



Sant Baba Bhag Singh UNIVERSITY

Village: Khiala; PO: Padhiana, Distt: Jalandhar 144030
Website: www.sbbsuniversity.ac.in Phone: 0181-2711163 Fax: 0181-2711655

Reference No: SBBSU/LS/2024/363b

Date: 13/05/2024

Subject: Proceedings of Departmental Academic/Curriculum Development Committee (CDC) Meeting for revision of programme curriculum.

A meeting of Departmental Academic/Curriculum development committee of Life Sciences and Allied Health Sciences was held on 13th March 2024 in Office of H.O.D. at 2:30 pm.

Members present:

Name	Designation	Signature
Dr. Shweta Singh	HOD, Life Sciences and Allied Health Sciences	
Dr Ranjana Cheema	Professor, Life Sciences	
Dr. Aksh Sharma	C.O.D, Assistant Professor	
Dr Indu Sharma	Associate Professor	
Dr. Chetna Sharma	Assistant Professor	
Dr. Younis Ahmad Majeed	Assistant Professor	
Dr. Talib Dar	Assistant Professor	
Dr. Vivek Kumar	Assistant Professor	
Dr Daljit Kaur	Assistant Professor	
Dr Jaerus Sahonta	Assistant Professor	

Agenda for the Meeting:

- Revision in course curriculum as per NEP 2020.
- Revision of the course curriculum on the basis of feedback from stakeholders.
- Introduction of New programmes in the department.
- Discussion regarding timely completion of internship and project work of final year students.
- Finalization of schedule & Experts for BOS for different disciplines.

Sr. No.	Agenda	Decision
1	Implementation of NEP	The course curriculum of B.Sc Medical to be amended as per the NEP 2020 and be implemented from July 2024 onwards.
2	Feedback of stakeholders	Final analysis report of feedback received from various stakeholders (Students, Teachers, Employers, Alumni) on curriculum have been discussed.
3	Introduction of new programmes	As per the current admission queries received in Admission Cell, the following new programmes need to be commenced from upcoming academic session viz. 2024 onwards: <ul style="list-style-type: none">• B.Sc AOTT (Anaesthesia and Operation Theatre Technology)• M.Sc (Clinical Biochemistry)• MPT



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4	Revision in course curriculum	<p>4.1 As per the feedback on curriculum by various stakeholders, NEP 2020 and as analysed through IQAC, various aspects of revision in course curriculum have been discussed.</p> <p>4.2 Syllabus could be revised/framed as per current needs of competitive exams (NET/SET), industry, technological aspects as well as to provide better employability & skills in concerned discipline.</p> <p>4.3 Revision of course curriculum of Ph.D (Botany, Microbiology, Zoology).</p> <p>4.3 All subject teachers should submit the due suggestions for syllabus revision so that it could be implemented in next academic year and approved through Board of Studies.</p>
5	Completion of internship and project work of final year students	<p>As per guidelines of UGC regarding timely declaration of results, all the UG and PG students should be instructed to commence their internship and project work by 1st week of January positively. MoU signed hospitals should be conveyed in this regard.</p>
6	BOS meeting	<p>6.1 As per the orders from higher authorities, Meeting of Board of studies for approval of revised and new syllabus have to be conducted before the commencement of next academic session. Expert panel for different disciplines viz: Botany, Zoology, Clinical Biochemistry, AOTT and Physiotherapy have been discussed and finalized.</p> <p>6.2 Tentative date for the same have been proposed on the basis of approval and availability of Experts.</p>
7	Revision of Nomenclature of B.Sc MLS	<p>The nomenclature of UG course B.Sc Medical Laboratory Sciences (MLS) to be revised as B.Sc Medical Laboratory Technology (MLT). This was recommended keeping in view the name of course offered by most of the nearby universities.</p>
8	Introduction of FYUG program in allied health courses	<p>Implementation of NEP 2020 in allied health courses; by introducing Four year under graduate program in B.Sc MRIT, B.Sc AOTT and B.Sc MLT*.</p> <p>(*Previously running as B.Sc MLS)</p>

The meeting ended with thanks to the chair.


Dr. Shweta Singh
HOD


Dr. Aksh Sharma
COD



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DEPARTMENT OF LIFE SCIENCES AND ALLIED HEALTH SCIENCES

Ref. No. SBBSU/LS/2024/3711A

Dated: 7.5.2024

The Vice-Chancellor,
SBBS University,
Jalandhar

Subject: For the approval of expert for BoS meeting of Four-Year B.Sc. Medical Laboratory Technology programme (UG062)

Respected Sir

This is submitted that the Department of Life Sciences and Allied Health Sciences proposes to conduct the meeting of BoS (Board of Studies) for the approval of the Scheme and Syllabus of B.Sc. Medical Laboratory four year Programme (UG062). The meeting of Board of Studies (BoS) may be conducted on 13th May, 2024 at 11:00 AM through online mode. You are requested to approve the date and timings of the meeting and the subject experts from the below-mentioned list of external experts (along with TA/DA and Honorarium, applicable as per rule) for the conduct of the BoS meeting.

