

**RULES  
FOR  
PARAMEDICAL COURSES  
AT  
RMLIMS**



**DR. RAM MANOHAR LOHIA  
INSTITUTE OF MEDICAL  
SCIENCES**

**VIBHUTI KHAND GOMTI NAGAR**

**LUCKNOW-UP**

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**NEED:** Dr. Ram Manohar Lohia Institute of Medical Sciences Lucknow is a well-established institute with all the lab diagnostic and training facilities available for teaching and training of medical students. At present there is an unmet need of trained manpower for running various patient care services like cardiology, dialysis, OT, Radiotherapy, Radiology, Diagnostic laboratory services as well as research services of tertiary care institutes like Dr. RMLIMS.

Trained graduate of paramedical courses are the backbone of health system with their primary role as pre-hospital medical care to the patients. They serve as lateral healthcare worker in an auxiliary capacity to physician/surgeons. With the advent of technological development of medical sciences, several invasive and non-invasive tools were designed, that reported a sudden upsurge of trained paramedical manpower for the operation of these technical inventions in medical sciences. Specialized trained medical technicians can be certified to provide a wide range of emergency medical services.

**AFFILIATION:** All the paramedical courses do not come under preview of UGC/AICTE/NMC or any other medical board. Therefore affiliation with State Paramedical Council Uttar Pradesh and/or Paramedical Council of India is mandatory. Students will be trained and their degree will be provided by RMLIMS and they would be registered with Paramedical Council of India/ Uttar Pradesh State Medical Faculty.

**DURATION OF TRAINING:**

The duration of all the Bachelor of Science courses shall be of four academic years including internship for one year:

- |                            |          |
|----------------------------|----------|
| a) First Year              | - 1 Year |
| b) Second year             | - 1 Year |
| c) Third Year              | - 1 Year |
| d) Internship of 12 months |          |



## ELIGIBILITY FOR ADMISSION TO THE COURSE

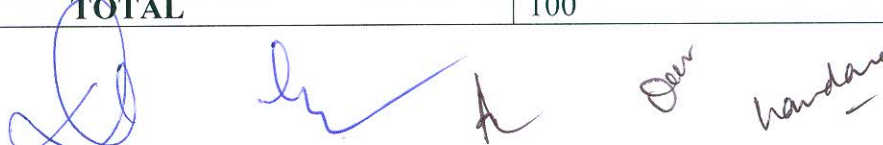
1. The minimum age for admission shall be 17 years and maximum age shall be 25 years as on date as prescribed in the advertisement for admission to the course. Age relaxation to reserved category and sponsored candidates will be as per State Government rules.
2. The minimum educational requirement shall be passing of:  
Higher Secondary School Certificates Examination (12 Years course) i.e. 10+2 or its equivalent examination with Physics, Chemistry, Biology (Botany & Zoology) and/or Mathematics & English securing pass with minimum of 50% marks in aggregate. Further relaxation is permitted to reserved category candidates as per State Government Rules.

## METHODS OF SELECTION

1. Selection of the candidates should be strictly on the basis of merit of the student in the entrance examination held by Institute **or** candidates drawn from another exam as determined by the institute as a common policy for all the BSc Technology programs for example the National Eligibility cum Entrance Test (NEET) conducted by the Central Board of Secondary Education, Delhi for entry to pan India Medical Graduation Programs.
2. The entrance examination will be conducted in English language only.
3. The scheme of entrance examination will be as given below:

There will be one paper of 02 hours duration and consisting of five parts containing objective type multiple choice questions in the following subjects:

PART	SUBJECT	MARKS
A	PHYSICS	20
B	CHEMISTRY	20
C	BIOLOGY	20
D	MATHEMATICS	20
E	GENERAL KNOWLEDGE	10
F	ENGLISH	10
TOTAL		100





4. The general standards of each entrance examination will be that of 12<sup>th</sup> class under the 10+2 scheme or an equivalent examination of an Indian Board/University. No syllabus for entrance examination has been prescribed by the Institute.
5. In case of two or more candidates belonging to the same category obtaining equal marks in the entrance examination, their merit will be determined in order of preference as under:
  - (a) Candidate older in age shall be preferred.
  - (b) Candidate obtaining higher marks in Biology/Mathematics in the entrance examination.
  - (c) Candidate obtaining higher marks in Intermediate (10+2) Biology/Mathematics subject shall placed higher in merit.
6. Sponsored candidate from SAARC countries or from Government Institution will have to take the same test to qualify for the course. However, their merit will be prepared separately. Upper age limit may be relaxed for sponsored and reserved category candidates by 05 years as per U.P. Government rules.

