ANNAMACHARYA UNIVERSITY
(Estd A.P. Private Universities (Establishment and Regulation) Act, 2016)
(University listed in UGC as per Section 2(f) of the UGC Act, 1956)
RAJAMPET-516126, YSR Kadapa District, A.P, INDIA

ACADEMIC REGULATIONS (AU26)

COURSE STRUCTURE AND SYLLABI

For the students admitted to

BACHELOR OF MEDICAL LABORATORY SCIENCES (BMLS)

Regular Undergraduate Degree Programme for the Academic Year (2026-27)

Lateral Entry Scheme for the Academic Year (2026-27)

VISION AND MISSION OF THE UNIVERSITY

VISION

To be a globally recognized university by providing value-based education and promoting innovation and research for societal betterment

MISSION

The Mission of the University is:

1. To embody ‘Vidwan Sarvatra Pujyathey’.
2. To deliver high-quality education by encouraging research, innovation, and critical thinking
3. To nurture upright individuals by fostering an inclusive environment and inspiring service to society

ACADEMIC RULES AND REGULATIONS OF FOUR YEAR BMLS REGULAR DEGREE PROGRAMME

APPLICABLE FOR THE STUDENT BATCHES ADMITTED FOR ACADEMIC YEAR (2026-27)

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1. PREAMBLE

Annamacharya University, is a private University, established under the brownfield category as per the Andhra Pradesh Private Universities (Establishment and Regulation) Act of 2016 (Act No.3 of 2016), subsequently amended by Act No. 2 of 2024, as published in the Extraordinary Gazette of Andhra Pradesh via gazette notification G.O.Ms. No. 13 dated 13.03.2024. The University Grants Commission (UGC) has included it in the list of UGC-listed Universities vide letter no. No. F.8-22/2024(CPP-I/PU)148904 dated 02nd April, 2025.

Annamacharya University, Rajampet, relentlessly aims to achieve academic excellence by implementing new initiatives in teaching-learning and evaluation processes. Based on the directions of the University Grants Commission (UGC), New Delhi, Director of Medical Education (DME), Government of Andhra Pradesh, and National commissions allied and health care professions (NCAHP), the university has adopted the DME and NCAHP model curriculum with minor modifications to match the needs, expectations, and skill sets of students in the state, in undergraduate programs offered from the academic year 2025-26.

Objectives:

The aim of the undergraduate course in Bachelor of medical laboratory sciences is to impart in depth knowledge and skills to a student to become competent in the techniques of Medical Laboratory sciences and develop the proper attitude required for the practice of Medical Laboratory sciences..

To educate and train the student to evaluate, assess, diagnose in a competent manner towards those who need such services, with autonomy in quality assurance and maintaining the humanitarian approach of service".

By the end of the course, the student should:

- To provide comprehensive knowledge of medical laboratory sciences.

- To train students in accurate and reliable laboratory investigations.
- To develop proficiency in routine and specialized laboratory procedures.
- To promote effective communication with healthcare teams and patients.
- To develop ethical values and professional conduct.
- To prepare students to adapt to advancements in medical laboratory technology.
- To enable graduates to contribute effectively to healthcare services.

Academic Council:

The academic council in a private university plays a pivotal role in maintaining and enhancing the academic standards and quality of education. The academic council coordinates and exercises general supervision over the academic policies of the university.

Board of Studies (BoS):

Each department within the College of Allied Health Sciences will have a Board of Studies to the UG program. The Dean/Head of the department will serve as the Chairman of the Department Board of Studies and Officer In-Charge serve as convenor. The Board of Studies has been constituted as per the guidelines of the university statutes. The rules, regulations, curriculum, syllabus, and other academic matters shall be approved by the Board of Studies before being placed in the Academic Council and subsequently the Board of Management.

Office of the Dean, Academics:

The office of the Dean, Academics, is responsible for the implementation of the decisions taken on academic matters by the Academic Council. The office:

- Receives, processes, and maintains all records relating to the programs, including curricula, courses offered, academic calendar, registration, assessments, and grades.
- Disseminates information pertaining to all academic matters, issues necessary memoranda/orders, and acts as a channel of communication between

the students, instructors, and departments.

- Provides information about various academic programs, rules, and regulations to students.

2.REGULATIONS

COMMENCEMENT

- The regulations are quite comprehensive and include definitions of key terms, Academic Year system and other relevant details.
- The regulations detailed herein shall apply to all the regular under-graduate programmes offered by the University.
- The regulations shall be applicable and come into force to the student batches admitted from the academic year 2026-27.

