	100	1
8.	Pathology	BPT-205	-	1	-	70	30	50	100	1
9.	Pharmacology	BPT-206	2	-	-	70	30	50	100	2
10	Actinotherapy	BPT-209	1	1	-	70	30	50	100	2
11	Actinotherapy- P	BPT-209P	-	-	2	70	30	50	100	1
12	First aid & Emergency	BPT-211	-	-	1	70	30	50	100	1
13	Computer*	RIPS-COM	-	1	-	-	100	50	100	1
14.	Clinical Education- I*	BPT-OPD1	-	-	4	-	100	50	100	2
TOTAL			13	06	13				1400	26

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.



**BPT- III Year (Third Year) University Examination**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Advanced Exercise therapy	BPT-317	3	1	-	70	30	50	100	4
2	Advanced Exercise therapy - P	BPT-317P	-	-	2	70	30	50	100	1
3	Advanced Electrotherapy	BPT-318	3	1	-	70	30	50	100	4
4	Advanced Electrotherapy -P	BPT-318P	-	-	2	70	30	50	100	1
5	Orthopedics	BPT-303	3	1	-	70	30	50	100	4
6	General Medicine including Pediatrics & Psychiatry	BPT-304	2	-	-	70	30	50	100	2
7	General Surgery, Obstetrics & Gynecology	BPT-305	2	-	-	70	30	50	100	2
8	Research Methodology & Biostatistics	BPT-307	3	-	-	70	30	50	100	3
9	Cardiology and Pulmonology	BPT-315	2	-	-	70	30	50	100	2
10	Neurology & Neurosurgery	BPT-316	2	-	-	70	30	50	100	2
11	Elective Subject	Physical Functioning and Diagnostic skills	2	-	-	70	30	50	100	2
		BPT-E3								
		Vestibular Rehabilitation								
		BPT-E4								
12	Clinical Education-II*	BPT-OPD2	-	-	2	-	100	50	100	1
TOTAL			22	03	06				1200	28

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.

**BPT- IV Year (Final Year) University Examination**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Physiotherapy in Orthopedic Conditions	BPT-401	1	1	-	70	30	50	100	2
2	Physiotherapy in Orthopedic Conditions - P	BPT-401P	-	-	2	70	30	50	100	1
3	Physiotherapy in Neurological Conditions	BPT-402	1	1	-	70	30	50	100	2
4	Physiotherapy in Neurological Conditions -P	BPT-402P	-	-	2	70	30	50	100	1
5	Physiotherapy in Cardio-Respiratory and ICU	BPT-411	1	1	-	70	30	50	100	2
6	Physiotherapy in Cardio-Respiratory and ICU- P	BPT-411P	-	-	2	70	30	50	100	1
7	Physiotherapy in Sports	BPT-404	1	1	-	70	30	50	100	2
8.	Physiotherapy in Sports- P	BPT-404P	-	-	2	70	30	50	100	1
9.	Community Physiotherapy and Rehabilitation	BPT-412	1	1	-	70	30	50	100	2
10	Community Physiotherapy and Rehabilitation- P	BPT-412P	-	-	2	70	30	50	100	1
11	Physiotherapy in Gynecological conditions	BPT-406	1	1	-	70	30	50	100	2
12	Physiotherapy in Gynecological conditions- P	BPT-406P	-	-	2	70	30	50	100	1
13	Therapeutic Approaches and Advancements	BPT-413	1	1	-	70	30	50	100	2
14.	Therapeutic Approaches and Advancements- P	BPT-413P	-	-	2	70	30	50	100	1
15.	Project Work*	BPT-410	1	-	-	-	100	50	100	1
16.	Clinical Education- III*	BPT-OPD2	-	-	2	-	100	50	100	1
TOTAL			08	07	16				1400	25

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.



