CT UNIVERSITY
PUNJAB · INDIA
Career Begins Here...
FEROZEPUR ROAD · LUDHIANA
www.ctuniversity.in APPROVED BY UGC

Curriculum-2024

As Per UGC Regulated National Credit Framework-2024

(Guidelines as per NEP Regulations)

School of Health Sciences
Department of Medical Laboratory Technology (Hons.)

CT University, Ferozpur Road, Sidhwan Khurd, Punjab, India- 142024

SCHOOL OF HEALTH SCIENCES

B.SC. MEDICAL LABORATORY TECHNOLOGY(HONS.)

PROGRAM CODE- 40SASUG01

1. Vision

The vision of the School of Health Sciences (SHS) is to be known globally as a School of Excellence that provides a transformative educational experience, creating positive societal impact through the establishment of global centres of higher learning in emerging healthcare areas in pursuit of academic excellence, innovation, and entrepreneurship by constant endeavours.

2. Mission

- To build a cutting-edge centre for excellent learning, research, and innovation.
- Including modern standards in learning, teaching, and research.
- To instil in the pupils the virtues of honesty and kindness towards the treatment of patients and society.
- To foster critical thinking amongst students and instil in them the values, skills, and attitude to become lifelong learners and efficient problem solvers.
- To create an environment for the holistic development of learners by strengthening student-centric welfare activities in pursuit of building socially responsible citizens.

3. Objective

School of Health Sciences (SHS), CT University offers 4 years Bachelor of Science (Hons.) Programme. This program aims at creating professionals with the knowledge of the diagnosis, treatment and prevention of disease with the help of clinical laboratory tests. The program equips eligible candidates with an advanced learning in both routine and sophisticated laboratory diagnostic procedures. This program aims to creating professional with the requisite knowledge and skills needed to handle sophisticated lab equipment and perform accurate laboratory tests. The curriculum includes professional training and certification offered by top leading industry. Objective of this programme is to compete with well-established academic institutions in India and abroad.

4. Programme Duration

The Bachelor of Medical Laboratory Technology (Hons.) programme is intended to be completed in four years duration full-time. Each year of study at School of Health Sciences (SHS), CT University is divided into two semesters including 27 lecture weeks, where students attend classes and receive instruction on various subjects related to medical laboratory and its aspects, one make up week to catch up on any missed lectures or assignments due to unforeseen circumstances or personal reasons, one reading and revision week students have the opportunity to review and consolidate their understanding of the topics covered in the semester. This dedicated time for revision helps students prepare for their upcoming examination. And one final week of each semester is designated as the examinations week. The fall semester will start in August and end in December. The winter semester will start in February and end in June. This schedule allows for a break between the two semesters, providing students with the opportunity to recharge and prepare for the upcoming semester.

By dividing the academic year into semesters and providing specific weeks for lectures, make-up, reading and revision, and examinations, the B.Sc. MLT (Hons.) program at CT University ensures a structured and comprehensive learning experience for students.

5. Curriculum design

Being a course centred on Health Sciences, Board of Studies recommends that the Discipline Core Elective courses, specialization courses may be selected from a variety of electives. It follows OBE of AICTE's Model Curriculum of the instructions.

The courses of the programmes will be delivered in the following 4 modes.

(i) Theoretical Lecture (L) (With or without Tutorial (T))
(ii) Theoretical Lecture + Practical (L+P)
(iii) Practical (P)
(iv) Project (PJ)/ Summer Internship

The CBCS provides choice for students to select from the prescribed courses (core, elective or soft skill courses). Students can learn at their own pace, choose electives from a wide range of courses, undergo additional courses and acquire more than required number of credits. Students can adopt an interdisciplinary approach in learning, and Inter college/University transfer of Credits.

Curriculum has been designed with prescribed courses comprising of Law, Pharmaceutical Sciences, Humanities and Management, Open Electives, Core Electives and Non-Teaching courses. It also has been designed keeping in mind the regulatory aspects, OBE of AICTE's Model Curriculum. Judicious mix of subjects with classroom-based learning and beyond classroom learning is included. Curriculum has been designed after review of best practices and curriculum of other universities in peer group.