  The University may revise, amend or change the regulations, scheme of examinations and syllabi, from time to time, if found necessary and on approval from the Academic Council of the University, keeping the recommendations of the Board of Studies (BOS) in view.
- Any or all such amendments shall be effective from such date and to such batches of students including those already undergoing the programme as may be approved through Academic Council of the University.
- These regulations shall be called AU26 Regulations.

3. ELIGIBILITY FOR ADMISSION

Admission into Bachelor Of Medical Laboratory Sciences Under Graduation Programme

The eligibility criteria for admission into Bachelor of Medical Laboratory Sciences undergraduate programmes offered at Annamacharya University shall be as prescribed by Statutes and Ordinances of the Dr NTR University of Health Sciences, the Government of Andhra Pradesh.

The criteria are given below:

- The candidate shall be an Indian National / NRI.
- The candidate should have completed 17 years of age as on 31st December of the academic year for which the admissions are being conducted.
- He/she must have passed the Higher Secondary (10+2) or equivalent examination by recognised any Indian board or Board of Intermediate education or Andhra Pradesh Open School with pass marks with minimum 50% in aggregate of physics, chemistry and biology (botany & zoology).
- Admission to Bachelor of Medical laboratory sciences course shall be made on the basis of eligibility (minimum 50% with physics, chemistry and biology) and merit list based on 10+2 passing marks.
- Candidates who have passed any qualifying examination other than Intermediate examination conducted by the Board of Intermediate Education, Andhra Pradesh shall obtain an Equivalency Certificate from the Board of Intermediate Education, Andhra Pradesh to be eligible to apply. However, the eligibility for the course will be verified by the University for admissions.
- As per the G.O. Ms no. 258 students with 2 yrs. Diploma in Medical Laboratory sciences can be permitted for admission into Bachelor of medical laboratory sciences Degree Course offered by this University.

Qualifying Exam:

Based on the marks scored in science subjects (PCB/Z) in the Intermediate board examination or its equivalent examination

Category & Eligibility Criteria:

A student must have passed the 10+2 examination.

Admission Process

Category – A Seats (50% of seats)

A candidate admitted to the course of MLT in Annamacharya University shall register with Dr NTR University of Health Sciences, AP., Vijayawada, by remitting the prescribed fee along with the application form for registration duly filled in by the candidate and forwarded to this University by the Head of the Institution within one month of admission.

Category – B Seats (50% of seats):

These seats shall be filled by the Annamacharya University directly through office of the Director, Admissions and the GOs issued by the Government of Andhra Pradesh from time to time, for the respective year of admissions.

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.

Authority for Admission:

Any matter related to admission to the Bachelor Of Medical Laboratory Sciences programme, the decision of the Office of the Director, Admissions is final.

Revoking / Cancellation of Admission:

All students admitted provisionally to any program must submit copies of their original mark sheets, provisional certificates, and any other documents required by the Director

of Admissions by the last date specified in the Academic Calendar of Annamacharya University.

The Registrar, based on the recommendation of the Director of Admissions, may cancel the admission of any student who fails to submit the prescribed documents by the specified date or does not meet other stipulated requirements. Additionally, the Registrar may cancel the admission later if it is discovered that the student provided false information, suppressed information, misrepresented facts, or forged documents while seeking admission or thereafter, and report the matter to th Vice Chancellor.

4.MEDIUM OF INSTRUCTION

The medium of instruction shall be **English** for all the courses including their content delivery and examinations, seminars, presentations, and project evaluation as prescribed in the programme curriculum.

5. BACHELOR OF MEDICAL LABORATORY SCIENCES –PROGRAMME STRUCTURE

The structure of the BMLS programme at Annamacharya University is based on the minimum qualifying marks/percentage prescribed by the National Commission for Allied and Healthcare Professions (NCAHP), the Andhra Pradesh State Allied and Healthcare Profession Council (APSAHPC), and the UGC, along with the curriculum/course structure recommended by the university in its Curriculum.

Annual Pattern:

- The BMLS Programme offered at Annamacharya University follows **Semester** pattern. The duration of Programme shall be of **3 academic** years and 1 year Internship for 3+1-year BMLS programme which includes academic training, internal and University examination, extracurricular activities, Public Holidays and Vacations.
- Each year shall consist of 36 weeks of instructions.
- Each year it is structured to provide credits totaling of **160 credits** for the entire BMLS Programme.

- Each year shall have **Continuous Internal Evaluation (CIE)** and **Year End Examination (YEE)** for both Theory and Lab courses.
- Each student is required to secure a **with a CGPA ≥ 5** for the completion of the UG programme and the award of the BMLS Degree.
- A student admitted to the four-year Bachelor of Medical Laboratory Sciences (BMLS) Programme at Annamacharya University shall complete all the prescribed coursework and academic requirements within a maximum period of eight (8) years, calculated from the date of commencement of the first year of the programme.
- The maximum period allowed for completion shall not exceed twice the prescribed duration of the programme. For example, in a four-year BMLS programme, the student must complete all academic and coursework requirements within eight years. Failure to complete the programme within the stipulated maximum period shall result in the student's exit from the programme and forfeiture of the admission seat.
- **Internship program:** One-year full time internship program.

