



DEPARTMENT OF PARAMEDICAL SCIENCES
Subharti Medical College

Recognized by Govt. of India, Ministry of Health & Family Welfare, Govt. Letter No. U.12012/69/96-ME(P)
Website: medical.subharti.org, e-mail: medical@subharti.org, Ph: 0121-3055000 (Extn: 2118), Telefax: 0121-2439127, 2439067
A constituent college of

SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)



Ref. No./SVSU/PMS/2023/1825[®]

Dated: 14.02.2023

Notice

A BOS meeting is schedule to be held on 17th February 2023 at 11:00 am onwards in the departmental conference hall. All Faculty members are directed to attend the meeting on time with their agenda.

Agenda to be discuss

Agenda 1: Discussion on the Implementation of last BOS agenda.

Agenda 2: Modification of UG, PG Curriculum & syllabus.

Agenda 3: Comparison between new and old curriculum and syllabus.

Agenda 4: Identify slow and fast learners based on a first internal assessment.

Agenda 5: Introduction of New program "Doctor of Philosophy" doctoral program in all Medical Laboratory Technology discipline.


Agenda 6: The formation of question papers according to Bloom's taxonomy from next academic year 2023-2024 onwards.

Agenda 7: Implementation of Revised fee structure for UG Courses from the academic session 2023-2024.

Agenda 8: Implementation of two diploma courses, namely **Diploma in Optometry** and **Diploma in CT-Scan Technician**.

Agenda 9: Implementation of MOOC courses along with their credit from the academic year 2022-23.

Agenda 10: Implementation of credit points and credit hours for all UG & PG courses as per the UGC criteria.


D.C. Saxena
Dir. (Gen.) SVSU
Director (General)


Dr. Pankaj Kishor Mishra
Head of Academics


Dr. Umesh Kumar
Head of Department

Checked & Prepared By:

Akanksha Singh

Assistant Professor



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Ref. No-SVSU/PMS/2023/.1875(a)

Date: 22/02/2023

To
The Principal,
Subharti Medical College,
Swami Vivekanand Subharti University, Meerut

Subject: Minutes of Meeting of Board of Studies which held on 17/02/2023

Dear Sir,

A meeting of Board of Studies, Department of Paramedical Sciences, SMC was held on 17/02/2023 and following agendas was discuss in meeting and send to Faculty board for the approval.

Agenda 1: Discussion on the Implementation of last BOS agenda.

Agenda 2: Revision of UG and PG Curriculum and Ordinances.

Agenda 3: Introduction of New program "Doctor of Philosophy" in all Medical Laboratory Technology discipline.

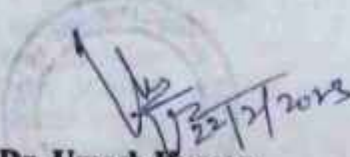
Agenda 4: Implementation of Revised fee structure for UG Courses (B.Sc. MLT, B.Sc. RIT and Bachelor of Optometry) from the academic session 2023-2024.

Agenda 5: Implementation of two diploma courses, namely Diploma in Optometry and Diploma in CT-Scan Technician.

Agenda 6: Implementation of MOOC courses along with their credits from the academic year 2023-24.

Agenda 7: Nomenclature of BMIT and MMIT program is changed to BRIT and MRIT respectively according to UP State Medical Faculty, Lucknow.

hew-4
(D.C. Saxena) 23.2.23
Director (General)
DC SAXENA
Dir. (Gen.), SVSU


Dr. Umesh Kumar
(HOD)
Dept. of Paramedical Sciences
SMC, Meerut

Enclosure: Minutes of Meeting



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Ref. No./SVSU/PMS/2023/1875C6)

Dated: 22.02.2023

A BOS Meeting was held on 17th February, Friday at 11:00 AM in Departmental Conference Hall under the guidance of Dr. Umesh Kumar, Head of Department of Paramedical Sciences, SMC, Meerut.

The following members were present in meeting-

- | | |
|---|----------|
| 1. Dr. D.C. Saxena | Chairman |
| 2. Dr. Umesh Kumar | Member |
| 3. Dr. Prof. (Dr.) Pankaj Kishor Mishra | Member |
| 4. Dr. Anshu Kumar Singh | Member |
| 5. Dr. Meenakshi Mishra | Member |
| 6. Mr. Ravindra Kumar Manik | Member |
| 7. Mr. Akash Kumar | Member |
| 8. Ms. Kajal Tyagi | Member |
| 9. Mrs. Hiba | Member |
| 10. Ms. Akanksha Singh | Member |
| 11. Mr. Rahul | Member |
| 12. Mr. Pushpendra Rajput | Member |
| 13. Mr. Ankit | Member |
| 14. Ms. Shmruti | Member |
| 15. Ms. Yashika Bhardwaj | Member |

One Faculty Member Ms. Pooja Saxena, Assistant Professor was unable to attend the BOS Meeting due to health reasons.

All the participants were welcomed by Chairman and Head of Department. The following agendas were discussed in the meeting-

Agenda 1: Discussion on the Implementation of last BOS agenda.

Suggestion: Last BOS agendas have been implemented.

Agenda 2: Revision of UG and PG Curriculum and Ordinances.

Suggestion: All UG and PG Curriculum and Ordinances have been discussed with the incorporation of credits and credit hours in the BOS thoroughly and send to the Faculty Board SMC and University Academic Council.

Agenda 3: Introduction of New program "Doctor of Philosophy" in all Medical Laboratory Technology discipline.

Suggestion: Introduction of "Doctor of Philosophy" in all Medical Laboratory Technology discipline has been discussed in the BOS thoroughly and send to the Faculty Board SMC and University Academic Council.

Agenda 4: Implementation of Revised fee structure for UG Courses (B.Sc. MLT, B.Sc. RIT and Bachelor of Optometry) from the academic session 2023-2024.

Suggestion: Implementation of Revised fee structure for UG Courses (B.Sc. MLT, B.Sc. RIT and Bachelor of Optometry) from the academic session 2023-2024 has been discussed in the BOS thoroughly and send to the Faculty Board SMC and University Academic Council.

Agenda 5: Implementation of two diploma courses, namely **Diploma in Optometry** and **Diploma in CT-Scan Technician**.

Suggestion: Implementation of two diploma courses, namely **Diploma in Optometry** and **Diploma in CT-Scan Technician**. The department of Paramedical Sciences has received approval from U.P State Medical Faculty, Lucknow for starting two diploma courses, namely Diploma in Optometry and Diploma in CT-Scan Technician from the academic session 2023-2024. These courses were discussed in the BOS thoroughly and send to the Faculty Board SMC and University Academic Council.

Agenda 6: Implementation of MOOC courses along with their credits from the academic year 2023-24.


Suggestion: Implementation of MOOC courses along with their credits from the academic year 2023-24 has been discussed in the BOS thoroughly and send to the Faculty Board SMC and University Academic Council.

Agenda 7: Nomenclature of BMIT and MMIT program is changed to BRIT and MRIT.

Suggestion: Nomenclature of BMIT and MMIT program is changed to BRIT and MRIT respectively, according to the guidelines from U.P State Medical Faculty, Lucknow. These changes have been discussed in the BOS thoroughly and send to the Faculty Board SMC and University Academic Council.

The Dr. D.C. Saxena, Chairman and Dr. Umesh Kumar, Head of Department, Department of Paramedical Sciences, has concluded the BOS meeting with the vote of thanks.


D.C. Saxena
Director (General)
DC SAXENA
Dir. (Gen.), SVSU


Dr. Umesh Kumar
Head of Department

BOS SUMMARY

B.Sc. MLT

YEAR-I

Old Subject Name	New approved Subject Name
Paper I: General Pathology and Hematology	No change
Paper II: General Microbiology and Immunology	No change
Paper III: General Biochemistry	No change
Paper IV: Human Anatomy and Physiology	No change
Paper V: Computational Skills and biostatistics	No change
Paper VI: General English and Communication Skill	No change

Paper I: General Pathology and Hematology	Paper I: General Pathology and Hematology
Paper Code: BMLT-101 for Theory and Practical both	Paper Code: BMLT-101 for Theory BMLT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: General Pathology	Unit 1: Pathology and Laboratory Organization
Unit 2: Hematology	Unit 2: Blood and Blood Collection
	Unit 3: Body Fluids and Examination
	Unit 4: Anemia and Investigation
	Unit 5: Bleeding Disorders and its Investigation
Paper II: General Microbiology and Immunology	Paper II: General Microbiology and Immunology

Paper Code: BMLT-102 for Theory and Practical both	Paper Code: BMLT-102 for Theory BMLT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 05	Total number of units: 05
Unit 1: Introduction to Microbiology	Unit 1: No change
Unit 2: Bacterial Staining and Cultivation	Unit 2: Culture media and culture methods
Unit 3: Working of the Laboratory	Unit 3: Working of the bacteriology Lab Organization
Unit 4: Instrumentation	Unit 4: No change
Unit 5: Immunology Sub Unit -I: Basic Immunology Sub Unit -II: Antigen-Antibody Reaction Sub Unit - III: Immunological Techniques Sub Unit - IV: Vaccines and Vaccination	Unit 5: Basic Immunology (merging of all sub unit)
Paper III: General Biochemistry	
Paper Code: BMLT-103 for Theory and Practical both	Paper Code: BMLT-103 for Theory BMLT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 08	Total number of units: 05
Part - A:- (Basic biochemistry) Sub Unit I: No Name Sub Unit II: Chemistry of Carbohydrates Sub Unit III: Chemistry of Lipid Sub Unit IV: Chemistry of Proteins Sub Unit V: Chemistry of Nucleic Acids	Unit I: Structure and Function of Cell
Part - B:- Biophysics and Enzymology Sub Unit I: No name Sub Unit II: No name Sub Unit III: No name	Unit II: Chemistry of Carbohydrates
	Unit III: Chemistry of Lipid
	Unit IV: Concept of pH, Acids, Bases, Buffer and Indicators

Unit V: Enzymes

Paper IV: Human Anatomy and Physiology

Paper IV: Human Anatomy and Physiology

Paper Code: BMLT-104 for Theory and Practical both

Paper Code: BMLT-104 for Theory
BMLT-104P for Practical

Credits: Not applicable

Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable

Credit hours: 120 for Theory and 60 for Practical

Old Subject Content

New Subject Content

Total number of units: 05

Total number of units: 05

Unit 1: Unit name was not given. Only content was given.

Part A: Anatomy
Unit I: Gross Anatomy, Radiological and Surface Anatomy of Human Body

Unit 2: Unit name was not given. Only content was given.

Unit II: Anatomy of the Body System

Unit 3: Unit name was not given. Only content was given.

Part B: Physiology
Unit III: Blood

Unit 4: Unit name was not given. Only content was given.

Unit IV: Physiology of Body System

Unit 5: Unit name was not given. Only content was given.

Unit 5: Nervous System

Paper V: Computational Skills and Biostatistics

Paper V: Computational Skills and Biostatistics

Paper Code: BMLT-105 for Theory and Practical both

Paper Code: BMLT-105 for Theory
BMLT-105P for Practical

Credits: Not applicable

Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable

Credit hours: 120 for Theory and 60 for Practical

Old Subject Content

New Subject Content

Total number of units: 07

Total number of units: 05

Syllabus was divided into two sections:
Section A Biostatistics

Syllabus has divided into parts and divided into five units.

Section B Computational Skills	
Section A: Computational skills Divided into Four Units Unit I: Computer Fundamentals Unit II: Data Representation Unit III: Networks Terminology Unit IV: Problem Solving	Part A: Computational Skills Unit I: Computer Fundamentals
Section B: Biostatistics Divided into Three units. Unit I: Measure of Central Tendency Unit II: No name Unit II: No name	Unit II: Network Terminology
	Unit III: Problem Solving
	Part B: Biostatistics Unit IV : Measure of Central Tendency
	Unit V: Tests of Significance

Paper VI: General English and Communication Skills	Paper VI: General English and Communication Skills
Paper Code: BMLT-106 for Theory and Practical both	Paper Code: BMLT-106 for Theory BMLT-106P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 10	Total number of units: 05
Syllabus was divided into three Units: Section Unit III has no name	Syllabus has divided into five units.
Unit I: Essentials of grammar	Unit I: Essentials of grammar
Unit II: Technical writing skills	Unit II: Network Terminology
Unit III: Has no name	Unit III: Interview Tips
Unit IV: Technical writing skills	Unit IV : Writing Skills
	Unit V: Presentation Skills

B.Sc. MLT**YEAR-II**

Old Subject Name	New approved Subject Name
Paper I: Histopathology and Cytopathology	No change
Paper II: Bacteriology, Virology and Mycology	No change
Paper III: Analytical and Metabolic Biochemistry	No change
Paper IV: Molecular cell biology	No change
Paper V: Medical Biotechnology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Histopathology and Cytopathology	Paper I: Histopathology and Cytopathology
Paper Code: BMLT-201 for Theory and Practical both	Paper Code: BMLT-201 for Theory BMLT-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 03	Total number of units: 05
Unit 1: Human Histology	Unit 1: Human histology
Unit 2: Histotechnology	Unit 2: Histotechnology
Unit 3: Cytology	Unit 3: Techniques in histology
	Unit 4: Cytology
	Unit 5: Assessment in cytology
Paper II: Bacteriology, Virology and Mycology	Paper II: Bacteriology, Virology and Mycology
Paper Code: BMLT-202 for Theory and Practical both	Paper Code: BMLT-202 for Theory BMLT-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 04	Total number of units: 05
Unit 1: Gram positive bacteria	Unit 1: No change
Unit 2: Gram negative bacteria	Unit 2: No change
Unit 3: Virology	Unit 3: No change
Unit 4: Mycology	Unit 4: Structure, classification, Pathogenicity, lab diagnosis of Viruses
	Unit 5: Mycology
Paper III: Analytical and Metabolic biochemistry	Paper III: Analytical and Metabolic biochemistry
Paper Code: BMLT-203 for Theory and Practical both	Paper Code: BMLT-203 for Theory BMLT-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Carbohydrate	Unit 1: No change
Unit 2: Lipid	Unit 2: No change
Unit 3: Protein	Unit 3: No change
Unit 4: Vitamins	Unit 4: No change
Unit 5: Instrumentations in biochemical analysis	Unit 5: No change
Paper IV: Molecular cell biology	Paper IV: Molecular cell biology
Paper Code: BMLT-204 for Theory and Practical both	Paper Code: BMLT-204 for Theory BMLT-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content

