



सत्यमेव जयते

## **National Commission for Allied and Healthcare Professions**

### **Competency Based Curriculum for Medical Laboratory Sciences**



**As per NCAHP Act 2021**

# **APPROVED SYLLABUS 2025**



**Ministry of Health and Family Welfare**



# Chapter 4

## Curriculum -Bachelor of Medical Laboratory Science

## Background

**Bachelor of Medical Laboratory Science (BMLS)** is an undergraduate degree program designed to prepare students for a professional career in **clinical laboratory science**, which plays a critical role in diagnosing, treating, and monitoring diseases. The course is designed to be of 4 years duration (including one year compulsory internship).

- **Eligibility for admission:** The candidate must have passed Higher Secondary (10+2) or equivalent examination recognised by any Indian Board or a duly constituted Board or National Open School with at least 50% marks in aggregate of physics, chemistry and biology (botany & zoology).
- Admission to Bachelor of Medical Laboratory Science program shall be made on the basis of NEET examination and merit list based on 10+2 marks.
- Candidates who have studied abroad and have possess equivalent qualification as determined by the Association of Indian Universities and Equivalence Committee of the NCAHP and fulfil the above criteria shall also be eligible for admission.
- Candidates must be 17 years as on December 31 of the year of admission to first year of BMLS course.
- Candidates must furnish a certificate of Physical fitness from an Authorized Medical Professional, at the time of application, to ascertain that the candidate does not have any physical disability
- **Degree Awarded:** Bachelor's of Medical Laboratory Science (BMLS)
- **Medium of instruction:** English
- **Lateral Entry for candidates with Diploma in Medical Laboratory Science:** Candidates who have obtained Diploma in Medical Laboratory Science from recognised Universities/Institutions will be eligible for direct admission to Second year of BMLS course. Only 10% of sanctioned strength of BMLS course can be allotted to Lateral entry candidates, based on on merit.

### Program Objectives:

- Equip students with knowledge of laboratory procedures across **haematology, clinical biochemistry, microbiology, immunology, histopathology, and molecular diagnostics**.
- Train students to operate, maintain, and troubleshoot modern diagnostic equipment.
- Emphasize quality control, laboratory safety, and ethical practice.
- Develop critical thinking and diagnostic interpretation skills.

### **Core Subjects included in the curriculum are:**

1. Human Anatomy & Physiology
2. Biochemistry
3. Pathology
4. Microbiology
5. Hematology
6. Immunology & Serology
7. Blood Banking & Transfusion Science
8. Clinical Biochemistry
9. Histopathology & Cytology
10. Molecular Biology & Genetics
11. Laboratory Management & Quality Assurance
12. Research Methodology

The course curriculum is designed to provide special emphasis on hands-on lab sessions in hospital or diagnostic laboratories, Internships in clinical settings, in the final year

### **Career Opportunities:**

Upon successful completion of the course, Graduates can work as:

- **Medical Laboratory Technologists**
- **Clinical Research Assistants**
- **Clinical Lab Managers**
- **Quality Control Officers**
- **Molecular Lab Technologists**

In Hospitals, Diagnostic labs, Blood banks, pharmaceutical companies, public health organizations, Research institutions

Students also have higher studies options including, Master of Medical Laboratory Science, M.Sc. in disciplines like Microbiology, Biochemistry, or Biotechnology, MBA in Hospital or Healthcare Management



## Learning objectives

### 1. Foundational Knowledge

- Understand the normal structure and function of the human body.
- Explain the pathophysiological basis of disease and how laboratory tests aid diagnosis.
- Apply knowledge of microbiology, hematology, biochemistry, immunology, and molecular biology to clinical scenarios.

### 2. Laboratory Skills

- Perform routine and specialized laboratory tests accurately in various disciplines (e.g., hematology, microbiology, clinical chemistry, histopathology).
- Operate, calibrate, and maintain laboratory instruments and equipment.
- Collect, handle, and process biological specimens following safety and quality standards.

### 3. Quality Assurance & Safety

- Implement quality control procedures to ensure accuracy and reliability of test results.
- Adhere to biosafety and infection control guidelines in all laboratory practices.
- Identify and troubleshoot pre-analytical, analytical, and post-analytical errors.

### 4. Critical Thinking & Problem Solving

- Analyze and interpret laboratory data for clinical relevance.
- Recognize abnormal results and understand their diagnostic implications.
- Apply logical reasoning to solve technical problems and improve procedures.