Medium of instruction: English shall be the medium of instruction for all the subjects of study and for examination of the course.

Teaching/Learning Methods

The teaching methods will adopt competency-based learning for the students. Apart from classroom teaching (contact hours), self-learning will be facilitated to make a graduate lifelong learner. Additionally, technology, hybrid or virtual learning, use of advanced learning tools, mannequins, simulators, and videos can be utilized for enhancing learning experience.

Examination Eligibility:

No candidate shall be permitted to appear in any one of the subjects of Bachelor Of Medical Laboratory Sciences degree course unless he / she has attended the course in the subject for the prescribed period in Annamacharya University, and has produced the necessary certificate of study, attendance, progress and satisfactory conduct from the Dean/ Head of the Department of college of allied health sciences.

Appearance for the Examination:

a) A candidate shall register for all the subjects of a year when he / she appears for the examinations of that year for the first time.

b) A candidate shall not be admitted to the practical examinations for the first time unless he / she produces the class record book duly certified by the Head of the Department.

c) The marks awarded to the record during the first appearance will be valid for the subsequent examinations in case of failed candidates.

6. CREDIT-BASED SYSTEM STRUCTURE

Credit: A credit is a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (Lecture/Tutorial) or two hours of practical work/field work/project per week.

Academic Year: constitute one academic year.

Choice Based Credit System (CBCS): CBCS provides choice for students to select from the prescribed courses.

Each course is assigned certain number of credits based on following criterion.

Type of Class	Year	
	Periods per Week	Credits
Theory (Lecture/Tutorial)	01	01
	02	02
Practical	01	02
	04	02
Project	-	20
Internship	-	20

6.0 Credit Structure

6.1 Course-wise Credit Distribution

- The following table outlines the subjects offered in the first year along with their corresponding lecture, practical hours, and assigned credits.
- Credits are awarded based on the number of hours per week, in line with the CBCS guidelines

First Semester					
Subjects	**Subject Code**	**Hrs/week**			**Credits**
		L	**T**	**P**	**C**
Human Anatomy	26HMLT11T	3	1	-	4
Human Physiology	26HMLT12T	3	1	-	4
Fundamentals of the Healthcare System and Medical Laboratory Science (MLS)	26HMLT13T	2	-	-	2
Communication and Professionalism	26HMLT14T	2	-	-	2
Basic Emergency care and First aid	26HMLT15T	1	1	-	2
Basics of Computer Application	26HMLT16T	1	-	1	2
Human Anatomy practical	26HMLT11 L	-	-	4	2
Human Physiology practical	26HMLT12L	-	-	4	2
Total					**20**

Second Semester						
S. No	**Subjects**	**Subject Code**	**Hrs/week**			**Credits**
			L	**T**	**P**	**C**
1.	Fundamentals of Microbiology	26HMLT21T	**4**	**-**	**-**	**4**
2.	Basics of Biochemistry	26HMLT22T	**4**	**-**	**-**	**4**
3.	Fundamentals of Haematology	26HMLT23T	**4**	**-**	**-**	**4**
4.	Preventive and Social Medicine	26HMLT24T	**2**	**-**	**-**	**2**
5.	Fundamentals of Microbiology Practical	26HMLT21L	**-**	**-**	**4**	**2**
6.	Basics of Biochemistry Practical	26HMLT22L	**-**	**-**	**4**	**2**
7.	Fundamentals of Haematology Practical	26HMLT23L	**-**	**-**	**4**	**2**
	Total					**20**

Third Semester						
S. No	**Subjects**	**Subject Code**	**Hrs/week**			**Credits**
			L	**T**	**P**	**C**
1.	Bacteriology	26HMLT31T	4	0	0	4
2.	Intermediate metabolism and endocrinology	26HMLT32T	4	0	0	4
3.	Clinical of Haematology	26HMLT33T	4	0	0	4
4.	Basics of pharmacology	26HMLT34T	2	0	0	2
5.	Bacteriology practical	26HMLT31L	0	0	4	2
6.	Intermediate metabolism and endocrinology	26HMLT32L	0	0	4	2
7.	Clinical of Haematology Practical	26HMLT33L	0		4	2
	Total					**20**