**FEES:** Annual Fees for the course will be as per SGPGIMS, Lucknow norms and is subject to change as per decision of the Institute from time to time:

Particulars	Fees	Remark
Tuition Fess	Rs. 50,000/-	Annual
Caution Money	Rs. 10,000/-	Once at the time of admission. Refundable on completion of the course
Annual examination fees	Rs. 2000/-	Per examination
Supplementary examination fees	Rs. 500/-	Per examination
Re-evaluation fees	Rs. 400/-	Per subject
Hostel charges	Rs. 6000/- (excluding mess charges)	Annual, if provided in the Institute

**TOTAL NUMBER OF TRAINEES:**

Minimum five students/trainees will be admitted in each course in each academic session including maximum 01 sponsored candidates from SAARC or developing countries or from the Government institutions of the country. However, if sponsored candidates are not available then seats may be filled up from open students.

**HOSTEL FACILITY:** Hostel will be provided to the students in the campus, if available.

**STIPEND:** No stipend will be paid to the students during the course. However students during the internship will be paid as stipend of Rs 5000/- per month (fixed) subject to approval by competent authority. Sponsored candidates will not be entitled for stipend.

**ACADEMIC YEAR:** Academic sessions for all the B.Sc. courses will normally start from 1<sup>st</sup> August every year. However no admission will be made beyond 30<sup>th</sup> September every year.

**MEDIUM OF INSTRUCTIONS:** English will be the medium of instructions for study and examination of the course including entrance examination.

**FACULTY FOR TRAINING:**

1. Faculty, Paramedical Institute, RMLIMS, Lucknow
2. Faculty from concerned department for which B.Sc course is being conducted, RMLIMS, Lucknow
3. Support faculty from various departments as per subject specific course content may be provided as and when required.
4. Guest faculty on honorarium/remuneration basis and when required for specialized teaching as approved at RMLIMS.



5. Adjunct faculty as and when required for specialized teaching as per norms approved by the Academic Board of our institute.

**TRAINING PROGRAMME:** The training will be organized on yearly basis split over four years including one year internship. Emphasis will be on practical training with candidates posted in the concerned department supplemented with lectures and tutorials, demonstration on relevant subjects.

The classes in main and subsidiary subjects are to be held from Monday to Thursday. On Fridays and Saturdays students shall work in hospital in the respective specialty or department.

#### **Subsidiary Subjects**

English	- 40 Hours
Health- Care	- 30 Hours
Introduction to Computer Application	- 30 Hours

#### **FOURTH YEAR:**

Compulsory rotatory internship of one year. The students may be posted for training anywhere, anytime including rural posting as decided by the concerned Head of the Departments.

#### **CURRICULUM:**

B.Sc. courses in each discipline/subjects is a four year integrated programme consisting of academic learning, practical training and clinical posting in order to integrate theory with practice and including internship of one year. Syllabus for each subject will be designed with an objective that at the end of training programme that candidates should have acquired sufficient knowledge, expertise & understanding of the basis & advance technology related to





concerned subjects and research. Syllabus of the courses will be approved by the Academic Board of the institute.

### **METHODS OF TRAINING:**

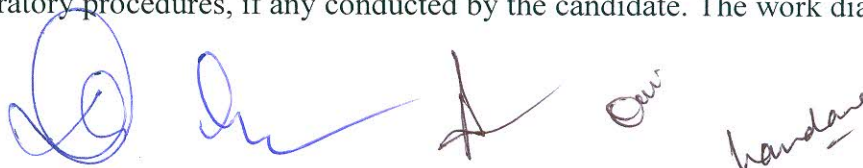
The B.Sc. degree courses shall be on a full time pattern with graded responsibilities in the management and treatment of patients entrusted to his/her care. Training will include involvement in functioning of medical/ laboratory equipment, performing different diagnostic tests on patients/ different types of human samples, experimental work and research studies. The participation of the students in all facets of educational process is essential. Every candidate should take part in seminars, group discussions, clinical rounds, case demonstration, journal review meetings and other continuing medical education (CME) activities.

