

FACULTY OF MEDICINE



**SWAMI VIVEKANAND SUBHARTI UNIVERSITY
MEERUT 250005 (U.P.) INDIA**

ORDINANCE NO. V (40A)
B.SC. MEDICAL LABORATORY
TECHNOLOGY
(B.SC. MLT) COURSE

Ordinance No. V (40 A)

Ordinance Relating to B.Sc. Medical Laboratory Technology (B.Sc. MLT) Course

Chapter – 1

General

1. This ordinance may be called the “Ordinance Relating to B.Sc. Medical Laboratory Technology (B.Sc. MLT) Course”.
2. It shall come into force with immediate effect.

Chapter – 2

Eligibility for Admission

3. For admission to B.Sc. MLT course an applicant should be Intermediate (10+2) or its equivalent from a recognized Board with minimum 45% marks in Physics, Chemistry, Biology & English.
4. For Lateral Entry = Intermediate + DMLT passed students from university / board recognized by central/state government can directly admitted to 2nd year of B.Sc. MLT course.

Chapter – 3

Teaching Course

5. The course will be of three year duration consisting of three academic years.
6. The academic calendar shall be as follows

Session	-	1 st August to 30 th June
Examination	-	1 st July to 15 th July

7. The distribution of marks will be as under:

First Year

Subject	University Examination		Internal assessment	Total	Practical		Total
	Theory	Viva			Practical exam	Internal assessment	
Anatomy & Physiology	70	10	20	100	40	10	50
Pathology	70	10	20	100	40	10	50
Microbiology	70	10	20	100	40	10	50
Biochemistry	70	10	20	100	40	10	50
Total				400			200

Second Year

Subject	University Examination		Internal assessment	Total	Practical		Total
	Theory	Viva			Practical exam	Internal assessment	
Pathology	70	10	20	100	40	10	50
Microbiology	70	10	20	100	40	10	50
Biochemistry	70	10	20	100	40	10	50
Total				300			150

Third Year

Subject	University Examination		Internal assessment	Total	Practical		Total
	Theory	Viva			Practical exam	Internal assessment	
Pathology	70	10	20	100	40	10	50
Microbiology	70	10	20	100	40	10	50
Biochemistry	70	10	20	100	40	10	50
Total				300			150

* Viva voce of 10 marks will be conducted during practical examination.

* Internal departmental assessment will be twice in a year (Theory and Practical).

Chapter 4

Attendance

8. The students are expected to attend all the classes and should not have less than 75 % attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter 5

Examination

9. The Examination are to be designed with a view to ascertain whether the candidate has acquired adequate knowledge and skills along with clear concepts of the fundamentals, which are necessary for him to carry out his professional day to day work competently. Evaluation will be carried out on an objective basis.

9.1 **University Examination:**

Only those candidates will be allowed to appear in University Examinations who fulfill the following criteria:

9.1.1. Attendance: 75% of attendance in a subject for appearing in the examination is compulsory.

9.1.2 Internal assessment: Candidate must have obtained a minimum of 35% marks allotted for internal assessment

9.2 (a) Theory examinations of the first, second and third year would be held according to the prescribed syllabus in each year for theory examination.

(b) For practical examination for 1st year: The syllabus of 1st year.

For 2nd year practical exam: Combined syllabus of 1st and 2nd year.

For 3rd year practical exam: Combined syllabus of all 3 years.

9.3 Record Book: At the time of practical examination each candidate shall submit to the Examiner the record logbook and practical manual duly certified by the head of the Department as a bonafide record of work done by the candidate.

9.4 **Internal Assessment:**

- Internal assessment for Theory will be based on class test and terminal examinations.
- Internal assessment for Practical work shall be based on day to day work assessment (logbook) and marks obtained in Practical class test & terminal examinations.

- a. A maximum of **10 marks** in each subject shall be awarded for attending classes (theory / practical) as per the following norms:

85% or more attendance	-	10 Marks
80% or more but less than 85% attendance	-	9 Marks
75% or more but less than 80% attendance	-	8 Marks
70% or more but less than 75% attendance	-	7 Marks
65% or more but less than 70% attendance	-	5 Marks
60% or more but less than 65% attendance	-	3 Marks
51% or more but less than 60% attendance	-	2 Marks
50% attendance	-	1 Mark
Less than 50% attendance	-	0 Mark

- 9.5 The entire course has to be completed within a maximum of five years from the date of original admission in the course.

Chapter-6

Paper setting, Evaluation & Results

10. The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7

Power to Modify

11. In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the Ordinance. Subject to subsequent ratification by the Executive Council.

Chapter-8

Compulsory rotatory Internship

12.

- 12.1 **General** :- Internship is a phase of training wherein a graduate is expected to conduct actual practice of Medical Laboratory Technology and acquire skills under supervision so that he/she may become capable of functioning independently. It will be of six months duration.

12.2

SPECIFIC OBJECTIVES :-

- 12.2.1 At the end of internship training the graduate shall be able to:

12.2.1.1 Perform all the diagnostic techniques.

12.2.1.2 Use discretely the essential laboratory services.

12.2.1.3 Manage all type of clinical diagnostic methods.

12.2.1.4 Demonstrate skill in handling the modern equipment in Medical Microbiology.

12.2.1.5 Develop leadership qualities to function effectively as a leader of the Laboratory environment.

12.2.1.6 Render services to the Laboratory set up and to communicate effectively with the doctors and the hospital management.

12.3 **INTERNSHIP TIME DISTRIBUTION (Main Objective)**

Development of skill and competency in data processing, reporting and maintenance of records, Laboratory investigation.