### 5. Communication & Collaboration

- Communicate effectively with healthcare professionals, patients, and laboratory teams.
- Maintain clear and accurate laboratory records and reports.
- Demonstrate professional and ethical behavior in a clinical setting.

### 6. Research & Lifelong Learning

- Understand the principles of scientific research and evidence-based practice.
- Participate in small-scale research or projects related to laboratory science.
- Stay updated with current advances in laboratory medicine and emerging technologies.

## 7. Professional Development

- Demonstrate responsibility, initiative, and time management in professional duties.
- Understand legal and ethical issues in laboratory practice.
- Prepare for national certification or licensing exams, if applicable.

## PROGRAM OUTCOMES (POs)

Upon successful completion of the BMLS program, students will be able to:

| POs   | Outcome                                                                                                                                                                                       |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PO1   | <b>Apply scientific knowledge</b> in professional healthcare practice.                                                                                                                        |
| PO2   | <b>Demonstrate clinical and technical skills</b> to deliver quality healthcare services.                                                                                                      |
| PO3   | <b>Collaborate effectively in teams</b> within an interdisciplinary healthcare setting to improve societal health.                                                                            |
| PO4   | <b>Uphold ethical values and professionalism</b> within the legal framework of society.                                                                                                       |
| PO5   | <b>Communicate effectively</b> with healthcare teams and the community.                                                                                                                       |
| PO6   | <b>Practice evidence-based medicine</b> to ensure high-quality professional performance.                                                                                                      |
| PO7   | <b>Engage in continuous learning</b> and adapt to technological advancements for professional growth.                                                                                         |
| PO8   | <b>Exhibit entrepreneurial, leadership, and mentorship skills</b> for independent practice and collaborative work in healthcare.                                                              |
| PO9   | Demonstrates an appropriate use of information and communication technology relevant to their field.                                                                                          |
| PO 10 | <b>Takes responsibility for personal and professional development</b> and demonstrates an obligation to maintain competency by applying newly acquired knowledge or abilities to patient care |

## Program Specific Outcomes (PSO)

| POs   | Outcome                                                                                                                                                                                                                                    |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PSO-1 | Proficiently perform a full range of clinical laboratory tests, develop and evaluate test systems and interpretive algorithms and should be able to work on automated machines.                                                            |
| PSO-2 | Manage information to enable effective, timely, accurate, and cost-effective reporting of laboratory-generated information and make specimen-oriented decisions on predetermined criteria, including working knowledge of critical values. |
| PSO-3 | Process information and ensure quality control as appropriate to routine laboratory procedures.                                                                                                                                            |

## GRADUATE ATTRIBUTES

Upon graduation, students from this **institution** will possess the following attributes:

| S. No. | Attribute                                  | Description                                                        |
|--------|--------------------------------------------|--------------------------------------------------------------------|
| 1      | <b>Knowledge and Understanding</b>         | Apply scientific knowledge and critical thinking in their field.   |
| 2      | <b>Communication &amp; Professionalism</b> | Communicate effectively with diverse audiences in various formats. |
| 3      | <b>Critical Thinking</b>                   | Analyse information and solve problems logically.                  |
| 4      | <b>Inquiry and Research</b>                | Ask questions, investigate, and pursue new knowledge.              |
| 5      | <b>Digital Literacy</b>                    | Use digital tools and technologies effectively and responsibly.    |
| 6      | <b>Professionalism &amp; Ethics</b>        | Act ethically, responsibly, and professionally.                    |



| S. No. | Attribute                          | Description                                                     |
|--------|------------------------------------|-----------------------------------------------------------------|
| 7      | <b>Lifelong Learning</b>           | Continuously seek and acquire new knowledge and skills.         |
| 8      | <b>Leadership &amp; Teamwork</b>   | Lead and work effectively in diverse teams.                     |
| 9      | <b>Interdisciplinary Skills</b>    | Work effectively across different fields of study.              |
| 10     | <b>Social Responsibility</b>       | Contribute positively to society and understand global issues.  |
| 11     | <b>Multi-cultural Competence</b>   | Work respectfully and effectively in diverse cultural settings. |
| 12     | <b>Competence &amp; Capability</b> | Perform their professional duties effectively and skillfully.   |