Fourth Semester						
S. No	Subjects	Subject Code	Hrs/week			Credits
			L	T	P	C
1.	Virology and Immunology	26HMLT41T	4	0	0	4
2.	Genetics and Molecular Biology	26HMLT42T	4	0	0	4
3.	Clinical Pathology	26HMLT43T	4	0	0	4
4.	Medical Laboratory Management and Quality Control	26HMLT44T	2	0	0	2
5.	Virology and Immunology - Lab	26HMLT41L	0	0	4	2
6.	Genetics and Molecular Biology-Lab	26HMLT42L	0	0	4	2
7.	Clinical Pathology-Lab	26HMLT43L	0	0	4	2
	Total					20

Fifth Semester						
S. No	Subjects	Subject Code	Hrs/week			Credits
			L	T	P	C
1.	Mycology & Parasitology	26HMLT51T	4	0	0	4
2.	Analytical Biochemistry	26HMLT52T	4	0	0	4
3.	Immunohematology and Transfusion Medicine	26HMLT53T	4	0	0	4
4.	Medical Law and Ethics	26HMLT54T	2	0	0	2
5.	Mycology & Parasitology-Lab	26HMLT51L	0	0	4	2
6.	Analytical Biochemistry - Lab	26HMLT52L	0	0	4	2
7.	Immunohematology and Transfusion Medicine - Lab	26HMLT53L	0	0	4	2
	Total					20

Sixth Semester						
S. No	**Subjects**	**Subject Code**	**Hrs/week**			**Credits**
			L	**T**	**P**	**C**
1.	Applied Pathobiology	26HMLT61T	4	0	0	4
2.	Cytology and Histopathology	26HMLT62T	4	0	0	4
3.	Clinical Biochemistry	26HMLT63T	4	0	0	4
4.	Biostatistics and Research Methodology	26HMLT64T	2	0	0	2
5.	Cytology and Histopathology - Lab	26HMLT62L	0	0	4	2
6.	Clinical Biochemistry- Lab	26HMLT63L	0	0	4	2
7.	Applied Pathobiology -Lab	26HMLT61L	2	0	0	2
	Total					20

Seventh & Eighth Semester			
S. No	**Subjects**	**Subject Code**	**Credits**
			C
1.	INTERNSHIP (clinical lab posting/research dissertation)	26HMLT7INTS	20+20
	Total		40

Total credits = 160 credits

Total Contact hours = 4125

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

6.2 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).

7. Evaluation Process

The performance of a student in each year shall be evaluated course-wise with a maximum of 100 marks for both Theory and Lab Course.

- For a Theory course, the distribution shall be 30 marks for Internal Evaluation and 70 marks for End-Evaluation. The distribution is detailed in 7.1.1
- For a Lab course, the distribution shall be 30 marks for Internal Evaluation and 70 marks End- Evaluations. The distribution is detailed in 7.1.3

7.1 Internal Evaluation

For a Theory Course, 30 marks are allotted for Internal Evaluation. Two Internal examinations (Theory Internal Examinations) shall be conducted for a Theory Course during a year, and they shall be evaluated for 30 marks of which 25 marks are given for Continuous Internal Examination and 5 marks for assignment. For Lab Course, there shall be a continuous internal evaluation during the year for 30 marks.

7.1.1 Theory Internal Evaluation

Theory Continuous internal examination shall have Part A & Part B. In Part A, which is compulsory, five short answer questions each of which carries 1 mark. There shall be no sub-questions or bits. The examination shall be conducted for 2 hours.

Part B: Shall consist of six questions covering Units I to II. Each question shall carry 5 marks. Students shall be required to attempt any four questions out of the six, for a total of 20 marks. The questions shall be set/ moderated such that the student can comfortably answer each question within the stipulated time.

Question paper pattern for Continuous Internal Examination (30 Marks) shall be as follows:

PART A: 5 Marks

PART B: 20 Marks

Question paper pattern for Continuous Internal Examination (30 Marks) shall be as follows:

PART A: Five short answer questions - 5 x 1 = 5 Marks

PART B: **(i)**It consist of six questions

(ii) Each question shall carry 5 marks.

(iii) Part B: Students shall be required to attempt any four questions out of the six, for a total of 20 marks.

Question paper pattern for Continuous Internal Examination (15 Marks) for non –core subjects shall be as follows in first semester:

Assessment:5 Marks

Internal Exam:10 Marks

It shall consist of four questions. Students shall be required to attempt any two questions out of the four. Each question shall carry 5 marks, for a total of 10 marks.

First Theory Continuous Internal examination shall be conducted as per the syllabus of I, II units. The second Continuous internal examination shall be conducted as per the syllabus of III, VI, V, units. 80% weightage fo the best performance and 20% the other shall be considered. Final value shall be rounded up.