### **MONITORING THE PROGRESS OF STUDIES:**

(i) **Internal Monitoring:** It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring shall be done by the staff of the concerned department based on participation of the students in various teaching/learning activities.

**Note:** *Student must secure at least 50% of total marks fixed for internal assessment in order to be eligible to appear in examination in that subject. The internal assessment marks will not be added to the marks obtained in the institute examination for declaration of pass.*

(ii) **Work Diary:** Every candidate shall maintain a work diary and record of his/her participation in the training programs conducted by the department such as journal reviews, seminars etc. Special mention should be made of the presentations by the candidate as well as details of clinical or laboratory procedures, if any conducted by the candidate. The work diary



shall be scrutinized and certified by the head of the department and presented in the university examination.

(iii) **Periodic Tests:** The department will conduct six test, one of them be midterm and other prefinal test during each year (first, second and third year) of the course. The test may be conducted at the department level and include written theory papers, practical, viva voce and clinical in the pattern of university examination. Records and marks obtained in such tests shall be used for internal assessment and be maintained by the head of the department. Feed back to the students will be given at the earliest to improve the performance.

Internal assessment will be of 100 marks for each year and will be taken as average of marks obtained by the students for assessments at the end of every departmental posting and course module every year.

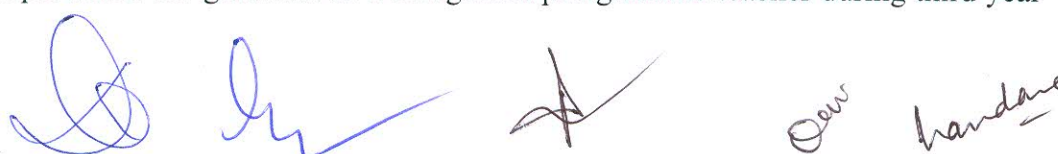
## **EXAMINATION:**

### **A. Theory and Practical examination:**

There shall be three examinations one each at the end of first, second and third year. Promotion to the next year will be based on passing the previous examination in at least three out of four papers. A maximum of two additional attempts for each paper will be permissible. The joining for the course in the second and third year will be open only to those candidates who have passed the examination for the first or second year respectively and who have remained on the rolls of the course for the preceding year having attended not less than 80% of full course of lectures, practical and departmental posting separately. Each annual examination will have theory papers, each of 100 marks and [practical examination of 50 marks each year. Internal assessment marks will be added together.

### **B. Dissertation/Project:**

Each candidate pursuing Bachelors degree course is required to carry out dissertation work on a selected topic under the guidance of a recognized postgraduate teacher during third year





for a period of six months after the submission of synopsis. The results of such a work shall be submitted in the form of dissertation.

The aim of doing dissertation is to train the candidate in research methods and techniques. It includes identification of problem, formulation of hypothesis, search and review of literature, getting acquainted with recent advances, collection of data, critical analysis, interpretation of results and drawing conclusions.

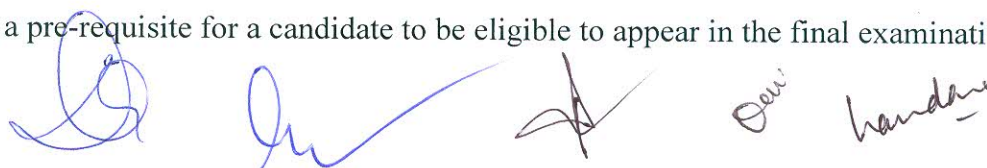
Every candidate shall submit two hard copies of synopsis containing particulars of proposed dissertation work within three months from the commencement of the course or on a date notified by the university in the prescribed performa. The synopsis shall be sent through proper channel.

The departmental committee shall arrange for review of synopsis and if found suitable shall register the dissertation topic. No change in the dissertation topic or guide shall be made without prior approval of the departmental committee.