S. No.	Name of Expert	Designation	Specialization	Institute
1	Dr. Promila	Professor (Retd.),	Clinical Biochemistry	BIS College of Science & Technology, Gagra, Moga
2	Dr. Ashok Guru	Pathologist	Clinical Pathology	Guru Nanak Sadh Sangat Charitable Hospital, Kalra
3	Ms Indu Bala	Assistant Professor and Academic Incharge	Clinical Biochemistry	Department of Allied Health Sciences, Chitkara University, Chandigarh
4	Dr. Vikas Gupta	Assistant Professor (Biotechnology)	Molecular Biology and Biochemistry	Department of Biotechnology, DAV College, Amritsar
5	Dr. RK Bansal	Sr. Biochemist (MD Biochemistry)	Clinical Biochemistry	Bansal Endocrinology & Clinical Laboratory, Ludhiana
6	Dr. Prabhjot kaur	Assistant Professor (Biotechnology)	Biochemistry	Dept. of Biochemistry, PIMS Hospital, Jalandhar

Submitted for kind consideration and approval, please.


Co-ordinator

Life Sciences and Allied Health Sciences


Head (Life Sciences) & Dean UIS

Indu Bala of Chitkara University, Chandigarh is approved.



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Department of Life Sciences and Allied Health Sciences

Invitation Letter

Ms. Indu Bala

Assistant Professor, (Department of Allied Health Sciences)
Chitkara University, Punjab

Email: indu.bala@chitkara.edu.in

Subject: Invitation for Board of Studies Meeting in the Department of Life Sciences & Allied Health Sciences, SBBSU

Dear Madam,

This is to bring to your kind notice that the meeting of the Board of Studies (BOS) of the Department of Life Sciences & Allied Health Sciences (Institute: UIS), SBBSU, Khiala, Jalandhar is going to be held on 13th May 2024. You have been nominated as an external subject expert for the BOS meeting by the competent authority. I feel honoured to invite you as an expert for the approval of the course scheme and syllabus of the 4-year B.Sc in Medical Laboratory Technology program. Your experience and expertise will be of great help to the Department and University.

Therefore, you are requested to kindly spare your valuable time to participate (through online mode) in the same on 13/05/2024 (Monday) at 2:00 pm onwards.


Dean Academics



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Website: www.sbbsuniversity.ac.in Phone: 0181-2711163 Fax: 0181-2711555

Ref. No: SBBSU/LS/2024/358A

Dated: 09/05/2024

Meeting Circular

It is my pleasure to inform you that you have been appointed as a member of the Board of Studies (BOS) meeting for the Four-Year undergraduate Programme viz: B.Sc. Medical Laboratory Technology offered by Life Sciences & Allied Health Sciences as per NEP 2020.

List of the BOS members is given below:

S.No.	Name	Subject	Designation	Institute	Position	Signature
1.	Dr Vijay Dhir	CSE	Dean Academics	Sant Baba Bhag Singh University, Jalandhar	Chairperson	
2.	Dr. Shweta Singh	Microbiology	Dean UIS	UIS	Member	
3.	Ms. Indu Bala	MLT/Clinical Biochemistry	Assistant Professor,	Department of Allied Health Sciences, Chitkara University	Expert Member	Online
4.	Dr. Aksh Sharma	Biotechnology	Assistant Professor, Coordinator, Department of Life Sciences and Allied Health Sciences	UIS	Member	
5.	Dr. Chetna Sharma	Biochemistry	Assistant Professor	UIS	Internal Member	
6.	Ms. Sonia Sharma	Microbiology/ MMLT	Assistant Professor	UIS	Internal Member	
7.	Dr. Jagdeep kaur (Dean UIET)/ Her representative				Member	
8.	Dr. Anand Kumar (Dean UIE)/ His representative				Member	
9.	Dr. (Dean UJL, UICAS)/ Her representative				Member	
10.	Dr. (Dean UICM)/ Her representative				Member	

You are requested to attend the meeting on 13/05/2024 (Monday) at 3:00 PM onwards through online mode. All are requested to join online as per the link details provided through email.



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Department of Life Sciences and Allied Health Sciences

Invitation Letter

Ms. Indu Bala

Assistant Professor, (Department of Allied Health Sciences)
Chitkara University, Punjab

Email: indu.bala@chitkara.edu.in

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3.	Ms. Indu Bala	MLT/Clinical Biochemistry	Assistant Professor,	Department of Allied Health Sciences, Chitkara University	Expert Member	Online
4.	Dr. Aksh Sharma	Biotechnology	Assistant Professor, Coordinator, Department of Life Sciences and Allied Health Sciences	UIS	Member	
5.	Dr. Chetna Sharma	Biochemistry	Assistant Professor	UIS	Internal Member	
6.	Ms. Sonia Sharma	Microbiology/ MMLT	Assistant Professor	UIS	Internal Member	
7.	Dr. Jagdeep kaur (Dean UJET)/ Her representative				Member	
8.	Dr. Anceel Kumar (Dean UIE)/ His representative				Member	
9.	Dr. (Dean UJIL, UICAS)/ Her representative				Member	
10.	Dr. (Dean UICM)/ Her representative				Member	

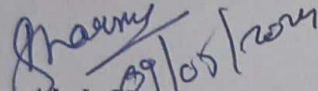
You are requested to attend the meeting on 13/05/2024 (Monday) at 3:00 PM onwards through online mode. All are requested to join online as per the link details provided through email.

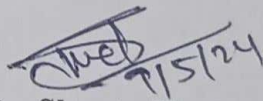


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The Agenda of the meeting will be as follows:

1. Discussion and revision of course scheme and syllabus of Four-Year B.Sc. Medical Laboratory Technology (Programme Code UG062) according to NEP 2020 for the admissions session 2024-2025 onwards.
2. Discussion on feasibility of multiple exit options in the B.Sc MLT programme as per NEP guidelines.
3. Incorporation and revision of PO, PEO, PSO, and CO in the light of the revised syllabus as per NEP 2020.
4. Discussion and approval on curriculum aspects based on Feedback of stakeholders.
5. Amendments of any suggestions by the experts regarding scheme and syllabus.


