

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY, CHENNAI – 32.

REGULATIONS - M.Sc. CRITICAL CARE TECHNOLOGY

(Post-Graduate Degree Courses under Allied Health Sciences)

In exercise of the powers conferred by Section 44 of the Tamil Nadu Dr. M.G.R. Medical University, Chennai Act 1987 (Tamil Nadu Act 37 of 1987) the Standing Academic Board of the Tamil Nadu Dr. M.G.R. Medical university, Chennai hereby makes the following regulations:-

SHORT TITLE AND COMMENCEMENT

These regulations shall be called as “POST GRADUATE COURSE IN M.Sc. CRITICAL CARE TECHNOLOGY UNDER ALLIED HEALTH SCIENCES” of the Tamil Nadu Dr. M.G.R. Medical University, Chennai

They shall come into force from the academic year 2023-2024.

The regulations framed are subjected to modification from time to time by the Standing Academic Board.

OVER ALL OBJECTIVES

The M.Sc. Degree course in Critical Care Technology under Allied Health Sciences is prepared to assist Doctors for providing High Quality Patient Care in Advanced Critical Care setting in the Hospital and Community.

SCOPE OF M.Sc CRITICAL CARE TECHNOLOGY

There is unprecedented demand for Critical Care services globally. Advances in technology and medicine mean that increasing numbers of severely ill patients are surviving with a corresponding need for intensive medical and surgical care.

Critically ill patients are defined as those patients who are at high risk for actual or potential life-threatening health problems. The critically ill the patient is, the more likely he or she is to be highly vulnerable, unstable and complex, thereby requiring intense and vigilant health care.

Critical care Technology is a sub-specialty in allied health course that deals specifically with human responses to life- threatening problems

M.Sc Critical Care Technology course will provide adequate knowledge and skills and prepare the students to work in a variety of critical care settings

M.Sc Critical Care Technology program qualifies him or her to independently perform comprehensive health assessment, order and interpret full spectrum of diagnostic tests and procedures, under the supervision of a critical care specialist, perform special procedures related to the care of the critically ill as instructed and supervised by the intensive care specialist and evaluate the outcomes of intervention.

M.Sc Critical Care Technology is characterized by the application of relevant theories, research, and evidence-based guidelines to explain human behavior and related phenomena.

The purpose of post graduation in Critical Care Technology is to meet the specialized physiologic as well as psychological needs of patient with acute, critical or complex health condition in various critical care setting.

PHILOSOPHY

- M.Sc Critical Care Technology prepares a critical care technician to meet the complex needs of critically ill patients and developing the knowledge base along with specialist skills in both the technological and the caring dimensions.
- M.Sc Critical Care Technology emphasizes application of relevant theories into practice, education, administration and development of research skills.
- M.Sc Critical Care Technology prepares Critical Care Technician in health fields as advanced critical care technologists to assist critical care specialists and consultants in education, administration and research in a wide variety of critical care settings.
- M.Sc Critical Care Technology empowers their sound and rapid clinical judgements in wide variety of critical care settings and to recognize and deal with the ethical issues inherent in such an environment.

AIM

The aim of the M.Sc Critical Care Technology is to prepare postgraduates to assume major responsibilities in the critical care setting to assist the critical care specialists and consultants in patient care, education and administration in the critical care setting.

OBJECTIVES

On Completion of the two years M.Sc Critical Care Technology programme, the graduate will be able to:-

- Demonstrate advance competence in critical care setting
- Practice as an Advanced Critical Care Technologist.
- Apply theories into practice, education, administration and development of research skills.
- Demonstrate skill in conducting research in critical care, interpreting and utilizing the findings from health-related research.
- Establish collaborative relationship with members of other disciplines
- Demonstrate interest in continued learning for personal and professional advancement

GUIDELINES AND MINIMUM REQUIREMENTS TO START M.Sc CRITICAL CARE TECHNOLOGY

The institution should be recognized for B.Sc. Critical Care Technology programme and one batch should have passed out to start M.Sc. Critical Care Technology programme. The Tamil Nadu Dr. M.G.R Medical University on receipt of the proposal from the Institution to start M.Sc. Critical Care Technology will undertake the first inspection to assess suitability with regard to physical infrastructure, clinical facility and teaching faculty in order to give permission to start the programme.

