

Curriculum of Master of Science (MSc.) in Surgery

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I. INTRODUCTION

This curriculum has been formulated to assist in promoting the candidate, who has Diploma in Surgery and has been working in the surgical department for more than three years and in uplifting his or her knowledge and understanding and skills in general surgery and surgical subspecialties. He/she will master research methodology and be involved in scientific investigation, paper presentation and publication.

The program has also been designed to remove the current obstacle for those candidates to be an independent and qualified surgeon after completion of the course.

II. OVERALL OBJECTIVES

To familiarize with the modern advances in surgery and relevant medical fields.

To master basic and specialized surgical techniques.
To create an independent and qualified surgeon capable of assuming responsibility for surgical care upon completion of the course.

Specific Objectives

To master the basic surgical principles and knowledge of relevant clinical sciences and be able to diagnose and manage emergency and critical surgical issues.
To perform and master all surgical interventions
To function as a leader of the team in providing tertiary level expertise in general and minimal invasive surgery.
To guide subordinates in performing emergencies surgical operations and routine surgical procedures.
To conceptualize, initiate and lead relevant research in the field of general surgery and minimal invasive surgery.

III. DURATION OF COURSE

The total duration of the course will be two years.

Total Training Period: 24 months

General Surgery 24 months

Paper Presentation and Publication

Research & Thesis Preparation

IV. ACADEMIC ACTIVITIES

The MSc students will be given appropriate lectures throughout their course. Instructors or guides will direct them through the clinical practices. They are expected to participate and organize departmental and unit academic activities which includes daily emergency admission and management, difficult case discussions, journal clubs, grand rounds, mortality and morbidity conferences.

Details of Academic Activities:

Emergency admission case discussion	Once a day
Daily ward rounds	Twice a day
Presentation of designated topics	Once a week
Journal club	Once a week
Bedside clinical teachings	Once a week

Mortality and morbidity conference	Once a month
Clinicopathological meetings	Once a month
Clinicoradiological meetings	Once a month

Academic Regulations

The MSc Candidate should:

- Come on prescribed time and sign on attendance register
- Be familiar with the duty schedule, roles and responsibilities.
- Obey the rules and regulations of the institution
- Perform on- call duties at least twice a week.

V. COURSE CONTENT

1. Will follow general guidelines laid down for the Master of Surgery (MS) curriculum by Institute of Medicine except the requirement of basic science course. Hence, in the first year, the MSc student will follow the second year MS curriculum and third year curriculum in the second year.
2. The candidate will need to conduct and participate in at least ten presentations during the course of study.
3. He/she will need to actively participate in the teaching-learning activities of the undergraduate students.
4. He/she will conduct research in an area of interest under the guidance of faculty members. He/she will require to submit the thesis protocol within three months of the entry into the program and also submit the research thesis before months before the final examination.
5. The MSc student will require to prepare and submit at least two scientific articles for publication in reputed medical journals or presentation in national or international surgical conferences.

VI. QUALIFICATION CRITERIA (ELIGIBILITY)

Candidate must have passed Bachelor of Surgery, Bachelor of Medicine (MBBS) and obtained Diploma in Surgery or its equivalent from a recognized medical school from Nepal or abroad and should have completed at least three years in general surgery.

VII. EVALUATION

A. Internal Assessment

Internal assessment of the candidate will be done on the basis of daily activities, participation and performances.

B. Final Examination

Part I	Full Mark	Pass Mark
Paper I (Principles of Surgery & Operative Surgery)	100	50
Paper II (Recent Advances and Minimal Invasive Surgery)	100	50
Clinical Long & Short Cases	100	50
Oral (viva voce)	100	50
Part II		
Thesis		
Writing	100	50
Defense	100	50

Final evaluation will be conducted by internal and external examiners.