Total Period and Internship: 6 Months

Histopathology and Cytology Laboratory - 1 ½

Clinical Pathology and Hematology Laboratory and Blood Transfusion - 1 ½

Clinical Biochemistry Laboratory - 1 ½

12.4 OTHER DETAILS

12.4.1 All parts of internship shall be done as far as possible in the Hospitals or/ and Medical College.

12.4.2 Every candidate will be required after passing the final B.Sc. (Medical Lab.Tech.) Examination to undergo compulsory rotatory internship to the satisfaction of the college Authorities and University concerned for a period of 6 months so as to be eligible for the award of the degree of Bachelor of Science in Medical Laboratory Technology and registration

12.4.3 The University shall issue a provisional B.Sc. Pass Certificate on passing the final examination.

12.4.4 The Intern shall be entrusted with Laboratory responsibilities under direct supervision of Laboratory incharge/ Technician. They shall not be working independently.

12.4.6 Interns will not issue certified Laboratory reports or other related documents under their signature.

12.5 ASSESSMENT OF INTERNSHIP

12.5.1 The Interns maintain the record of work/ logbook, which is to be verified and certified by the Laboratory In charge/ Technician under whom he/she works. A part from scrutiny of the record of work, assessment and evaluation of training shall be undertaken by an objective approach using situation, tests in knowledge, skills and attitude during and the end of training. Based on the record of work and date of evaluation, the H.O.D. shall issue Certificate of Satisfactory Completion of training following which the University shall award the B.Sc. (MLT) Degree to declare the candidate eligible for the same.

12.5.2 Satisfactory completion shall be determined on the basis of the following:

12.5.2.1 Proficiency of knowledge required for each Laboratory Techniques.

12.5.2.2 The competency in skills expected to manage each Laboratory Technique.

12.5.2.2.1 Competency for performance

12.5.2.2.2 As assistance in procedures

12.5.2.2.3 Of having observed.

12.5.2.3 Responsibility, punctuality, work up of Laboratory Techniques, involvement in procedures, follow up of report.

12.5.2.4 Capacity to work in a team (behavior with colleagues, nursing staff and relationship with Medical and Paramedical.)

12.5.2.5 Initiating participation in discussions, research aptitude.

ORDINANCE NO. V (43A)
MASTER OF SCIENCE (M.Sc.)
COURSE IN MEDICAL

Ordinance No. V (43A)

ORDINANCE RELATING TO MASTER OF SCIENCE (M.Sc.) COURSE IN MEDICAL SUBJECTS

Chapter -1 General

1. This ordinance may be called the “Ordinance Relating to Master of Science (M.Sc.) course in Medical Subjects”.
2. (i) It shall come into force with immediate effect.
(ii) This supersedes the previous Ordinance relating to Master of Science (M.Sc.) course in Medical Subjects [V-(43A)].

Chapter -2 Eligibility for Admission

3. (i) An applicant holding one of the following degrees or equivalent from a recognized university/institute shall be eligible to apply for this course subject to the stipulations laid down in the subsequent sub-clauses:
(a) MBBS, (b) BDS, (c) BAMS, (d) BHMS, (e) BPT, (f) BMLT/BMRD, (g) B.Sc. (Nursing).
(ii) An applicant holding MBBS degree from a recognized University/Institute shall be eligible to be considered for direct admission in the second year of the M.Sc. in Medical subjects course.
(iii) An applicant with B.Sc. degree in Nutrition/ Home Science shall be eligible to apply for M.Sc. course in Medical Physiology only.
(iv) An applicant with B.Sc. degree in Biochemistry shall be eligible to apply for M.Sc. course in Medical Biochemistry only.
(v) An applicant with B.Sc. degree in Microbiology shall be eligible to apply for M.Sc. course in Medical Microbiology only.
(vi) An applicant with B. Pharm. degree shall be eligible to apply for M.Sc. course in Medical Pharmacology only.

Chapter -3 Teaching Course

4. The M.Sc. in Medical subjects course shall be of three year duration, comprising three academic years.
5. Presently specialized course are available for M.Sc. in the following subjects, any of which one selected by a student:- Medical Anatomy, Medical Physiology, Medical Biochemistry, Medical Pharmacology, and Medical Microbiology.
6. The academic calendar shall be as follows:

7. The study and evaluation scheme of the course shall be as follows.

Paper	Annual Examination
<u>I Year</u>	
Paper-I Theory	100
Paper-2 Theory	100
Practical Examination	100
Total	300
<u>II Year</u>	
Paper-I Theory	100
Paper-2 Theory	100
Practical Examination	100
Total	300
<u>III Year</u>	
Paper-I Theory	100
Paper-2 Theory	100
Practical Examination	100
Dissertation	Approved / rejected
Total	300
Grand Total	900

8. **Dissertation:-** Each candidate pursuing M.Sc. Medical course is required to carry out dissertation work on a selected topic under the guidance of a recognized post graduate teacher. The results of such a work shall be submitted in the form of dissertation.
- Every candidate shall submit synopsis to the Registrar (Academics) of the University on the prescribed proforma, two hard copies of synopsis along with particulars of proposed dissertation work within six months from the date of commencement of the course on or before the date notified by the University/Principal office. The synopsis shall be sent through proper channel. The University shall arrange for review of synopsis and if found suitable shall register the dissertation topic. No change in the dissertation topic/Guide shall be made without prior approval from the University.
- The written text of dissertation shall not be less than 100 pages and shall not exceed 150 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 8.27" x 11.69") and bound properly. Spiral binding should not to be done. A declaration by the candidate that the work was done by him/her shall be included. The guide, head of the department and head of the institution shall certify the bonafide of the dissertation.
- Four copies of dissertation shall be submitted to the University through proper channel along with a soft copy (CD), three months before the third year final examinations. It shall be assessed by two Examiners appointed by the University, one internal and one external. The examiners shall give their specific recommendations (either approval or rejection). In latter case, the candidate shall be required to submit revised dissertation within a period of six months from the date of communication. Only one chance should be given. Acceptance of the dissertation is a pre-requisite for a candidate to be eligible to appear in the final

examination.