6. Credits Structure / Lecture Hours

The credit structure is defined as Lecture (L), Tutorial (T), Practical, Credit Structure (L: T: P: C) strictly following OBE of AICTE's Model Curriculum. For theory and tutorial classes: 1 credit is equivalent to 15 contact hours. A theory subject with 4 credits will be taught for (54-60) lecture hours in a semester and a theory subject with 3 credits will be taught for (39-45) lecture periods in the semester. Laboratory / field work / workshops/project work/ Summer Internships and allied activities will have 2hrs per credit which is equivalent to 24 contact hours.

The courses have been designed to ensure that every student gains a sufficient grounding in the area of core and emerging technologies, which will create value for students to build an area of specialisation and scholarship. The elective courses offered at SHS will provide an opportunity for students to choose courses through elective bidding and develop specialised knowledge to specialised domain /particular interests.

7. Examinations

All students are expected to secure 100% attendance by attending the classes during working hours. However, the minimum attendance required for appearing in the university examinations is 75% as per the regulations of AICTE.

Internal assessments will constitute 40% of the final score which includes 5% of attendance. It will be continuous assessments in the form of assignments, quiz, class presentations, writing research articles, paper presentations, case analysis, poster making, and debates among others. External assessment will constitute 60% of the final score. The external exam would consist of an end term examination where questions would be from across the syllabus. External Examination may also be conducted as open book type depending upon the requirements.

There is a one-year internship in the B.Sc. Medical Laboratory Technology Programme (Hons.) which is compulsory. Evaluation of these internships will be taken up by the school during the following semester (during the 7th and 8th Semesters). The maximum marks for internship are 500 and it is evaluated based on the report of Hospital organization where student is doing internship (100 Mark), a final presentation+ viva by Internal Examination (100 Mark) and a final presentation + viva by External Examination (300 Mark) before the school committee.

8. Programme Educational Objectives (PEOs)

Sr. No.	PEO Statement
1	Understanding the concepts, theories & principles of medical laboratory techniques and applied sciences.
2	Understanding the role of various GOI, NGOs, health programmes/ policies and Organizations.
3	Applying quality control measures, safety procedures and maintenance of Laboratory equipment's and lab accreditation systems.
4	Applying techniques for collection and preservation of biological samples.
5	Analyzing the process of accreditation and certification in different health care systems.
6	Evaluating the results and explaining underlying principle in each investigation.

9. Programme Outcomes (POs)

Sr. No.	PO Statement
1	Proficiently perform a full range of clinical laboratory tests.
2	Develop and evaluate test systems and interpretive algorithms.
3	Manage information to enable effective, timely, accurate, and cost-effective reporting of laboratory-generated information.
4	Collection and receiving of specimens (infectious samples i.e. blood, urine, stool, sputum, pus, semen, tissues and body fluids) for various biochemical, pathological, microbiological, hematological and blood bank investigations, etc.
5	Maintenance of supplies of laboratory reagents / diagnostic kits.
6	Maintenance of quality control for reliability of laboratory reports.
7	With increasing automation and the use of computer technology, the work of Technologists have become less hands-on and more analytical.
8	The complexity of tests performed, the level of judgment needed, and the amount of responsibility workers assume depend largely on the amount of education and experience they possess.

10. Programme Specifics Outcome (PSO) (B.Sc. MLT (Hons.))

At the end of the course the student should be able to:
PSO1: Perform routine clinical laboratory testing.
PSO2: Make specimen-oriented decisions on predetermined criteria including working knowledge of critical values.
PSO3: Communicate with other members of healthcare team, customers and patients in an effective manner.

11. Program Validation

The Bachelor of Medical Laboratory Technology (Hons.) programme is duly validated by the participants, alumni, industry, academic experts and other stake holders. For this purpose, (SHS) has created detailed student feedback mechanism which includes programme outcome, programme specific outcome feedback. For alumni validation our school runs robust alumni engagement program through which program validation is sought periodically. In order to seek validation from stake holders, (SHS) takes help through BOS and Academic Advisory Board.

12. Program Architecture / Course Category

High-quality health care education is essential for the digital age and using technology is powerful way to enhance changing requirements of the corporate, business enterprises and society. Medical Laboratory Techniques students should be equipped to work across time zones, languages, and cultures. Employability, innovation, theory to practice connectedness is the central focus of this curriculum. The curriculum is designed as such that the students can gain an in-depth mastery of the academic disciplines and applied functional areas necessary to meet the requirements of business enterprises and the industry. The college emphasis on courses balanced with core and elective courses: The curriculum of Medical Laboratory Techniques program emphasizes an intensive, flexible education of core courses (all types), and electives. It is designed to train students to grasp core theoretical and practical aspects which include Summer Internship, and Industry certifications while adopting blended teaching pedagogies.