BPT- INTERNSHIP

EXIT EXAMINATION (INTERNSHIP)

<u>S.NO.</u>	<u>SUBJECT</u>	<u>SUBJECT CODE</u>	<u>THEORY/ PRACTICAL PAPER</u>	<u>MINIMUM MARKS</u>	<u>TOTAL MARKS</u>	<u>CREDITS</u>
1.	PROJECT PRACTICAL	BPT-551	40	20	50	3
2.	SEMINAR	BPT- 552	10	05	10	2
3.	CASE PRESENTATION		20	10	20	2
			1 LONG CASE & 2 SHORT CASES			
4.	LOG BOOK		10	05	10	2
5.	OBJECTIVE STRUCTURED CLINICAL EXAMINATION (OSCE)/ (OSPE)		10	05	10	1
<u>TOTAL</u>					100	10

- In exit examination the assessment will be done by one External examiner and one Internal examiner in charge or coordinator.
- The dates of exit examination will be announced separately.

**RAMA UNIVERSITY UTTAR PRADESH,  
KANPUR**

**RAMA INSTITUTE OF PARAMEDICAL  
SCIENCES  
UNDER  
Faculty of Paramedical Sciences**

**3½ YEARS**

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



**2023-24**

**Ordinance, Rules, Regulations**

**&**

**SYLLABUS**



**SCHEME OF EXAMINATION**  
**BMLT- I Year (First Year) University Examination**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS			Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment	Minimum Marks		
1	Basic Anatomy	BMLT-101	3	1	-	70	30	50	100	4
2	Basic Anatomy - P	BMLT-101P	-	-	2	70	30	50	100	1
3	Physiology	BMLT-102	3	1	-	70	30	50	100	4
4	Physiology - P	BMLT-102P	-	-	2	70	30	50	100	1
5	Biochemistry	BMLT-103	1	1	-	70	30	50	100	2
6	Biochemistry - P	BMLT-103P	-	-	2	70	30	50	100	1
7	General Pathology, Hematology, Instruments & Reagents.	BMLT-104	3	1	-	70	30	50	100	4
8	General Pathology, Hematology, Instruments & Reagents - P	BMLT-104P	-	-	2	-	100	50	100	2
9	General Microbiology	BMLT-105	3	1	-	100	-	50	100	4
10	General Microbiology - P	BMLT-105P	-	-	2	-	100	50	100	2
11	Environmental Studies (EVS)**	EVS-001	1	-	-	100	-	40	100	1
12	English*	RIPS-EN	1	-	-	-	100	50	100	1
13.	<b>ELECTIVE</b>		2	-	-	70	30	50	100	2
	Health Care	BMLT-E1								
	Principles of Laboratory Management	BMLT-E2								
<b>TOTAL</b>			17	05	10				1300	27

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.
- Subject marked with (\*\*) will be evaluated and their passing criteria will be in accordance to the UGC norms.

**BMLT- II Year (Second Year) University Examination**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Pathology-I& Blood Bank Procedures	BMLT-201	2	1	-	70	30	50	100	3
2	Pathology-I& Blood Bank Procedures -P	BMLT-201P	-	-	2	70	30	50	100	1
3	Pathology-II	BMLT-202	3	1	-	70	30	50	100	4
4	Pathology-II -P	BMLT-202P	-	-	2	70	30	50	100	1
5	General Microbiology -I (Immunology & Serology)	BMLT-203	3	1	-	70	30	50	100	4
6	General Microbiology -I (Immunology & Serology) -P	BMLT-203P	-	-	2	70	30	50	100	1
7	Microbiology -II, Parasitology	BMLT-204	3	1	-	70	30	50	100	4
8.	Microbiology -II, Parasitology-P	BMLT-204P	-	-	2	70	30	50	100	1
9.	Clinical Biochemistry	BMLT-205	2	1	-	70	30	50	100	3
10	Clinical Biochemistry-P	BMLT-205P	-	-	2	70	30	50	100	2
11	Computer*	RIPS-COM	-	1	-	-	100	50	100	1
<b>TOTAL</b>			<b>13</b>	<b>06</b>	<b>10</b>				<b>1100</b>	<b>25</b>

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in mark sheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.