Total number of units: 05	Total number of units: 05
Unit 1: Endo-membrane System and Cellular Motility	Unit 1: Cell structure
Unit 2: Cell cycle	Unit 2: Cell organelle and functions
Unit 3: DNA: Chemical composition of DNA	Unit 3: Cell division
Unit 4: DNA replication	Unit 4: Macromolecules
Unit 5: Transcription & RNA Processing	Unit 5: Enzymes
Paper V: Medical biotechnology	Paper V: Medical biotechnology
Paper Code: BMLT-205 for Theory and Practical both	Paper Code: BMLT-205 for Theory BMLT-205P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: Introduction to Medical Biotechnology	Unit 1: No change
Unit 2: DNA Manipulation	Unit 2: No change
Unit 3: Cloning Vectors	Unit 3: No change
Unit 4: Cloning and Expression of cloned genes	Unit 4: Polymerase chain reaction (PCR)-
Unit 5: Polymerase chain reaction (PCR)	Unit 5: Sequencing of DNA
Unit 6: Construction of genomic and cDNA libraries, Screening & Selection of Recombinants	
Unit 7: Sequencing of DNA	

B.Sc. MLT**YEAR-III**

Old Subject Name	New approved Subject Name
Paper I: Immunopathology and Blood Transfusion	No change
Paper II: Parasitology and Clinical Microbiology	No change
Paper III: Clinical Biochemistry	No change
Paper IV: Medical and Surgical Condition	No change
Paper V: Advanced Laboratory Technology	No change

BMLT III YEAR

Paper I: Immunopathology and Blood Transfusion	Paper I: Immunopathology and Blood Transfusion
Paper Code: BMLT-301 for Theory and Practical both	Paper Code: BMLT-301 for Theory BMLT-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: II	Total number of units: 05
Syllabus was divided into Two Parts Part I: Immunopathology Part II: Blood Transfusion	Syllabus divided into five units. Added Topics in Unit Four and Unit Five
	Part I: Immunopathology Unit I: Immunopathology
	Part II: Blood Transfusion Unit II: Introduction to Blood Bank and Compatibility
	Unit III: Screening
	Unit IV : Apheresis Topics: Introduction, Automated Separation Techniques by Centrifugation, Separation by Membrane Filtration, General criteria for the

	selection Apheresis Donor, Plateletpheresis, Leukapheresis, Erythrocytapheresis, Plasmapheresis, Fluid use in apheresis.
	Unit V: Quality Control in Blood Bank Topics: Introduction, Quality control of reagent, standard operation procedure, Quality control of blood products, Quality control of equipments, Bio safety in the transfusion laboratory, Record keeping system.

Paper II: Parasitology and Clinical Microbiology	Paper II: Parasitology and Clinical Microbiology
Paper Code: BMLT-302 for Theory and Practical both	Paper Code: BMLT-302 for Theory BMLT-302P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: III	Total number of units: 05
Syllabus was divided into Three Units	Syllabus divided into five units.
Unit I: Introduction to Parasitology	Unit I: Introduction and Diagnostic Techniques in Parasitology
Unit II: Applied Microbiology and Advanced Techniques	Unit II: Brief Morphology, Life cycle, Pathogenicity and Lab diagnosis
Unit III: Clinical Microbiology	Unit III: Applied Microbiology and Advanced Techniques
	Unit IV : Clinical Microbiology
	Unit V: Bacteriological Examination

Paper III: Clinical Biochemistry	Paper III: Clinical Biochemistry
Paper Code: BMLT-303 for Theory and Practical both	Paper Code: BMLT-303 for Theory BMLT-303P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Syllabus was divided into Seven Units	Syllabus divided into five units.
Unit I: Hepatobiliary System	Unit I: No Change
Unit II: Endocrinology	Unit II: Principle and application
Unit III: Principle and Application	Unit III: Hormone biochemistry
Unit IV: No name	Unit IV : Quality control & quality assurance in Clinical Biochemistry
Unit V: No name	Unit V: Cancer (Basic Aspects Only)
Unit VI: Molecular Biology (Basic Aspects)	
Unit VII: Cancer (Basic Aspects Only)	

Paper IV: Medical and Surgical Conditions	Paper IV: Medical and Surgical Conditions
Paper Code: BMLT-304 for Theory and Practical both	Paper Code: BMLT-304 for Theory BMLT-304P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 04	Total number of units: 05
Syllabus was divided into Four Units	Syllabus divided into five units.
Unit I: No name	Unit I: Introduction
Unit II: Diseases and Management	Unit II: No change

Unit III: No name	Unit III: Disease of GIT and Liver and Gallbladder
Unit IV: No name	Unit IV : Management of Injury
	Unit V: Routes of Drugs Administration

Paper V: Advanced Laboratory Techniques	Paper V: Advanced Laboratory Techniques
Paper Code: BMLT-305 for Theory and Practical both	Paper Code: BMLT-305 for Theory BMLT-305P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Syllabus was divided into Seven Units	Syllabus divided into five units.
Unit I: Microscopy and Microscopic Techniques	Unit I: No change
Unit II: Chromatography Techniques	Unit II: No change
Unit III: Spectroscopy Techniques	Unit III: No change
Unit IV: Radioactivity	Unit IV : Auto analyzer in Medical laboratory
Unit V: No name	Unit V: Hybridoma techniques
Unit VI: No name	
Unit VII: No name	

to 2
DC SAXENA
 Dir. (Gen.), SVSU



BOS SUMMARY

Bachelor of Optometry

YEAR-I

Old Subject Name	New approved Subject Name
Paper I: Human Anatomy and Physiology	No change
Paper II: Ocular Anatomy, Pathology and Microbiology	Ocular Anatomy and Physiology
Paper III: Ocular Physiology and Biochemistry including Binocular Reflexes and its maintenance	Ocular Biochemistry and Pathology
Paper IV: Physical and Physiological Optics	No change
Paper V: Computational skills and Biostatistics	No change
Paper VI: General English and Communicational Skills	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Human Anatomy and Physiology	Paper I: Human Anatomy and Physiology
Paper Code: BOPT-101 for Theory and Practical both	Paper Code: BOPT-101 for Theory BOPT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Gross Anatomy, Radiological and Surface Anatomy of Human body
-	Unit 2: Anatomy of body system
-	Unit 3: Blood
-	Unit 4: Physiology of body system
-	Unit 5: Endocrine and Nervous system
Paper II: Ocular Anatomy and Physiology	Paper II: Ocular Anatomy and Physiology

Paper Code: BOPT-102 for Theory and Practical both	Paper Code: BOPT-102 for Theory BOPT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction to Anatomy
-	Unit 2: Introduction to Physiology
-	Unit 3: Visual Optics
-	Unit 4: Ocular System
-	Unit 5: Transparency
Paper III: Ocular Biochemistry and Pathology	Paper III: Ocular Biochemistry and Pathology
Paper Code: BOPT-103 for Theory and Practical both	Paper Code: BOPT-103 for Theory BOPT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction to Biomolecules
-	Unit 2: Biochemistry of Cornea and Lens
-	Unit 3: Hematology
-	Unit 4: Clinical Pathology
-	Unit 5: Histopathology and Tissue Processing
Paper IV: Physical and Physiological Optics	Paper IV: Physical and Physiological Optics
Paper Code: BOPT-104 for Theory and	Paper Code: BOPT-104 for Theory

Practical both	BOPT-104P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction
-	Unit 2: Optics
-	Unit 3: Refraction
-	Unit 4: Lenses
-	Unit 5: Lens fitting and Manufacturing
Paper V: Computational skills and Biostatistics	Paper V: Computational skills and Biostatistics
Paper Code: BOPT-105 for Theory and Practical both	Paper Code: BOPT-105 for Theory BOPT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Computer Fundamentals
-	Unit 2: Networks terminology
-	Unit 3: Problem Solving
-	Unit 4: Measure of central tendency
-	Unit 5: Tests of significance
Paper VI: General English and Communicational Skills	Paper VI: General English and Communicational Skills
Paper Code: BOPT-106 for Theory and Practical both	Paper Code: BOPT-106 for Theory BOPT-106P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical

Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Essentials of grammar
-	Unit 2: Technical writing skills
-	Unit 3: Interview tips
-	Unit 4: Report writing skills
-	Unit 5: Presentation skills

BOS SUMMARY

Bachelor of Optometry

YEAR-II

Old Subject Name	New approved Subject Name
Paper I: Ocular Pharmacy and Pharmacology	No change
Paper II: Refraction	No change
Paper III: Investigative Ophthalmology Orthoptics	No change
Paper IV: Ophthalmic Instruments and Appliances	No change
Paper V: Not Applicable	Ocular Microbiology

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Ocular Pharmacy and Pharmacology	Paper I: Ocular Pharmacy and Pharmacology
Paper Code: BOPT-201 for Theory and Practical both	Paper Code: BOPT-201 for Theory BOPT-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction
-	Unit 2: Drug Administration

-	Unit 3: Drug and Therapy
-	Unit 4: Ophthalmic Drugs
-	Unit 5: Agents
Paper II: Refraction	Paper II: Refraction
Paper Code: BOPT-202 for Theory and Practical both	Paper Code: BOPT-202 for Theory BOPT-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction
-	Unit 2: Refractive error
-	Unit 3: Refraction
-	Unit 4: Accommodation and Convergence
-	Unit 5: Drugs administration
Paper III: Investigative Ophthalmology Orthoptics	Paper III: Investigative Ophthalmology Orthoptics
Paper Code: BOPT-203 for Theory and Practical both	Paper Code: BOPT-203 for Theory BOPT-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction
-	Unit 2: Squint Measurement
-	Unit 3: Amblyopia
-	Unit 4: Orthoptics Disorders
-	Unit 5: Refraction
Paper IV: Ophthalmic Instruments and Appliances	Paper IV: Ophthalmic Instruments and Appliances
Paper Code: BOPT-204 for Theory and	Paper Code: BOPT-204 for Theory

Practical both	BOPT-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction to Ophthalmic Instruments
-	Unit 2: Ophthalmic Instruments
-	Unit 3: Instruments of Refraction
-	Unit 4: Corneal Examination
-	Unit 5: Fundus Examination
Paper V: Ocular Microbiology	Paper V: Ocular Microbiology
Paper Code: BOPT-205 for Theory and Practical both	Paper Code: BOPT-205 for Theory BOPT-205P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction to Microbiology
-	Unit 2: Ocular Bacteriology
-	Unit 3: Ocular Virology
-	Unit 4: Ocular Parasitology
-	Unit 5: Ocular Mycology

BOS SUMMARY

Bachelor of Optometry

YEAR-III

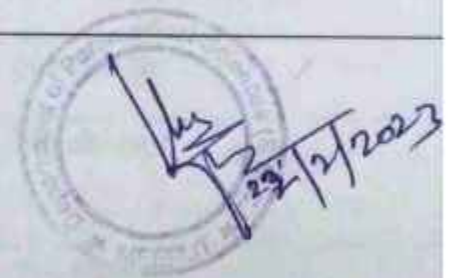
Old Subject Name	New approved Subject Name
Paper I: Ocular Disease	No change
Paper II: Low Vision Aids and Contact Lens	Contact Lens
Paper III: Community Ophthalmology and Eye Bank	No change
Paper IV: Investigation in Clinical Ophthalmology and Management of OT	Investigation in Clinical Ophthalmology
Paper V: Not Applicable	Low Vision Aids and Management of OT

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Ocular Disease	Paper I: Ocular Disease
Paper Code: BOPT-101 for Theory and Practical both	Paper Code: BOPT-101 for Theory BOPT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: EYE LIDS
-	Unit 2: LACRIMAL SYSTEM
-	Unit 3: CONJUNCTIVA AND CORNEA
-	Unit 4: IRIS, CILLIARY BODY AND PUPIL
-	Unit 5: RETINA
Paper II: Contact Lens	Paper II: Contact Lens
Paper Code: BOPT-101 for Theory and Practical both	Paper Code: BOPT-101 for Theory BOPT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical

Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction of Contact Lens
-	Unit 2: Types of Contact Lens
-	Unit 3: Investigation For Contact Lens
-	Unit 4: Measurement For Contact Lens
-	Unit 5: Care and Developments
Paper III: Community Ophthalmology and Eye Bank	Paper III: Community Ophthalmology and Eye Bank
Paper Code: BOPT-101 for Theory and Practical both	Paper Code: BOPT-101 for Theory BOPT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction
-	Unit 2: Epidemiology
-	Unit 3: Survey and Screening
-	Unit 4: Eye Donation
-	Unit 5: Instruction and Techniques
Paper IV: Investigation in Clinical Ophthalmology	Paper IV: Investigation in Clinical Ophthalmology
Paper Code: BOPT-101 for Theory and Practical both	Paper Code: BOPT-101 for Theory BOPT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction and Investigation
-	Unit 2: Investigation of Cornea
-	Unit 3: Investigation of Fundus

-	Unit 4: Investigation and Sterilization
-	Unit 5: Maintenance of Instrument
Paper V: Low Vision Aids and Management of OT	Paper V: Low Vision Aids and Management of OT
Paper Code: BOPT-101 for Theory and Practical both	Paper Code: BOPT-101 for Theory BOPT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not Applicable	Total number of units: 05
-	Unit 1: Introduction to Low Vision Aids
-	Unit 2: Investigation in Low Vision Aids
-	Unit 3: Clinical of Evaluation of Low Vision
-	Unit 4: Investigation and Sterilization
-	Unit 5: Maintenance of Instrument