Standard format of Dissertation- The dissertation should be written under the following headings:

- a) Introduction
- b) Aims and objective of study
- c) Review of Literature
- d) Methodology
- e) Analysis and Interpretation
- f) Results
- g) Discussion
- h) Conclusion
- i) Summary
- j) Reference
- k) Appendices

9. **Viva-Voce**:- The marks for Project/ Presentation / Viva-voce shall be awarded jointly by the External examiner (appointed by the University for the purpose) & the Internal examiner, in accordance with the general provisions.

Chapter -4

Attendance

10. The students are expected to attend all the classes and should not have less than 80 % attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter -5

Examination

11. Each theory paper carries 100 marks.
12. Each practical examination carries 100 marks.
13. The entire course has to be completed within a maximum of six years from the date of original admission in the course by those students who are admitted in the first year and within five years by those who get admitted directly in the second year [vide clause 3 (ii)].

Chapter – 6

Paper setting, Evaluation & Results

14. The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7

Power to Modify

15. In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the ordinance. Subject to subsequent ratification by the Executive Council.

ORDINANCE NO. V (46A)

MD / MS COURSE

ORDINANCE NO. V (70A)
MASTER OF SCIENCE IN MEDICAL
LABORATORY TECHNOLOGY
(M.SC. MLT) COURSES

Ordinance No- V (70A)

Ordinance relating to Master of Science in Medical Laboratory Technology (M.Sc. MLT) courses

Chapter – 1

(General)

1. This ordinance may be called the Ordinance Relating to “Master of Science in Medical Laboratory Technology (MSc. MLT) Course”
2. It shall come into force with immediate effect.
3. This ordinance shall apply to all programs leading to Master’s Degrees in Medical Laboratory Technology.

Chapter – 2

(Eligibility for Admission)

4. (i) A candidate should have passed B.Sc. MLT & completed 6 months of compulsory rotatory internship following BSc. MLT course. (for Indian Nationals)
(ii) There shall be relaxation of 5% marks for SC/ST categories candidates.
5. A candidate should have passed B.Sc. MLT equivalent course. (for Foreign Candidates).

Chapter – 3

(Teaching Course)

6. The course will be of two years duration, spread over four semesters.
7. The academic calendar shall be as follows :

1 st & 3 rd , Semester	:	Session	–	1 st Aug. to 15 th Dec.
		Exam	–	16 th Dec. to 30 th Dec.
2 nd & 4 th Semester	:	Session	–	1 st Jan. to 31 st May
		Exam	–	1 st June to 15 th June
8. **Course structure:-**
Master of Science degree in Medical Laboratory Technology Course, M.Sc. (MLT) is available in the following three branches:
 - a) M.Sc. MLT in Clinical Biochemistry
 - b) M.Sc. MLT in Microbiology & Immunology
 - c) M.Sc. MLT in Hematology & Blood Transfusion
9. The candidate has to choose the branch of his /her choice during the time of seat selection. Change of branch will be permitted within 2 months of admission. No change of branch will be allowed after the stipulated time.
10. **DISTRIBUTION OF MARKS BRANCH WISE:-**

10. A) For MSc. MLT in MICROBIOLOGY & IMMUNOLOGY**FIRST YEAR (I –SEMESTER)**

<u>SEMESTER-I</u>	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
I	HUMAN ANATOMY, PHYSIOLOGY, BASIC BIOCHEMISTRY & BIOSTATISTICS	80	20	100	40
II	GENERAL PATHOLOGY & GENERAL MICROBIOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

(II- SEMESTER)

<u>SEMESTER-II</u>	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
III	MEDICAL BACTERIOLOGY	80	20	100	40
IV	MEDICAL PARASITOLOGY & IMMUNOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

For MSc. MLT in MICROBIOLOGY & IMMUNOLOGY

SECOND YEAR

<u>SEMESTER-</u> III	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
PAPER-V	VIROLOGY & MYCOLOGY	80	20	100	40
PAPER-VI	CLINICAL MICROBIOLOGY , RECENT ADVANCES IN MICROBIOLOGY & RESEARCH METHODOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

SEMESTER-IV

<u>SEMESTER-IV</u>	MAX. MARKS	Total	PASSING MARKS
DISSERTATION WORK	Accepted/ Rejected	450	180
PROJECT CONTENT	200		
PRESENTATION	100		
VIVA-VOCE	100		
CONTINUOUS EVALUATION	50		

10. B) For MSc. MLT in CLINICAL BIOCHEMISTRY**FIRST YEAR (I SEMESTER)**

<u>SEMESTER-I</u>	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
PAPER- I	HUMAN ANATOMY, PHYSIOLOGY, BASIC BIOCHEMISTRY & BIostatISTICS	80	20	100	40
PAPER- II	GENERAL PATHOLOGY & GENERAL MICROBIOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

(II- SEMESTER)

<u>SEMESTER-II</u>	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
PAPER- III	CLINICAL BIOCHEMISTRY AND IMMUNOLOGY	80	20	100	40
PAPER- IV	GENETICS AND MOLECULAR BIOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

For MSc. MLT in CLINICAL BIOCHEMISTRY

SECOND YEAR

(III- SEMESTER)

<u>SEMESTER- III</u>	<u>SUBJECT</u>	<u>EXT. MARKS</u>	<u>INT. MARKS</u>	<u>MAX. MARKS</u>	<u>PASSING MARKS</u>
PAPER -V	DIAGNOSTIC BIOCHEMISTRY & RECENT ADVANCES IN BIOCHEMISTRY	80	20	100	40
PAPER-VI	LAB MANAGEMENT, BIOMEDICAL TECHNIQUES & RESEARCH METHODOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