For Example:

Marks obtained in I Internal examination: 19

Marks obtained in II Internal examination: 10

Final Internal Marks: (19x0.8) + (10x0.2) = 17.2

If the student is absent for any one Internal examination, the final internal marks shall be arrived at by considering 80% weightage to the marks secured by the student in the appeared examination and zero to the other.

For Example:

Marks obtained in first Internal: 0 (Absent); Marks obtained in second Internal: 18

Final Internal Marks: (18x0.8) + (0x0.2) = 14.4

7.1.2 Assignment (Theory)

The assignment shall contain essay-type numerical questions, out-of-the-box thinking questions, etc. The assignments are given by the concerned teacher for 5 marks from the first three units. The second assignment shall be given from the rest of the syllabus. The first assignment should be submitted before the first internal examination, and the second assignment should be submitted before the second internal examination. The number of questions is limited to 5, and teachers should frame the questions by considering all Course Outcomes. There shall be at least two assignments in a year, and the average performance of the two assignments will be considered.

7.1.3 Lab Internal Evaluation

Out of the 30 marks allotted for Lab Internal Evaluation, day-to-day performance of the student in the laboratory shall be evaluated for 10 marks by the concerned laboratory

teacher based on Observation and interpretation of results/ Record writing and maintenance. Two Lab Internal examinations shall be conducted for 20 marks by the concerned teacher. Performance of one best out of two tests to be considered. The day-to-day marks distribution is as follows:

- Observation and interpretation of results :5 marks
- Record writing and maintenance :5 marks

7.1.4 Make-up Internal Examination

The student who has missed both the Theory Continuous Internal examinations will be permitted to appear for a Make-up Continuous Internal examination in the event of his/her producing satisfactory evidence of medical sickness. One Make-up internal test shall be conducted immediately after the II Continuous Internal examination in the same year, covering the total syllabus of FIVE Units in the respective course.

This Make-up examination will be given a weightage of 80%. Make-up tests shall be conducted outside the working hours and there can be even two such examinations on a day.

Student absent for I Internal examination with valid reasons he/ she should produce a supporting document to the department within a week after completion of last internal examination. And the same student absents for same subject in II Internal examination, he/ she should produce a supporting document to the department immediately to giving the provision for makeup examination.

Make-up internal examinations are not for improvement of marks in Theory Internal examinations. There shall be no make-up internal examinations for a Lab course.

7.2 Year End Examination Evaluation

7.2.1 Theory End Evaluation

As specified in 7.0, Theory End Evaluation is done for 70 marks. Year End Examination of theory subjects shall be conducted at the end of year. There shall be Regular and

Supplementary End Examinations. Theory Year End Examination shall be conducted for 70 marks and is of 3 hours duration.

Theory Year End Examination shall have Part A & Part B Part A contains a total of 7 questions, out of which 5 are to be answered, which carries four marks shall be given. 20 marks are allocated for Part A.

Part B shall contain five either or type questions (Total 10 questions with internal choice). 50 marks allotted for Part B and each question shall carry 10 marks. There will be two questions from each unit. The examination shall be conducted for 3 hours.

Question paper pattern for Semester End Examination (70 Marks) for core subjects shall be as follows:

PART A: 4 x 5 = 20 Marks

(i)There shall be one question from each unit.

(ii)Part A contains a total of 7 questions, out of which 5 are to be answered.

PART B: 10 x 5 = 50 Marks

(i) Five questions with internal choice will be given.

(ii)There shall be two questions from each unit with Internal Choice i.e., 'either' or 'choice.'

(iii)Sub questions may also be given.

Question paper pattern for Semester End Examination (35 Marks) for non –core subjects shall be as follows in first semester only:

External Exam:35 Marks shall have Part A & Part B. Part A contains a total of 5 questions, out of which 5 are to be answered, which carries two marks shall be given. 10 marks are allocated for Part A.

Part B shall contain five either or type questions (Total 10 questions with internal choice). 25 marks allotted for Part B and each question shall carry 5 marks. There will be two questions from each unit. The examination shall be conducted for 2 hours.

Question paper pattern for Semester End Examination (35 Marks) for core subjects shall be as follows:

PART A: 2x 5 = 10 Marks

(i)There shall be one question from each unit.

(ii)Part A contains a total of 5 questions, out of which 5 are to be answered.

PART B: 5 x 5 = 25 Marks

(i) Five questions with internal choice will be given.

(ii)There shall be two questions from each unit with Internal Choice i.e., 'either' or 'choice.'

(iii)Sub questions may also be given.

7.2.2 Lab End Evaluation

As specified in 7.0, Lab End Evaluation is done for 70 marks, in the form a Lab End Examination that shall be conducted for 3 hours in respective Laboratory. Each lab course will have its own evaluation procedure and weightage.