Institution will admit from the students only after taking approval from The Tamil Nadu Dr. M.G.R Medical University.

The Institutions are permitted to take maximum of 10 students of M.Sc. Critical Care Technology programme (Course Director: Student 1:5).

ELIGIBILITY FOR ADMISSION

The Minimum qualification for admission into M.Sc. Critical Care Technology will be B.Sc. Critical Care Technology/ B.Sc. Accident and Emergency Care Technology/B.Sc. Cardiac Technology/B.Sc. Cardio Pulmonary Perfusion Care Technology / B.Sc. Dialysis Technology / B.Sc. Operation Theatre and Anaesthesia Technology/B. Sc Physician Assistant/B.Sc. Nursing / Post-Basic B.Sc. Nursing with the minimum of 50% aggregate mark.

ELIGIBILITY CERTIFICATE:

Candidates who have passed any qualifying examination as stated in above other than the Tamil Nadu Dr. M.G.R. Medical University shall obtain an “Eligibility Certificate” from this University by remitting the prescribed fees along with the application form and required documents before seeking admission to any one of the affiliated institutions. The application form is available in the University website: web.tnmgrmu.ac.in.

AGE LIMIT FOR ADMISSION

A candidate should have completed the age of 22 years at the time of admission to the M.Sc. Critical Care Technology.

REGISTRATION

A candidate admitted to M.Sc. Critical Care Technology course under Allied Health Sciences in any one of the affiliated institutions of this University shall register his/her name with this University by submitting the prescribed application form for registration duly filled, along with the prescribed fee and a declaration in the format to the Academic Officer of this University through the affiliated Institution within 30 days from the cut-off date prescribed for the course for admission. The application should have the date of admission of the course.

COMMENCEMENT OF THE COURSE:

The course shall commence from 1st September of the Academic Year.

MEDIUM OF INSTRUCTION

English shall be the Medium of Instruction for all the Subjects of study and for examinations of the M.Sc. Critical Care Technology Course under Allied Health Sciences.

CURRICULUM

The curriculum and the syllabus for the course shall be prescribed in these regulations and are subject to modifications by the Standing Academic Board from time to time.

DURATION OF THE COURSE

The duration of certified study for the M.Sc. Critical Care Technology under Allied Health Sciences course shall extend over a period of two academic years.

The candidate should complete this course in 4 years (double the duration) from the date of joining the course.

WORKING DAYS IN THE ACADEMIC YEAR

Each Academic year shall consist of not less than 270 Working Days.

ATTENDANCE REQUIRED FOR ADMISSIONS TO APPEAR FOR EXAMINATION

- No candidate shall be permitted to appear in any one of the parts of M.Sc. Critical Care Technology course under Allied Health Sciences Examinations unless he/she has attended the course in the subject for the prescribed period in an affiliated institution recognized by this University and produce the necessary certificate of Study, attendance and satisfactory conduct from the Head of the Institution.

- A Candidate is required to put in a minimum of *80% of attendance out of 270 working days in both theory and practical separately in each subject before admission to the examination except for 1 year candidates where attendance will be counted from the date of joining. The academic year should consist of not less than 270 working days

*** Resolved 61st SAB meeting held on 21.4.2022.**

CONDONATION OF LACK OF ATTENDANCE

There shall be no condonation of lack of attendance.

MIGRATION/TRANSFER OF CANDIDATE:

a) A student studying in "M.Sc. CRITICAL CARE TECHNOLOGY" can be allowed to migrate / transfer to another institution of Allied Health Science under the same University.

b) Migration / Transfer can be allowed to another affiliated institutions under extraordinary circumstances. The Vice Chancellor has the power to issue Migration / Transfer order.

RE-ADMISSION AFTER BREAK OF STUDY

The regulations for re-admission are as per the University Common Regulation and Re-admission after Break of Study for all courses.