13. Career Outcome

Different Job profiles after Bachelor of Science are

- Lab Technician
- Assistant Professor (MLT (pathology)/Biochemistry/Hematology/Microbiology)
- Phlebotomist
- DNA Cyto-technician
- Medical Lab Technician
- Pathologist Assistant
- Clinical Lab Technician
- Instrument Technician
- R&D Contractual Lab Assistant

- Junior Technical Executive
- System Analyst
  R&D Contractual Lab Assistant
- Junior Technical Executive
- System Analyst
- Histotechnician

CT University, Ferozepur Road, SidhwanKhurd, Punjab, India- 142024

SCHOOL OF HEALTH SCIENCES (SHS)

CURRICULUM & SYLLABUS

FOR

B.SC. MEDICAL LABORATORY TECHNOLOGY (HONS.)
(PROGRAM CODE- 40SASUG01)

Regulations 2024
August 2024

B.SC. MEDICAL LABORATORY TECHNOLOGY (HONS.)

(PROGRAM CODE- 40SASUG01)

Regulations 2024
August 2024
CURRICULUM
CURRICULUM

SEMESTER I												
	COURSE				Credit Structure & Total Hours					Evaluation Scheme		
S No	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs. / Week	IA	ET	Tot.
1	24BMLT011C01	General Clinical Microbiology	Core	DSC	4	0	0	4	4	40	60	100
2	24BMLT011C02	Basic Haematology	Core	DSC	4	0	0	4	4	40	60	100
3	24BMLT011C03	Basic Clinical Biochemistry	Core	DSC	4	0	0	4	4	40	60	100
4	24BMLT011C04	Human Anatomy and Physiology	Core	DSC	4	0	0	4	4	40	60	100
5	24BMLT011C05	General Clinical Microbiology – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
6	24BMLT011C06	Basic Haematology – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
7	24BMLT011C07	Basic Clinical Biochemistry – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
8	24BMLT011C08	Human Anatomy and Physiology – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
9	24BMLT011C09	Essential Biology	Core	DSC	2	0	0	2	2	40	60	100
10	24ENGL0AEC1	Communicative English-I	Elective	AEC	2	1	0	3	3	40	60	100
11	24BMLT011C010	Introduction to National Healthcare Delivery System	Elective	DSE	1	0	0	1	1	40	60	100
12	24BMLT011C011	Basic Preventive Medicine and Community Health Care	Elective	DSE	3	0	0	3	3	40	60	100
Total					**24**	**1**	**8**	**29**	**33**	**560**	**640**	**1200**

	SEMESTER II											
	COURSE				Credit Structure & Total Hours					Evaluation Scheme		
S No	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs. / Week	IA	ET	Tot.
1	24BMLT012C01	Systematic Bacteriology	Core	DSC	4	0	0	4	4	40	60	100
2	24BMLT012C02	Basics of Haematological diseases	Core	DSC	4	0	0	4	4	40	60	100
3	24BMLT012C03	Biochemical metabolism	Core	DSC	4	0	0	4	4	40	60	100
4	24BMLT012C04	Fundamentals of Histology	Core	DSC	4	0	0	4	4	40	60	100
5	24BMLT012C05	Systematic Bacteriology– (Practical)	Core	DSC	0	0	2	1	2	60	40	100
6	24BMLT012C06	Basics of Haematological diseases – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
7	24BMLT012C07	Biochemical metabolism – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
8	24BMLT012C08	Fundamentals of Histology – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
9	224SOET0MDC1	MS Suite Skills	Elective	MDC	2	0	2	3	4	40	60	100
Total					**18**	**0**	**10**	**23**	**28**	**440**	**460**	**900**