Dr. Aksh Sharma
Coordinator
Life Sciences and Allied Health Sciences
SBBSU


Dr. Shweta Singh
Dean UIS, SBBSU



Sant Baba Bhag Singh University

(University Established under Punjab Act No 8 of 2015)
Vill. Khiala, P.O. Padhana, Dist Jalandhar, Punjab, INDIA

External Expert Review Performa For Board of Studies

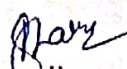
Name of External Expert : Ms. Indu Bala
Discipline : MLT & Clinical Biochemistry
Designation : Assistant Professor & Academic Incharge
Organization (Name & Address) : Chitkara University, Punjab
Contact No. : 8360054820
E-Mail ID : goswamiindu93@gmail.com
Date of Visit/Meeting : 9th July 2024

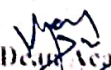
Reviewer's Comments :-
1. If possible kindly shift fundamentals of histology before applied histopathology subject.
2. Kindly review the syllabus of all the Haematology subjects as there is so much of overlapping.
3. You can offer online course through Swayam to your students for multidisciplinary education.
4. Rest all fine, your team is amazing.

❖ Use extra sheet(s) if required.


Signature

Date.....


Coordinator/HOD's/Dean's


Dean Academics

SANT BABA BHAG SINGH UNIVERSITY

University Institute of Sciences (UIS)

Ref. No: SBBSU/LS/2024/377B

Dated: 13/5/2024

Subject: Proceedings of the Board of Studies (BoS) meeting of Programme B.Sc. Medical Laboratory Technology as per NEP 2020, offered by the Life Sciences & Allied Health Sciences department

The meeting of members of BoS for B.Sc MLT Programme as per NEP 2020 was held on 13/5/2024 at 3:00 pm onwards in an online mode with Ms. Indu Bala, Assistant Professor and Academic Incharge, Department of Allied Health Sciences, Chitkara university, Punjab, was the external expert. The following other members were present and approved the points discussed below.

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1	Dr. Vijay Dhir	CSE	Dean Academics	SBBSU, Jalandhar	Chairperson
2	Dr. Shweta Singh	Microbiology	Dean UIS& Head (Life Sciences)	UIS	Member
3	Ms. Indu Bala	MLT and Clinical Biochemistry	Assistant Professor & Academic Incharge, Department of Allied Health Sciences	Chitkara University, Punjab	Expert Member
4	Dr. Aksh Sharma	Animal Biotechnology	Coordinator (Life Sciences)	Department of Life Sciences & Allied Health Sciences, UIS	Member
5	Dr. Chetna Sharma	Biochemistry and Molecular Biology	Assistant Professor	UIS	Internal Member
6	Dr. Younis Ahmad Hajam	Endocrinology	Assistant Professor	UIS	Internal Member
7	Dr. Talib Hussain Dar	Zoology	Assistant Professor	UIS	Internal Member
8	Dr. Vivek	Zoology	Assistant Professor	UIS	Internal Member
9	Ms. Sonia	Microbiology, MMLT	Assistant Professor	UIS	Internal Member
10	Dr. RK Bansal	Biochemistry	Biochemist	(Bansal Endocrinology and Clinical Laboratory)	External Member (Industry)
11	Ms. Pooja	Medical Microbiology	Student	Alumni, SBBSU	External Member

12	Ms Satvir Kaur	MLT (Clinical Microbiology)	Assistant Professor	UIS	Internal Member
13	Ms. Anjali	Medical Microbiology	Assistant Professor	UIS	Internal Member
Members from the other institutes of SBBSU:					
14	Dr. Jagdeep Kaur (Dean UIET)/ Her representative				Member
15	Dr. Aneet Kumar (Dean UIE & Dean UIH)/ His representative				Member
16	Dr. Pooja Bali (Dy. Dean UIL)/ Her representative				Member
17	Dr. Ajay Kumar Pathania (Dy. Dean UICM)/His representative				Member
18	Dr. Nirmal Kaur (Dy. Dean UICAIIS)/Her representative				Member

The following Agenda were discussed and approved in this BoS meeting:

1. Discussion and revision of proposed course scheme and syllabus of B.Sc. Medical Laboratory Technology, Programme Code, UG062 according to NEP2020 for the admissions of session July 2024 onwards. The model draft of B.Sc. MLT programme by MOHFW was referred.
2. Incorporation and revision of vision, mission, PO, PEO, PSO, and CO into the syllabus.
3. Discussion and approval on curriculum aspects based on feedback from stakeholders and BoS committee members.
4. Amendments of suggestions by the Subject Experts regarding scheme and syllabus.
5. Revision of Nomenclature of the Programme as B.Sc. MLT previously known as B.Sc. MLS.

Details of Proceedings of BoS Meeting

S. No.	Programme Name/ Programme Code	Course Code	Course Name	Remarks/ Observations by Experts/ Stakeholders/ BoS Committee members	Action Taken (Batch 2024 onwards)
1	B.Sc MLT/ UG062	MLT161	Anatomy & Physiology – I	Proposed course content along with learning/course objectives and course outcomes were approved.	Incorporated into the curriculum for the final draft of the syllabus to be implemented w.e.f academic session July 2024 onwards.
2	B.Sc MLT/ UG062	MLT165	Basics of Hematology	Minor content revised. Few topics have been shifted to next semesters and few have been added.	Changes incorporated into the curriculum.
3	B.Sc MLT/ UG062	MLT169	Microbiology	Minor content updated and revised.	Incorporated as suggested by the expert member.