The dissertation shall be written under the following headings:- Introduction, Aims and Objectives of the study, Review of Literature, Material and Methods, Observations, Discussion, Conclusion, Summary, Bibliography, Tables and Diagrams, Annexure (if any), Statistical analysis, Master chart.

The written text of dissertation shall not be less than 50 pages and shall not exceed 100 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 27" x 11.69") and bound properly. Spiral binding should not be done. A declaration by the candidate that the work was done by him/her shall be included. The guide and head of the department shall certify the bonafide of the dissertation.

Four copies of dissertation shall be submitted to the institute through proper channel along with a soft copy, three months before the final examination. It shall be assessed by two examiners appointed by the university, one internal and one external. Acceptance of the dissertation is a pre-requisite for a candidate to be eligible to appear in the final examination.

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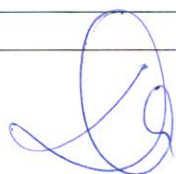
Guide for dissertation: Guide of a student shall be a full time teacher in the institute. Guide should be MD/PhD in concerned subject.

Age of guide: The age of guide shall not exceed 65 years.

Student-Guide ratio: A recognized guide shall supervise dissertation work as decided by the concerned head of the department.

**ALLOTMENT OF MARKS:** The allotment of marks for each course in first year, second year and third year of final examination should include theory, practical and internal assessment as under:-

<b>FIRST YEAR</b>	
Theory Papers:	
Paper I	100
Paper II	100
Paper III	100
Paper IV	100
Subsidiary subjects: English, Health Care and Introduction to Computer Application	200 (75 + 75 +50 respectively)
Practical and Viva voce Examination	200
Internal Assessment	100
<b>Total</b>	<b>900</b>
<b>SECOND YEAR</b>	
Theory Papers:	
Paper I	100
Paper II	100
Paper III	100
Paper IV	100
Subsidiary subjects: Medical Sociology, Environmental Sciences and Health Care	200 (75 + 75 +50 respectively)
Practical and Viva voce Examination	200
Internal Assessment	100
<b>Total</b>	<b>900</b>
<b>THIRD YEAR</b>	
Theory Papers:	
Paper I	100
Paper II	100
Paper III	100
Paper IV	100
Subsidiary subjects: Ethics, data Base Management, Research and Biostatistics	100 (25 + 25 +50 respectively)
Practical and Viva voce Examination	200
Internal Assessment	100
Dissertation	100
<b>Total</b>	<b>900</b>



**ATTENDANCE:** Candidate must have minimum 80% attendance (irrespective of the kind of absence) of the total number of classes in theory and practical conducted in an academic year from the date of commencement of the session to the last working day as notified by the institute in each of the subjects prescribed for that year separately in theory and practical.

Special classes conducted for any purpose shall not be considered for the calculation of percentage of attendance for eligibility.

A candidate lacking in prescribed percentage of attendance in any subjects either in theory or practical in the first appearance will not be eligible to appear for the examination in that subject.

#### **APPOINTMENT OF EXAMINERS:**

1. Convenor:- Course coordinator/Head of the concerned Department, RMLIMS, Lucknow.
2. Internal Examiner:- Assistant Course Coordinator/ Faculty of the concerned Department, RMLIMS, Lucknow, nominated by Dean RMLIMS, Lucknow.
3. External Examiner:- Faculty of the concerned Department, of other institutions, nominated by Dean RMLIMS, Lucknow on recommendation of the Sub-dean Paramedical RMLIMS, Lucknow.

#### **PASS CRITERIA:**

1. A candidate has to obtain minimum 50% marks in each theory, practical papers and internal assessment.
2. The candidate will be declared pass in a particular year only if he/she has obtained 50% aggregate marks in the examination.
3. If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and Practical).





