



Office of the Principal Investigator (PI)

Improving Computer and Software Engineering Tertiary Education Project (ICSETEP)

Research and Development Grant (RDG), PIN: A-75

Department of Computer Science and Engineering (CSE)

Hajee Mohammad Danesh Science and Technology University, Dinajpur 5200, Bangladesh



Memo No: HSTU/ICSETEP/RDG/A-75/2026/06

Date: 03/03/2026

Circular for Graduate Scholarships under the ICSETEP, RDG Sub-Project (PIN: A-75)

1. Graduate Scholarships Available

Graduate scholarships are available under the following ICSETEP, RDG Sub-Project (PIN: A-75) of Hajee Mohammad Danesh Science and Technology University.

“AI-Enabled Multi-Modal Fusion of Honey Features for Authenticity and Quality Assessment: From Laboratory Analysis to Industry Applications”

This project is funded by the Government of Bangladesh (GoB) and the Asian Development Bank through the University Grants Commission (UGC) of Bangladesh. The project will recruit four (04) M.Sc. students.

2. Research Areas

In order to achieve the project goals, the core research areas include artificial intelligence and machine learning, multi-modal data fusion, hyperspectral and multispectral image analysis, chemical feature extraction (HPLC, FTIR, UV analysis), pattern recognition, data-driven quality assessment models, and development of web-based Decision Support Systems (DSS).

The project aims:

- To develop AI-based models for honey authenticity detection using chemical and imaging features.
- To integrate laboratory analysis results with image-based features through multi-modal fusion techniques.
- To design and implement a web-based Decision Support System for industry applications.
- To validate the developed system with real honey samples collected from different regions.

3. Details of Positions – M.Sc. Positions (Total: 6)

3.1 M.Sc. in Computer Science and Engineering (Total: 4)

Eligibility: B.Sc. in Computer Science and Engineering or related discipline from any reputed university, with a minimum CGPA of 3.5 (out of 4.0).

3.1.1 Preferred Qualifications

- Strong knowledge in Machine Learning, Deep Learning, or Data Science.
- Experience in Python programming and libraries such as TensorFlow, PyTorch, Scikit-learn.
- Basic knowledge in image processing and pattern recognition.
- Experience in web development (e.g., Django/Flask/Node.js) will be given priority.
- Interest in AI-based product development and industry-oriented research.
- Good English communication skills (oral and written).

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3.2 M.Sc. in Chemistry (Total: 2)

Eligibility: B.Sc. (Honors) in Chemistry from any reputed university, with a minimum CGPA of 3.5 (out of 4.0).

3.2.1 Preferred Qualifications (for MS candidates)

- Experience in laboratory analysis techniques such as HPLC, FTIR, UV-Vis spectroscopy.
- Knowledge in food chemistry, analytical chemistry, or quality assessment.
- Experience in handling chemical data and interpretation of spectral results.
- Ability to work collaboratively with an interdisciplinary research team.
- Good English communication skills (oral and written).

4. Terms of Reference (TOR)

4.1 Admission Requirement

Selected candidates must be enrolled in the respective M.Sc. program of CSE or the Chemistry department of HSTU in the January-June session 2026.

4.2 Duration of Scholarship

- 18 months

4.3 Scholarship Amount:

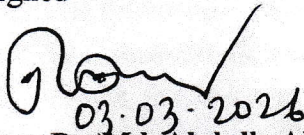
- BDT 20,000/month

4.4. Documents Required: Copies of the following documents-

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|--|---|
| ✓ Forwarding a letter with a passport-sized photograph | ✓ National Identity Card (NID)/Passport |
| ✓ Curriculum Vitae (CV) | ✓ Letter of motivation |
| ✓ Bachelor's certificate | ✓ First page of publication(s)(if any) |

5. Application Submission

Applicants must submit their applications by 31 March 2026, during office hours, to the undersigned


03.03.2026

Professor Dr. Md. Abdulla Al Mamun

Principal Investigator (PI)

ICSETEP, RDG Sub-Project (PIN A-75)

Department of Computer Science and Engineering

Hajee Mohammad Danesh Science and Technology University, Dinajpur, Bangladesh

Cell: +8801886890345

Email: mamun@hstu.ac.bd