7.2.3 Supplementary Theory / Lab End Examinations

- Supplementary examination shall be conducted along with regular year end examinations.
- During Year End Examinations, supplementary examinations shall be conducted
- The same schedule is applicable to Supplementary Lab End Examinations. Supplementary examination shall be conducted along with the next batch of students or separately.
- In case of seminars and comprehensive viva-voce examinations, supplementary seminar / comprehensive viva-voce will be conducted along with the next batch of students. If the next batch of students is not available, a separate supplementary examination will be conducted.

7.2.1 Theory & Practical End Evaluation

Theory & Practical end evaluation is done for 70 marks. Academic Semester end exam of theory subjects shall be conducted. There shall be regular and supplementary end examinations. Theory end exam shall be conducted for 70 marks and is of 3 hours duration

7.2.2 Supplementary Theory / Lab End Examinations

- Supplementary examinations shall be conducted along with regular end examinations.
- The same schedule is applicable to Supplementary lab end examinations. Supplementary examination shall be conducted along with the next batch of students or separately.

8. Attendance Requirements and Detention Policy

- A student shall maintain a minimum required attendance 80% in AGGREGATE of all the subjects in a year.
- Shortage of attendance up to 10% i.e., attendance between 65% to 75% in aggregate, may be condoned by the University Academic Committee based on the rules prescribed by the Academic Council of the University from time to time.
- A stipulated fee shall be payable towards condonation of shortage of attendance.
- Shortage of attendance below 70% shall in no case be condoned. A stipulated fee shall be payable towards condonation of shortage of attendance to the University as per following slab system.

  1stSlab: Less than 75% attendance but equal to or greater than 70% a normal condonation fee can be collected from the student.

  2ndSlab: Less than 70% but equal to or greater than 65%, double the condonation fee can be collected from the student.
- Students whose shortage of attendance is not condoned OR who have not paid

the stipulated fee OR who have not cleared any other due to the University in any year are not eligible to write the Year End Examination (YEE).

- Students, who do not meet the minimum required attendance of 65% in a year, shall be detained in that year and their registration for that year shall stand cancelled. They shall not be promoted to the next year.
- Students detained in a year shall seek re-admission into that year as and when offered.
- Academic regulations applicable to the year in which re-admission is sought shall be applicable to the re-admitted student.
- In case, there are any professional electives and /or open electives, the same may also be re- registered, if offered. However, if those electives are not offered in the later years, then alternate electives may be chosen from the same set of elective courses offered under that category.

  Any student against whom any disciplinary action is pending shall not be permitted to attend Year End examination (SEE) in that year.

10. Minimum Academic Requirements and Award of the Degree

The following academic requirements must be satisfied in addition to the attendance requirements mentioned in section 9.

Qualifying Marks:

A candidate shall be declared to have passed the examination if he/she secures the following minimum marks:

- **Theory:** Not less than 35% marks in the Semester -End Theory Examination and a minimum of 40% in the aggregate of Year-End Evaluation and Internal Evaluation.
- **Practical:** Not less than 50% marks in the aggregate of Semester -End Lab Evaluation and Internal Lab Evaluation.

If a candidate fails in either the theory or practical component of a subject, he/she must reappear for both the theory and practical examinations of that subject in any

subsequent examination and secure the minimum marks specified above to pass.

Promotion:

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.

11. Project Work/Internship

SEMESTER VII & VIII

Course Name: Internship Credit: 40 (1800 hours)

Internship Duration: 12 months (Semester VII & VIII)

Schedule: 42 hours/week (7 hours/day, 6 days/week)

Internship Rotation Structure & Competencies

Area	Duration (Months)	Competencies
Pathology	2	Sample processing, staining, cryostat handling,

		FNAC
Hematology & Clinical Pathology	2	Phlebotomy, smear reading, automation, urinalysis
Transfusion Medicine	2	Blood component preparation, donor monitoring, transfusion-transmitted disease screening
Clinical Biochemistry	2	Biochemical analysis, automated system, Quality control
Microbiology	2	Culturing, antimicrobial susceptibility testing, media preparation, QC strains
Research (Individual/group projects can be included)	2	Literature review, topic formulation, manuscript drafting

Internship Rotation Plan

● Posting Guidelines: Each student completes all rotations with documented competent acquisition.

● Attendance & Conduct: Minimum 90% attendance and adherence to institutional guidelines required.

● Assessment: Non-CGPA contributing; qualitative evaluations are documented.

● Certification: Granted upon satisfactory completion, verified by HOD/Coordinator and HOI.