(IV-SEMESTER)

<u>SEMESTER-IV</u>	<u>MAX. MARKS</u>	<u>Total</u>	<u>PASSING MARKS</u>
DISSERTATION WORK	Accepted/ Rejected	450	180
PROJECT CONTENT	200		
PRESENTATION	100		
VIVA-VOCE	100		
CONTINUOUS EVALUATION	50		

10. C) For MSc. MLT IN HEMATOLOGY & BLOOD TRANSFUSION**FIRST YEAR (I SEMESTER)**

<u>SEMESTER-I</u>	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
PAPER- I	HUMAN ANATOMY, PHYSIOLOGY, BASIC BIOCHEMISTRY & BIostatISTICS	80	20	100	40
PAPER -II	GENERAL PATHOLOGY & GENERAL MICROBIOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

(II- SEMESTER)

<u>SEMESTER-II</u>	SUBJECT	EXT. MARKS	INT. MARKS	MAX. MARKS	PASSING MARKS
PAPER -III	HAEMATOLOGY & CLINICAL PATHOLOGY	80	20	100	40
PAPER- IV	IMMUNOPATHOLOGY & MEDICAL GENETICS	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

For MSc. MLT IN HEMATOLOGY & BLOOD TRANSFUSION

SECOND YEAR

(III - SEMESTER)

<u>SEMESTER-</u> <u>III</u>	<u>SUBJECT</u>	<u>EXT.</u> <u>MARKS</u>	<u>INT.</u> <u>MARKS</u>	<u>MAX.</u> <u>MARKS</u>	<u>PASSING</u> <u>MARKS</u>
PAPER- V	BLOOD-BANKING & TRANSFUSION	80	20	100	40
PAPER- VI	LAB MANAGEMENT, RECENT ADVANCES & RESEARCH METHODOLOGY	80	20	100	40
ORAL & PRACTICAL		VIVA-VOCE (50)	PRACTICAL (100)	150	60

(SEMESTER – IV)

<u>SEMESTER-IV</u>	<u>MAX. MARKS</u>	<u>Total</u>	<u>PASSING</u> <u>MARKS</u>
DISSERTATION WORK	Accepted/ Rejected	450	180
PROJECT CONTENT	200		
PRESENTATION	100		
VIVA-VOCE	100		
CONTINUOUS EVALUATION	50		

11. **Dissertation**:- Each candidate pursuing M.Sc. MLT course is required to carry out dissertation work on a selected topic under the guidance of a recognized post graduate teacher. The results of such a work shall be submitted in the form of dissertation.

Every candidate shall submit synopsis to the Registrar (Academics) of the University on the prescribed proforma, two hard copies of synopsis along with particulars of proposed dissertation work within six months from the date of commencement of the course on or before the date notified by the University/Principal office. The synopsis shall be sent through proper channel. The University shall arrange for review of synopsis and if found suitable shall register the dissertation topic. No change in the dissertation topic/Guide shall be made without prior approval from the University.

The written text of dissertation shall not be less than 100 pages and shall not exceed 150 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 8.27” x 11.69”) and bound properly. Spiral binding should not to be done. A declaration by the candidate that the work was done by him/her shall be

included. The guide, head of the department and head of the institution shall certify the bonafide of the dissertation.

Four copies of dissertation shall be submitted to the University through proper channel along with a soft copy (CD), three months before the second year final examinations. It shall be assessed by two Examiners appointed by the University, one internal and one external. The examiners shall give their specific recommendations (either approval or disapproval). In latter case, the candidate shall be required to submit revised dissertation within a period of six months from the date of communication. Only one chance should be given. Acceptance of the dissertation is a pre-requisite for a candidate to be eligible to appear in the final examination.

Standard format of Dissertation- The dissertation should be written under the following headings:

- l) Introduction
 - m) Aims and objective of study
 - n) Review of Literature
 - o) Methodology
 - p) Analysis and Interpretation
 - q) Results
 - r) Discussion
 - s) Conclusion
 - t) Summary
 - u) Reference
 - v) Appendices
12. **Viva-Voce**:- The marks for Project/ Presentation / Viva-voce shall be awarded jointly by the External examiner (appointed by the University for the purpose) & the Internal examiner, in accordance with the general provisions.
13. **Guide**:- A recognized guide shall supervise dissertation work of not more than four students per academic year. The eligibility academic qualification and teaching experience required for recognition as Guides are:-
- a). Shall be a full time Faculty member in the University.
 - b). MD/ Ph.D./ M.Phil. in respective subjects.
 - c). M.Sc. (only Medical Microbiology/Medical Biochemistry degree acceptable) – three years' experience after M.Sc. degree.

Chapter – 4

(Attendance)

14. The students are expected to attend all the classes and should not have less than 80 % attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter – 5
(Examination)

15. The examination in each semester shall be conducted in two parts:
- A. Internal assessment** will be of 20 marks as under:-
- a. Midterm written test including in-between snap tests if any, after three months carrying 10 marks.
 - b. A maximum of **10 marks** in each subject shall be awarded for attending classes (theory / practical) as per the following norms:

85% or more attendance	-	10 Marks
80% or more but less than 85% attendance	-	9 Marks
75% or more but less than 80% attendance	-	8 Marks
70% or more but less than 75% attendance	-	7 Marks
65% or more but less than 70% attendance	-	5 Marks
60% or more but less than 65% attendance	-	3 Marks
51% or more but less than 60% attendance	-	2 Marks
50% attendance	-	1 Mark
Less than 50% attendance	-	0 Mark
- B. University Examination** carrying 80 marks.
16. The entire course has to be completed within a maximum of four (04) years from the date of original admission in the course.