VACATION

There is no vacation

CUT-OFF DATES FOR ADMISSION TO EXAMINATION

- 31st October of the Academic Year concerned
- The candidates admitted up to 30th September of the Academic Year shall be registered to take up

1st year examination during October of the next year.

- All kinds of admission shall be completed on or before 30th September of the Academic year.
- There shall not be any admission after 30th September even if seats are vacant

REVALUATION/RETOTALING OF ANSWER PAPERS

Revaluation/Re-totaling of answer papers is not permitted

INTERNAL ASSESSMENT MARK

The Internal Assessment should consist of the following points for evaluation

- Theory
- Practical/Clinical
- Viva

Note

- A minimum of two written examinations shall be conducted in each subject during a year and the average marks of the three performances shall be taken into consideration for the award of Internal Assessment marks
- A minimum of one practical examination shall be conducted in each subject (wherever practical has been included in the curriculum) and grades of ongoing clinical evaluation to be considered for the award of Internal Assessment Marks.

Classification of results

- 50% pass in each of the theory and practical separately.
- If the candidate fails in either practical's or theory paper he/she has to reappear for both the papers (theory and practical)
 - The candidate should complete this course in 4 years (double the duration) from the date of joining the course.
 - Candidate, who fails in any subject, shall be permitted to continue the studies into the second year. However the candidate shall not be allowed to appear for the final year examination till such time that he/she passes all subjects of the first year M.Sc critical care technology examination.

Scheme of Examination

- Minimum pass marks shall be 50 % in each of the Theory and practical papers separately.
- A candidate must have minimum of 80% attendance (irrespective of the kind of absence) in theory and practical in each subject for appearing for examination.
 - A candidate has to pass in theory and practical exam separately in each of the paper.
 - If a candidate fails in either theory or practical paper he/she has to re-appear for both the papers (Theory and practical).
 - All practical examinations must be held in the respective clinical areas.
 - One internal and One external examiners should jointly conduct practical examination for each student

- One internal and One external examiners should evaluate Dissertation and jointly conduct viva-voce for each student.
- For Dissertation Internal examiner should be the guide and External examiner should be the Faculty of Critical care.
- The topic of the Dissertation should be submitted at the end of the first year of the course. The candidate should also inform the name of the guide for the Dissertation to the University while submitting the topic. If there are changes in the topic, the same has to be informed six months prior to the final year examination. The Dissertation should be submitted duly signed by the HOD and the same has to be forwarded to the Controller of Examination through the Head of the Institution two months prior to the Examination.
- If the Dissertation is not approved (Failed), the results shall be withheld till the resubmitted Dissertation is approved (Passed).
- If the candidate fails in the Written / Practical Examination, but his / her Dissertation is approved (Passed), the approval of the Dissertation shall be carried over to the subsequent examination.

CARRY OVER OF FAILED SUBJECTS

- A candidate has to pass in theory and practical examinations separately in each of the paper.
- If a candidate fails in either theory or practical examination, he /she has to reappear for both (theory and practical)
- The candidate has to successfully complete the course in double the duration of the course (i.e. 4 years from date of joining)

NUMBER OF EXAMINERS

One Internal and External examiner should jointly conduct practical/oral examination for each student

SCHEME OF EXAMINATION

FIRST YEAR

Paper	Subject	Internal Assessment		Theory		Practical		Viva	
		Max	Min	Max	Min	Max	Min	Max	Min
I	Principles of Epidemiology, Research Methodology, Biostatistics and Medical Ethics	50	25	100	50	-	-	-	-
II	Applied Physiology and Pharmacology related to critical Care	50	25	100	50	100	50	50	25
III	Principles Of Critical Care And Monitoring	50	25	100	50	100	50	50	25
IV	ICU Administration	50	25	100	50	-	-	-	-

SECOND YEAR

Paper	Subject	Internal Assessment		Theory		Practical		Viva	
		Max	Min	Max	Min	Max	Min	Max	Min
I	Advanced Critical Care Technology	50	25	100	50	100	50	50	25
II	ICU Therapy	50	25	100	50	-	-	-	-

Paper III –Project	Max	Min
Project	100	50
Viva / Practical	100	50
I. A	50	25
Total	250	125