SEMESTER III												
	COURSE				Credit Structure & Total Hours					Evaluation Scheme		
S No	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs. / Week	IA	ET	Tot.
1	24BMLT023C01	Applied Bacteriology	Core	DSC	4	0	0	4	4	40	60	100
2	24BMLT023C02	Applied Haematology – I	Core	DSC	4	0	0	4	4	40	60	100
3	24BMLT023C03	Analytical Clinical Biochemistry	Core	DSC	4	0	0	4	4	40	60	100
4	24BMLT023C04	Applied Histopathology – I	Core	DSC	4	0	0	4	4	40	60	100
5	24BMLT023C05	Applied Bacteriology– (Practical)	Core	DSC	0	0	2	1	2	60	40	100
6	24BMLT023C06	Applied Haematology - I -- (Practical)	Core	DSC	0	0	2	1	2	60	40	100
7	24BMLT023C07	Analytical Clinical Biochemistry – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
8	24BMLT023C08	Applied Histopathology - I – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
9	24SHS012CC1	Medical Ethics and Legal Aspects	Elective	DSE	2	0	0	2	2	40	60	100
10	24AGNS0VAC1	Environment Science	Elective	VAC	2	0	0	2	2	40	60	100
11		Discipline elective	Elective	DSE	3	0	0	3	3	40	60	100
Total					**23**	**0**	**8**	**27**	**31**	**520**	**580**	**1100**

Electives Basket - (Students will select elective courses from each basket)
(Uniformly Will Have L-T-P-C structure of 3-0-0-3/2-0-2-3)

Basket – I												
Departmental Elective-I												
Sr.no	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs	IA	ET	Tot.
1	24BMLT023E01	FIRST AID	ELECTIVE	DSE	3	0	0	3	3	40	60	100
2	24BMLT023E02	BIOMEDICAL WASTE MANAGEMENT	ELECTIVE	DSE	3	0	0	3	3	40	60	100

SEMESTER IV												
	COURSE				Credit Structure & Total Hours					Evaluation Scheme		
S No	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs. / Week	IA	ET	Tot.
1	24BMLT024C01	Immunology & Bacterial serology	Core	DSC	4	0	0	4	4	40	60	100
2	24BMLT024C02	Applied Haematology – II	Core	DSC	4	0	0	4	4	40	60	100
3	24BMLT024C03	Applied Clinical Biochemistry – I	Core	DSC	4	0	0	4	4	40	60	100
4	24BMLT024C04	Applied Histopathology - II	Core	DSC	4	0	0	4	4	40	60	100
5	24BMLT024C05	Immunology & Bacterial serology – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
6	24BMLT024C06	Applied Haematology - II – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
7	24BMLT024C07	Applied Clinical Biochemistry – I- (Practical)	Core	DSC	0	0	2	1	2	60	40	100
8	24BMLT024C08	Applied Histopathology- II – (Practical)	Core	DSC	0	0	2	1	2	60	40	100
9	24BMLT024C09	Principals of Management with special reference to Medical Laboratory Science (MLS) management	Elective	DSE	2	0	0	2	2	60	40	100
10	24PSUG0SEC1	Professional Skills	Elective	SEC	1	0	2	2	3	60	40	100
Total					**19**	**0**	**10**	**24**	**29**	**520**	**480**	**1000**

SEMESTER V												
	COURSE				Credit Structure & Total Hours					Evaluation Scheme		
S No	Course Code	Course Title	Course Type	Nature	L	T	P	C	Hrs. / Week	IA	ET	Tot.
1	24BMLT035C01	Medical Parasitology & Entomology	Core	DSC	4	0	0	4	4	40	60	100
2	24BMLT035C02	Advanced Haematology	Core	DSC	4	0	0	4	4	40	60	100
3	24BMLT035C03	Applied Clinical Biochemistry – II	Core	DSC	4	0	0	4	4	40	60	100
4	24BMLT035C04	Cytopathology	Core	DSC	4	0	0	4	4	40	60	100
5	24BMLT035C05	Medical Parasitology & Entomology - (Practical)	Core	DSC	0	0	2	1	2	60	40	100
6	24BMLT035C06	Advanced Haematology - (Practical)	Core	DSC	0	0	2	1	2	60	40	100
7	24BMLT035C07	Applied Clinical Biochemistry – II-- (Practical)	Core	DSC	0	0	2	1	2	60	40	100
8	24BMLT035C08	Cytopathology - (Practical)	Core	DSC	0	0	2	1	2	60	40	100
9	24BMLT035C09	Introduction to Quality and Patient safety (including Basic emergency care and life support skills, Infection prevention and control, Biomedical waste management, Disaster	Elective	DSE	3	0	3	3	6	40	60	100

		management and Antibiotic resistance)										
10	24BMLT035C010	Medical Terminology, Record keeping (including anatomical terms) and Orientation to Medical Laboratory Science (MLS)	Elective	DSE	1	0	0	1	1	40	60	100
Total					**20**	**0**	**11**	**24**	**31**	**480**	**520**	**1000**