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BOS SUMMARY**M.Sc. RIT****YEAR -I**

Old Program Name	New approved Program Name
Master Of Science In Medical Imaging Technology	Master of Science in Radio Imaging Technology
M.Sc. MIT	M.Sc. RIT

Old Subject Name	New approved Subject Name
Paper I: Human Anatomy & Physiology	No change
Paper II: Instrumentation of Conventional Radiological Equipment's	No change
Paper III: Radiographic Procedures	No change
Paper IV: Radiation Physics	No change
Paper V: Advance Technique and Instrumentation of Ultrasound	No change
Paper VI: Radiation Protection and Management of Radiology Department	No change
Paper VII: Biostatistics	No change
Paper VIII: Hospital Posting	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Human Anatomy & Physiology	Paper I: Human Anatomy & Physiology
Paper Code: MMIT-101 for Theory and MMIT 151	Paper Code: MRIT-101 for Theory MRIT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for

	Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus Was Given In Paragraph And Bullets	Unit 1: Gross Anatomy, Radiological and Surface Anatomy of Human Body
	Unit 2: Muscular system
	Unit 3: Respiratory System
	Unit 4: Gastro-intestinal System
	Unit 5: Reproductive System
Paper II: Instrumentation of Conventional Radiological Equipment's	Paper II: Instrumentation of Conventional Radiological Equipment's
Paper Code: MMIT-102 for Theory	Paper Code: MRIT-102 for Theory
Credits: Not applicable	Credits: 4 for Theory
Credit hours: Not applicable	Credit hours: 120 for Theory
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Electrical energy and its uses
Unit 2: Unit name was not given. Only content was given.	Unit 2: X-ray circuits
Unit 3: Unit name was not given. Only content was given.	Unit 3: Generators
Unit 4: Unit name was not given. Only content was given.	Unit 4: x-ray circuit timers
Unit 5: Unit name was not given. Only content was given.	Unit 5: Beam limiting devices
Unit 6: Unit name was not given. Only content was given.	
Unit 7: Unit name was not given. Only content was given.	
Paper III: Radiographic Procedures	Paper III: Radiographic Procedures
Paper Code: MMIT-103 for Theory and MMIT- 152 for Practical	Paper Code: MRIT-103 for Theory MRIT-102P for Practical

Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus Was Given In Paragraph And Bullets	Unit 1: Urinary System Imaging (IVU, MCU, RGU, Barium Studies, Distal Colography, Defaecography)
	Unit 2: Biliary system (PTC, ERCP, T-Tube Cholangiography, Pre- Operative Cholangiography), Sialography And Sinography, Hysterosalhingography (HSG)
	Unit 3: Conventional – non contrast, special situations, Pediatric radiography
	Unit 4: Geriatric Radiography
	Unit 5: Trauma/ emergency Radiography
Paper IV: Radiation Physics	Paper IV: Radiation Physics
Paper Code: MMIT-104 for Theory	Paper Code: MRIT-104
Credits: Not applicable	Credits: 4 for Theory
Credit hours: Not applicable	Credit hours: 120 for Theory
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus Was Given In Paragraph And Bullets	Unit 1: Radiation and its production
	Unit 2: Interaction with radiation
	Unit 3: Dark room and Digital Radiography
	Unit 4: Dosimeter
	Unit 5: Quality Assurance
Paper V: Advance Technique & Instrumentation Of Ultrasound	Paper V: Advance Technique & Instrumentation Of Ultrasound
Paper Code: MMIT-104 for Theory and	Paper Code: MRIT-105 for Theory and

MMIT 153 Practical	MRIT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus Was Given In Paragraph And Bullets	Unit 1: Introduction and principle of ultrasound
	Unit 2: Transducer
	Unit 3: Modes and Artifacts
	Unit 4: Clinical Applications of Ultrasound
	Unit 5: Clinical applications of Doppler
Paper V: Radiation Protection And Management Of Radiology Department	Paper V: Radiation Protection And Management Of Radiology Department
Paper Code: MMIT-106 for Theory	Paper Code: MRIT-106 for Theory
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Introduction and need to radiation protection
Unit 2: Unit name was not given. Only content was given.	Unit 2: X-ray room layout
Unit 3: Unit name was not given. Only content was given.	Unit 3: Evaluation of Radiation hazards
Unit 4: Unit name was not given. Only content was given.	Unit 4: Radiation dosimetry
Unit 5: Unit name was not given. Only content was given.	Unit 5: Biological effects of Radiation
Unit 6: Unit name was not given. Only content was given.	

Paper V: Bio-Statistics	Paper V: Bio-Statistics
Paper Code: MMIT-107 for Theory	Paper Code: MRIT-107 for Theory
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: 10	Total number of units: 05
Unit 1: Introduction	Unit 1: Introduction
Unit 2: Sampling	Unit 2: Basic probability distributions and sampling distributions
Unit 3: Basic probability distributions and sampling distributions	Unit 3: Tests of significance
Unit 4: Tests of significance	Unit 4: Correlation and Regression
Unit 5: Correlation and Regression	Unit 5: Multivariate analysis
Unit 6: sample size determination	
Unit 7: study designs	
Unit 8: Multivariate analysis	
Unit 9: Reliability	
Unit 10: Format of scientific documents	
Paper V: Hospital Posting	Paper V: Hospital Posting
Paper Code: MMIT154 for Practical	Paper Code: MRIT108 P for Practical
Credits: Not applicable	Credits: 4 for Practical

Credit hours: Not applicable

Credit hours: 120 for Practical

BOS SUMMARY

M.Sc. RIT

YEAR -II

Old Program Name	New approved Program Name
Master Of Science In Medical Imaging Technology M.Sc. MIT	Master of Science in Radio Imaging Technology M.Sc. RIT

Old Subject Name	New approved Subject Name
Paper I: Advanced Techniques And Instrumentation Of CT	No change
Paper II: Advanced Techniques and Instrumentation of MRI	No change
Paper III: Technique and Equipment's of Nuclear Medicine Technology and Interventional Radiology	Paper III: Nuclear Medicine Technology and Interventional Radiology
Paper IV: Care Of Patient in Diagnostic Radiology and Management of Health Care Organization	No change
Paper V:	Paper V: Research Methodology

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Advanced Techniques And Instrumentation Of CT	Paper I: Advanced Techniques And Instrumentation Of CT

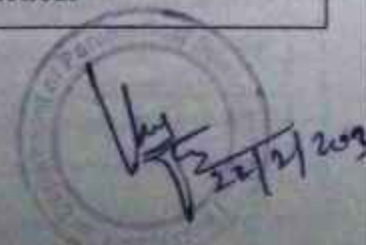
Paper Code: MMIT-201 for Theory and MMIT 251	Paper Code: MRIT-201 for Theory MRIT-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: 08	Total number of units: 05
Unit 1: Introduction To Computed Tomography And Principle Of Computed Tomography	Unit 1: No change
Unit 2: Generations of Computed Tomography	Unit 2: Instrumentation
Unit 3: Instrumentation	Unit 3: Image Reconstruction
Unit 4: Image Reconstruction	Unit 4: CT Artefacts
Unit 5: Image Display And Image Quality	Unit 5: CT Fluoroscopy
Unit 6: CT Artifacts	
Unit 7: Diagnostic Aspects of CT and Processing Techniques	
Unit 8: Unit name was not given. Only content was given.	
Paper II: Advanced Techniques And Instrumentation Of MRI	Paper II: Advanced Techniques And Instrumentation Of MRI
Paper Code: MMIT-202 for Theory and MMIT 252 for Practical	Paper Code: MRIT-202 for Theory MRIT-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: 10	Total number of units: 05
Unit 1: Introduction and Basic Principle of Magnetic Resonance Imaging	Unit 1: Introduction and Basic Principle of Magnetic Resonance Imaging
Unit 2: MRI hardware	Unit 2: Encoding, Data collection & Image

	formation
Unit 3: Encoding, data collection and image formation	Unit 3: MRI parameters & Trade offs
Unit 4: Pulse Sequence	Unit 4: MRI contrast agents
Unit 5: MRI parameters & Trade offs	Unit 5: Clinical Applications, Scanning Protocols and Safety aspects
Unit 6: MRI Artifacts	
Unit 7: MRI contrast agents	
Unit 8: Flow phenomenon compensation	
Unit 9: Clinical Applications, Scanning Protocols and Safety aspects	
Unit 10: Recent advances in MRI	
Paper III: Techniques and Equipment's of Nuclear Medicine Technology And Interventional Radiology	Paper III: Nuclear Medicine Technology And Interventional Radiology
Paper Code: MMIT-203 for Theory and MMIT- 253	Paper Code: MRIT-203 for Theory MRIT-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Syllabus was divided into two sections:	Total number of units: 05
Section A: NMT Section B: Interventional Procedures	Unit 1: Introduction to NMT and Radioactive
Section A: Unit 1: Introduction to NMT and Radioactive Transformation	Unit 2: Equipment's of NMT
Unit 2: Production of Radionuclides	Unit 3: In vivo technique
Unit 3: Radio-Pharmacy and Handling and Transport of Radio-nuclides	Unit 4: In vivo technique Introduction to Interventional Radiology, Contrast media & Emergency Drugs
Unit 4: Equipment's of NMT	Unit 5: Digital Subtraction Angiography
Section B: Interventional Procedures Unit 5: Introduction to Interventional	

Radiology, Contrast Media and Emergency drugs.	
Unit 6: Angiographic Equipment's, Catheters and Guide wires	
Unit 7: Digital Subtraction Angiography	
Unit 8: Sterile technique and Radiation Protection	
Unit 9: Sterile technique and Radiation Protection	
Unit 10: Sterile technique and Radiation Protection	
Unit 10: Interventional procedures	
Paper IV: Care Of Patient In Diagnostic Radiology And Management Of Health Care Organization	Paper IV: Care of Patient In Diagnostic Radiology And Management Of Health Care Organization
Paper Code: MMIT-204 for Theory	Paper Code: MRIT-204 for Theory
Credits: Not applicable	Credits: 4 for Theory
Credit hours: Not applicable	Credit hours: 120 for Theory
Old Subject Content	New Subject Content
Syllabus was divided into two sections:	Total number of units: 05
Section A: Care Of Patient In Diagnostic Radiology Section B: Management Of Health Care Organization	Unit 1: Introduction to Patient Care
Section A: Care Of Patient In Diagnostic Radiology Total number of units: 04	Unit 2: Patient Education Communication
Unit 1: Unit name was not given. Only content was given.	Unit 3: Hospital structure
Unit 2: Unit name was not given. Only content was given.	Unit 4: Moving and lifting patients.
Unit 3: Unit name was not given. Only content was given.	Unit 5: Patient vital signs.
Unit 4: Unit name was not given. Only content	

was given.	
Section B: Management Of Health Care Organization.	
Total number of units: Not applicable	
Syllabus Was Given In Paragraph And Bullets	
Paper V: Not applicable (added in new syllabus)	Paper V: RESEARCH METHODOLOGY
Paper Code: Not applicable	Paper Code: MRIT-205 for Theory
Credits: Not applicable	Credits: 4 for Theory
Credit hours: Not applicable	Credit hours: 120 for Theory
Old Subject Content	New Subject Content
	Total number of units: 05
	Unit 1: Scientific Research and Data Collection
	Unit 2: Data Collection And Analysis
	Unit 3: Documentation And Scientific Writing
	Unit 4: PREPARATION OF RESEARCH ARTICLES
	Unit 5: RESEARCH ETHICS, IPR AND PUBLISHING
Paper VI: Hospital Posting	Paper VI: Hospital Posting
Paper Code: MMIT-254 for Practical	Paper Code: MRIT-204 P for Practical
Credits: Not applicable	Credits: 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Practical
Paper VII: Project /Thesis /Dissertation	Paper VII: Project /Thesis /Dissertation
Paper Code: MMIT 253 for Practical	Paper Code: MRIT-205 P for Practical
Credits: Not applicable	Credits: 8 for Practical
Credit hours: Not applicable	Credit hours: 240 for Practical

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BOS SUMMARY

B.Sc. in Operation Theatre Technology Honours Anaesthesiology

First Year

Old Subject Name	New approved Subject Name
Paper I- Human Anatomy and Physiology	No change
Paper II-General Pathology and Microbiology	No change
Paper III- Medical Biochemistry	No change
Paper IV-Introduction to O.T. Technology	Paper IV-Introduction to Operation Theatre Technology
Paper V- Computational Skills and Biostatistics	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Human Anatomy and Physiology	Paper I: Human Anatomy and Physiology
Paper Code: BOTT-101 for Theory and Practical both	Paper Code: BOTT-101 for Theory BOTT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1:Gross Anatomy, Radiological and Surface Anatomy of Human body, Classification of bones and joints
	Unit 2: Anatomy of body system
	Unit 3: Blood
	Unit 4: Physiology of body system
	Unit 5: Physiology of Endocrine system

Paper II: General Pathology and Microbiology	Paper II: General Pathology and Microbiology
Paper Code: BOTT-102 for Theory and Practical both	Paper Code: BOTT-102 for Theory BOTT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General Pathology and Hematology
	Unit 2: Morphology and growth of microorganism and Sterilization and disinfection
	Unit 3: Immunology
	Unit 4: Parasitology, Mycology and Virology
	Unit 5: Hospital Control & Biomedical waste
Paper III: Medical Biochemistry	Paper III: Medical Biochemistry
Paper Code: BOTT-103 for Theory and Practical both	Paper Code: BOTT-103 for Theory BOTT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Structure and Function of Cell
	Unit 2: Composition and Metabolism of Carbohydrate
	Unit 3: Composition and Metabolism of Lipids
	Unit 4: Composition and Function of Amino Acids and Proteins
	Unit 5: Radioactivity