Chapter–6
Paper setting, Evaluation & Results

17. The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7

Power to Modify

18. In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the Ordinance. Subject to subsequent ratification by the Executive Council.

ORDINANCE NO V (71A)
BACHELOR OF SCIENCE IN
MEDICAL IMAGING TECHNOLOGY
(B.SC. MIT) COURSE
CHAPTER - 1

Ordinance No V (71A)

Ordinance relating to Bachelor of Science in Medical Imaging Technology (B.Sc. MIT) Course

Chapter - 1

General

1. The ordinance may be called the ordinance relating to Bachelor of Science in Medical Imaging Technology (B.Sc. MIT) Course.
2. It shall into force with immediate effect.

Chapter - 2

Eligibility for admission

3. For the admission of B.Sc. (MIT) course an applicant should be Intermediate (10+2) or its equivalent from a recognised board with minimum 50% marks in Physics, Chemistry and Biology (PCB) with English as a subject of the course.
4. The students, who are Foreign Nationals/Non-Resident Indians/Person of Indian Origin have passed an examination, which is equivalent to the Intermediate (10 +2) examination in India. The student must obtain certificate of equivalence from the Association of Indian Universities before admission.
5. **Lateral entry**-Intermediate + Diploma in X-Ray Technician two years (2 years) Course passed student may directly enter 2nd year of B.Sc. (MIT) course, provided the candidate should be registered with recognised medical faculty/council with valid registration number.

Chapter- 3

Teaching Course

6. The course will be of Three Years (3 Years) duration consisting of three academic years.
7. The Academic calendar shall be as follows

Session:	-	1st August to 31st June
Examination:	-	1st July to 15th July

8. The Schedule and distribution of marks will be as under:

A) First Year

Four (4) Lectures per week and Three (3) Practicals (demonstration) per week

Hours:	Radiation Physics and Applied Physics to Radiography:	35 Hrs.
	Radiography including Anatomy and Physiology applied to Radiography & basic views:	100 Hrs.

UNIVERSITY EXAMINATION								
Subjects	Theory	Internal Assessment Theory	Total Theory	Practical and viva	Internal Assessment Practical	Practical Total	Grand Total	Minimum pass marks
Radiation Physics and Applied Physics to Radiography	75	50	125	75	50	125	250	100 (50-50 separately in theory and practical)
Radiography, Anatomy and Physiology applied to Radiography & Basic views	75	50	125	75	50	125	250	100 (50-50 separately in theory and practical)
Total	150	100	250	150	100	250	500	200 (100-100 separately in theory)

								and practical)
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B) Second Year

Four (4) Lectures per week and Three (3) practical (Demonstration) per week

Hours: Physics applied to radiography & Imaging:

70 Hrs.

Radiography, Dark Room, Contrast & Procedures, Equipment and Hospital Administration:

70 Hrs.

UNIVERSITY EXAMINATION								
Subjects	Theory	Internal Assessment Theory	Total Theory	Practical and viva voce	Internal Assessment	Total Practical & Viva	Grand Total	Minimum pass marks
Physics Applied to Radiography & Imaging	100	50	150	100	50	150	300	120 (60-60 separately in theory and practical)
Radiography, Dark Room, Contrast & Procedures, Equipment and Hospital Administration	100	50	150	100	50	150	300	120 (60-60 separately in theory and practical)
Total	200	100	300	200	100	300	600	240 (120-120 separately in theory and practical)

C) Third Year

Four (4) Lectures per week and Three (3) Practical (Demonstration) per week

Hours: Physics applied to radiography & advance Imaging:

70 Hrs.

Advance Imaging, Equipment & Techniques, Quality control, Radiation protection

70 Hrs.

UNIVERSITY EXAMINATION								
Subjects	Theory	Internal Assessment Theory	Total Theory	Practical and viva voce	Internal Assessment	Total Practical & Viva	Grand Total	Minimum pass marks
Physics applied to Radiography & Advance Imaging	100	50	150	100	50	150	300	120 (60-60 separately in theory and practical)
Advance Imaging, Equipment & Techniques, Quality control, Radiation protection	100	50	150	100	50	150	300	120 (60-60 separately in theory and practical)
Total	200	100	300	200	100	300	600	240 (120-120 separately in theory and practical)

D) Compulsory Rotatory Internship of Six (6) months duration (as per chapter -9)

E) The course for Practical Examination:-

In Ist Year
In IInd year
In IIIrd Year

The syllabus of Ist Year
The syllabus of both Ist & 2nd Year
The syllabus of all three years

Chapter- 4 **Attendance**

9. The students are expected to attend all the classes and should not have less than 75 % attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter- 5 **Examination**

10. The examination in each semester shall be conducted in two parts:

C. Internal assessment will be of 50 marks as under:-

- c. Midterm written test including in-between snap tests if any, after three months carrying 40 marks.
- d. A maximum of **10 marks** in each subject shall be awarded for attending classes (theory / practical) as per the following norms:

85% or more attendance	-	10 Marks
80% or more but less than 85% attendance	-	9 Marks
75% or more but less than 80% attendance	-	8 Marks
70% or more but less than 75% attendance	-	7 Marks
65% or more but less than 70% attendance	-	5 Marks
60% or more but less than 65% attendance	-	3 Marks
51% or more but less than 60% attendance	-	2 Marks
50% attendance	-	1 Mark
Less than 50% attendance	-	0 Mark

D. University Examination carrying 100 marks.

- 11. The entire course has to be completed within a maximum of five (05) years from the date of original admission in the course.