12. Cumulative Grade Point Average (CGPA):

As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades and corresponding percentage of marks shall be followed:

After each course is evaluated for 100 marks, the marks obtained in each course will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall

Structure of Grading of Academic Performance

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 students	Credit value(b)	Grade points (axb)
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	COURSE4	4	C	7	28
BMLS-5	COURSE-5	5	A	9	45
Total		**20**	**-**	**-**	**159**

1 st Semester GPA = Total grade points / total credits

159/20 = 7.95

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

$$Then,\ 1\ stYearCGPA = \frac{(7.95x20)+(8.35x20)}{20+20} = \mathbf{8.15}$$

i) A student obtaining Grade 'F' or Grade 'Ab' in a subject shall be considered failed and will be required to reappear for that subject when it is offered the next supplementary examination.

ii) For non-credit audit courses, "Satisfactory" or "Unsatisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA/Percentage.

Computation of Cumulative Grade Point Average (CGPA):

The Cumulative Grade Point Average (CGPA) will be computed in the same manner considering all the courses undergone by a student over all the years of a program, i.e.,

$$CGPA = \frac{\sum(C_i * Y_i)}{\sum C_i}$$

Where $\boldsymbol{Y_i}$ is the GPA of the $\boldsymbol{i^{th}}$ year and $\boldsymbol{C_i}$ is the total number of credits up to that year.

CGPA shall be rounded off to 2 decimal points and reported in the transcripts. While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale. Letter Grade: It is an index of the performance of students in a said course. Grades are denoted by the letters S, A, B, C, D and F.

Award of Class:

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Tech. Degree, he/she shall be placed in one of the following four classes:

Class Awarded	**CGPA Secured**
First Class with Distinction	≥7.5
First Class	≥6.5 <7.5
Second Class	≥5.5 <6.5
Pass Class	≥5.0 <5.5

12.1 Conversion of CGPA into percentage

In case of a specific query by students/employers regarding Cumulative Grade Point Average (CGPA) into percentage, the following formulae will be adopted for notional conversion of CGPA into percentage.

CGPA to Percentage conversion Formula – (CGPA – 0.5) x 10.

13. Transcripts

After successful completion of the entire programme of study, a transcript containing performance of all academic years will be issued as a final record. Duplicate transcripts will also be issued, if required, after payment of requisite fee. Partial transcript will also be issued up to any point of study to a student on request.

14. Minimum Instruction Days for an Academic Year

The minimum instruction days for each academic year is 34 weeks.

15. Student transfers

Student transfers shall be as per the statutes and ordinances of the Annamacharya University and guidelines issued by the Government of Andhra Pradesh from time to time.

16. Announcement of results

- Results review committee comprising of Vice Chancellor, Registrar, Dean Academics, Dean / Officer in Charge and Controller of Examinations will monitor the results and gives the permission for announcement of results.

- After review meeting results are loaded into university website from which students can access their results by entering Hall Ticket number and also results in form of hard copy are available with respective Deans / Heads of the departments.

17. General Instructions:

- The academic regulations should be read for purpose of any interpretation.
- Malpractices rules-nature and punishments are appended.
- Where the words "he", "him", "his", occur in the regulations, they also include "she", "her", "hers", respectively.
- In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice Chancellor / Registrar / Governing body is final.
- Any legal issues are to be resolved in Rajampet Jurisdiction.
- The University may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the University.

18. Appendix-I: Internship Guidelines

Internship Guidelines for BMLS Students

The Dean/Head of the Department of BMLS will arrange internships for students in hospitals after the third year, as per the guidelines of the **National Health Authority, National Commission for Allied Health Care Professionals, Dr. NTR University of Health Sciences, and University regulations**. The general procedure for arranging the medical internship is as follows:

Step 1:

A Request Letter/Email from the Dean/HOD of the department will be sent to the hospital, seeking allocation of internship slots (one year during the fourth year). Along with this, student request letters/profiles/MLT specialization details may also be submitted to the hospitals for their consideration and willingness to provide training.

Step 2:

The hospital will confirm the availability of training slots and the number of seats allocated for internships through a Confirmation Letter/Email. In cases where students arrange training on their own, the hospital's confirmation letter must be submitted by the students to the Training & Placement Office through the concerned department. Allocation will be based on the number of slots confirmed by the hospital.

Step 3:

Upon joining, students must submit a Joining Report/Letter/Email to the concerned hospital and the department.

Step 4:

Students will undergo hospital training as scheduled. During the internship, faculty members will evaluate student performance once or twice through visits to the hospital. The evaluation report, signed with the consent of hospital doctors/medical superintendents, will be submitted to the department office.

Step 5:

After completion of the internship, students must submit a training report to the department.

Step 6:

Students must obtain a Internship Certificate from the hospital.

Step 7:

The concerned department will issue the final list of students who have successfully completed their internships.