Paper IV: Introduction to O.T. Technology	Paper IV: Introduction to Operation Theatre Technology
Paper Code: BOTT-104 for Theory and Practical both	Paper Code: BOTT-104 for Theory BOTT-104P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Central Sterile Supply Department (C.S.S.D) and logistics
	Unit 2: Disinfection and sterilization
	Unit 3: Sterilization of instrument and equipment
	Unit 4: Operation Theatre (OT) Sterilization
	Unit 5: Anaesthesia care and OT techniques
Paper V: Computational Skills and Biostatistics	Paper V: Computational Skills and Biostatistics
Paper Code: BOTT-105 for Theory and Practical both	Paper Code: BOTT-105 for Theory BOTT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Computational Skills
	Unit 2: Networks terminology
	Unit 3: Problem Solving
	Unit 4: Biostatistics
	Unit 5: Tests of significance

Paper V: General English and Communication Skills	Paper V: General English and Communication Skills
Paper Code: BOTT-106 for Theory and Practical both	Paper Code: BOTT-106 for Theory BOTT-106P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Essentials of grammar
	Unit 2: Technical writing skills
	Unit 3: Interview tips
	Unit 4: Report writing skills
	Unit 5: Presentation skills

Second Year

Old Subject Name	New approved Subject Name
Paper I- Applied Anatomy and Physiology	No change
Paper II-Clinical Pharmacology	No change
Paper III- Clinical Pathology and Applied Microbiology	No change
Paper IV-Medical Ethics and Research Methodology	Paper IV-Medical Ethics and Operation Theatre Instruments
Paper V- CSSD Techniques and Nursing Procedures	Paper V-Central Sterile Supply Department (CSSD) Techniques and Nursing Procedures

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Applied Anatomy and Physiology	Paper I: Applied Anatomy and Physiology
Paper Code: BOTT-201 for Theory and Practical both	Paper Code: BOTT-201 for Theory BOTT-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Body Limbs, Head and Neck
	Unit 2: Thorax, Abdomen, Pelvis and Spine
	Unit 3: Tissue Structures and Embryology
	Unit 4: Cardiovascular and Respiratory system- included as new component
	Unit 5: Central Nervous System and Nerve Muscle Physiology- included as new component
Paper II: Clinical Pharmacology	
Paper Code: BOTT-202 for Theory and Practical both	Paper Code: BOTT-202 for Theory BOTT-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Basics of Pharmacology
	Unit 2: Autonomic nerves system
	Unit 3: Drugs and its types
	Unit 4: Pharmacotherapy of respiratory disorders
	Unit 5: Chemotherapy of infections
Paper III: Clinical Pathology and Applied Microbiology	
Paper Code: BOTT-203 for Theory and Practical both	Paper Code: BOTT-203 for Theory BOTT-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Histopathology and Cytopathology
	Unit 2: Blood Banking
	Unit 3: Infection acquired during Operation Theatre
	Unit 4: Hospital acquired disease
	Unit 5: Sterilization and its importance
-	
Paper IV: Medical Ethics and Research Methodology	Paper IV: Medical Ethics and Operation Theatre Instruments
Paper Code: BOTT-204 for Theory and Practical both	Paper Code: BOTT-204 for Theory BOTT-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General and special Considerations of Medical Ethics
	Unit 2: Airways
	Unit 3: Laryngoscopes, Laryngoscopy and Endo tracheal Tubes
	Unit 4: Incubation and Techniques
	Unit 5: Equipments and uses
Paper V: CSSD Techniques and Nursing Procedures	Paper V: Central Sterile Supply Department (CSSD) Techniques and Nursing Procedures
Paper Code: BOTT-105 for Theory and Practical both	Paper Code: BOTT-105 for Theory BOTT-105P for Practical

Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Basics of Sterilization in operation theatre Introduction
	Unit 2: Quality indicators and Waste management
	Unit 3: Physical Examination in OT
	Unit 4: Injections and their routes
	Unit 5: Care of patient

THIRD YEAR

Old Subject Name	New approved Subject Name
Paper I- Medicine Relevant to Operation Theatre	No change
Paper II-Basics of Surgery	No change
Paper III- OT Technology- Clinical	Paper III- Clinical in Operation Theatre Technology
Paper IV- OT Technology- Applied	Paper IV- Applied Operation Theatre Technology
Paper V- OT Technology- Advanced	Paper V- Recent Advances in Operation Theatre Technology

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Medicine Relevant to Operation Theatre	Paper I: Medicine Relevant to Operation Theatre
Paper Code: BOTT-301 for Theory and Practical both	Paper Code: BOTT-301 for Theory BOTT-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical

Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General examination of the patient
	Unit 2: Blood disorders
	Unit 3: Disease of Thoracic, Abdomen and Pelvis region
	Unit 4: Disease of Nervous and Endocrine system
	Unit 5: Infectious diseases

Paper II: Basics of Surgery

Paper II: Basics of Surgery

Paper Code: BOTT-302 for Theory and Practical both

Paper Code: BOTT-302 for Theory
BOTT-302P for Practical

Credits: Not applicable

Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable

Credit hours: 120 for Theory and 60 for Practical

Old Subject Content

New Subject Content

Total number of units: Not applicable

Total number of units: 05

Syllabus was given in paragraph and in bullets.

Syllabus has no sections and divided into five units.

Unit 1: Craniotomy surgery

Unit 2: Gynecological complication and its management

Unit 3: Fracture and its management

Unit 4: Eye and ENT surgeries

Unit 5: Pediatric surgery

Paper III: OT Technology- Clinical

Paper III: Clinical in Operation Theatre Technology

Paper Code: BOTT-303 for Theory and Practical both

Paper Code: BOTT-303 for Theory
BOTT-303P for Practical

Credits: Not applicable

Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable

Credit hours: 120 for Theory and 60 for Practical

Old Subject Content

New Subject Content

Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Physical Facility
	Unit 2: Principles of aspects and sterile technologies
	Unit 3: Types of instruments in surgery
	Unit 4: Specialized surgical instruments
	Unit 5: Positioning prepping and draping the patient
PAPER IV	
Paper IV: Applied Operation Theatre Technology	Paper IV: Applied Operation Theatre Technology
Paper Code: BOTT-304 for Theory and Practical both	Paper Code: BOTT-304 for Theory BOTT-304P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Preoperative preparation of the patient
	Unit 2: Introduction and types of anaesthesia
	Unit 3: General and local anaesthesia
	Unit 4: Spinal and intravenous anaesthesia
	Unit 5: Complication
PAPER V	
Paper V: OT Technology- Advanced	Paper V: Recent Advances in Operation Theatre Technology
Paper Code: BOTT-305 for Theory and Practical both	Paper Code: BOTT-305 for Theory BOTT-305P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical

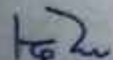
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Preparation of OT
	Unit 2: Patient preparation
	Unit 3: Gynecological and Urological surgery
	Unit 4: Cardiac and Thoracic surgery
	Unit 5: Special surgery

FOURTH YEAR

Old Subject Name	New approved Subject Name
Paper I- Regional Anaesthetic Techniques	No change
Paper II- Basics of Surgery	No change
Paper III- OT Technology- Clinical	Paper III- Clinical in Operation Theatre Technology

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Medicine Relevant to Operation Theatre	Paper I: Medicine Relevant to Operation Theatre
Paper Code: BOTT-301 for Theory and Practical both	Paper Code: BOTT-301 for Theory BOTT-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General outlook about regional techniques
	Unit 2: Spinal and epidural
	Unit 3: Upper limb blocks and Nerve block
	Unit 4: Lower limb blocks
	Unit 5: Drugs used in regional block

Paper II: Post Anaesthesia Care	Paper II: Post Anaesthesia Care
Paper Code: BOTT-402 for Theory and Practical both	Paper Code: BOTT-402 for Theory BOTT-402P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Setting up of PACU
	Unit 2: Admission and discharge criteria
	Unit 3: Common complications and its management in PACU
	Unit 4: Post operative pain relief
	Unit 5: Causes of mortality in PACU
Paper III: Anaesthesia Specialty Surgery	Paper III: Anaesthesia Specialty Surgery
Paper Code: BOTT-403 for Theory and Practical both	Paper Code: BOTT-403 for Theory BOTT-403P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Premedication
	Unit 2: Anaesthesia, its types and management
	Unit 3: Complications during orthopedic procedures and anaesthetic challenges
	Unit 4: Cath lab investigation and Urology
	Unit 5: Surgeries


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BOS SUMMARY

B.Sc. in Operation Theatre Technology

First Year

Old Subject Name	New approved Subject Name
Paper I- Human Anatomy and Physiology	No change
Paper II- General Pathology and Microbiology	No change
Paper III- Medical Biochemistry	No change
Paper IV- Introduction to O.T. Technology	Paper IV-Introduction to Operation Theatre Technology
Paper V- Computational Skills and Biostatistics	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Human Anatomy and Physiology	Paper I: Human Anatomy and Physiology
Paper Code: BOTT-101 for Theory and Practical both	Paper Code: BOTT-101 for Theory BOTT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units,
	Unit 1: Gross Anatomy, Radiological and Surface Anatomy of Human body, Classification of bones and joints
	Unit 2: Anatomy of body system
	Unit 3: Blood
	Unit 4: Physiology of body system
	Unit 5: Physiology of Endocrine system

Paper II: General Pathology and Microbiology	Paper II: General Pathology and Microbiology
Paper Code: BOTT-102 for Theory and Practical both	Paper Code: BOTT-102 for Theory BOTT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General Pathology and Hematology
	Unit 2: Morphology and growth of microorganism and Sterilization and disinfection
	Unit 3: Immunology
	Unit 4: Parasitology, Mycology and Virology
	Unit 5: Hospital Control & Biomedical waste
Paper III: Medical Biochemistry	Paper III: Medical Biochemistry
Paper Code: BOTT-103 for Theory and Practical both	Paper Code: BOTT-103 for Theory BOTT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Structure and Function of Cell
	Unit 2: Composition and Metabolism of Carbohydrate
	Unit 3: Composition and Metabolism of Lipids
	Unit 4: Composition and Function of Amino Acids and Proteins
	Unit 5: Radioactivity

Paper IV: Introduction to O.T. Technology	Paper IV: Introduction to Operation Theatre Technology
Paper Code: BOTT-104 for Theory and Practical both	Paper Code: BOTT-104 for Theory BOTT-104P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Central Sterile Supply Department (C.S.S.D) and logistics
	Unit 2: Disinfection and sterilization
	Unit 3: Sterilization of instrument and equipment
	Unit 4: Operation Theatre (OT) Sterilization
	Unit 5: Anaesthesia care and OT techniques
Paper V: Computational Skills and Biostatistics	Paper V: Computational Skills and Biostatistics
Paper Code: BOTT-105 for Theory and Practical both	Paper Code: BOTT-105 for Theory BOTT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Computational Skills
	Unit 2: Networks terminology
	Unit 3: Problem Solving
	Unit 4: Biostatistics
	Unit 5: Tests of significance

Paper V: General English and Communication Skills	Paper V: General English and Communication Skills
Paper Code: BOTT-106 for Theory and Practical both	Paper Code: BOTT-106 for Theory BOTT-106P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Essentials of grammar
	Unit 2: Technical writing skills
	Unit 3: Interview tips
	Unit 4: Report writing skills
	Unit 5: Presentation skills

Second Year

Old Subject Name	New approved Subject Name
Paper I- Applied Anatomy and Physiology	No change
Paper II-Clinical Pharmacology	No change
Paper III- Clinical Pathology and Applied Microbiology	No change
Paper IV-Medical Ethics and Research	Paper IV-Medical Ethics and Operation

Methodology	Theatre Instruments
Paper V- CSSD Techniques and Nursing Procedures	Paper V-Central Sterile Supply Department (CSSD) Techniques and Nursing Procedures

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Applied Anatomy and Physiology	Paper I: Applied Anatomy and Physiology
Paper Code: BOTT-201 for Theory and Practical both	Paper Code: BOTT-201 for Theory BOTT-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Body Limbs, Head and Neck
	Unit 2: Thorax, Abdomen, Pelvis and Spine
	Unit 3: Tissue Structures and Embryology
	Unit 4: Cardiovascular and Respiratory system- included as new component
	Unit 5: Central Nervous System and Nerve Muscle Physiology- included as new component
Paper II: Clinical Pharmacology	Paper II: Clinical Pharmacology
Paper Code: BOTT-202 for Theory and Practical both	Paper Code: BOTT-202 for Theory BOTT-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Basics of Pharmacology

	Unit 2: Autonomic nerves system
	Unit 3: Drugs and its types
	Unit 4: Pharmacotherapy of respiratory disorders
	Unit 5: Chemotherapy of infections
Paper III: Clinical Pathology and Applied Microbiology	Paper III: Clinical Pathology and Applied Microbiology
Paper Code: BOTT-203 for Theory and Practical both	Paper Code: BOTT-203 for Theory BOTT-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Histopathology and Cytopathology
	Unit 2: Blood Banking
	Unit 3: Infection acquired during Operation Theatre
	Unit 4: Hospital acquired disease
	Unit 5: Sterilization and its importance
Paper IV: Medical Ethics and Research Methodology	Paper IV: Medical Ethics and Operation Theatre Instruments
Paper Code: BOTT-204 for Theory and Practical both	Paper Code: BOTT-204 for Theory BOTT-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General and special Considerations of

	Medical Ethics
	Unit 2: Airways
	Unit 3: Laryngoscopes, Laryngoscopy and Endo tracheal Tubes
	Unit 4: Incubation and Techniques
	Unit 5: Equipments and uses
Paper V: CSSD Techniques and Nursing Procedures	Paper V: Central Sterile Supply Department (CSSD) Techniques and Nursing Procedures
Paper Code: BOTT-105 for Theory and Practical both	Paper Code: BOTT-105 for Theory BOTT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Basics of Sterilization in operation theatre Introduction
	Unit 2: Quality indicators and Waste management
	Unit 3: Physical Examination in OT
	Unit 4: Injections and their routes
	Unit 5: Care of patient