Chapter-6

Paper setting, Evaluation & Results

- 12. The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7

Power to Modify

- 13. In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the Ordinance. Subject to subsequent ratification by the Executive Council.

Chapter- 8

INTERNSHIP: (Compulsory Rotatory Internship)

- 14. Internship is a phase of training wherein a graduate is expected to conduct actual practice of Medical Imaging Technology and acquire skills under supervision so that he/she may become capable of functioning independently. It will be of Six (6) months duration.

- 15.1 **SPECIFIC OBJECTIVES:** At the end of internship training the graduate shall be able to:

- 15.1.1. Perform all the diagnostic technique.
- 15.1.2. Use discretely the essential diagnostic services in radiology
- 15.1.3. Manage all type of Clinical Diagnostic methods
- 15.1.4. Demonstrate skill in handling the modern equipment in Medical diagnostic Radiology
- 15.1.5. Renders services to the diagnostic centres/department of Radiology and to communicate effectively with and patient with efficient management skill.

- 15.2 **TIME SCHEDULE:**

- 15.2.1 Conventional radiography , Contrast Procedures, Dark room procedures and Processing, CR and Digital Radiography One month
- 15.2.2 Ultrasonography, guided procedures, mammography One month
- 15.2.3 Computerized Tomography including advance techniques, angiography etc. Two months
- 15.2.4 Magnetic Resonance Imaging with it advance Techniques Two months

- 15.3. All parts of the internship shall be done as far as possible in the hospitals or/ and Medical College.
- 15.4. The intern shall be entrusted with the responsibilities under the direct supervision of HOD of the department.
- 15.5. Intern shall not issue certified reports or other related documents under the signatures.
- 15.6. Interns shall maintain records/logbook certified by technicians or in-charge under whom he/she get training.
- 15.7. The Dean/H.O.D. shall issue the certificate of satisfactory completion of training.

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ORDINANCE NO – V (73A)
MASTER OF SCIENCE IN
MEDICAL IMAGING TECHNOLOGY
(M.SC. MIT) COURSE
CHAPTER - 1

Ordinance No – V (73A)

Ordinance relating to Master of Science in Medical Imaging Technology (M.Sc. MIT) Course

Chapter - 1

General

1. The ordinance may be called the ordinance relating to Master of Science in Medical Imaging Technology (M.Sc. MIT) Course.
2. It shall into force with immediate effect.

Chapter - 2

Eligibility for admission

3. For the admission of M.Sc. (MIT) course an applicant should be Intermediate (10+2) or its equivalent from a recognised board with minimum Fifty percent (50%) marks in Physics, Chemistry and Biology (PCB) with English as a subject of the course.
4. The student should have a three (3) years B.Sc. in Imaging Technology or an equivalent degree, from the recognised University with minimum 50% marks, provided the candidate should be registered with recognised medical faculty/council with valid registration number and completed six (6 Months compulsory rotatory Internship.
5. The foreign nationals/Non-resident Indians/person of Indian origin students who have passed an examination, which is equivalent to the B.Sc. in Imaging Technology shall be eligible for admission to this course provided marks obtained will not be less than 50%. The student must obtain certificate of equivalence from the Association of Indian Universities, New Delhi, before admission.
6. The reservation and relaxation for SC/ST/OBC/PWD and other categories shall be as per the rules of the Central Government/State Government, whichever is applicable.

Chapter- 3

Teaching Course

7. The course will be of Two Years (2 Years) duration.
8. The Academic calendar shall be as follows

Session:	-	Ist August to 31st June
Examination:	-	Ist July to 15th July

9. The Schedule and distribution of marks will be as under:

A. First Year

Four (4) Lectures per week and Three (3) Practical (demonstration) per week.

Hours: Physics including Radiation Physics applied to radiography and Imaging:	35 Hrs.
Anatomy and Physiology applied to Radiography, Radiography including basic views & Procedures and advance imaging technique of USG & CT and Instruments:	100 Hrs.

UNIVERSITY EXAMINATION								
Subjects	Theory	Internal Assessment Theory	Total Theory	Practical and viva	Internal Assessment Practical	Practical Total	Grand Total	Minimum pass marks
Physics including Radiation Physics applied to radiography and Imaging (USG/CT)	140	60	200	70	30	100	300	(50%-50% separately in theory and practical)
Anatomy and Physiology applied to Radiography, Radiography including basic views & procedures and advance Imaging Techniques of USG & CT Instrument	140	60	200	70	30	100	300	(50%-50% separately in theory and practical)
Total	280	120	400	140	60	200	600	

B. Second Year

Four (4) Lectures per week and Three (3) practical (Demonstration) per week.

Hours: Physics including applied physics to radiography and Imaging Techniques: 70 Hrs.

Radiography including dark room procedures, specialised procedures and apparatus for radiography, Hospital administration and patients care, Advance Technique & Instrumentation of MRI, Interventional Techniques, Nuclear medicine Imaging, PET & PET CT, Q & A, Radiation protection: 100 Hrs.

EXAMINATION								
Subjects	Theory	Internal Assessment Theory	Total Theory	Practical and viva	Internal Assessment Practical	Practical Total	Grand Total	Minimum pass marks
Physics applied to radiography and Imaging Techniques (MRI/ NM)	140	60	200	70	30	100	300	(50%-50% separately in theory and practical)
Radiography including Dark room Technique, non-Contrast and specialised procedures and apparatus for Radiography equipment, Hospital administration, patient care. Advance Technique (MRI) Interventional Nuclear Medicine Techniques	140	60	200	70	30	100	300	(50%-50% separately in theory and practical)
Total	280	120	400	140	60	200	600	

C. Internal assessment will be held once in a year for both Theory and Practical examination of 100 marks each year for Theory and Practical for each examination of Physics and Radiography. The candidate should be declared passed in internal assessment with minimum 50% marks separately in theory and practicals. Out

of total marks obtained only marks obtained out of 100 marks of internal assessment each year shall be added for theory and practical separately in Physics & Radiography.