4	B.Sc MLT/ UG062	MLT173	Fundamentals of Medical Lab Technology	Course content approved with 3 credits instead 4.	Revised and updated into the scheme.
5	B.Sc MLT/ UG062	MLT177	Medical Law & Ethics	Approved with the same code and content as a foundation course.	Incorporated in the curriculum
6	B.Sc MLT/ UG062	AE0010	Communication Skills in English - I	Course content approved and incorporated	Incorporated into the curriculum
7	B.Sc MLT/ UG062	MLT163	Anatomy & Physiology - I Practical	Content approved with minor revision	Incorporated into the curriculum as suggested
8	B.Sc MLT/ UG062	MLT167	Basics of Hematology Practical	List of experiments approved with 1.5 credits and 3 contact hours	Incorporated into the curriculum.
9	B.Sc MLT/ UG062	MLT171	Microbiology Practical	List of experiments approved with 1.5 credits and 3 contact hours	Amended and incorporated into the curriculum.
10	B.Sc MLT/ UG062	MLT175	Fundamentals of Medical Lab Technology Practical	Course content approved with 1 credit and 2 contact hours.	Incorporated into the curriculum
11	B.Sc MLT/ UG062	MLT162	Anatomy & Physiology - I	Course content approved with minor revision	Incorporated into the curriculum
12	B.Sc MLT/ UG062	MLT166	Basics of Haematological Diseases	Course content approved with minor revision (clotting mechanism has been added)	Incorporated into the curriculum
13	B.Sc MLT/ UG062	MLT170	Bacteriology	Course content approved with minor revision (Types of Staining & bio-chemical tests have been added additionally	Incorporated into the curriculum
14	B.Sc MLT/ UG062	MLT174	Basic Biochemistry	Approved with the same content and credits.	Incorporated into the curriculum
15	B.Sc MLT/ UG062	MLT178	Analytical Biochemistry	Course content approved with minor revision	Incorporated into the curriculum
16	B.Sc MLT/ UG062	AE0011	Communication Skills in English - II	Course content approved and incorporated	Incorporated into the curriculum as AECC
17	B.Sc MLT/ UG062	MLT164	Anatomy & Physiology - II Practical	List of experiments approved with 1 credit and 2 contact hours	Incorporated into the curriculum as suggested
18	B.Sc MLT/ UG062	MLT168	Basics of Haematological Diseases Practical	List of experiments approved with minor content revision (Urine routine analysis has been deleted and shifted to clinical biochemistry practical in 4 th semester)	Incorporated into the curriculum as suggested

19	B.Sc MLT/ UG062	MLT172	Bacteriology Practical	Approved with proposed content and credits.	Incorporated and implemented.
20	B.Sc MLT/ UG062	MLT176	Basics of Biochemistry Practical	Approved with proposed content and credits.	Incorporated and implemented.
21	B.Sc MLT/ UG062	MLT180	Analytical Biochemistry Practical	List of practicals revised and updated with 1 credit and 2 contact Hours	Incorporated in the curriculum and implemented.
22	B.Sc MLT/ UG062	MLT261	Biochemical Metabolism	Approved the proposed content with 4 credits instead of 3	Credits increased from 3 to 4 Incorporated and implemented.
23	B.Sc MLT/ UG062	MLT265	Parasitology	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
24	B.Sc MLT/ UG062	MLT269	Cellular Pathology	Contents revised and updated with 4 credits instead of 3	Incorporated into the curriculum and implemented.
25	B.Sc MLT/ UG062	EVS200	Environment Education	Approved with the proposed content and credits	Incorporated in the curriculum as an AECC
26	B.Sc MLT/ UG062	SSC001	Gender Equity	Approved with the proposed content and credits	Incorporated in the curriculum as an AECC
27	B.Sc MLT/ UG062	MLT273	Introduction to Quality and Patient Safety	Approved with the proposed content and credits as SECC courses	Incorporated into the curriculum and implemented as SECC
28	B.Sc MLT/ UG062	MLT263	Biochemical metabolism Practical	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
29	B.Sc MLT/ UG062	MLT267	Parasitology Practical	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
30	B.Sc MLT/ UG062	MLT271	Cellular Pathology Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
31	B.Sc MLT/ UG062	CSE213	Basics of Computers Practical	Approved with the proposed content and credits	Incorporated in the curriculum as ID
32	B.Sc MLT/ UG062	MLT262	Clinical Biochemistry	Minor content revised and updated	Incorporated into the curriculum and implemented.
33	B.Sc MLT/ UG062	MLT266	Applied Haematology – I	Minor content revised and updated	Incorporated into the curriculum and implemented.
34	B.Sc MLT/ UG062	MLT270	Immunology & Bacterial Serology	Minor content revised and updated	Incorporated into the curriculum and implemented.