**BMLT- III Year (Third Year) University Examination**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Pathology-I Paper (Histopathology & Cytology Techniques)	BMLT-301	3	1	-	70	30	50	100	4
2	Pathology-I Paper (Histopathology & Cytology Techniques) (P)	BMLT-301P	-	-	2	70	30	50	100	1
3	Pathology-II (Coagulation Studies)	BMLT-302	3	1	-	70	30	50	100	4
4	Pathology-II (Coagulation Studies) (P)	BMLT-302P	-	-	2	70	30	50	100	1
5	Microbiology -I (Systematic Bacteriology, Mycology)	BMLT-303	3	1	-	70	30	50	100	4
6	Microbiology -I (Systematic Bacteriology, Mycology) (P)	BMLT-303P	-	-	2	70	30	50	100	1
7	Microbiology -II (Virology, Quality Laboratory Management & Automation)	BMLT-304	3	1	-	70	30	50	100	4
8	Microbiology -II (Virology, Quality Laboratory Management & Automation) (P)	BMLT-304P	-	-	2	70	30	50	100	1
9	Research & Biostatistics	BMLT-305	2	-	-	70	30	50	100	2
10	Elective Course		2	-	-	70	30	50	100	2
	Diagnostic Molecular Biology	BMLT-E3								
	Advance Diagnostic Techniques	BMLT-E4								
<b>TOTAL</b>			<b>16</b>	<b>04</b>	<b>08</b>				<b>1000</b>	<b>24</b>

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in mark sheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.

**BMLT- INTERNSHIP**  
**EXIT EXAMINATION (INTERNSHIP)**

<b>S.NO.</b>	<b>SUBJECT</b>	<b>SUBJECT CODE</b>	<b>THEORY/ PRACTICAL PAPER</b>	<b>MINIMUM MARKS</b>	<b>TOTAL MARKS</b>	<b>CREDITS</b>
1.	<b>PROJECT PRACTICAL</b>	BMLT-451	40	20	50	3
2.	<b>SEMINAR</b>	BMLT- 452	10	05	10	2
3.	<b>SPOTTING/ OJECTIVE STRUCTURED CLINICAL EXAMINATION (OSCE) / (OSPE)</b>		30	15	30	3
4.	<b>LOG BOOK</b>		10	05	10	2
<b>TOTAL</b>					<b>100</b>	<b>10</b>

- In exit examination the assessment will be done by one external examiner and one internal examiner in charge or coordinator.
- The dates of exit examination will be announced separately.

**RAMA UNIVERSITY UTTAR  
PRADESH, KANPUR**

**RAMA INSTITUTE OF PARAMEDICAL  
SCIENCES**

**UNDER  
Faculty of Paramedical Sciences**

**4 YEARS**

**BACHELOR OF OPTOMETRY**



**2023-24**

**Ordinance, Rules,**

**Regulations &**

**SYLLABUS**



**Examination Schedule: (University Examination)**

**B.Sc. OPTOMETRY (FIRST YEAR)**

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS			Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment	Minimum Marks		
1	Anatomy-I (General)	BO-101	3	1	-	70	30	50	100	4
2	Anatomy-II (Ocular)	BO-102	3	-	-	70	30	50	100	3
3	Physiology-I (General)	BO-103	3	1	-	70	30	50	100	4
4	Physiology-II (Ocular)	BO-104	3	-	-	70	30	50	100	3
5	General & Ocular Biochemistry	BO-111	1	1	-	70	30	50	100	2
6	Geometric & Physical Optics	BO-106	1	1	-	70	30	50	100	2
7	Anatomy-I (General) PRACTICAL	BO-101 P	-	-	2	70	30	50	100	1
8	Physiology-I (General) PRACTICAL	BO-103 P	-	-	2	-	100	50	100	1
9	Environmental Studies**	EVS-001	1	-	-	100	-	40	100	1
10	Professional Communication in English*	RIPS-EN	-	1	-	-	100	50	100	1
14.	ELECTIVE		1	1	-	70	30	50	100	2
	Health Care	BO-E1								
	Patient Safety	BO-E2								
TOTAL			10	06	10				1100	24

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.
- Subject marked with (\*\*) will be evaluated and their passing criteria will be in accordance to the UGC norms.

