



# Institute of Engineering (IOE) Tribhuvan University

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Guideline for Regular Internal/Final Exam Evaluation  
(Course-Based / Non-Thesis Track)

## **M.Sc. in Computer Engineering with Specialization in Network and Cyber Security (MSNCS)**

### **1. Background and Rationale**

To enhance academic flexibility, industry relevance, and timely completion, the M.Sc. in Network and Cyber Security program under the Institute of Engineering (IOE), Tribhuvan University, has introduced a Course-Based (Non-Thesis) completion option. Under this approach, students are evaluated through advanced coursework and comprehensive assessments instead of traditional research thesis. This guideline defines for regular courses, the examination structure, evaluation mechanisms, roles, and quality assurance measures to ensure academic rigor and equivalence with the thesis track of MSNCS program.

### **2. Structure of Final Evaluation**

The final evaluation for the non-thesis track shall consist of the following components:

#### 2.1 Advanced Regular Courses

- Completion of additional advanced/elective courses equivalent to thesis credit
- Courses shall be application-oriented and design-intensive

Approved regular courses are:

- Cyber Threat Intelligence
- Vulnerability Assessment and Penetration Testing

The examination conduction (final evaluation) approach of only approved above regular courses is effective with this defined guideline.

### 2.1 Practical/Project Oriented Courses

Approved task-based/project courses are:

- Seminar
- Industrial Project (Case Study)

The regular evaluation of this task-based/project courses are separately defined per course.

## 3. Course Evaluation Scheme

Each regular course shall be evaluated as follows:

Continuous Assessment (CA): 60%

Final Departmental Examination: 40%

### 3.1 Continuous Assessment (CA)

- (a) Continuous assessment is instructor dependent.
- (b) Out of 60% marks for CA, 40% marks shall be evaluated using the activities that include assessment exams, lab/class performance/attendance, case studies, mini-projects, tool demonstrations, or term papers. At least one component must involve two physical assessments of at least one hour and the instructor may consider best of two assessments. Remaining 20% marks for CA shall be covered by professional lab-based test that instructor conducts.

### 3.2 Final Departmental Examination and Evaluation

- (a) This exam covers 40% of the course credit marks. The exam duration is 2 hours and physical. Online exam conduction is not allowed.
- (b) Departmental examination committee (DEC) comprising program coordinator, relevant course instructor and a staff is responsible to manage and conduct the exam.
- (c) MSNCS Coordinator requests/nominate course instructor to prepare exam question of relevant regular courses according to IOE standards.

- (d) MSNCS coordinator secretly send the question set obtained from course instructor including examinee details to IOE examination control division to prepare the question in the IOE standard rules and format. IOE ECD prepare the question set and send the question set with necessary answer/attendance sheets to MSNCS coordinator.
- (e) The DEC conduct 2 hours exam following IOE examination conduction rules at the suitable date/time.
- (f) The DEC handover the answer sheet packet to course instructor immediately after the completion of examination, the course instructor has to return the answer sheet packet with evaluation within 20 days of assignment that will be sent to ECD, IOE for necessary further processing.
- (g) The delayed submission of the answer sheets by the instructor shall be applied by 0.02 credit deduction per day for part time faculties and 0.2 load deduction per day for fulltime faculties over the total credits/load of the course defined. Campus should keep records of the above constraints and then do payment only after the internal and final marks are sent to ECD as per the given deadline.
- (h) The remuneration to question setting experts, moderators and 2hrs exam conduction with task of invigilation as well as other management shall be as set by ECD, IOE.
- (i) The DEC recommend ECD for payment release of all those exam conduction activities as per the rules of ECD/IOE.

#### **4. Exam Registration**

- 4.1 Every student to appear in the final departmental examination should register/apply as an examinee in the IOE ECD's regular call of examination form application.
- 4.2 Only successfully registered/applied student with admit card or other proof of document legalized by IOE-ECD can appear in the final departmental examination.

#### **5. Effective Date and Review**

This guideline shall be effective from the date of approval by the IOE faculty board and shall be reviewed periodically as required.