35	B.Sc MLT/ UG062	MLT274	Histopathology- I	Minor content revised and updated	Incorporated into the curriculum and implemented.
36	B.Sc MLT/ UG062	MLT278	Applications of Bacteriology	Approved with the proposed content and credits	Incorporated in the curriculum as an SECC
37	B.Sc MLT/ UG062	MLT282	Indian Knowledge System- Introduction To National Healthcare Delivery System in India	Approved with the proposed content and credits as VAC	Incorporated into the curriculum and implemented as VAC according to IKS
38	B.Sc MLT/ UG062	MLT284	Medical Terminology and Medical Records	Approved with the proposed content and credits as AECC courses	Incorporated into the curriculum and implemented as AECC
39	B.Sc MLT/ UG062	MLT264	Clinical Biochemistry Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
40	B.Sc MLT/ UG062	MLT268	Applied Hematology - I Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
41	B.Sc MLT/ UG062	MLT272	Immunology & Bacterial Serology Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
42	B.Sc MLT/ UG062	MLT276	Histopathology- I Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
43	B.Sc MLT/ UG062	MLT280	Applications of Bacteriology Practical	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
44	B.Sc MLT/ UG062	MLT361	Applied Clinical Biochemistry	Minor content revised and updated	Incorporated into the curriculum and implemented.
45	B.Sc MLT/ UG062	MLT365	Applied Haematology – II	Minor content revised and updated	Incorporated into the curriculum and implemented.
46	B.Sc MLT/ UG062	MLT369	Histopathology II	Minor content revised and updated	Incorporated into the curriculum and implemented.
47	B.Sc MLT/ UG062	MLT373	Health Systems and Laboratory Ethics	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
48	B.Sc MLT/ UG062	MLT375	Virology	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
49	B.Sc MLT/ UG062	MLT379	Endocrinology and Toxicology	Approved with the proposed content and credits	Incorporated in the curriculum as an SECC

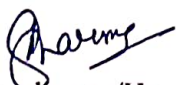
50	B.Sc MLT/ UG062	COM317	Generic skills and Entrepreneurship	Approved with the proposed content and credits	Incorporated in the curriculum as ID
51	B.Sc MLT/ UG062	MLT363	Applied Clinical Biochemistry Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
52	B.Sc MLT/ UG062	MLT367	Applied Haematology – II Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
53	B.Sc MLT/ UG062	MLT371	Histopathology II Practical	Minor content revised and updated	Incorporated into the curriculum and implemented.
54	B.Sc MLT/ UG062	MLT362	Medical Mycology	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
55	B.Sc MLT/ UG062	MLT366	Blood Banking & Genetics	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
56	B.Sc MLT/ UG062	MLT370	Molecular Biology	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
57	B.Sc MLT/ UG062	MLT374	Cytopathology	Approved with the proposed content and credits	Incorporated in the curriculum as an DSE
58	B.Sc MLT/ UG062	MLT378	Advanced Haematology		
59	B.Sc MLT/ UG062	MLT382	Biostatistics and Research Methodology	Approved with the proposed content and credits	Incorporated in the curriculum as an SECC
60	B.Sc MLT/ UG062	MLT364	Medical Mycology Practical	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
61	B.Sc MLT/ UG062	MLT368	Blood Banking & Genetics Practical	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
62	B.Sc MLT/ UG062	MLT372	Molecular Biology Practical	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.
63	B.Sc MLT/ UG062	MLT376	Cytopathology Practical	Approved with the proposed content and credits	Incorporated in the curriculum as an DSE
64	B.Sc MLT/ UG062	MLT380	Advanced Haematology Practical		
65	B.Sc MLT/ UG062	MLT384	Community Orientation and Clinical visit	Content approved for Practical orientation and human values & Professional ethics.	Incorporated into the curriculum and implemented.
66	B.Sc MLT/ UG062	MLT386	Seminar	Approved with the proposed content and credits	Incorporated into the curriculum and implemented.

68	B.Sc MLT/ UG062	MLT461	Professional Training- I	Proposed duration i.e six months of Professional cum practical training in any hospital/clinical settings was approved	Incorporated into the curriculum and implemented.
69	B.Sc MLT/ UG062	MLT462	Professional Training- II	Proposed duration i.e six months of Professional cum practical training in any hospital/clinical settings was approved	Incorporated into the curriculum and implemented.

Besides above-mentioned suggestions, the subject experts suggested to add some more reference books in the prescribed text and reference book section.

The meeting ended with a vote of thanks by Dean UIS.

Thank you in anticipation



In-Charge/Coordinator/Head of the Department




Dean of Institute

Some Glimpse of BOS meeting

Ma Sharma (You, presenting) Stop presenting

15:00 | ont-nyj-ovv

SCHEME & SYLLABUS
Bachelor in Medical Laboratory Technology
(Choice Based Credit System)
Program Code: UG062



15:03 | ont-nyj-ovv

Ma Sharma (You, presenting) Stop presenting

Course Scheme
B.Sc. MLT (SEMESTER I-VIII)

SEMESTER I

I. Theory Subjects

S. No	Sub Code	Subject Name	Contact Hours (L-T-P)	Credits (L-T-P)	Total Contact Hours	Total Credits	Course Type
1	MLT141	Human Anatomy & Physiology I	4:00	4:00	4	4	CC
2	MLT145	Basis of Hematology	3:00	3:00	3	3	CC
3	MLT149	Microbiology	4:00	4:00	4	4	CC
4	MLT173	Fundamentals of Medical Lab Technology	3:00	3:00	3	3	CC
5	MLT177	Medical Laws & Ethics	2:00	2:00	2	2	CC
6	ALCC010	Communication Skills - I	2:00	2:00	2	2	ALCC

II. Practical Subjects

S. No	Sub Code	Subject Name	Contact Hours (L-T-P)	Credits (L-T-P)	Total Contact Hours	Total Credits	Course Type
1	MLT143	Human Anatomy & Physiology - I	0:02	0:02	2	1	CC

15:33 | ont-nyj-ovv

Ma Sharma (You, presenting) Stop presenting

UNIT I
Cell Injury and Adaptation: Normal Cell: types of cell injury; morphology and etiology of cell injury; cellular reactions
Types of cell death: necrosis, apoptosis and pyroptosis
Cellular Adaptation: atrophy, hypertrophy, hyperplasia and dysplasia
Inflammation: types, acute and chronic inflammation; events involved in inflammatory response