THIRD YEAR

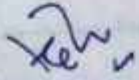
Old Subject Name	New approved Subject Name
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Paper I- Medicine Relevant to Operation Theatre	No change
Paper II- Basics of Surgery	No change
Paper III- OT Technology- Clinical	Paper III- Clinical in Operation Theatre Technology
Paper IV- OT Technology- Applied	Paper IV- Applied Operation Theatre Technology
Paper V- OT Technology- Advanced	Paper V- Recent Advances in Operation Theatre Technology

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Medicine Relevant to Operation Theatre	Paper I: Medicine Relevant to Operation Theatre
Paper Code: BOTT-301 for Theory and Practical both	Paper Code: BOTT-301 for Theory BOTT-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: General examination of the patient
	Unit 2: Blood disorders
	Unit 3: Disease of Thoracic, Abdomen and Pelvis region
	Unit 4: Disease of Nervous and Endocrine system
	Unit 5: Infectious diseases
Paper II: Basics of Surgery	Paper II: Basics of Surgery
Paper Code: BOTT-302 for Theory and Practical both	Paper Code: BOTT-302 for Theory BOTT-302P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for

	Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Craniotomy surgery
	Unit 2: Gynecological complication and its management
	Unit 3: Fracture and its management
	Unit 4: Eye and ENT surgeries
	Unit 5: Pediatric surgery
Paper III: OT Technology- Clinical	Paper III: Clinical in Operation Theatre Technology
Paper Code: BOTT-303 for Theory and Practical both	Paper Code: BOTT-303 for Theory BOTT-303P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Physical Facility
	Unit 2: Principles of aspects and sterile technologies
	Unit 3: Types of instruments in surgery
	Unit 4: Specialized surgical instruments
	Unit 5: Positioning prepping and draping the patient
Paper IV: Applied Operation Theatre Technology	Paper IV: Applied Operation Theatre Technology
Paper Code: BOTT-304 for Theory and Practical both	Paper Code: BOTT-304 for Theory BOTT-304P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Preoperative preparation of the patient
	Unit 2: Introduction and types of anaesthesia
	Unit 3: General and local anaesthesia
	Unit 4: Spinal and intravenous anaesthesia
	Unit 5: Complication
Paper V: OT Technology- Advanced	Paper V: Recent Advances in Operation Theatre Technology
Paper Code: BOTT-305 for Theory and Practical both	Paper Code: BOTT-305 for Theory BOTT-305P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 60 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Syllabus was given in paragraph and in bullets.	Syllabus has no sections and divided into five units.
	Unit 1: Preparation of OT
	Unit 2: Patient preparation
	Unit 3: Gynecological and Urological surgery
	Unit 4: Cardiac and Thoracic surgery
	Unit 5: Special surgery


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 22/2/2023

BOS SUMMARY

B.Sc. Radio Imaging Technology

Year -1st

Old Subject Name	New approved Subject Name
Paper 1: Human Anatomy & Physiology	Paper 1: Human Anatomy and Physiology
Paper 2: Fundamental of Medical Imaging & Basic Radiation Physics	Paper 2: Basic Radiography and Safety
Paper 3: Medical Biochemistry	Paper 3: No change
Paper 4: Basics Radiography and Radiographic Equipment	Paper 4: Community Health Care
Paper 5: Community Health care	Paper 5: Computational Skills and Biostatistics
Paper 6: Hospital Posting	Paper 6: General English and Communication Skills
Paper 7: -----	Paper 7: Hospital Posting

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper 1: Human Anatomy & Physiology	Paper 1: Human Anatomy and Physiology
Paper Code: BMIT 101 for Theory and BMIT 151 for Practical	Paper Code: BRIT-101 for Theory BRIT -101P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Gross Anatomy, Radiological and Surface Anatomy of Human body, Classification of bones and Joints
Unit 2: Unit name was not given. Only content was given.	Unit 2: Anatomy of body system

Unit 3: Unit name was not given. Only content was given.	Unit 3: Blood
Unit 4: Unit name was not given. Only content was given.	Unit 4: Physiology of body system
Unit 5: Unit name was not given. Only content was given.	Unit 5: Physiology of Endocrine system
Paper 2: Fundamental of Medical Imaging & Basic Radiation Physics	Paper 2: Basic Radiography and Safety
Paper Code: BMIT-102 for Theory and BMIT-152 for Practical	Paper Code: BRIT-102 for Theory BRIT-102P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Atom, X-Ray
Unit 2: Unit name was not given. Only content was given.	Unit 2: Radiographic positioning
Unit 3: Unit name was not given. Only content was given.	Unit 3: Facial bones, Soft tissue radiography, General pediatric and geriatric radiography
Unit 4: Unit name was not given. Only content was given.	Unit 4: Dental radiography and mammography
Unit 5: Unit name was not given. Only content was given.	Unit 5: Introduction about radiation protection and biological effect of radiation
Paper 3: Medical Biochemistry	Paper 3: Medical Biochemistry
Paper Code: BMIT-103 for Theory and BMIT-153 for Practical	Paper Code: BRIT-103 for Theory BRIT-103P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Structure & function of cell	Unit 1: Structure & function of cell

Unit 2: Composition and metabolism of carbohydrate	Unit 2: Composition and metabolism of carbohydrate
Unit 3: Composition and metabolism of lipids	Unit 3: Composition and metabolism of lipids, Metabolism of fatty acids, Biosynthesis and its regulation
Unit 4: Composition and function of amino acids and proteins	Unit 4 : Composition and function of amino acids and proteins, Enzymes & hormones, Glands
Unit 5: Enzymes & hormones	Unit 5: Radioactivity
Unit 6: Radioactivity	----
Paper 4: Basics Radiography and Radiographic Equipment	Paper 4: Community Health Care
Paper Code: BMIT-104 for Theory and BMIT-154 for Practical	Paper Code: BRIT-104 for Theory and no Practical in this subject
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 0 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Health, National Health Policy
Unit 2: Unit name was not given. Only content was given.	Unit 2: Family
Unit 3: Unit name was not given. Only content was given.	Unit 3: Community acquired infection
Unit 4: Unit name was not given. Only content was given.	Unit 4 : Hygiene
Unit 5: Unit name was not given. Only content was given.	Unit 5: Community
Paper 5: Community Health care	Paper 5: Computational Skills and Biostatistics
Paper Code: BMIT-105 for Theory no Practical in this subject	Paper Code: BRIT-105 for Theory and 104P for Practical
Credits: 2 for Theory and 0 for Practical	Credits: 4 for Theory and 4 for Practical

Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Computer fundamentals
Unit 2: Unit name was not given. Only content was given.	Unit 2: Network terminology
Unit 3: Unit name was not given. Only content was given.	Unit 3: Problem solving
Unit 4: Unit name was not given. Only content was given.	Unit 4 : Measure of central tendency
Unit 5: Unit name was not given. Only content was given.	Unit 5: Test of significance
Paper 6: Hospital Posting	Paper 6: General English and Communication Skills
Paper Code: BMIT-155 for practical and no theory in this subject	Paper Code: BRIT-106 for Theory and no Practical in this subject
Credits: 0 for Theory and 10 for Practical	Credits: 4for Theory and 0for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Essentials of Grammar
Unit 2: Unit name was not given. Only content was given.	Unit 2: Technical writing skills
Unit 3: Unit name was not given. Only content was given.	Unit 3: Interview tips
Unit 4: Unit name was not given. Only content was given.	Unit 4 : Report writing skills
Unit 5: Unit name was not given. Only content was given.	Unit 5: Presentation skills
Paper 7: -----	Paper 7: Hospital Posting

Paper Code:	Paper Code: BRIT-107P for Practical and no theory in this subject
Credits:	Credits: 0 for Theory and 4 for Practical
Credit hours:	Credit hours: 0 for Theory and 120 for Practical
Old Subject Content	New Subject Content
	All experiment is related radiology department.

BOS SUMMARY

B.Sc. Radio Imaging Technology

Year -2nd

Old Subject Name	New approved Subject Name
Paper 1: Radiation Physics & Radiation Protection	Paper 1: Radiation Physics and Equipment
Paper 2: Advance Radiographic Technique & Procedure	Paper 2: Radiographic Technique and Procedures
Paper 3: Computed Tomography Technique & Equipment	Paper 3: No Change
Paper 4: Advance Equipment's for Radiography & Processing Techniques	Paper 4: Ultrasonography Technique and Equipment
Paper 5: Ultrasonography Technique and Equipment	Paper 5: Radiation Protection and Quality Assurance
Paper 6: Hospital Posting	Paper 6: No Change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper 1 : Radiation Physics & Radiation Protection	Paper 1 : Radiation Physics and Equipment
Paper Code: BMIT 201 for Theory and no Practical in this subject	Paper Code: BRIT-201 for Theory and no Practical in this subject
Credits: 2 for Theory and 0 for Practical	Credits: 4 for Theory and 0 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Introduction to Radiologic imaging and X-ray
Unit 2: Unit name was not given. Only content was given.	Unit 2: The recording system
Unit 3: Unit name was not given. Only content was given.	Unit 3: Main electric supply and distribution/ diagnostic X-ray circuit
Unit 4: Unit name was not given. Only content	Unit 4: Cassette and Grid

was given.	
Unit 5: Unit name was not given. Only content was given.	Unit 5: Equipment for fluoroscopy, mobile radiography and film processing
Paper 2: Advance Radiographic Technique & Procedure	Paper 2: Radiographic Technique and Procedures
Paper Code: BMIT 202 for Theory and BMIT 251 for Practical	Paper Code: BRIT-202 for Theory BRIT -201P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Introduction to Contrast media and urinary system imaging
Unit 2: Unit name was not given. Only content was given.	Unit 2: Gastro intestinal tract imaging
Unit 3: Unit name was not given. Only content was given.	Unit 3: Biliary system and hysterosalpingography
Unit 4: Unit name was not given. Only content was given.	Unit 4: Procedures which are obsolete used
Unit 5: Unit name was not given. Only content was given.	Unit 5: Operation theatre radiography
Paper 3: Computed Tomography Technique & Equipment	Paper 3 :Computed Tomography Technique and Equipment
Paper Code: BMIT 203 for Theory and BMIT 252 for Practical	Paper Code: BRIT-201 for Theory BRIT -202P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - 07	Total number of units: 05
Unit 1: Introduction to Computed Tomography and principles of Computed Tomography	Unit 1: No change
Unit 2: Generation of Computed Tomography	Unit 2: Instrumentation of CT
Unit 3: Instrumentation	Unit 3: Image reconstruction and Image display and image quality
Unit 4: Image reconstruction	Unit 4: CT Artefacts
Unit 5 : Image display and image quality	Unit 5: Diagnostic aspects of CT and post processing techniques

Unit 6: CT Artefacts	-----
Unit 7: Diagnostic aspects of CT and post processing techniques	-----
Paper 4: Advance Equipment's for Radiography & Processing Techniques	Paper 4: Ultrasonography Technique and Equipment
Paper Code: BMIT 204 for Theory and no Practical in this subject	Paper Code: BRIT-204 for Theory BRIT -203P for Practical
Credits: 2 for Theory and 0 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Introduction of ultrasound
Unit 2: Unit name was not given. Only content was given.	Unit 2: Interaction of ultrasound with matte and transducer
Unit 3: Unit name was not given. Only content was given.	Unit 3: Modes of ultrasound
Unit 4: Unit name was not given. Only content was given.	Unit 4: Doppler imaging
Unit 5 :Unit name was not given. Only content was given.	Unit 5: Clinical practice
Paper 5: Ultrasonography Technique and Equipment	Paper 5: Radiation Protection and Quality Assurance
Paper Code: BMIT 205 for Theory and BMIT 253 for Practical	Paper Code: BRIT-205 for Theory and no Practical in this subject
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 0 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical
Old Subject Content	New Subject Content
Total number of units: - Not applicable	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Introduction to radiation protection, units and quantities
Unit 2: Unit name was not given. Only content was given.	Unit 2: Aim and principle of radiation protection
Unit 3: Unit name was not given. Only content was given.	Unit 3: Radiobiology, quality assurance and quality control
Unit 4: Unit name was not given. Only content was given.	Unit 4: Introduction to Tele radiology and PACS
Unit 5: Unit name was not given. Only content	Unit 5: Radiation regulation and planning of

was given.	radiology department
Paper 6: Hospital Posting	Paper 6: Hospital Posting
Paper Code: No Theory and BMIT 254 for Practical	Paper Code: No Theory BRIT -204P for Practical
Credits: 0 for Theory and 10 for Practical	Credits: 0 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 0 for Theory and 120 for Practical
Old Subject Content	New Subject Content
All experiment is related radiology department.	All experiment is related radiology department.