## CURRICULUM OUTLINE

### BMLS FIRST SEMESTER

| COURSE NAME                                                                  | Lecture   | Tutorial | Practical | Credits   | Contact Hours |
|------------------------------------------------------------------------------|-----------|----------|-----------|-----------|---------------|
| Human Anatomy                                                                | 3         | 1        | 0         | 4         | 60            |
| Human Physiology                                                             | 3         | 1        | 0         | 4         | 60            |
| Fundamentals of the Healthcare System and Medical Laboratory Science (MLS) # | 2         | 0        | 0         | 2         | 30            |
| Communication and Professionalism#                                           | 2         | 0        | 0         | 2         | 30            |
| Basic Emergency care and First aid                                           | 1         | 1        | 0         | 2         | 30            |
| Basics of Computer Application                                               | 1         | 0        | 1         | 2         | 45            |
| Human Anatomy practical                                                      | 0         | 0        | 4         | 2         | 60            |
| Human Physiology practical                                                   | 0         | 0        | 4         | 2         | 60            |
| <b>Total</b>                                                                 | <b>12</b> | <b>3</b> | <b>9</b>  | <b>20</b> | <b>375</b>    |

### BMLS SECOND SEMESTER

| COURSE NAME                            | Lecture   | Tutorial | Practical | Credits   | Contact Hours |
|----------------------------------------|-----------|----------|-----------|-----------|---------------|
| Fundamentals of Microbiology           | 4         | 0        | 0         | 4         | 60            |
| Basics of Biochemistry                 | 4         | 0        | 0         | 4         | 60            |
| Fundamentals of Haematology            | 4         | 0        | 0         | 4         | 60            |
| Preventive and Social Medicine         | 2         | 0        | 0         | 2         | 30            |
| Fundamentals of Microbiology Practical | 0         | 0        | 4         | 2         | 60            |
| Basics of Biochemistry Practical       | 0         | 0        | 4         | 2         | 60            |
| Fundamentals of Haematology Practical  | 0         | 0        | 4         | 2         | 60            |
| <b>Total</b>                           | <b>14</b> | <b>0</b> | <b>12</b> | <b>20</b> | <b>390</b>    |

### BMLS THIRD SEMESTER

| COURSE NAME                                         | Lecture   | Tutorial | Practical | Credits   | Contact Hours |
|-----------------------------------------------------|-----------|----------|-----------|-----------|---------------|
| Bacteriology                                        | 4         | 0        | 0         | 4         | 60            |
| Intermediary Metabolism and Endocrinology           | 4         | 0        | 0         | 4         | 60            |
| Clinical Haematology                                | 4         | 0        | 0         | 4         | 60            |
| Basics of Pharmacology                              | 2         | 0        | 0         | 2         | 30            |
| Bacteriology Practical                              | 0         | 0        | 4         | 2         | 60            |
| Intermediary Metabolism and Endocrinology Practical | 0         | 0        | 4         | 2         | 60            |
| Clinical Haematology- Practical                     | 0         | 0        | 4         | 2         | 60            |
| <b>Total</b>                                        | <b>14</b> | <b>0</b> | <b>12</b> | <b>20</b> | <b>390</b>    |

### BMLS FOURTH SEMESTER

| COURSE NAME                                       | Lecture   | Tutorial | Practical | Credits   | Contact Hours |
|---------------------------------------------------|-----------|----------|-----------|-----------|---------------|
| Virology and Immunology                           | 4         | 0        | 0         | 4         | 60            |
| Genetics and Molecular Biology                    | 4         | 0        | 0         | 4         | 60            |
| Clinical Pathology                                | 4         | 0        | 0         | 4         | 60            |
| Medical Laboratory Management and Quality Control | 2         | 0        | 0         | 2         | 30            |
| Virology and Immunology Practical                 | 0         | 0        | 4         | 2         | 60            |
| Genetics and Molecular Biology Practical          | 0         | 0        | 4         | 2         | 60            |
| Clinical Pathology Practical                      | 0         | 0        | 4         | 2         | 60            |
| <b>Total</b>                                      | <b>14</b> | <b>0</b> | <b>12</b> | <b>20</b> | <b>390</b>    |

## BMLS FIFTH SEMESTER

| COURSE NAME                                         | Lecture   | Tutorial  | Practical | Credits   | Contact Hours |
|-----------------------------------------------------|-----------|-----------|-----------|-----------|---------------|
| Mycology & Parasitology                             | 4         | 0         | 0         | 4         | 60            |
| Analytical Biochemistry                             | 4         | 0         | 0         | 4         | 60            |
| Immunohematology and Transfusion Medicine           | 4         | 0         | 0         | 4         | 60            |
| Medical Law and Ethics                              | 2         | 0         | 0         | 2         | 30            |
| Mycology & Parasitology Practical                   | 0         | 0         | 4         | 2         | 60            |
| Analytical Biochemistry Practical                   | 0         | 0         | 4         | 2         | 60            |
| Immunohematology and Transfusion Medicine Practical | 0         | 0         | 4         | 2         | 60            |
| <b>Total</b>                                        | <b>14</b> | <b>00</b> | <b>12</b> | <b>20</b> | <b>390</b>    |