UNIT II
Microbial Pathogens: Bacteria, Fungi, Parasites, Protozoa, Viruses, Prions, and Prion-like proteins; Bacteriophages, bacteriostats & bactericides

UNIT III
Neoplasia: Definition, how does it arise? from benign to malignant; difference between benign tumor and malignant tumor

UNIT IV
Hematology: Definition, definition of hematology, factors affecting normal hematology

UNIT V
Clinical and Systemic Pathology: Study of diseases of various body system and organs
Alimentary: Causal, diseases of mouth, diseases of esophagus, pathological changes, gastric, peptic, duodenal, ulcer, malabsorption, liver, pancreatic, biliary, intestinal, abdominal and gastrointestinal
Respiratory: associated with accessory digestive glands, esophagus, liver, biliary, pancreas, intestinal, full system and pathology
Cardiovascular diseases: diseases of blood-vessels, Arteries, heart, blood, Disorders of blood Pressure-Hypertension & Hypotension

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SCHEME&SYLLABUS

Bachelor in Medical Laboratory Technology

(Four Year Program as per NEP2020)

ProgramCode:UG062



**Department of Life Sciences & Allied Health
Sciences(UIS)**

**Sant Baba Bhag Singh
University 2024**

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Course Scheme B.Sc. MLT (SEMESTER I-VIII)

SEMESTER I

I.Theory Subjects

S. No	Sub Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credits Hours	Course Type
1	MLT161	Anatomy & Physiology – I	4:0:0	4:0:0	4	4	CC
2	MLT165	Basics of Hematology	3:0:0	3:0:0	3	3	CC
3	MLT169	Microbiology	4:0:0	4:0:0	4	4	CC
4	MLT173	Fundamentals of Medical Lab Technology	3:0:0	3:0:0	3	3	CC
5	MLT177	Medical Laws & Ethics	2:0:0	2:0:0	2	2	CC
6	AEC010	Communication Skills in English – I	2:0:0	2:0:0	2	2	AECC

II. Practical Subjects

1	MLT163	Anatomy & Physiology – I Practical	0:0:2	0:0:1	2	1	CC
2	MLT167	Basics of Hematology Practical	0:0:3	0:0:1.5	3	1.5	CC
3	MLT171	Microbiology Practical	0:0:3	0:0:1.5	3	1.5	CC
4	MLT175	Fundamentals of Medical Lab Technology Practical	0:0:2	0:0:2	2	1	AECC
5	PT 161/ 163/ 165	Physical Training- 1 (NSO/NCC/NSS)	0:0:2	Non Credits	2	NC	
Total					30	23	

Total Contact hrs: 30
Total CreditHours:23

SEMESTER-II**I.TheorySubjects**

S. No	Sub Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credits Hours	Course Type
1	MLT162	Anatomy & Physiology – II	4:0:0	4:0:0	4	4	CC
2	MLT166	Basics of Haematological Diseases	3:0:0	3:0:0	3	3	CC
3	MLT170	Bacteriology	4:0:0	4:0:0	4	4	CC
4	MLT174	Basics of Biochemistry	4:0:0	4:0:0	4	4	CC
5	MLT178	Analytical Biochemistry	3:0:0	3:0:0	3	3	CC
6	AEC011	Communication Skills in English – II	2:0:0	2:0:0	2	2	AECC

II.PracticalSubjects

1	MLT164	Anatomy & Physiology – II Practical	0:0:2	0:0:1	2	1	CC
2	MLT168	Basics of Haematological Diseases Practical	0:0:3	0:0:1.5	3	1.5	CC
3	MLT172	Bacteriology Practical	0:0:3	0:0:1.5	3	1.5	CC
4	MLT176	Basics of Biochemistry Practical	0:0:2	0:0:1	2	1	CC
5	MLT180	Analytical Biochemistry Practical	0:0:2	0:0:1	2	1	CC
6	PT 162/ 164/ 166	Physical Training- 2 (NSO/NCC/NSS)	0:0:2	Non Credits	2	NC	
Total					34	26	

Total Contact hrs: 34
Total Credit Hours: 26

Sumi
 4/19/24

Adhish

Harish
Dr. D.
Dr. S.

SEMESTER III**I. Theory Subjects**

S.No	Sub Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credits Hours	Course Type
1	MLT261	Biochemical Metabolism	4:0:0	4:0:0	4	4	CC
2	MLT265	Parasitology	4:0:0	4:0:0	4	4	CC
3	MLT269	Cellular Pathology	4:0:0	4:0:0	4	4	CC
4	MLT273	Introduction to Quality and Patient safety	2:0:0	2:0:0	2	2	SECC
5	SSC001	Gender Equity	3:0:0	3:0:0	3	3	ID
6	EVS200	Environment Education	4:0:0	4:0:0	4	4	AECC

II. Practical Subjects

1	MLT263	Biochemical Metabolism Practical	0:0:3	0:0:1.5	3	1.5	CC
2	MLT267	Parasitology Practical	0:0:2	0:0:1	2	1	CC
3	MLT271	Cellular Pathology Practical	0:0:2	0:0:1	2	1	CC
4	CSE213	Basics of Computers Practical	0:0:3	0:0:1.5	3	1.5	ID
5	PT 261/263/265	Physical Training- 3 (NSO/NCC/NSS)	0:0:2	Non Credits	2	NC	PT
Total					33	26	

Total Contact hrs: 33
Total Credit Hours: 26

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SEMESTER- IV**I. Theory Subjects**