BOS SUMMARY

B.Sc. Radio Imaging Technology

Year -3rd

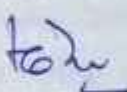
Old Subject Name	New approved Subject Name
Paper 1: Magnetic Resonance Imaging Techniques and Equipment	Paper 1: No Change
Paper 2: Techniques & Equipment's of Nuclear Medicine Technology & Interventional Technology	Paper 2: Nuclear Medicine and Interventional Technology
Paper 3: Radiation Protection & Management of Radiology Department	Paper 3: Recent Advances in Radio Imaging
Paper 4: Orientation in Paraclinical Sciences	Paper 4: No Change
Paper 5: Patient care & Hospital administration	Paper 5: No Change
Paper 6: Hospital Posting	Paper 6: No Change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper 1 : Magnetic Resonance Imaging Techniques and Equipment	Paper 1 : Magnetic Resonance Imaging Techniques and Equipment
Paper Code: BMIT 301 for Theory BMIT 351 for practical	Paper Code: BRIT-301 for Theory BRIT-301P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - 09	Total number of units: 05
Unit 1: Introduction and basic principle of Magnetic Resonance Imaging	Unit 1 No Change
Unit 2: MRI Hardware	Unit 2: MRI Hardware and Encoding, data collection and image formation
Unit 3: Encoding, data collection and image formation	Unit 3: Pulse sequence and MRI parameter and Trade off
Unit 4: Pulse sequence	Unit 4: MRI Artefacts and MRI contrast agents
Unit 5: MRI parameter and Trade off	Unit 5: Flow phenomena and MRI angiography, Clinical applications, scanning protocols and safety aspects

Unit 6: MRI Artefacts	-----
Unit 7: MRI contrast agents	-----
Unit 8: Flow phenomena and MRI angiography	-----
Unit 9: Clinical applications, scanning protocols and safety aspects	-----
Paper 2 : Techniques & Equipment's of Nuclear Medicine Technology & Interventional Technology	Paper 2: Nuclear Medicine and Interventional Technology
Paper Code: BMIT 302 for Theory BMIT 352 for practical	Paper Code: BRIT-302 for Theory BRIT-302P for Practical
Credits: 2 for Theory and 2 for Practical	Credits: 4 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 120 for Practical
Old Subject Content	New Subject Content
Total number of units: - 07	Total number of units: 05
Unit 1: Introduction to NMT and radioactive transformation	Unit 1 : Introduction to NMT and radioactive transformation, Production of radionuclides
Unit 2: Production of radionuclides	Unit 2: Radio pharmacy and handling of radionuclides, Equipment's of NMT
Unit 3: Radio pharmacy and handling of radionuclides	Unit 3: Introduction to interventional radiology and contrast media
Unit 4: Equipment's of NMT	Unit 4: Angiographic equipment's, catheter and guidewire, Sterile technique and radiation protection
Unit 5: Introduction to interventional radiology and contrast media	Unit 5: Interventional Procedures
Unit 6: Angiographic equipment's, catheter and guidewire	-----
Unit 7: Sterile technique and radiation protection	-----
Paper 3 : Radiation Protection & Management of Radiology Department	Paper 3 : Recent Advances in Radio Imaging
Paper Code: BMIT 303 for Theory No practical for this subject	Paper Code: BRIT-303 for Theory No practical for this subject
Credits: 2 for Theory and 0 for Practical	Credits: 4 for Theory and 0 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical

Old Subject Content	New Subject Content
Total number of units: - 07	Total number of units: 05
Unit 1: Introduction to radiation protection, units and quantities	Unit 1: Advances in Computed Tomography
Unit 2: Aim and principle of radiation protection	Unit 2: Advances in Radiography
Unit 3: Radiation monitoring	Unit 3: Advances in Magnetic Resonance Imaging
Unit 4: Radiobiology	Unit 4: Advance Techniques of Sonography
Unit 5: Quality assurance and quality control	Unit 5: Guided procedures
Unit 6: Introduction to Tele- radiology and PACS	-----
Unit 7: Radiation regulation and Planning of radiology department	-----
Paper 4 : Orientation in Paraclinical Sciences	
Paper Code: BMIT 304 for Theory No practical for this subject	Paper Code: BRIT-304 for Theory No practical for this subject
Credits: 2 for Theory and 0 for Practical	Credits: 4 for Theory and 0 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical
Old Subject Content	New Subject Content
Total number of units: - 03	Total number of units: 05
Unit 1: Medicine	Unit 1: General Medicine
Unit 2: No unit name only content is given	Unit 2: Gastro Intestinal Tract Pathology
Unit 3: UTI	Unit 3: Excretory system pathology
Unit 4: -----	Unit 4: Nervous system pathology
Unit 5: -----	Unit 5: Pathology associated to Bone
Paper 5: Patient care & Hospital administration	
Paper Code: BMIT 305 for Theory No practical for this subject	Paper Code: BRIT-305 for Theory No practical for this subject
Credits: 2 for Theory and 0 for Practical	Credits: 4 for Theory and 0 for Practical
Credit hours: Not applicable	Credit hours: 120 for Theory and 0 for Practical
Old Subject Content	New Subject Content
Total number of units: - 03	Total number of units: 05

Unit 1: Medicine	Unit 1: Radiography as a Profession
Unit 2: No unit name only content is given	Unit 2: Patient transfer techniques and restraints
Unit 3: No unit name only content is given	Unit 3: Patient vitals signs and Medico-Legal consideration
Unit 4: No unit name only content is given	Unit 4: Preparation of patients for general radiological procedures
Unit 5: No unit name only content is given	Unit 5: Infection and principle of Asepsis
Paper 6 : Hospital Posting	Paper 6 : Hospital Posting
Paper Code: No Theory for this subject BMIT-353 practical	Paper Code: No Theory for this subject BRIT-303P practical
Credits: 0 for Theory and 10 for Practical	Credits: 0 for Theory and 4 for Practical
Credit hours: Not applicable	Credit hours: 0 for Theory and 120 for Practical
Old Subject Content	New Subject Content
All experiment is related radiology department.	All experiment is related radiology department.

to be

 DC SAKSHI
 Dir. (Gen.), SVSU



BOS SUMMARY

M.Sc. MLT in Clinical Biochemistry

SEMESTER-I

Old Subject Name	New approved Subject Name
Paper I: General Pathology	No change
Paper II: General Microbiology	No change
Paper III: General Biochemistry	No change
Paper IV: Human Anatomy and Physiology	No change
Paper V: Biostatistics and Computational Skills	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: General Pathology	Paper I: General Pathology
Paper Code: MMLT-101 for Theory and Practical both	Paper Code: MMLT-101 for Theory MMLT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Cell injury and Cellular Adaptations	Unit 1: No change
Unit 2: Inflammation	Unit 2: No change
Unit 3: Haemodynamic Disorders and their Pathogenesis	Unit 3: No change
Unit 4: Neoplasia	Unit 4: Neoplasia and Infectious Diseases
Unit 5: Healing	Unit 5: No change
Unit 6: Infectious diseases: Categories of Infectious diseases in brief	-
Paper II: General Microbiology	Paper II: General Microbiology
Paper Code: MMLT-102 for Theory and	Paper Code: MMLT-102 for Theory

Practical both	MMLT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: Introduction and scope of Microbiology	Unit 1: No change
Unit 2: Bacterial growth and Nutrition	Unit 2: Bacterial growth and role in Health and Disease
Unit 3: Bacterial role in Health and Disease	Unit 3: Sterilization and Disinfection
Unit 4: Sterilization and Disinfection	Unit 4: Culture Media
Unit 5: Culture Media	Unit 5: Culture methods and Identification of Bacteria
Unit 6: Culture methods	-
Unit 7: Unit name was not given. Only content was given.	-
Paper III: General Biochemistry	Paper III: General Biochemistry
Paper Code: MMLT-103 for Theory and Practical both	Paper Code: MMLT-103 for Theory MMLT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Structure of Cell and intracellular organelles	Unit 1: Carbohydrates, Structure of Cell and intracellular organelles is not included in the syllabus
Unit 2: Carbohydrates	Unit 2: Lipids
Unit 3: Lipids	Unit 3: Proteins
Unit 4: Proteins	Unit 4: Nucleic acids
Unit 5: Nucleic acids	Unit 5: Enzymes
Unit 6: Enzymes	-

Paper IV: Human Anatomy and Physiology	Paper IV: Human Anatomy and Physiology
Paper Code: MMLT-104 for Theory and Practical both	Paper Code: MMLT-104 for Theory MMLT-104P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 05	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Organization of cells and tissues
Unit 2: Unit name was not given. Only content was given.	Unit 2: Digestive and Skeletal system
Unit 3: Unit name was not given. Only content was given.	Unit 3: Respiratory and Circulatory system
Unit 4: Unit name was not given. Only content was given.	Unit 4: Excretory and Endocrine system
Unit 5: Unit name was not given. Only content was given.	Unit 5: Nervous and Integumentary system
Paper V: Biostatistics and Computational Skills	Paper V: Biostatistics and Computational Skills
Paper Code: MMLT-105 for Theory and Practical both	Paper Code: MMLT-105 for Theory MMLT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 10	Total number of units: 05
Syllabus was divided into two sections: Section A Biostatistics Section B Computational Skills	Syllabus has no sections and divided into five units.
Section A: Biostatistics Divided into five units. Unit names were not given. Only content was given.	Unit 1: Frequency distribution and Measures of Central tendencies
Section B: Computational skills Divided into five units. Unit names were not	Unit 2: Sampling and Null hypothesis

given.	
-	Unit 3: Analysis of Variance and Correlation regression
-	Unit 4: Computer Fundamentals
-	Unit 5: Network terminology and Application tools

BOS SUMMARY

M.Sc. MLT in Clinical Biochemistry

SEMESTER-II

Old Subject Name	New approved Subject Name
Paper I: Clinical Biochemistry	No change
Paper II: Immunology	No change
Paper III: Medical Genetics	No change
Paper IV: Molecular Biology and Recombinant DNA Technology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Clinical Biochemistry	Paper I: Clinical Biochemistry
Paper Code: MMLT-B-201 for Theory and Practical both	Paper Code: MMLT-101 for Theory MMLT-B-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 05	Total number of units: 05
Unit 1: Disorders of Carbohydrate metabolism	Unit 1: No change
Unit 2: Disorders of Lipid metabolism	Unit 2: No change
Unit 3: Disorders of Protein metabolism	Unit 3: No change
Unit 4: Disorders of Nucleic acid metabolism	Unit 4: No change
Unit 5: Hormonal Disturbances	Unit 5: No change
Paper II: Immunology	Paper II: Immunology

Paper Code: MMLT-B-202 for Theory and Practical both	Paper Code: MMLT-B-202 for Theory MMLT-B-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: Only content was given	Unit 1: Introduction
Unit 2: Only content was given	Unit 2: Immunoglobulin
Unit 3: Only content was given	Unit 3: Immune response
Unit 4: Only content was given	Unit 4: Compliment system and immunity
Unit 5: Only content was given	Unit 5: Immunological methods in Clinical laboratories
Paper III: Medical Genetics	
Paper Code: MMLT-B-203 for Theory and Practical both	Paper Code: MMLT-B-203 for Theory MMLT-B-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: The history and impact of genetics in medicine	Unit 1: Genetics in Medicine
Unit 2: The chromosome study and sex determination	Unit 2: No change
Unit 3: Human genetic diseases	Unit 3: Genetic diseases and Syndromes
Unit 4: Biochemical genetics	Unit 4: Human genome project- History is removed
Unit 5: Human genome project, treatment of genetic disease and gene therapy	Unit 5: Diagnosis and treatment of Genetic diseases
Unit 6: Mutation	-
Unit 7: Genetics in medicine	-

Paper IV: Molecular Biology and Recombinant DNA Technology	Paper IV: Molecular Biology and Recombinant DNA Technology
Paper Code: MMLT-B-204 for Theory and Practical both	Paper Code: MMLT-B-204 for Theory MMLT-B-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Nucleic acids and Polypeptides
Unit 2: Unit name was not given. Only content was given.	Unit 2: DNA replication, damage and repair
Unit 3: -	Unit 3: Transcription and Translation
Unit 4: -	Unit 4: Nucleosomes and methods of DNA and Protein analysis
Unit 5: -	Unit 5: Recombinant DNA technology

BOS SUMMARY

M.Sc. MLT in Clinical Biochemistry

SEMESTER-III

Old Subject Name	New approved Subject Name
Paper I: Diagnostic Biochemistry	No change
Paper II: Laboratory Management and Biomedical Techniques	No change
Paper III: Recent Advances in Biochemistry	No change
Paper IV: Research Methodology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Diagnostic Biochemistry	Paper I: Diagnostic Biochemistry
Paper Code: MMLT-B-301 for Theory and Practical both	Paper Code: MMLT-B-301 for Theory MMLT-B-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Liver and Biliary tract status	Unit 1: No change
Unit 2: Renal function	Unit 2: No change
Unit 3: Gastric and Pancreatic function	Unit 3: No change
Unit 4: Assessment of thyroid function	Unit 4: No change
Unit 5: Acid-base chemistry and Electrolytes balance	Unit 5: No change
Unit 6: Tumor Biomarkers	Unit 6: Removed

Paper II: Laboratory Management and Biomedical Techniques	Paper II: Laboratory Management and Biomedical Techniques
Paper Code: MMLT-B-302 for Theory and Practical both	Paper Code: MMLT-B-302 for Theory MMLT-B-302P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of sections: 02 Section A: Laboratory Management Section B: Biomedical Techniques Section A has 5 units and section B has 4 units	Total number of sections: Not Applicable The content of both sections has accommodated in 5 units.
Total number of units: 09	Total number of units: 05
Section A Unit 1: Preparation of Operating Budgets	Unit 1: Laboratory design
Section A Unit 2: Laboratory design	Unit 2: Laboratory safety
Section A Unit 3: Laboratory safety	Unit 3: Personnel management
Section A Unit 4: Personnel management	Unit 4: Methods of qualitative analysis of Biomolecules
Section A Unit 5: Laboratory Data-Processings	Unit 5: Quantitative methods
Section B Unit 1: Methods of qualitative analysis of biomolecules	-
Section B Unit 2: Quantitative methods	-
Section B Unit 3: Purification of proteins	-
Section B Unit 4: Bio-medical waste	-
Paper III: Recent Advances in Biochemistry	Paper III: Recent Advances in Biochemistry
Paper Code: MMLT-B-303 for Theory and Practical both	Paper Code: MMLT-B-303 for Theory MMLT-B-303P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content

Total number of units: 03	Total number of units: 05
Unit 1: Applied enzymology	Unit 1: No change
Unit 2: Techniques to investigate protein structure and folding	Unit 2: No change
Unit 3: Microarray techniques	Unit 3: Protein engineering
Unit 4: -	Unit 4: Protein sequencing
Unit 5: -	Unit 5: Microarray techniques
Paper IV: Research Methodology	Paper IV: Research Methodology
Paper Code: MMLT-B-304 for Theory and Practical both	Paper Code: MMLT-B-304 for Theory MMLT-B-304P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 04	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Scientific research
Unit 2: Data Analysis	Unit 2: Data collection and analysis
Unit 3: Documentation and Scientific Writing	Unit 3: No change
Unit 4: Research Ethics, IPR and Publishing	Unit 4: Preparation of research articles
Unit 5: -	Unit 5: Research ethics, IPR and publishing