## BMLS SIXTH SEMESTER

| COURSE NAME                            | Lecture   | Tutorial | Practical | Credits   | Contact Hours |
|----------------------------------------|-----------|----------|-----------|-----------|---------------|
| Applied Pathobiology                   | 4         | 0        | 0         | 4         | 60            |
| Cytology and Histopathology            | 4         | 0        | 0         | 4         | 60            |
| Clinical Biochemistry                  | 4         | 0        | 0         | 4         | 60            |
| Biostatistics and Research Methodology | 2         | 0        | 0         | 2         | 30            |
| Cytology and Histopathology Practical  | 0         | 0        | 4         | 2         | 60            |
| Clinical Biochemistry Practical        | 0         | 0        | 4         | 2         | 60            |
| Applied Pathobiology Practical         | 2         | 0        | 0         | 2         | 60            |
| <b>TOTAL</b>                           | <b>16</b> | <b>0</b> | <b>8</b>  | <b>20</b> | <b>390</b>    |

## BMLS SEVENTH & EIGHTH SEMESTER

| Course Name                                             | Credit | Contact Hours |
|---------------------------------------------------------|--------|---------------|
| INTERNSHIP (clinical lab posting/research dissertation) | 20+20  | 900+900       |
| TOTAL                                                   | 40     | 1800          |

**Total credits** = 160 credits

**Total Contact hours** = 4125

**Contact hours of all semesters** = (375+ 390+390+390+390+390) + (900+900)

### Credit Details:

- **Lecture / Tutorial: 1 credit** = 15 hours
- **Practical: 1 credit** = 30 hours
- **Clinical Lab postings: 1 credit** = 45 hours

Credit Includes: L – Lectures, T - Tutorials, P - Practical.





## MARKS DISTRIBUTION

### BMLS FIRST SEMESTER

| COURSE NAME                                                                  | Continuous assessment | End Semester Examination | Total      |
|------------------------------------------------------------------------------|-----------------------|--------------------------|------------|
| Human Anatomy                                                                | 30                    | 70                       | 100        |
| Human Physiology                                                             | 30                    | 70                       | 100        |
| Fundamentals of the Healthcare System and Medical Laboratory Science (MLS) # | 15                    | 35                       | 50         |
| Communication and Professionalism#                                           | 15                    | 35                       | 50         |
| Basic Emergency care and First aid                                           | 30                    | 70                       | 100        |
| Basics of Computer Application                                               | 30                    | 70                       | 100        |
| Human Anatomy practical                                                      | 30                    | 70                       | 100        |
| Human Physiology practical                                                   | 30                    | 70                       | 100        |
| <b>TOTAL</b>                                                                 |                       |                          | <b>700</b> |
| <b># Non-University Exams</b>                                                |                       |                          |            |

### BMLS SECOND SEMESTER

| COURSE NAME                            | Continuous assessment | End Semester Examination | Total      |
|----------------------------------------|-----------------------|--------------------------|------------|
| Fundamentals of Microbiology           | 30                    | 70                       | 100        |
| Basics of Biochemistry                 | 30                    | 70                       | 100        |
| Fundamentals of Haematology            | 30                    | 70                       | 100        |
| Preventive and Social Medicine         | 30                    | 70                       | 100        |
| Fundamentals of Microbiology Practical | 30                    | 70                       | 100        |
| Basics of Biochemistry Practical       | 30                    | 70                       | 100        |
| Fundamentals of Haematology Practical  | 30                    | 70                       | 100        |
| <b>Total</b>                           |                       |                          | <b>700</b> |

### BMLS THIRD SEMESTER

| <b>COURSE NAME</b>                                  | <b>Continuous assessment</b> | <b>End Semester Examination</b> | <b>Total</b> |
|-----------------------------------------------------|------------------------------|---------------------------------|--------------|
| Bacteriology                                        | 30                           | 70                              | 100          |
| Intermediary Metabolism and Endocrinology           | 30                           | 70                              | 100          |
| Clinical Haematology                                | 30                           | 70                              | 100          |
| Basics of Pharmacology                              | 30                           | 70                              | 100          |
| Bacteriology Practical                              | 30                           | 70                              | 100          |
| Intermediary Metabolism and Endocrinology Practical | 30                           | 70                              | 100          |
| Clinical Haematology- Practical                     | 30                           | 70                              | 100          |
| <b>Total</b>                                        |                              |                                 | <b>700</b>   |