Sr. No.	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours	Course Type
1	MLT262	Clinical Biochemistry	3:0:0	3:0:0	3	3	CC
2	MLT266	Applied Haematology – I	3:0:0	3:0:0	3	3	CC
3	MLT270	Immunology & Bacterial Serology	4:0:0	4:0:0	4	4	CC
4	MLT274	Histopathology- I	3:0:0	3:0:0	3	3	CC
5	MLT278	Applications of Bacteriology	2:0:0	2:0:0	2	2	SECC
6	MLT282	Indian Knowledge System- Introduction To National Healthcare Delivery System in India	2:0:0	2:0:0	2	2	VAC
7	MLT284	Medical Terminology and Record Keeping	2:0:0	2:0:0	2	2	AECC

II. Practical Subjects

1	MLT264	Clinical Biochemistry Practical	0:0:2	0:0:1	2	1	CC
2	MLT268	Applied Hematology - I Practical	0:0:3	0:0:1.5	3	1.5	CC
3	MLT272	Immunology & Bacterial Serology Practical	0:0:3	0:0:1.5	3	1.5	CC
4	MLT276	Histopathology- I Practical	0:0:2	0:0:1	2	1	CC
5	MLT280	Applications of Bacteriology Practical	0:0:2	0:0:1	2	1	SECC
6	PT262/264/266	Physical Training- 4 (NSO/NCC/NSS)	0:0:2	Non Credits	2	NC	PT
Total					33	25	

Total Contact hrs: 33
Total Credit Hours: 25

Carina
Shalini
Janvi
Janvi

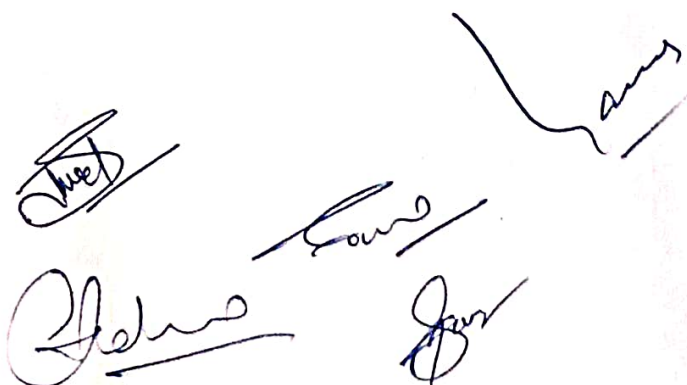
SEMESTER-V**I. Theory Subjects**

Sr. No.	Subject Code	Subject Name	L:T:P	Credit hours	Total Contact Hours	Total Credits	Course Type
1	MLT361	Applied Clinical Biochemistry	3:0:0	3:0:0	3	3	CC
2	MLT365	Applied Haematology – II	3:0:0	3:0:0	3	3	CC
3	MLT369	Histopathology- II	4:0:0	4:0:0	4	4	CC
4	MLT373	Health Systems and Laboratory Ethics	3:0:0	3:0:0	3	3	CC
5	MLT375	Virology	3:0:0	3:0:0	3	3	CC
6	MLT379	Endocrinology and Toxicology	2:0:0	2:0:0	2	2	SECC
7	COM317	Generic skills and Entrepreneurship	2:0:0	2:0:0	2	2	ID

II. Practical Subjects

1	MLT363	Applied Clinical Biochemistry Practical	0:0:3	0:0:1.5	3	1.5	CC
2	MLT367	Applied Haematology – II Practical	0:0:3	0:0:1.5	3	1.5	CC
3	MLT371	Histopathology II Practical	0:0:2	0:0:1.0	2	1.0	CC
Total					28	24	

Total Contact hrs:28
Total Credit Hours: 24



SEMESTER-VI

Sr. No.	Subject Code	Subject Name	L:T:P	Credit hours	Total Contact Hours	Total Credits	Course Type
1	MLT362	Medical Mycology	3:0:0	3:0:0	3	3	CC
2	MLT366	Blood Banking & Genetics	3:0:0	3:0:0	3	3	CC
3	MLT370	Molecular Biology	3:0:0	3:0:0	3	3	CC
4	MLT374	Cytopathology	3:0:0	3:0:0	3	3	DSE
5	MLT378	Advanced Haematology					
6	MLT382	Biostatistics and Research Methodology	3:0:0	3:0:0	3	3	SECC

III. Practical Subjects

1	MLT364	Medical Mycology Practical	0:0:3	0:0:1.5	3	1.5	CC
2	MLT368	Blood Banking & Genetics Practical	0:0:2	0:0:1	2	1.0	CC
3	MLT372	Molecular Biology Practical	0:0:3	0:0:1.5	3	1.5	CC
4	MLT376	Cytopathology Practical	0:0:2	0:0:1	2	1.0	DSE
5	MLT380	Advanced Haematology Practical					
6	MLT384	Community Orientation and Clinical visit	0:0:2	0:0:1	2	1.0	SECC
7	MLT386	Seminar	0:0:2	0:0:1	2	1.0	CC
Total					29	22	