SEMESTER VI												
	COURSE				**Credit Structure & Total Hours**					**Evaluation Scheme**		
S No	**Course Code**	**Course Title**	**Course Type**	**Nature**	**L**	**T**	**P**	**C**	**Hrs. / Week**	**IA**	**ET**	**Tot.**
1	24BMLT036C01	Medical Mycology and Virology	Core	DSC	4	0	0	4	4	40	60	100
2	24BMLT036C02	Blood Banking & Genetics	Core	DSC	4	0	0	4	4	40	60	100
3	24BMLT036C03	Immunopathology & Molecular Biology	Core	DSC	4	0	0	4	4	40	60	100
4	24BMLT036C04	Research Methodology and Biostatistics	Core	DSC	4	0	0	4	4	40	60	100
5	24BMLT036C05	Medical Mycology and Virology - (Practical)	Core	DSC	0	0	2	1	2	60	40	100
6	24BMLT036C06	Blood Banking & Genetics- (Practical)	Core	DSC	0	0	2	1	2	60	40	100
7	24BMLT036C07	Immunopathology & Molecular	Core	DSC	0	0	2	1	2	60	40	100

		Biology - (Practical)										
8	24BMLT036C08	Research Methodology and Biostatistics - (Practical)	Core	DSC	0	0	2	1	2	60	40	100
9	24LMSU0SEC2	Leadership and Management Skills	Elective	SEC	1	0	2	2	3	60	40	100
10	24ENGL0AEC2	COMMUNICATIVE ENGLISH II	Elective	AEC	2	1	0	3	3	40	60	100
Total					**19**	**1**	**10**	**25**	**30**	**480**	**520**	**1000**

SEMESTER VII

	COURSE				**Credit Structure & Total Hours**					**Evaluation Scheme**		
S No	**Course Code**	**Course Title**	**Course Type**	**Nature**	**L**	**T**	**P**	**C**	**Hrs. / Week**	**IA**	**ET**	**Tot.**
1	24BMLT047C01	Training Assessment by Hospital	Core	INT	0	0	720	25	30	100	-	
		Internal Assessment								100	-	
		External Assessment									300	
Total							720	**25**	**30**	**200**	**300**	**500**