### BMLT FOURTH SEMESTER

| <b>COURSE NAME</b>                                | <b>Continuous assessment</b> | <b>End Semester Examination</b> | <b>Total</b> |
|---------------------------------------------------|------------------------------|---------------------------------|--------------|
| Virology and Immunology                           | 30                           | 70                              | 100          |
| Genetics and Molecular Biology                    | 30                           | 70                              | 100          |
| Clinical Pathology                                | 30                           | 70                              | 100          |
| Medical Laboratory Management and Quality Control | 30                           | 70                              | 100          |
| Virology and Immunology Practical                 | 30                           | 70                              | 100          |
| Genetics and Molecular Biology Practical          | 30                           | 70                              | 100          |
| Clinical Pathology Practical                      | 30                           | 70                              | 100          |
| <b>Total</b>                                      |                              |                                 | <b>700</b>   |

## BMLS FIFTH SEMESTER

| <b>COURSE NAME</b>                                  | <b>Continuous assessment</b> | <b>End Semester Examination</b> | <b>Total</b> |
|-----------------------------------------------------|------------------------------|---------------------------------|--------------|
| Mycology & Parasitology                             | 30                           | 70                              | 100          |
| Analytical Biochemistry                             | 30                           | 70                              | 100          |
| Immunohematology and Transfusion Medicine           | 30                           | 70                              | 100          |
| Medical Law and Ethics                              | 30                           | 70                              | 100          |
| Mycology & Parasitology Practical                   | 30                           | 70                              | 100          |
| Analytical Biochemistry Practical                   | 30                           | 70                              | 100          |
| Immunohematology and Transfusion Medicine Practical | 30                           | 70                              | 100          |
| <b>Total</b>                                        |                              |                                 | <b>700</b>   |

## BMLS SIXTH SEMESTER

| <b>COURSE NAME</b>                     | <b>Continuous assessment</b> | <b>End Semester Examination</b> | <b>Total</b> |
|----------------------------------------|------------------------------|---------------------------------|--------------|
| Applied Pathobiology                   | 30                           | 70                              | 100          |
| Cytology and Histopathology            | 30                           | 70                              | 100          |
| Clinical Biochemistry                  | 30                           | 70                              | 100          |
| Biostatistics and Research Methodology | 30                           | 70                              | 100          |
| Cytology and Histopathology Practical  | 30                           | 70                              | 100          |
| Clinical Biochemistry Practical        | 30                           | 70                              | 100          |
| Applied Pathobiology Practical         | 30                           | 70                              | 100          |
| <b>TOTAL</b>                           |                              |                                 | <b>700</b>   |

## BMLS SEVENTH & EIGHTH SEMESTER

| COURSE NAME                                           | Continuous Assessment | End Semester Examination | Total      |
|-------------------------------------------------------|-----------------------|--------------------------|------------|
| Lab Posting/ Research Dissertation (Logbook and Viva) | 90                    | 210                      | 300        |
| Lab Posting/Research Dissertation (Logbook and Viva)  | 90                    | 210                      | 300        |
| <b>Total</b>                                          |                       |                          | <b>600</b> |

**Credit Distribution:** Each semester would consist of a minimum of 20 credits. The credit distribution hours for Lecture, Tutorial, Practical, and Clinics are as follows:

Credit Details:

**Lecture / Tutorial: 1 credit = 15 hours; Practical: 1 credit = 30 hours; Clinical/ Lab Posting: 1 credit = 45 hours**

Credit Includes: L – Lectures, T- Tutorials, P- Practical

Undergraduate Program Requirements: A minimum of **160** credits is required for the BMLS

A program of 4 years duration, inclusive of a one-year internship (Lab posting /research dissertation).

### Promotion Criteria to higher semesters:

The eligibility for promotion to the next academic year is subject to securing the minimum academic performance as specified below

- First to second year: a minimum of 70% of the credits at the end of the first year (includes first and second semester)
- Second to third year: a cumulative minimum of 80% of the credits at the end of the second year (includes first, second, third and fourth semester)
- Third year to Internship/group project: Students will be eligible for internship (Lab posting/ research dissertation) only after successful completion of the entire coursework, i.e. 100% credits to be accrued by the end of the third year.