BOS SUMMARY

M.Sc. MLT in Clinical Biochemistry

SEMESTER-IV

Old Subject Name	New approved Subject Name
Paper I: Research Project (Dissertation)	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Research Project (Dissertation)	Paper I: Research Project (Dissertation)
Paper Code: MMLT-B-401	Paper Code: MMLT-B-401P
Credits: Not applicable	Credits: 18
Credit hours: Not applicable	Credit hours: 270

BOS SUMMARY

M.Sc. MLT in Microbiology and Immunology

SEMESTER-I

Old Subject Name	New approved Subject Name
Paper I: General Pathology	No change
Paper II: General Microbiology	No change
Paper III: General Biochemistry	No change
Paper IV: Human Anatomy and Physiology	No change
Paper V: Biostatistics and Computational Skills	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: General Pathology	Paper I: General Pathology
Paper Code: MMLT-101 for Theory and Practical both	Paper Code: MMLT-101 for Theory MMLT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Cell injury and Cellular Adaptations	Unit 1: No change
Unit 2: Inflammation	Unit 2: No change
Unit 3: Haemodynamic Disorders and their Pathogenesis	Unit 3: No change
Unit 4: Neoplasia	Unit 4: Neoplasia and Infectious Diseases
Unit 5: Healing	Unit 5: No change
Unit 6: Infectious diseases: Categories of Infectious diseases in brief	-
Paper II: General Microbiology	Paper II: General Microbiology
Paper Code: MMLT-102 for Theory and	Paper Code: MMLT-102 for Theory

Practical both	MMLT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: Introduction and scope of Microbiology	Unit 1: No change
Unit 2: Bacterial growth and Nutrition	Unit 2: Bacterial growth and role in Health and Disease
Unit 3: Bacterial role in Health and Disease	Unit 3: Sterilization and Disinfection
Unit 4: Sterilization and Disinfection	Unit 4: Culture Media
Unit 5: Culture Media	Unit 5: Culture methods and Identification of Bacteria
Unit 6: Culture methods	-
Unit 7: Unit name was not given. Only content was given.	-
Paper III: General Biochemistry	
Paper Code: MMLT-103 for Theory and Practical both	Paper Code: MMLT-103 for Theory MMLT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Structure of Cell and intracellular organelles	Unit 1: Carbohydrates, Structure of Cell and intracellular organelles is not included in the syllabus
Unit 2: Carbohydrates	Unit 2: Lipids
Unit 3: Lipids	Unit 3: Proteins
Unit 4: Proteins	Unit 4: Nucleic acids
Unit 5: Nucleic acids	Unit 5: Enzymes
Unit 6: Enzymes	-

Paper IV: Human Anatomy and Physiology	Paper IV: Human Anatomy and Physiology
Paper Code: MMLT-104 for Theory and Practical both	Paper Code: MMLT-104 for Theory MMLT-104P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 05	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Organization of cells and tissues
Unit 2: Unit name was not given. Only content was given.	Unit 2: Digestive and Skeletal system
Unit 3: Unit name was not given. Only content was given.	Unit 3: Respiratory and Circulatory system
Unit 4: Unit name was not given. Only content was given.	Unit 4: Excretory and Endocrine system
Unit 5: Unit name was not given. Only content was given.	Unit 5: Nervous and Integumentary system
Paper V: Biostatistics and Computational Skills	Paper V: Biostatistics and Computational Skills
Paper Code: MMLT-105 for Theory and Practical both	Paper Code: MMLT-105 for Theory MMLT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 10	Total number of units: 05
Syllabus was divided into two sections: Section A Biostatistics Section B Computational Skills	Syllabus has no sections and divided into five units.
Section A: Biostatistics Divided into five units. Unit names were not given. Only content was given.	Unit 1: Frequency distribution and Measures of Central tendencies
Section B: Computational skills Divided into five units. Unit names were not	Unit 2: Sampling and Null hypothesis

given.	
-	Unit 3: Analysis of Variance and Correlation regression
-	Unit 4: Computer Fundamentals
-	Unit 5: Network terminology and Application tools

BOS SUMMARY

M.Sc. MLT in Microbiology and Immunology

SEMESTER-II

Old Subject Name	New approved Subject Name
Paper I: Medical Bacteriology	No change
Paper II: Medical Parasitology	Paper II: Immunology
Paper III: Immunology	Paper III: Medical Parasitology
Paper IV: Molecular Biology and Recombinant DNA Technology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Medical Bacteriology	Paper I: Medical Bacteriology
Paper Code: MMLT-M-201 for Theory and Practical both	Paper Code: MMLT-M-201 for Theory MMLT-M-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: Gram positive bacteria	Unit 1: Pathogenic bacteria
Unit 2: Gram Negative bacteria	Unit 2: Pathogenesis of gram-positive bacteria
Unit 3: -	Unit 3: Pathogenesis of gram-negative bacteria
Unit 4: -	Unit 4: Pathogenesis of mycoplasma and mycobacterium species
Unit 5: -	Unit 5: Nasocomial infections and methods of decontamination
Paper II: Medical Parasitology	Paper II: Immunology
Paper Code: MMLT-M-202 for Theory and	Paper Code: MMLT-M-202 for Theory

Practical both	MMLT-M-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: Brief Morphology, life cycle, pathogenicity and lab diagnosis of	Unit 1: Introduction
Unit 2: Diagnostic techniques in parasitology	Unit 2: Immunoglobulin
Unit 3: -	Unit 3: Immune response
Unit 4: -	Unit 4: Compliment system and immunity
Unit 5: -	Unit 5: Immunological methods in clinical laboratories
Paper III: Immunology	Paper III: Medical Parasitology
Paper Code: MMLT-M-203 for Theory and Practical both	Paper Code: MMLT-M-203 for Theory MMLT-M-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Introduction	Unit 1: Life cycle and pathogenicity of Protozoans
Unit 2: Immunoglobulin	Unit 2: Life cycle and pathogenicity of Platyhelminths
Unit 3: Immune response	Unit 3: Life cycle and pathogenicity of Nematodes
Unit 4: Compliment system	Unit 4: Diagnostic techniques in Parasitology
Unit 5: Immunological methods in clinical laboratories	Unit 5: Radiodiagnostics for parasitic diseases
Unit 6: Unit name was not given. Only content was given.	-

Paper IV: Molecular Biology and Recombinant DNA Technology	Paper IV: Molecular Biology and Recombinant DNA Technology
Paper Code: MMLT-M-204 for Theory and Practical both	Paper Code: MMLT-M-204 for Theory MMLT-M-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Nucleic acids and Polypeptides
Unit 2: Recombinant DNA technology	Unit 2: DNA replication, damage and repair
Unit 3: -	Unit 3: Transcription and Translation
Unit 4: -	Unit 4: Nucleosomes and methods of DNA and Protein analysis
Unit 5: -	Unit 5: Recombinant DNA technology

BOS SUMMARY

M.Sc. MLT in Microbiology and Immunology

SEMESTER-III

Old Subject Name	New approved Subject Name
Paper I: Virology and Mycology	No change
Paper II: Clinical Microbiology	No change
Paper III: Recent Advances in Microbiology	No change
Paper IV: Research Methodology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Virology and Mycology	Paper I: Virology and Mycology
Paper Code: MMLT-M-301 for Theory and Practical both	Paper Code: MMLT-M-301 for Theory MMLT-M-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02 Section A: Laboratory Management Section B: Biomedical Techniques Section A has 2 units and section B has 2 units	Total number of units: 05 The content of both sections has accommodated in 5 units
Section A Unit 1: Virology	Unit 1: Animal viruses
Section A Unit 2: Structure, Classification, Pathogenicity and Lab Diagnosis of	Unit 2: DNA viruses
Section B Unit 1: Mycology	Unit 3: RNA viruses
Section B Unit 2: Microscopy, Cultural Character, Pathogenicity and Lab diagnosis	Unit 4: Medically important Fungi
Section B Unit 3: -	Unit 5: Pathogenesis of Candidiosis
Paper II: Clinical Microbiology	Paper II: Clinical Microbiology

Paper Code: MMLT-M-302 for Theory and Practical both	Paper Code: MMLT-M-302 for Theory MMLT-M-302P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: -	Total number of units: 05
No unit division Only content was given	Unit 1: Scope of Microbiology
Unit 1: -	Unit 2: Bacteriology
Unit 2: -	Unit 3: Structure of bacterial cell
Unit 3: -	Unit 4: Normal microbial flora and their growth
Unit 4: -	Unit 5: Sterilization and Disinfection
Paper III: Recent Advances in Microbiology	
Paper Code: MMLT-M-303 for Theory and Practical both	Paper Code: MMLT-M-303 for Theory MMLT-M-303P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: -	Total number of units: 05
No unit division Only content was given	Unit 1: Microscopy
Unit 1: -	Unit 2: Significance of Polymerase chain reactions in microbiology
Unit 2: -	Unit 3: Molecular Diagnostics
Unit 3: -	Unit 4: Microarray and Gene sequencing
Unit 4: -	Unit 5: Identification tools of Microbial contamination
Paper IV: Research Methodology	
Paper Code: MMLT-M-304 for Theory and Practical both	Paper Code: MMLT-M-304 for Theory MMLT-M-304P for Practical

Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 04	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Scientific research
Unit 2: Data Analysis	Unit 2: Data collection and analysis
Unit 3: Documentation and Scientific Writing	Unit 3: No change
Unit 4: Research Ethics, IPR and Publishing	Unit 4: Preparation of research articles
Unit 5: -	Unit 5: Research ethics, IPR and publishing

BOS SUMMARY

M.Sc. MLT in Microbiology and Immunology

SEMESTER-IV

Old Subject Name	New approved Subject Name
Paper I: Research Project (Dissertation)	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Research Project (Dissertation)	Paper I: Research Project (Dissertation)
Paper Code: MMLT-B-401	Paper Code: MMLT-M-401P
Credits: Not applicable	Credits: 18
Credit hours: Not applicable	Credit hours: 270

BOS SUMMARY

M.Sc. MLT in Hematology and Blood Transfusion

SEMESTER-I

Old Subject Name	New approved Subject Name
Paper I: General Pathology	No change
Paper II: General Microbiology	No change
Paper III: General Biochemistry	No change
Paper IV: Human Anatomy and Physiology	No change
Paper V: Biostatistics and Computational Skills	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: General Pathology	Paper I: General Pathology
Paper Code: MMLT-101 for Theory and Practical both	Paper Code: MMLT-101 for Theory MMLT-101P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Cell injury and Cellular Adaptations	Unit 1: No change
Unit 2: Inflammation	Unit 2: No change
Unit 3: Haemodynamic Disorders and their Pathogenesis	Unit 3: No change
Unit 4: Neoplasia	Unit 4: Neoplasia and Infectious Diseases
Unit 5: Healing	Unit 5: No change
Unit 6: Infectious diseases: Categories of Infectious diseases in brief	-
Paper II: General Microbiology	Paper II: General Microbiology
Paper Code: MMLT-102 for Theory and	Paper Code: MMLT-102 for Theory

Practical both	MMLT-102P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 07	Total number of units: 05
Unit 1: Introduction and scope of Microbiology	Unit 1: No change
Unit 2: Bacterial growth and Nutrition	Unit 2: Bacterial growth and role in Health and Disease
Unit 3: Bacterial role in Health and Disease	Unit 3: Sterilization and Disinfection
Unit 4: Sterilization and Disinfection	Unit 4: Culture Media
Unit 5: Culture Media	Unit 5: Culture methods and Identification of Bacteria
Unit 6: Culture methods	-
Unit 7: Unit name was not given. Only content was given.	-
Paper III: General Biochemistry	Paper III: General Biochemistry
Paper Code: MMLT-103 for Theory and Practical both	Paper Code: MMLT-103 for Theory MMLT-103P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 06	Total number of units: 05
Unit 1: Structure of Cell and intracellular organelles	Unit 1: Carbohydrates, Structure of Cell and intracellular organelles is not included in the syllabus
Unit 2: Carbohydrates	Unit 2: Lipids
Unit 3: Lipids	Unit 3: Proteins
Unit 4: Proteins	Unit 4: Nucleic acids
Unit 5: Nucleic acids	Unit 5: Enzymes
Unit 6: Enzymes	-

Paper IV: Human Anatomy and Physiology	Paper IV: Human Anatomy and Physiology
Paper Code: MMLT-104 for Theory and Practical both	Paper Code: MMLT-104 for Theory MMLT-104P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 05	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Organization of cells and tissues
Unit 2: Unit name was not given. Only content was given.	Unit 2: Digestive and Skeletal system
Unit 3: Unit name was not given. Only content was given.	Unit 3: Respiratory and Circulatory system
Unit 4: Unit name was not given. Only content was given.	Unit 4: Excretory and Endocrine system
Unit 5: Unit name was not given. Only content was given.	Unit 5: Nervous and Integumentary system
Paper V: Biostatistics and Computational Skills	Paper V: Biostatistics and Computational Skills
Paper Code: MMLT-105 for Theory and Practical both	Paper Code: MMLT-105 for Theory MMLT-105P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 10	Total number of units: 05
Syllabus was divided into two sections: Section A Biostatistics Section B Computational Skills	Syllabus has no sections and divided into five units.
Section A: Biostatistics Divided into five units. Unit names were not given. Only content was given.	Unit 1: Frequency distribution and Measures of Central tendencies
Section B: Computational skills Divided into five units. Unit names were not	Unit 2: Sampling and Null hypothesis

given.	
-	Unit 3: Analysis of Variance and Correlation regression
-	Unit 4: Computer Fundamentals
-	Unit 5: Network terminology and Application tools