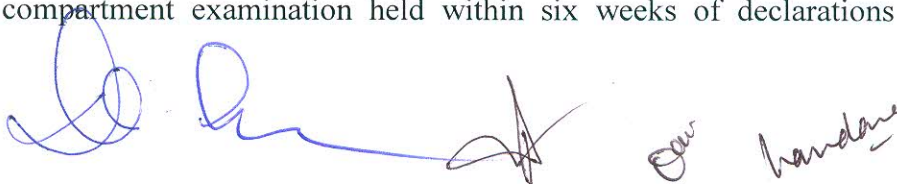
4. Maximum number of attempts permitted for each paper is three including first attempt.
5. A candidate failing in more than one subject will not be promoted to the next year.
6. The name of a student will be struck off from the course, if he/she does not clear the examination in full two academic years.

#### **COMPARTMENT:**

1. Candidate who fails in only one subject will be placed in the compartment provided he/she secures at least 30% marks in theory as well as in practical individually.
2. Such candidate will be given only two chances to clear the compartment examination, which will be held within six weeks of declaration of the results.
3. The candidate placed in compartment will be required to appear both in theory and practical.
4. If a candidate fails to appear in the supplementary examinations for any reasons it will be considered that he/she has availed a chance.
5. However, the candidate who is placed in the compartment in First Year will be allowed to attend the classes of second year.
6. The candidate who is taking compartment examination of first year along with second year examinations, his/her result of second year will be declared only if he/she passes first year examinations.
7. In case he/she fails to clear the compartment examinations in two subsequent attempts, he/she would deem to have failed and his/her name will be struck off from the rolls.

#### **COMPARTMENT IN THE SECOND YEAR:**

1. A candidate of second year will also be eligible to avail two additional chances to clear the compartment examination held within six weeks of declarations of the results.

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2. However, if he/she fails to clear the compartment examinations, in two attempts he/she will be required to reappear in the whole examinations of second year.

**GRACE MARKS:** There will be no grace marks in the examinations.

**FAILURE:** A candidate who fails in more than one theory paper will not be promoted to the next year. He will be declared as “FAILED” for that year and has to repeat the year and appear for all the theory and practical papers. Candidate who fails in First year or Second year examinations will be given only two chances to clear the examinations and in case he/she fails to appear in the subsequent examinations it would be considered that he/she has availed a chance. A student who does not take the annual examination after failing in the previous annual examinations of any year or who fails a second time, his name will be struck off the course.

**RESULT:**

1. The Dr Ram Manohar Lohia institute of Medical Sciences, Lucknow will publish the result of examination as soon as possible after the examination has been held.
2. Successful candidates shall be clarified as under on the basis of aggregate marks obtained in all the examination taken together:
  - a) Those who obtained less than 60% 2<sup>nd</sup> Division
  - b) Those who obtained 60% or more 1<sup>st</sup> Division
  - c) Those who obtained 75% or more Distinction in the subjects concerned marks in the subjects and /or aggregate

**AWARD OF DEGREE:**

The degree of Bachelor of Science in concerned courses will be awarded to the candidate only after he/she completed the following:



- a) Has passed all the examinations of 1<sup>st</sup> year, 2<sup>nd</sup> year and 3<sup>rd</sup> year.
- b) Has satisfactory completed the full period of internship of one year and
- c) His/her work and conduct during the period of training has been satisfactory
- d) Degree will be awarded at the convocation held at the Institute after completion of the course and candidate is declared passed.

**VACATION:** Students will observe vacations as under:

- a) Winter break 10 days in December
- b) Summer break 10 days in June
- c) Sick leave 10 days

**GENERAL:** Notwithstanding the integrated nature of these courses which are spread over more than three academic years, the ordinance in force at the time a student joins the course shall held good only for the examination held during or at the end of the academic year and nothing in this ordinance shall be deemed to debar the Institute from amending the ordinance and the amended ordinance, if any, shall apply to all the students, whether old or new.



**Dr. Naveen Jamwal**  
**Member**  
Professor Jr Grade  
Department of Cardiology  
RMLIMS, Lucknow



**Dr. Abdul Qavi**  
**Member**  
Associate Professor  
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**Dr. Anoop Srivastava**  
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Professor Jr Grade  
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**Dr. Vandana Tiwari**  
**Member Secretary**  
Sub-Dean Paramedical  
RMLIMS, Lucknow



**Dr. Gaurav Raj Agarwal**  
**Chairman**  
Head, Radio diagnosis  
RMLIMS, Lucknow