The student must complete all the coursework requirements within a maximum of double the program duration. For example, in a 4-year program, all the academic coursework needs to be completed within 8 years. Failure to do so will result in exit from the program.

## Weightage distribution

| Item                             | Weightage (%) |
|----------------------------------|---------------|
| <b>Formative</b>                 |               |
| Class participation/presentation | 5%            |
| Assignment & quizzes             | 5%            |
| Sessional exams                  | 20%           |
| <b>Summative</b>                 |               |
| End-of-Semester University exam  | 70%           |
| <b>Total</b>                     | <b>100 %</b>  |

- Any components/ activities that need to be evaluated as part of the internship, without reflecting them in the CGPA

## Point grading system (credit value)

| Letter Grade | A+ | A | B | C | D | E | F/I/DT |
|--------------|----|---|---|---|---|---|--------|
| Credit value | 10 | 9 | 8 | 7 | 6 | 5 | 0      |

F- Fail, DT - Detained/Attendance shortage, I – Incomplete

| Internals Weightage (%) | End semester Exam Weightage (%) |
|-------------------------|---------------------------------|
| 30                      | 70                              |

**Calculation of GPA & CGPA: An example is provided**

| Course code  | Course     | Credits (a) | Grade obtained by the student | Credit value (b) | Grade Points (a x b) |
|--------------|------------|-------------|-------------------------------|------------------|----------------------|
| BMLS 1       | Course - 1 | 4           | D                             | 6                | 24                   |
| BMLS 2       | Course - 2 | 4           | B                             | 8                | 32                   |
| BMLS 3       | Course - 3 | 3           | A+                            | 10               | 30                   |
| BMLS 4       | Course - 4 | 4           | C                             | 7                | 28                   |
| BMLS 5       | Course - 5 | 5           | A                             | 9                | 45                   |
| <b>TOTAL</b> |            | <b>20</b>   | <b>-</b>                      | <b>-</b>         | <b>159</b>           |

**1<sup>st</sup> Semester GPA** = Total grade points / total credits

$$159/20 = 7.95$$

Suppose in the **2<sup>nd</sup> semester, GPA = 8.35** with respective course credit 20

$$\text{Then, } 1^{\text{st}} \text{ Year CGPA} = \frac{(7.95 \times 20) + (8.35 \times 20)}{20 + 20} = 8.15$$

### **Progression Criteria to Higher Semesters**

Eligibility for promotion to the next academic year is based on the following minimum academic performance requirements:

- **First Year to Second Year:**
- A student must secure a minimum of **70% of the total credits** at the end of the first year (i.e., completion of both the first and second semesters).
- **Second Year to Third Year:**
- A student must secure a **cumulative minimum of 80% of the total credits** at the end of the second year (i.e., completion of the first to fourth semesters).



- **Third Year to Internship/Group Project:**
- A student will be eligible to commence the **Internship (Lab posting/ Research Dissertation)** only after the **successful completion of all coursework, i.e., 100% of the credits** must be earned by the end of the third year.

### Attendance:

A candidate has to secure minimum -

1. 80% attendance in theoretical
2. 80% in Skills training (practical) for qualifying to appear for the final examination.

No relaxation, whatsoever, will be permissible to this rule under any ground including indisposition etc.

### Program Completion Timeline

- All academic coursework must be completed within a maximum of **double the program duration**.
- For example, in a **4-year program**, all requirements must be fulfilled within **8 years** from the date of admission.

**Note:** Failure to complete the program within the stipulated maximum duration will result in **automatic exit** from the program.

### 7th and 8th Semester: Internship (Lab posting/ Research dissertation):

A compulsory internship (Lab posting/ Research dissertation) of one year - equivalent to 12 months, 52 weeks, or 1800 hours - carrying 40 credits, must be completed by each student to be eligible for the award of the **Bachelor of Medical Laboratory Science (BMLS)**.

**If a student opts for Research dissertation, it must be of a minimum duration of 6 months.**

During the internship period, students are required to adhere to the rules and regulations of the host organisation.

Upon successful completion, students will receive an Internship Certificate that includes:

#### **A summary of activities undertaken**

Details of clinical or relevant departmental postings with corresponding hours

Information on any research project completed during research dissertation

The certificate must be authenticated by the **Dean/ Head of Department (HoD)/Coordinator and the Head of the Institution (HoI)**.

**Note: The Bachelor's Degree will be awarded only upon successful completion of the Internship requirements.**