

Central Department of Mathematics  
Institute of Science and Technology  
Tribhuvan University, Kathmandu, Nepal

**Regulations of MPhil Mathematics Thesis  
2073**

## **1 Introduction**

The MPhil program in mathematics at Central Department of Mathematics (CDM), Institute of Science and Technology, Tribhuvan University offers thesis in its third semester as a compulsory course for the partial fulfilments of the requirements for the Degree of Master of Philosophy. The thesis must show evidence of a critical presentation of stated open problem through the exercise of independence and critical power or new interpretation of facts, theories and applications. An original contribution or at least a comprehensiveness survey should be carried out. Moreover, this research work should provide at least a basis for further research like a Ph.D.

The MPhil thesis of CDM will be regulated by the Department Research Committee (DRC). The overall process of the thesis registration and evaluation will be forwarded by the department. The thesis will be conducted according to the following rules and regulations.

## **2 Entry Requirement**

A regular second year 3rd semester student of MPhil in Mathematics is eligible to write the thesis provided that the student shall pass all the subjects of the first semester examinations. However, the entry is provisional for processing the thesis. For the submission, the candidate must pass all subjects of the second semester also (see Section 7).

## **3 Supervisors' Qualification**

1. The thesis supervisor must be a Ph.D. holder in mathematics who is either a faculty associated to the CDM or teaching in the MPhil or has been guiding research student in mathematics.
2. A PhD holder in the related field recommended by the supervisor can be a co-supervisor.
3. The supervisors and co-supervisors must have published at least two papers including one in the science indexed journal.
4. The supervisor can recommend and include one co-supervisor from the related subject for guiding a student of interdisciplinary research work.
5. At a time, the number of students for a supervisor is at most three.

## **4 Candidate Selection and Approval**

1. A candidate for writing MPhil thesis in mathematics should apply to CDM on approved format available from the department with consent of the proposed supervisor in the area of interest.

2. The application process starts during the second semester
3. For the selection, the DRC will organize either a written test or an interview or both. The approval will be based on the performance.
4. The final approval of the candidates and the supervisors will be made by the CDM on the recommendation of DRC within a month of the application.

## **5 Supervision of the Thesis**

1. The duty of the supervisor shall be to guide and monitor the student regularly.
2. The candidate shall undertake the thesis work under the guidance of the supervisor.
3. DRC will recommend for the change of supervisor under the genuine cases (e.g., supervisor left the university or disagree to supervise the candidate).
4. Each candidate has to present the progress work at least once in a seminar in presence of the faculties and others. This seminar will be organized by the respective supervisor.
5. The title proposed on this seminar will be provisional. It will be finalized at the time of submission.

## **6 Time bounds for the Submission**

1. The thesis should be submitted only after the completion of six months of the approval. However, in exceptional cases, the candidate can submit the thesis after three months of the approval.
2. The candidate should submit the thesis within one year of the approval. However, in exceptional cases, if the candidate is unable to submit the thesis within one year and makes a request, an extension can be recommended by DRC with the recommendation of the supervisor for a maximum period of next six months.
3. If the candidate is unable to complete the thesis submission within the extended time, the DRC can further extend for the next six months depending on the work in progress or cancel the registration.
4. After cancellation, he/she may proceed for another registration as per the rules of the CDM and the DRC.

## **7 Submission of Thesis**

1. The submission process is eligible only if all subjects of the second semester examination have been passed by the candidate.
2. A predefend seminar will be organized by DRC for the approval of the submission. A candidate will be eligible for the predefend if he/she submits an acceptance letter with accepted article or a published article of his/her research in a peer reviewed journal. The minimum quality of the journals will be decided by the DRC.
3. On the completion of the thesis work the candidate shall submit two copies of computer- printed thesis and its 1-page summary in a given format.

4. The thesis can be submitted only with a signed declarations of the supervisor and the candidate in a given format.
5. The thesis submitted should satisfy the academic/ scientific requirements mentioned in the introduction of the regulation. It must also be satisfactory in terms of English language and presentation.

## **8 Evaluation of Thesis**

1. The supervisor will be asked to recommend the names of three external examiners on the concerned subject for the thesis examination. The list will be forwarded to the Deans office examination section for the approval of one.
2. The external examiner will write one page written report with the summary of the work and deceleration whether the candidate shall be invited for the viva-voce examination or not. If the external examiner does not approve for the viva-voce examination, DRC will decide for re-work or re-evaluation or rejection of the thesis.
3. The viva-voce examination will be conducted only after at least 30 working days of the thesis submission. However, the thesis must be defended within 60 working days of the submission.
4. The candidate shall have to defend with an open oral examination organized by CDM where the DRC, supervisor and external examiner will be present.
5. For viva voce unsuccessful candidates rejected by DRC, another three month time will be given to the candidate to resubmit the thesis. If he/she is unsuccessful in the second chance, the thesis will be rejected and declared that the candidate is failed in the viva-voce examination.
6. For viva voce successful candidates approved by DRC, the department shall forward the result to the Dean's office. The candidate should submit the five copies of the computer-printed thesis and one electronic copy to CDM.

## **9 Ethical Issues**

The MPhil thesis student should maintain all ethical rules that apply to the researchers. He/she should follow all the rules and regulations of TU-IOST and CDM subject to the changes over the period of time.