## B.Sc. OPTOMETRY (SECOND YEAR)

S. No.	Subjects	Subject Code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Ocular Disease (Anterior Segment)	BO-201	3	1	-	70	30	50	100	4
2	Visual Optics	BO-202	1	1	-	70	30	50	100	2
3	Clinical Refraction	BO-211	3	1	-	70	30	50	100	4
4	Ophthalmic & Optical Instruments	BO-212	2	1	-	70	30	50	100	3
5	General Pathology & Microbiology	BO-205	3	1	-	70	30	50	100	4
6	General Pharmacology	BO-206	2	-	-	70	30	50	100	2
7	Dispensing Optics	BO-213	2	1	-	70	30	50	100	3
8.	Clinical Refraction (PRACTICAL)	BO-211P	-	-	2	70	30	50	100	1
9.	Ophthalmic & Optical Instruments (PRACTICAL)	BO-212P	-	-	2	70	30	50	100	1
10	General Pathology & Microbiology (PRACTICAL)	BO-205P	-	-	2	70	30	50	100	1
11	Dispensing Optics (PRACTICAL)	BO-213P	-	-	2	70	30	50	100	1
12	Computer*	RIPS-COM	-	1	-	-	100	50	100	1
13	Clinical Posting*	BO-CP1	-	-	4	-	100	50	100	2
<b>TOTAL</b>			<b>16</b>	<b>07</b>	<b>12</b>				<b>1300</b>	<b>29</b>

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.

## B.Sc. OPTOMETRY (THIRD YEAR)

S. No.	Subjects	Subject code	CLASSES			MAXIMUM MARKS		Minimum Marks	Total Marks	Credits per Week
			L	T	P	Theory/ Practical Paper	Internal Assessment			
1	Ocular disease –II (posterior segment)	BO-311	2	1	-	70	30	50	100	3
2	Binocular vision & Orthoptics	BO-312	2	1	-	70	30	50	100	3
3	Contact lens	BO-303	2	1	-	70	30	50	100	3
4	Low vision aids & Visual Rehabilitation	BO-304	1	1	-	70	30	50	100	2
5	Geriatric & pediatric optometry	BO-313	2	1	-	70	30	50	100	3
6	Systemic disease & eye	BO-314	1	1	-	70	30	50	100	2
7	Public Health & Community Medicine and Biostatistics	BO-306	2	-	-	70	30	50	100	2
8	Medical law and ethics	BO-315	2	-	-	70	30	50	100	2
9.	Binocular vision & Orthoptics (Practical)	BO-312P	-	-	2	70	30	50	100	1
10	Contact lens (Practical)	BO-303P	-	-	2	70	30	50	100	1
11.	Low vision aids & Visual Rehabilitation (Practical)	BO-304P	-	-	2	70	30	50	100	1
12.	Geriatric & pediatric optometry (Practical)	BO-313P	-	-	2	70	30	50	100	1
13	Elective Subject	Eye Banking	2	-	-	70	30	50	100	2
		Ocular Prosthesis								
14	Clinical Posting*	BO-CP 2	-	-	4	-	100	50	100	2
<b>TOTAL</b>			<b>16</b>	<b>06</b>	<b>12</b>				<b>1400</b>	<b>28</b>

- If student fails in any theory or practical subject, he/she has to mandatorily give both the papers in Supplementary examinations.
- All subjects to be mentioned in marksheet of students along with credits allotted.
- Subjects mentioned in (\*) are only meant for Internal Assessment and Main University examinations will not be conducted for them.



**B.SC. OPTOMETRY - INTERNSHIP**  
**EXIT EXAMINATION (INTERNSHIP)**

<u>S.NO.</u>	<u>SUBJECT</u>	<u>SUBJECT CODE</u>	<u>THEORY/ PRACTICAL PAPER</u>	<u>MINIMUM MARKS</u>	<u>TOTAL MARKS</u>	<u>CREDITS</u>
1.	PROJECT PRACTICAL	BO-451	40	20	50	3
2.	SEMINAR	BO- 452	10	05	10	2
3.	CASE PRESENTATION		20	10	20	2
			1 LONG CASE & 2 SHORT CASES			
4.	LOG BOOK		10	05	10	2
5.	OBJECTIVE STRUCTURED CLINICAL EXAMINATION (OSCE)/ (OSPE)		10	05	10	1
<b><u>TOTAL</u></b>					<b>100</b>	<b>10</b>

- In exit examination the assessment will be done by one External examiner and one Internal examiner in charge or coordinator.
- The dates of exit examination will be announced separately.

**VALUE ADDED COURSES FOR STUDENTS**

- COMMUNICATION SKILLS & TRAINING- To be studied by B.sc. Optometry first year, second year and Third year students
- MEDICAL LAW AND ETHICS- To be studied by B.sc. Optometry third year students