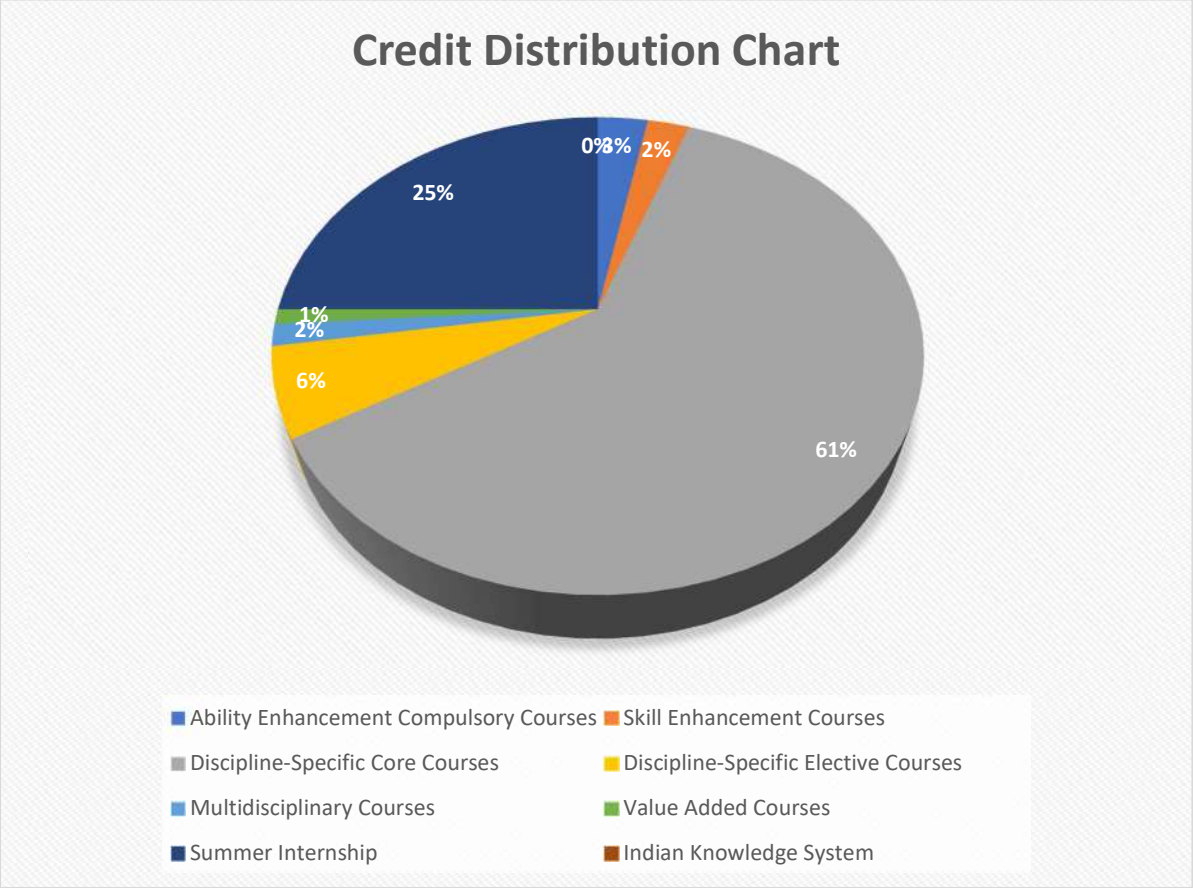
SEMESTER VIII

	COURSE				**Credit Structure & Total Hours**					**Evaluation Scheme**		
S No	**Course Code**	**Course Title**	**Course Type**	**Nature**	**L**	**T**	**P**	**C**	**Hrs. / Week**	**IA**	**ET**	**Tot.**
1	24BMLT047C01	Training Assessment by Hospital	Core	INT	0	0	720	25	30	100	-	
		Internal Assessment								100	-	
		External Assessment									300	
Total							720	**25**	**30**	**200**	**300**	**500**

Credit Distribution Statistics

Semester	I	II	III	IV	V	VI	VII & VIII	Total
Courses	12	9	10	10	10	10	1	**62**
Lecture (L)	24	18	23	19	20	19	-	**123**
Tutorial (T)	1	0	0	0	0	1	-	**2**
Practical (P)	8	10	8	10	11	10	-	**57**
Credits	29	23	27	24	24	25	50	**203**
Hours	33	28	31	29	31	30	1440	**1644**

	Course Type	Description	No. of Courses	No. of Credits
2	AEC	Ability Enhancement Compulsory Courses	2	6
3	SEC	Skill Enhancement Courses	2	5
4	DSC	Discipline-Specific Core Courses	49	122
5	DSE	Discipline-Specific Elective Courses	5	15
6	MDC	Multidisciplinary Courses	1	3
7	VAC	Value Added Courses	1	2
8	INT	Summer Internship	1	50
9	IKS	Indian Knowledge System	0	0
Total			63	203



Course outcomes (COs) and Program Outcome Mapping

CO/PO Mapping
(S/M/W indicates strength of correlation)
S-Strong, M-Medium, L-Low

Semester-I

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT011C01	S	S	M	S	M	S	M	M	S	M	M
24BMLT011C02	S	S	M	S	M	S	M	M	S	M	L
24BMLT011C03	S	S	M	S	M	S	M	M	S	M	L
24BMLT011C04	M	M	L	M	L	M	L	M	M	L	L
24BMLT011C05	S	S	M	S	M	S	M	M	S	M	M
24BMLT011C06	S	S	M	S	M	S	M	M	S	M	L
24BMLT011C07	S	S	M	S	M	S	M	M	S	M	L
24BMLT011C08	M	M	L	M	L	M	L	M	M	L	L
24BMLT011C09	M	M	L	M	L	M	L	M	M	L	M
24ENGL0AEC1	L	L	L	L	L	L	L	L	L	L	S
24BMLT011C010	L	L	M	L	L	L	L	L	L	L	M
24BMLT011C011	L	L	M	L	L	L	L	L	L	L	M