B. No student shall be permitted to join the 2nd year course until he/she has passed in Ist year examination, however the candidate shall be provisionally allowed to join the next higher class but shall not be permitted to appear in next University examination unless he/she has passed in all the subjects of previous year examination.

Chapter- 4

Attendance

10. The students are expected to attend all the classes and should not have less than 75 % attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter- 5

Examination

11. The examination in each semester shall be conducted in two parts:

E. Internal assessment will be of 60 (for practical subjects 30) marks as under:-

- e. Midterm written test including in-between snap tests if any, after three months carrying 50 (for practical 20) marks.
- f. A maximum of **10 marks** in each subject shall be awarded for attending classes (theory / practical) as per the following norms:

85% or more attendance	-	10 Marks
80% or more but less than 85% attendance	-	9 Marks
75% or more but less than 80% attendance	-	8 Marks
70% or more but less than 75% attendance	-	7 Marks
65% or more but less than 70% attendance	-	5 Marks
60% or more but less than 65% attendance	-	3 Marks
51% or more but less than 60% attendance	-	2 Marks
50% attendance	-	1 Mark
Less than 50% attendance	-	0 Mark

F. University Examination carrying 140 (for practical subjects 70) marks.

11. The entire course has to be completed within a maximum of four (04) yrs. from the date of original admission in the course.

Chapter- 6

Paper setting, Evaluation & Results

10. The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7

Power to Modify

11. In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the Ordinance. Subject to subsequent ratification by the Executive Council.

ORDINANCE NO. - V (63A)

**BACHELOR OF NATUROPATHY
AND YOGIC SCIENCES
(BNYS) COURSE**

Ordinance No. - V (63A)

ORDINANCE RELATING TO BACHELOR OF NATUROPATHY AND YOGIC SCIENCES (BNYS) COURSE

Chapter - 1

General

1. This ordinance may be called the “Ordinance Relating to BACHELOR OF NATUROPATHY AND YOGIC SCIENCES (BNYS) Course.
2. (i) It shall come into force with immediate effect.
(ii) This supersedes the previous Ordinance relating to Bachelor of Naturopathy and Yogic Sciences (BNYS) Course [V-(63A)].

Chapter - 2

Eligibility for Admission

3. The eligibility for entrance to BNYS course is that a candidate must have passed the Plus Two or 12th examination or equivalent with Science subjects obtaining at least 45% aggregate marks in Physics, Chemistry and Biology (relaxation of 5% marks for SC/ST candidates).

Chapter - 3

Teaching Course

4. The course shall be of five and half year’s duration including one year Internship.
5. The academic schedule commences from September of each year shall be as follows –

Session - 1st, 2nd & 3rd Year -01 July to 31 May

Exam - 01 June – 15 June (12 Months)

Session - (4th Year) -01 July to 30 November of the next year.

Exam - 01 Dec – 15 Dec

(18 Months)

Internship - 01 Feb – January 31 (12 Months)

6. The study & evaluation scheme of the course shall be as under:

FIRST YEAR B.N.Y.S. – ONE YEAR

S.No.	Subject	Theory	Internal Assessment	Total	Practical	Internal Assessment	Total
1	ANATOMY – I	70	30	200	60	40	100
	ANATOMY – II	70	30				
2	PHYSIOLOGY – I	70	30	200	60	40	100
	PHYSIOLOGY – II	70	30				
3	BIOCHEMISTRY	70	30	100	60	40	100
4	PHILOSOPHY OF NATURE CURE - I	70	30	200	60	40	100

	PHILOSOPHY OF NATURE CURE - II	70	30				
5	YOGA PRACTICES	50	15	65	20	15	35

SECOND YEAR B.N.Y.S. – ONE YEAR

S.No.	Subject	Theory	Internal Assessment	Total	Practical	Internal Assessment	Total
1	PATHOLOGY	70	30	100	60	40	100
2	MICROBIOLOGY	70	30	100	60	40	100
3	COMMUNITY MEDICINE	70	30	100	60	40	100
4	YOGA PHILOSOPHY	70	30	100	60	40	100
5	MAGENTOTHERAPY & CHROMOTHERAPY	70	30	100	60	40	100

THIRD YEAR B.N.Y.S. – ONE YEAR

S.No.	Subject	Theory	Internal Assessment	Total	Practical	Internal Assessment	Total
1	MANIPULATIVE THERAPIES	70	30	100	60	40	100
2	ACUPUNCTURE	70	30	100	60	40	100
3	YOGA APPLICATIONS	70	30	100	60	40	100
4	FASTING THERAPY	70	30	100	60	40	100
5	NATUROPATHY DIAGNOSIS	70	30	100	60	40	100
6	MODERN DIAGNOSIS & FIRST AID	70	30	100	60	40	100

FOURTH YEAR B.N.Y.S. – ONE AND HALF YEARS

S.No.	Subject	Theory	Internal Assessment	Total	Practical	Internal Assessment	Total
1	NUTRITION, DIETETICS & HERBS	70	30	100	60	40	100
2	OBSTETRICS & GYNAECOLOGY	70	30	100	60	40	100
3	YOGA THERAPY	70	30	100	60	40	100
4	HYDROTHERAPY - I	70	30	200	60	40	100
	HYDROTHERAPY- II	70	30				
5	PHYSIOTHERAPY	70	30	100	60	40	100
6	HOLISTIC PRACTICE OF NATUROPATHY & YOGA	70	30	100	60	40	100
7	HOSPITAL MANAGEMENT & RESEARCH METHODOLOGY	70	30	100	60	40	100
8	PSYCHOLOGY & BASIC PSYCHIATRY	50	20	70	20	10	30

INTERNSHIP:

Internship duration: 12 months.