BOS SUMMARY

M.Sc. MLT in Hematology and Blood Transfusion

SEMESTER-II

Old Subject Name	New approved Subject Name
Paper I: Hematology	No change
Paper II: Clinical Pathology and Immunopathology	No change
Paper III: Medical Genetics	No change
Paper IV: Molecular Biology and Recombinant DNA Technology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Hematology	Paper I: Hematology
Paper Code: MMLT-H-201 for Theory and Practical both	Paper Code: MMLT-H-201 for Theory MMLT-H-201P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 03	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Bone Marrow
Unit 2: Unit name was not given. Only content was given.	Unit 2: Hemostasis
Unit 3: Unit name was not given. Only content was given.	Unit 3: Blood disorders
Unit 4: -	Unit 4: Collection and processing of blood samples
Unit 5: -	Unit 5: Hematological tools
Paper II: Clinical Pathology and Immunopathology	Paper II: Clinical Pathology and Immunopathology

Paper Code: MMLT-H-202 for Theory and Practical both	Paper Code: MMLT-H-202 for Theory MMLT-H-202P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: - No unit division, Topics divide into 2 sections Section A Section B	Total number of units: 05
Section A- Examination of samples	Unit 1: Examination of samples
Section A- Examination of body fluids	Unit 2: Examination of body fluids
Section B- Basics of immunology, Immune system disorders, Diagnostic tools of immunopathology	Unit 3: Basics of immunology
	Unit 4: Immune system disorders
	Unit 5: Diagnostic tools of immunopathology
Paper III: Medical Genetics	Paper III: Medical Genetics
Paper Code: MMLT-H-203 for Theory and Practical both	Paper Code: MMLT-H-203 for Theory MMLT-H-203P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 05	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Genetics in Medicine
Unit 2: Unit name was not given. Only content was given.	Unit 2: Chromosome study and Sex determination
Unit 3: Unit name was not given. Only content was given.	Unit 3: Genetic diseases and Syndromes
Unit 4: Unit name was not given. Only content was given.	Unit 4: Human genome project
Unit 5: Unit name was not given. Only content was given.	Unit 5: Diagnosis and treatment of genetic diseases

Paper IV: Molecular Biology and Recombinant DNA technology	Paper IV: Molecular Biology and Recombinant DNA technology
Paper Code: MMLT-H-204 for Theory and Practical both	Paper Code: MMLT-H-204 for Theory MMLT-H-204P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Nucleic acids and Polypeptides
Unit 2: Unit name was not given. Only content was given.	Unit 2: DNA replication, damage and repair
Unit 3: -	Unit 3: Transcription and Translation
Unit 4: -	Unit 4: Nucleosomes and methods of DNA and Protein analysis
Unit 5: -	Unit 5: Recombinant DNA technology

BOS SUMMARY

M.Sc. MLT in Hematology and Blood Transfusion

SEMESTER-III

Old Subject Name	New approved Subject Name
Paper I: Blood Banking and Transfusion	No change
Paper II: Laboratory Management	No change
Paper III: Recent Advances in Hematology and Blood Banking	No change
Paper IV: Research Methodology	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Blood Banking and Transfusion	Paper I: Blood Banking and Transfusion
Paper Code: MMLT-H-301 for Theory and Practical both	Paper Code: MMLT-H-301 for Theory MMLT-H-301P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 03	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Blood banking and blood group systems
Unit 2: Unit name was not given. Only content was given.	Unit 2: Blood grouping techniques
Unit 3: Unit name was not given. Only content was given.	Unit 3: Blood collection and processing
Unit 4: -	Unit 4: Blood transfusion
Unit 5: -	Unit 5: Transfusion reactions
Paper II: Laboratory Management	Paper II: Laboratory Management
Paper Code: MMLT-H-302 for Theory and Practical both	Paper Code: MMLT-H-302 for Theory MMLT-H-302P for Practical

Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: - 05	Total number of units: 05
Unit 1: Laboratory design	No change
Unit 2: Laboratory budgeting and regulations	Unit 2: Laboratory safety
Unit 3: Maintenance of records	Unit 3: Personnel management
Unit 4: Unit name was not given. Only content was given.	Unit 4: Methods of qualitative analysis of Biomolecules
Unit 5: Unit name was not given. Only content was given.	Unit 5: Quantitative methods
Paper III: Recent Advances in Heamatology and Blood Banking	
Paper Code: MMLT-H-303 for Theory and Practical both	Paper Code: MMLT-H-303 for Theory MMLT-H-303P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical
Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 02	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Automation tools in Heamatology
Unit 2: Unit name was not given. Only content was given.	Unit 2: Automation tools in Histopathology
Unit 3: -	Unit 3: Recent tools of blood banking
Unit 4: -	Unit 4: Blood banking data management
Unit 5: -	Unit 5: Regulatory bodies of blood banks
Paper IV: Research Methodology	
Paper Code: MMLT-H-304 for Theory and Practical both	Paper Code: MMLT-H-304 for Theory MMLT-H-304P for Practical
Credits: Not applicable	Credits: 4 for Theory and 2 for Practical

Credit hours: Not applicable	Credit hours: 60 for Theory and 30 for Practical
Old Subject Content	New Subject Content
Total number of units: 04	Total number of units: 05
Unit 1: Unit name was not given. Only content was given.	Unit 1: Scientific research
Unit 2: Data Analysis	Unit 2: Data collection and analysis
Unit 3: Documentation and Scientific Writing	Unit 3: No change
Unit 4: Research Ethics, IPR and Publishing	Unit 4: Preparation of research articles
Unit 5: -	Unit 5: Research ethics, IPR and publishing

BOS SUMMARY

M.Sc. MLT in Hematology and Blood Transfusion

SEMESTER-IV

Old Subject Name	New approved Subject Name
Paper I: Research Project (Dissertation)	No change

OLD SYLLABUS	NEW APPROVED SYLLABUS
Paper I: Research Project (Dissertation)	Paper I: Research Project (Dissertation)
Paper Code: MMLT-H-401P	Paper Code: MMLT-H-401P
Credits: Not applicable	Credits: 18
Credit hours: Not applicable	Credit hours: 270

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DC BAXER 23.2.23
Dir. (Gen.), SVSU



COMPARATIVE FEE STRUCTURE CHART

COURSE	TMU, MORADABAD	SANTOSH MEDICAL COLLEGE	IIMT MEERUT	GASHE, MEERUT	PREVIOUS FEE (SVSU)	PROPOSED FEE (SVSU)
BMLT	337200/-	285700/-	223500/-	189000/-	148000/-	226500/- ✓
BMIT	299400/-	153700/-	COURSE NOT AVAILABLE	COURSE NOT AVAILABLE	130000/-	247500/- ✓
B.OPTOMETRY	229200/-	178200/-	181500/-	COURSE NOT AVAILABLE	139500/-	187500/-

DC SAXENA
Dir. (Genl.) SVSU

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Dept of Paramedical Sciences, SMC
Proposed Fees Structure of UG/PG/Diploma Courses (Session 2023-2024) ✓

Date:- 24.12.2022

S.No	Programme	Eligibility Criteria	Duration		Mode of Admission	Odd Semester Fee	Even Semester Fee	Other Dues, Time Fee in 1st Sem Only	Caution Money (Refundable in 1st sem only)	Proposed Total Program Fee	Previous Total Program Fee	Remain
			(Theory)	(Practical)								
DEPARTMENT OF PARAMEDICAL SCIENCES, SUBHASH MEDICAL COLLEGE												
1	Diploma in X-Ray Technicians (Approved by U.P. State Medical Faculty, Lucknow)	10th+2 PCB (95% marks with PCB/PCOU)	2 Years		Counseling	12000/-	12000/-	2,000/-	15000/-	65000/-	62500/-	
2	Diploma in Medical Laboratory Technology (M.L.T) Technicians (Approved by U.P. State Medical Faculty, Lucknow)	10th+2 PCB (95% marks with PCB/PCOU)	2 Years		Counseling	12000/-	12000/-	2,000/-	15000/-	65000/-	62500/-	
3	Diploma in Medical Laboratory Technology (M.L.T)	10th+2 PCB (95% marks with PCB/PCOU)	1st Year 2nd Year		SNET/MERIT SV/SU SEAT	100000/- 90000/-	7500/-	4,000/-	15000/-	2,27,500/-	2,52,500/-	100000/- 15000/- 2,27,500/- 15000/- 2,52,500/- 100000/- 15000/- 2,27,500/- 15000/- 2,52,500/-
4	Diploma in X-Ray Technicians	10th+2 PCB (95% marks with PCB/PCOU)	1st Year 2nd Year		SNET/MERIT SV/SU SEAT	28500/- 13500/-	25000/- 10000/-	4,000/-	15000/-	96,000/-	93,500/-	
5	Diploma in O.T Technicians (Approved by U.P. State Medical Faculty, Lucknow)	10th+2 PCB (95% marks with PCB/PCOU)	1st Year 2nd Year		SNET/MERIT SV/SU SEAT	38500/- 26000/-	35000/- 22500/-	2,500/-	15000/-	1,38,500/-	1,37,000/-	

Total Fee Structure of TMU is 202000/- and State Medical College is 1,50,000/- (then Receipted by UPSC)

6	Diploma in Optometry (Fees Fixed by U.P. State Medical Faculty, Lucknow)	10th+2 PCB (35% marks with PCB/PCM)	1st Year	SEAT	33400/-	20600/-	4,000/-	15000/-	1,27,000/-	
			2nd Year		33400/-	20600/-				
7	Diploma in CT Scan Technician (Fees Fixed by U.P. State Medical Faculty, Lucknow)	10th+2 PCB (35% marks with PCB/PCM)	1st Year	SNET/MERIT SVSU SEAT	33400/-	20600/-	4,000/-	15000/-	1,27,000/-	
			2nd Year		33400/-	20600/-				
8	Bachelor of Sciences in Medical Laboratory Technology (B.Sc. MLT) (Approved by U.P. State Medical Faculty, Lucknow)	10th +2 (45% Marks with PCBE)/Diploma MLT (3 years + 6 Months Internship)	3 years + 6 Months Internship	Previous Fees	41,000/-	27,000/-	7,500/-	15000/-	2,26,500/-	148,000
					Proposed Fees	26,000/-	18,000/-	6,000/-		
9	Bachelor of Sciences in Medical Laboratory Technology (B.Sc. MLT)- (Lateral Entry) (Approved by U.P. State Medical Faculty, Lucknow)	12th +2 Years Diploma in MLT or 10+3 Years Diploma in MLT with 50% Marks (2 years + 6 Months Internship)	2 years + 6 Months Internship	Proposed Fees	41,000/-	27,000/-	7,500/-	15000/-	1,58,500/-	104,00
					Previous Fees	26,000/-	18,000/-	6,000/-		

10	✓ Bachelor of Science in Medical Imaging Technology (B.Sc. MIT) (Approved by U.P. State Medical Faculty, Lucknow)	10th +2 (50% Marks with PCB) Diploma X-Ray (45% Marks with PCB/PCME) (3 years + 6 Months Internship)	3 years + 6 Months Internship	✓ Previous Fees	23,000/-	15,000/-	6,000/-	10,000/-	130,000/-	130,000/-	
				✓ Proposed Fees	45,000/-	30,000/-	7,500/-	15,000/-	2,47,500/-	130,000/-	
				✓ Previous Fees	23,000/-	15,000/-	6,000/-	10,000/-	92,000/-		
				✓ Proposed Fees	45,000/-	30,000/-	7,500/-	15,000/-	1,77,500/-	92,000/-	
11	Bachelor of Science in Medical Imaging Technology (B.Sc. MIT) - (Lateral Entry) (Approved by U.P. State Medical Faculty, Lucknow)	12th +2 Years Diploma in X-Ray with 50% marks or 10*3 Years Diploma in X- Ray with 50% Marks (2 years + 6 Months Internship)	2 years + 6 Months Internship	✓ Proposed Fees							
12	Bachelor of Science in OT Technology (B.Sc. OT Technology)	10th+2 (45% Marks with PCB) (3 years + 6 Months Internship)	3 years + 6 Months Internship	SNET/MERIT	26,000/-	18,000/-	75,000/-	15000/-	1,54,500/-	148,000/-	
13	Bachelor of Science in OT Technology (B.Sc. OT Technology)- (Lateral Entry)	12th +2 Years Diploma in OT or 10th +3 Years Diploma in OT (2 years + 6 Months Internship)	2 years + 6 Months Internship	SNET/MERIT	26,000/-	18,000/-	75,000/-	15000/-	1,10,500/-	104,000/-	

14	Bachelor of Science in OT Technology (B.Sc. Hons. In Anesthesiology)	10th + 2 (45% marks with PCBE) 3 years + 6 Months Internship (6 months extra)	3 years + 6 Months (Internship 6 months extra)	SNET/MERIT	26,000/-	18,000/-	75,000/-	15,000/-	1,89,500/-	180,000/-
			7th Semester		20,000/-	15,000/-				
15	Bachelor of Science in OT Technology (B.Sc. Hons. In Anesthesiology) - (Lateral Entry)	12th + 2 Years Diploma in O.T. Technician or 10th + 3 Years Diploma in O.T. Technician 3 years + 6 Months Internship (6 months extra)	2 years + 6 Months (Internship 6 months extra)	SNET/MERIT	26,000/-	18,000/-	75,000/-	15,000/-	1,45,000/-	136,000/-
			7th Semester		20,000/-	15,000/-				
✓ 16	Bachelor of Optometry (Approved by U.P. State Medical Faculty, Lucknow)	10+2 (50% marks aggregate with PCBE)	3 years + 6 Months Internship	✓ Previous Fees	22,500/-	18,000/-	8,000/-	10,000/-	139,500/-	
				✓ Proposed Fees	22,500/-	22,000/-	8,000/-	10,000/-	1,57,500/-	139,500/-
✓ 17	Bachelor of Optometry - Lateral Entry (Approved by U.P. State Medical Faculty, Lucknow)	12th + 2 years Diploma in Optometry or 10th + 3 years Diploma in Optometry	2 years + 6 Months Internship	✓ Previous Fees	22,500/-	18,000/-	8,000/-	10,000/-	99,000/-	
				✓ Proposed Fees	22,500/-	22,000/-	8,000/-	10,000/-	1,12,500/-	99,000/-

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