Semester-II

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT012C01	**S**	**S**	**M**	**S**	**M**	**S**	**M**	**M**	**S**	**M**	**M**
24BMLT012C02	**S**	**S**	**M**	**S**	**M**	**S**	**M**	**M**	**S**	**M**	**L**
24BMLT012C03	**S**	**S**	**M**	**S**	**M**	**S**	**M**	**M**	**S**	**M**	**L**
24BMLT012C04	**M**	**M**	**L**	**M**	**L**	**M**	**L**	**M**	**M**	**L**	**L**
24BMLT012C05	**S**	**S**	**M**	**S**	**M**	**S**	**M**	**M**	**S**	**M**	**M**
24BMLT012C06	**S**	**S**	**M**	**S**	**M**	**S**	**M**	**M**	**S**	**M**	**L**
24BMLT012C07	**S**	**S**	**M**	**S**	**M**	**S**	**M**	**M**	**S**	**M**	**L**
24BMLT012C08	**M**	**M**	**L**	**M**	**L**	**M**	**L**	**M**	**M**	**L**	**L**
224SOET0MDC1	**L**	**L**	**L**	**L**	**L**	**L**	**M**	**L**	**L**	**L**	**M**

Semester-III

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT023C01	S	S	M	S	M	S	M	M	S	M	M
24BMLT023C02	S	S	M	S	M	S	M	M	S	M	L
24BMLT023C03	S	S	M	S	M	S	M	M	S	M	L
24BMLT023C04	M	M	L	M	L	M	L	M	M	L	L
24BMLT023C05	S	S	M	S	M	S	M	M	S	M	M
24BMLT023C06	S	S	M	S	M	S	M	M	S	M	L
24BMLT023C07	S	S	M	S	M	S	M	M	S	M	L
24BMLT023C08	M	M	L	M	L	M	L	M	M	L	L
24SHS012CC1	L	L	M	L	L	L	L	L	L	L	S
24AGNS0VAC1	L	L	L	L	L	L	L	L	L	L	M

Semester- IV

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT024C01	S	S	M	S	M	S	M	M	S	M	M
24BMLT024C02	S	S	M	S	M	S	M	M	S	M	L
24BMLT024C03	S	S	M	S	M	S	M	M	S	M	L
24BMLT024C04	M	M	L	M	L	M	L	M	M	L	L
24BMLT024C05	S	S	M	S	M	S	M	M	S	M	M
24BMLT024C06	S	S	M	S	M	S	M	M	S	M	L
24BMLT024C07	S	S	M	S	M	S	M	M	S	M	L
24BMLT024C08	M	M	L	M	L	M	L	M	M	L	L
24BMLT024C09	L	L	S	L	S	S	M	L	L	L	S
24PSUG0SEC1	L	L	S	L	M	M	S	L	L	M	S

Semester- V

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT035C01	S	M	L	S	M	M	L	M	S	M	M
24BMLT035C02	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C03	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C04	M	M	L	M	L	M	L	M	M	L	L
24BMLT035C05	S	M	L	S	M	M	L	M	S	M	M

24BMLT035C06	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C07	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C08	M	M	L	M	L	M	L	M	M	L	L
24BMLT035C09	L	L	M	L	M	S	M	L	L	L	S
24BMLT035C010	L	L	M	L	M	S	M	L	L	L	S

Semester- IV

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT035C01	S	M	L	S	M	M	L	M	S	M	M
24BMLT035C02	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C03	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C04	M	M	L	M	L	M	L	M	M	L	L
24BMLT035C05	S	M	L	S	M	M	L	M	S	M	M
24BMLT035C06	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C07	S	S	M	S	M	S	M	M	S	M	L
24BMLT035C08	M	M	L	M	L	M	L	M	M	L	L
24BMLT035C09	L	L	M	L	M	S	M	L	L	L	S
24BMLT035C010	L	L	M	L	M	S	M	L	L	L	S

Semester- VI & VIII

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3
24BMLT047C01	S	S	S	S	M	S	M	S	S	S	S

Prepared By	Mr. Harpreet Singh
Verified By	
Date of Approval of Board of Studies	

Forwarded to the Registrar for Approval of Academic Council.

Professor & Dean

Date of Academic Council	
Approval of the Registrar	