Internship is a phase of training wherein a graduate student is expected to conduct actual practice of Naturopathic Modalities and acquire skills under the supervision of a competent faculty member so that he/she may become capable of working independently.

Specific Objectives of Internship: At the end of the internship the student should be able to:

- (i) Diagnose a disease and prescribe the right treatment.
- (ii) Outline the planning requirements of such a service
- (iii) Explain its organization and management.
- (iv) Identify various management issues.

Chapter - 4 **Attendance**

7. The students are expected to attend all the classes and should not have less than 75 % attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter - 5 **Examination**

8. The examination in each semester shall be conducted in two parts:

A. Internal assessment will be of 30 marks as under:-

- a. Internal Assessment written test including in-between snap tests if any, after six months carrying 25 marks.
- b. A maximum of 5 marks shall be awarded for attending classes (including practicals) regularly as per the following norms:

95% or more attendance	-	5 Marks
90% or more but less than 95% attendance	-	4 Marks
85% or more but less than 90% attendance	-	3 Marks
80% or more but less than 85% attendance	-	2 Marks
75% or more but less than 80% attendance	-	1 Mark

B. University Examination carrying 70 marks.

9. Assessment of Internship

The Intern shall maintain the record of work, which is to be verified and certified by the Doctor under whom he/she works. A part from the scrutiny of the record of work, an assessment and evaluation shall be done through taken by an objective approach using situation judgment and tests in knowledge, skills and attitude at the end of training. Based on the record of work and the result of the assessment and evaluation,

the HOD shall issue a certificate of “Satisfactory completion” of training. **Satisfactory completion shall be determined on the basis of the following –**

- I. Proficiency of knowledge required for Naturopathic Modalities.
- II. Competency in skills expected to manage Naturopathy hospital.
- III. Competency for performance.
- IV. Familiarity with procedures.
- V. Inclination to undertake responsibility, Punctuality, involvement in Naturopathic Services, and in procedures, follow up of reports.
- VI. Capacity to work as a team (behavior with colleagues including the Nursing assistants/staff and other medical and paramedical staff).
- VII. Participation in discussions and aptitude for research.

10. The entire course has to be completed within a maximum of seven (07) years from the date of original admission in the course.

Chapter - 6

Paper setting, Evaluation & Results

- 11.** The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7

Power to Modify

- 12.** In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the Ordinance. Subject to subsequent ratification by the Executive Council.

ORDINANCE NO.- V (66A)
NATUROPATHY THERAPIST
TRAINING COURSE (N.T.T.C.)
DIPLOMA CHAPTER – 1

Ordinance No.- V (66A)

Ordinances Relating to Naturopathy Therapist Training Course (N.T.T.C.) Diploma

Chapter – 1

General

1. This ordinance may be called the Ordinance Relating to “Naturopathy Therapist Training Course (N.T.T.C.) Diploma”.
2. It shall come into force with immediate effect.

Chapter – 2

Eligibility for Admission

3. (i) For admission to N.T.T.C. Diploma, an applicant should have passed the 10th Class Examination or an equivalent examination from recognized Board / University.

Chapter – 3

Teaching Course

4. The course will be of 1 year duration.
5. The academic calendar shall be as follows:

Sl. No	Program	Date
1.	Commencement of Classes	1st August
2.	Annual Exams	1 st June to 15 th June

6. The course structure shall be as given below:

1. Philosophy of Nature Cure & basic Etiquettes of a Therapist	100
2. Massage Therapy Techniques	100
3. Hydrotherapy & Mud Therapy Techniques	100
4. Fasting Therapy, Diet and Nutrition	100
5. Magneto therapy & Chromo therapy Techniques	100
6. Acupuncture Assistance & Acupressure Techniques	100
7. Practical with Viva Voce	100

Chapter – 4

Attendance

7. The students are expected to attend all the classes and should not have less than 75% attendance in theory as well as in practical classes, wherever held, to become eligible to appear for the university examination. Short fall in attendance can, however be condoned in deserving cases to the extent of 10% by the Principal. If the short fall is more than 10% but not more than 15%, the Principal may recommend deserving cases to the Vice Chancellor for condonation. The order of the Vice Chancellor in this regard shall be final.

Chapter – 5 **Examination**

8. The examination in each semester shall be conducted in two parts:
- A. Internal assessment will be of 30 marks as under:
- a. Midterm written test including in-between snap tests if any, after three months carrying 20 marks.
 - b. A maximum of **10 marks** in each subject shall be awarded for attending classes (theory / practical) as per the following norms:

85% or more attendance	-	10 Marks
80% or more but less than 85% attendance	-	9 Marks
75% or more but less than 80% attendance	-	8 Marks
70% or more but less than 75% attendance	-	7 Marks
65% or more but less than 70% attendance	-	5 Marks
60% or more but less than 65% attendance	-	3 Marks
51% or more but less than 60% attendance	-	2 Marks
50% attendance	-	1 Mark
Less than 50% attendance	-	0 Mark
- B. University Examination carrying 70 marks
9. The entire course has to be completed within a maximum of three years from the date of original admission in the course.

Chapter - 6 **Paper setting, Evaluation & Results**

10. The work of setting the End semester examination papers, conduct of the End semester and Annual examinations, Evaluation and declaration of results shall be as per the laid down Examination policies / latest University Notifications.

Chapter – 7 **Power to Modify**

11. In the event of any emergent situation, if any deviation is considered necessary, the Vice Chancellor is authorised to modify the Ordinance. Subject to subsequent ratification by the Executive Council.