Study & Evaluation Scheme of

B.Sc. Medical Lab Techniques (B.Sc. MLT)

[Applicable W.E.F. Academic Session - 2019-20 till Revised]

[As per CBCS guidelines given by UGC]





TEERTHANKER MAHAVEER UNIVERSITY

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B.Sc. Medical Lab Techniques (B.Sc. MLT) Syllabus as per CBCS (w.e.f. 2019-20)

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Basic Structure: Distribution of Courses								
S.No. Type of Course		Credit Hours						
1	Core Course (CC)	8 Courses of 3 Credit Hrs. each (Total Credit Hrs. 8X3)	24					
7 9	Discipline Specific Course	19 Courses of 3 Credit Hrs. each (Total Credit Hrs. 19X3)	57					
2	(DSC)	3 Courses of 2 Credit Hrs. each (Total Credit Hrs. 3X2)	6					
3	Discipline Specific Elective Course (DSEC)	1 Course of 3 Credit Hrs. (Total Credit Hrs. 1X3) 1 Course of 1 Credit Hrs. (Total Credit Hrs. 1X1)						
3	Ability-Enhancement Compulsory Course (AECC)	4 Courses of 3 Credit Hrs. each (Total Credit Hrs. 4X3) 1 Course of 4 Credit Hrs. (Total Credit Hrs. 1X4)						
4	Skill-Enhancement Elective	27 Courses of 1 Credit Hrs. each (Total Credit Hrs. 27X1)	27					
4	Course (SEC)	5 Course of 3 Credit Hrs. each (Total Credit Hrs.5X3)	15					
5	Open Elective Course (OEC)	1 Course of 3 Credit Hrs. (Total Credit Hrs. 1X3)						
6	Compulsory Specified Course (CSC)	2 Courses of 3 Credit Hrs. each (Total Credit Hrs.2X3)						
7	Value Added Course (VAC)	2 Courses of 0 Credit Hrs. each (Total Credit Hrs. 2X0)						
8	MOOC Course	2 Courses of 2 Credit Hrs. each (Total Credit Hrs. 2X2)	4					
F1 E	MARKET STEEL	Total Credits	162					

Contact hours include work related to Lecture, Tutorial and Practical (LTP), where our institution will have flexibility to decide course wise requirements.

B. Choice Based Credit System (CBCS)

Choice Based Credit System (CBCS) is a versatile and flexible option for each student to achieve his target number of credits as specified by the UGC and adopted by our University.

The following is the course module designed for the MLT program:

Core Course (CC): Core courses of MLT program will provide a holistic approach to health care education, giving students an overview of the field, a basis to build and specialize upon. These core courses are the strong foundation to establish health related knowledge and provide broad multi-disciplined knowledge can be studied further in depth during the elective phase.

The core courses will provide more practical-based knowledge, case-based lessons and collaborative learning models. It will train the students to analyze, decide, and lead-rather than merely know-while creating a common student experience that can foster deep understanding, develop decision-making ability and contribute to the business and community at large. We offer eight core courses from I-VI semester. Each CC ranges from 2-3credits.

Ability Enhancement Compulsory Course (AECC): As per the guidelines of Choice Based Credit System (CBCS) for all Universities, including the private Universities, the Ability Enhancement Compulsory Course (AECC) is a course designed to develop the ability of students in communication (especially English) and other related courses where they might find it difficult to communicate at a higher level in their prospective job at a later stage due to lack of practice and

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exposure in the language, etc. Students are motivated to learn the theories, fundamentals and tools of communication which can help them develop and sustain in the corporate environment and culture. We offer five AECCs courses from I –VI semester of the program. Each AECC ranges from 2-4 credits.

Program/Discipline Specific Elective Course (DSEC): The discipline specific elective course is chosen to make students specialist or having specialized knowledge of a specific domain like marketing, human resource, etc. It is covered in VI semester of the program relevant to chosen disciplines of core courses of the program. The student will have to choose any one out of two. This course is of 4 credit including theory and practical.

Skill Enhancement Course (SEC): These courses are designed to provide value-based and/or skill-based knowledge. We offer thirty two SECs from I-VI Semester. Each SEC ranges from 1-3 credits.

Open/Generic Elective Course (GEC): Open/Generic Elective is an interdisciplinary additional subject that is compulsory in the fifth and sixth semester of a program. The score of Open/Generic Elective is counted in your overall aggregate marks under Choice Based Credit System (CBCS). Dept. offers one open elective course of 3 credits in semV. Student should select one open elective course from the pool of courses provided by the university.

Compulsory Specified Course (CSC): This is a compulsory course that does not have any choice and will be of 3 credits. Each student of MLT program has to compulsorily pass this course.

Value Added Course (VAC): A value added audit course is a non-credit course which is basically meant to enhance general ability of students in areas like soft skills, quantitative aptitude and reasoning ability - required for the overall development of a student and at the same time crucial for industry/corporate demands and requirements. The student possessing these skills will definitely develop acumen to perform well during the recruitment process of any premier organization and will have the desired confidence to face the interview. Moreover, these skills are also essential in day-to-day life of the corporate world. The aim is to nurture every student for making effective communication, developing aptitude and a general reasoning ability for a better performance, as desired in corporate world. There shall be one course each in Semester III & Semester IV and will carry no credit, however, it will be compulsory for every student to pass these courses with minimum 45% marks to be eligible for the Degree certificate. These marks will not be included in the calculation of CPI. Students have to specifically be registered in the specific course of the respective semesters.

Massive open online course (MOOC) is an online course aimed at unlimited participation and open access via the web. In addition to traditional course materials, such as filmed lectures, readings, and problem sets, many MOOCs provide interactive courses with user forums or social media discussions to support community interactions among students, professors, and teaching assistants (TAs), as well as immediate feedback to quick quizzes and assignments. MOOCs are a recent and widely researched development in distance education first introduced in 2008 and emerged as a popular mode of learning in 2012.

College offers two MOOC courses each of 2 credits in IV & V semesters.

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B.Sc. MLT -Semester V

S. N	Category	Course Code	Course	Periods			Cre	Evaluation Scheme		
				L	T	P	dit	Internal	External	Tota
1	DSC-17	BML -S- 501	Immunohematology & Blood Banking	3	2-		3	40	60	100
2	CC-7	BML -S- 502	Clinical Enzymology & Automation	3	-	•	3	40	60	100
3	DSC-18	BML-S- 507	Medical Microbiology-I	3	-	-	3	40	60	100
4	DSC-19	BML -S- 504	Parasitology	3	•	-	3	40	60	100
5	DSC-20	BML-S- 505	Diagnostic Cytology	3	-		3	40	60	100
6	CSC-1	BML -S- 506	Principles of Laboratory Management	3	-	-	3	40	60	100
7	SEC-23	BML -S- 551	LAB: Immunohematology & Blood Banking			2	1	50	50	100
8	SEC-24	BML-S- 552	LAB: Clinical Enzymology	-		2	1	50	50	100
9	SEC-25	BML -S- 557	LAB: Medical Microbiology-I	-	-	2	1	50	50	100
10	SEC-26	BML-S- 554	LAB: Parasitology			2	1	50	50	100
11	SEC-27	BML-S- 555	LAB: Diagnostic Cytology-I	•	J -	2	1	50	50	100
12	SEC-28	BML-S- 556	Clinical Training	•	-	6	3	50	50	100
13		MOOC II		72			2	-	•	100
14		120	Open Elective				3	As Per University Guidelines		
		A PERSONAL PROPERTY.	Total	18	0	16	31	540	660	1300

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