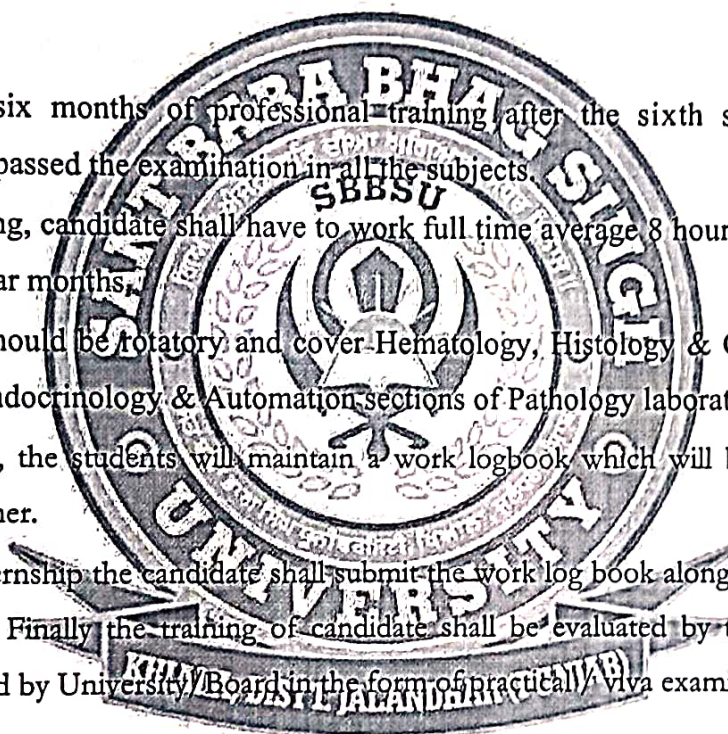
Total Contact hrs: 29
Total Credit Hours: 22





SEMESTER-VII

Sr. No.	Subject Code	Subject Name	L:T:P	Credit hours	Total Contact Hours	Total Credits	Course Type
1	MLT461	Professional Training- I	0:0:0	0:0:0	6 Months (720 Hrs)	20	

Total Credit Hours: 20**Professional Training**

- There shall be six months of professional training after the sixth semester for candidates declared to have passed the examination in all the subjects.
- During the training, candidate shall have to work full time average 8 hours per day (each working day) for 6 calendar months.
- The Internship should be rotatory and cover Hematology, Histology & Cytology, Biochemistry, Microbiology, Endocrinology & Automation sections of Pathology laboratory.
- As a part of this, the students will maintain a work logbook which will be duly endorsed by the supervisor or trainer.
- At the end of internship the candidate shall submit the work log book along with certificate from the training institute. Finally the training of candidate shall be evaluated by the internal and external examiners deputed by University/Board in the form of practical/ viva examination.



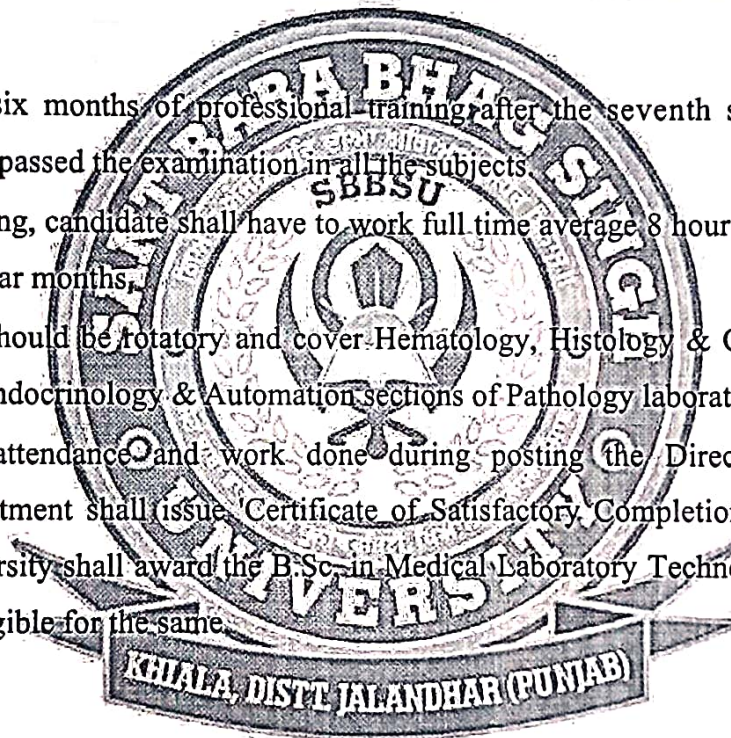





SEMESTER – VIII**1. Theory Subjects/Training**

Sr. No.	Subject Code	Subject Name	L:T:P	Credit hours	Total Contact Hours	Total Credits	Course Type
1	MLT462	Professional Training- II	0:0:0	0:0:0	6 Months (720 Hrs)	20	

Professional Training

- There shall be six months of professional training after the seventh semester for candidates declared to have passed the examination in all the subjects.
- During the training, candidate shall have to work full time average 8 hours per day (each working day) for 6 calendar months.
- The Internship should be rotatory and cover Hematology, Histology & Cytology, Biochemistry, Microbiology, Endocrinology & Automation sections of Pathology laboratory.
- Based on the attendance and work done during posting the Director/Principal/ Head of Institution/Department shall issue 'Certificate of Satisfactory Completion' of training following which the University shall award the B.Sc. in Medical Laboratory Technology Degree or declare the candidate eligible for the same.



No candidate shall be awarded degree without successfully completing six months internship.

[Handwritten signatures and initials]

Course Scheme Summary

Semester	L	T	P	Contact hrs/wk	Credits	Project Training
1	16	0	14	30	23	-
2	20	0	14	34	26	-
3	17	0	12	29	22	-
4	20	0	14	34	26	-
5	20	0	08	28	24	-
6	15	0	14	29	22	-
7	0	0	0	20	20	6 months
8	0	0	0	20	20	6 months
TOTAL	108	0	76	224	183	

Total Contact hrs for I-VIII semester: 224

Total Credit Hours for I-VIII semester: 183

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Saur
Sachin
Saur