For more details refer:

https://abdm.gov.in:8081/uploads/NHA_internship_guidelines_d5991b7d5a.pdf

https://ncahp.abdm.gov.in/ & https://drntr.uhsap.in/index/

Appendix II: Norms and Procedures for Challenge Evaluation/Revaluation/Recounting

Revaluation / Recounting:

- The students who wish to apply for Revaluation/Recounting of his/her answer-books(s) must submit his/her application on the prescribed form together with the requisite fee to the Controller of Examinations before expiry of 15 days excluding the date of the declaration of his/her examination result. Application not received in the prescribed form or by the due date or without the requisite fee shall be rejected.
- After Recounting / Revaluation, records are updated with changes if any and the student will be issued a revised memorandum of marks. If there are no changes, the student shall be intimated the same through a notice.
- No Revaluation / Recounting for Laboratory Examination.
- The students are informed to be more careful in furnishing the information while applying for Recounting / Revaluation. The applications with insufficient information will be summarily rejected and the student has to forfeit the amount paid in this connection.

Challenge valuation:

- Applications are invited from the students who wish to apply for Challenge Valuation in the subjects of all courses in Regular and Supplementary examinations.
- The student will apply for Challenge valuation in a specified application and should be routed through the respective Head of the Colleges/ Schools / HOD to the examination section.
- A Fee of Rs. 15000/- (Fifteen Thousand Rupees Only) for each paper is to be paid within the last date for challenge valuation.
- A Xerox copy of the answer script will be provided to the student on receipt of the payment of fee and date and time of the valuation will be informed to the student, so that valuation will be done in the presence of the teacher attended in support of the student nominated by the respective Head of the Colleges/ Schools / HOD.
- The respective Head of the Colleges/ Schools / HOD will nominate a teacher of the subject concerned to observe the valuation in support of the student. This will be done at the request of the student.
- If the marks obtained in the challenge valuation are more than or equal to 15% of the maximum marks with respect to the original marks obtained in the first valuation, then the marks obtained in the Challenge valuation will be awarded

to the student and the University will pay back Rs 13,500 (Thirteen thousand five hundred rupees only) to the student. If the student status changes from fail to pass, an amount of Rs. 7,500 will be refunded to the student. Otherwise, there will not be any change in the result of the student and original marks will be retained and the student will forfeit the fee paid.

- No Challenge valuation for Laboratory Examination / project work / skill courses

Appendix – III Rules for Disciplinary Action for Malpractices / Improper Conduct in Examinations

Malpractices identified by squad or special invigilators or invigilators.

Punishments shall be given to the students as per the above guidelines. The case is to be referred to the malpractice committee.

Malpractice committee

1. The Vice Chancellor, Chairman
2. Registrar, Member
3. Dean, Academics, Member
4. Invigilator, Member
5. Subject expert, Member
6. Concerned Dean / Head of the Department, Member
7. Controller of Examinations, Member Secretary

Note:

Whenever the performance of a student is cancelled in any subject/subjects due to Malpractice, he must register for End Examinations in that subject/subjects consequently and must fill all the norms required for the award of Degree.

	Nature of Malpractices/Improper conduct	**Punishment**
	If the candidate:	
1.(a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
1(b)	Gives assistance or guidance or	Expulsion from the examination hall

	receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	and cancellation of performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that year/year. The Hall Ticket of the candidate is to be cancelled and sent to the registrar, Annamacharya University.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred for four consecutive years from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. The performance of the original candidate who has been impersonated, shall be cancelled in all the subjects of the examination (including practical's and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that year/year. The candidate is also debarred for four consecutive years

		from class work and all University examinations, if his involvement is established. Otherwise, the candidate is debarred for two consecutive years from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that year/year. The candidate is also debarred for two consecutive years from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject only.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant — Superintendent / any officer on duty or misbehaves or creates	In case of student of the University, they shall be expelled from examination halls and cancellation of their performance in that subject and

	disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the University campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that year/year. If the candidate physically assaults the invigilator/officer-in-charge of the Examinations, then the candidate is also debarred and forfeits his/her seat. In case of outsiders, they will be handed over to the police and a police case is registered against them.
7.	Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that year/year. The candidate is also debarred for two consecutive years

		from class work and all University examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that year/year. The candidate is also debarred and forfeits the seat.
9.	If students of the university, who is not a candidate for the particular examination or any person not connected with the University indulges in nay malpractice or improper conduct mentioned in class 6 to 8.	Student of the university expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that year/year. The candidate is also debarred and forfeits the seat. Person (s) who does not belong to the University will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining

		examinations of the subjects of that year/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject only or in that subject and all other subjects the candidate has appeared including practical examinations and project work of that year / year examinations, depending on the recommendation of the committee.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 12 shall be reported to the University for further action to award suitable punishment.	