EAST WEST UNIVERSITY
Progoti Foundation for Education and Development
Permanent Sanad Holder

EAST WEST UNIVERSITY
Established in 1996

Friday & Evening Program

A leading private university committed to 'excellence in education'
Master of Science in Data Science and Analytics : 36 Credit hours

Admissions: Summer Semester (May-August) 2023

Description of the Program

The M.S. in Data Science and Analytics is a program under the department of Mathematical & Physical Sciences. This program is designed carefully to meet the growing demad for data sceince in Bangladesh and worldwide. The program will prepare graduates for professions which involve the application of mathematical, statistical and computing techniques to the scientific fields in government and private sectors.

Career Prospects

Career prospects for the graduates in this field are excellent because of the increasingly widespread use of data and data-based monitorinig and decision making. There is also strong demand for research consultants, data and business analyst, and data scientist in academica, government and industries. The data science graduates have huge demands in research farms, telecommunication companies, social medias, online and offline stores, NGOs, banks and insurance companies, planning and IT sectors, health research organizations, human development organizations, agricultural research institutes etc.

University Resources

- The only private university offering MS in Data Science and Analytics
- East West University is the top ranked private university according to independent surveys
- EWU offers generous financial aid to students based on performance and need.
- The department has expert faculty members with Ph.D
- The library is resourceful and the computer labs are fully equipped with internet facilities.

Eligibility of Admission

- Applicants are required to have a four-year undergraduate degree in Statistics /Science/ Engineering /Medicine /Economics/Agrculture /Business & Social science with good background of Mathematics, or a three-year undergraduate degree and one-year master's degree in any of the above mentioned subjects with a minimum CGPA of 2.50 out of 4; and

- Candidates must have a minimum GPA of 3 out of 5 in both SSC and HSC examinations or passed University of London and Cambridge GCE 'O` level in at least five subjects and `A' level in at least two subjects.
  Only the best five subjects in `O' level and best 2 subjects in `A' level will be considered. OUt of these seven subjects, a candidate must have at least 4B's or GPA of 4.00 in the four subjects and 3C's or GPA of 3.5 in the remaining 3 subjects. (in the scale of A=5, B=4,C=3, D=2 and E=1)

Program Structure

This is a 36-credit and 1 year program for regular students. Students are needed to complete 24 credits as core courses and the rest of the credits from electrive courses. Core courses provide the understanding of the basis of all statistical inference and modeling for data science. The elective courses cover the broad areas of data science & analytics including sciences, engineeing, economics and business.

Tuition Fees

Students are required to pay initial admission tuition and computer lab fees. The current fees structure is:

Items	Amount inTK.
Admission Fee	15000
Tuition Fee Per Credit	4,000
Tuition Fee Per project credit	1000
Lab Fee Per Semester	1000
Library Fee Per Semester	500
Students Activities Fee Per Semester	510

Document Verification
Students will pay the Document Verification Fee (if applicable) for the verification of their previous academic documents.

Merit Scholarships/Financial Assistance:

EWU has generous merit scholarships/financial aid programs. Taka 40,92,59,218 was awarded in 2021-2022. Following are the criteria for awarding Merit Scholarships/Financial Aid.
(i) Top 10% students of each batch of the program who have completed at least 18 Credits within last two consecutive semesters with a CGPA of 3.90 and above, will get full tuition free Merit Scholarship for the equal number of credits to be adjusted in the next one or two consecutive semesters. The Merit Scholarship is discontinued if any student of the graduate program violates the East West University disciplinary code for students and/or if his/her CGPA falls below 3.50.

To be eligible for Financial Aid a student of Graduate Program must earn credits as mentioned above. CGPA requirement for Financial Aid for Graduate programs is 2.80. Financial Aid is discontinued if any student graduate program violates the East West University disciplinary code for students and/or if his/her CGPA falls below 2.60.

When two siblings (brother/sister from the same parents)/husband-wife study simultaneously at East West University, the second sibling/spouse is entitled to a half-tuition waiver. However, both must be admitted full-time into regular programs. The benefit commences on the date of admission of the second sibling/spouse and ceases on the discontinuation of the study of any one of them/after his/her graduation /exceeds the stipulated time for graduation or for any other reason. This benefit may extend up to the third sibling under the above-mentioned conditions. If either of the siblings/spouse maintains a minimum CGPA of 2.60, while the other maintains a minimum passing CGPA (2.00 for undergraduate programs and 2.50 for Graduate Programs) the sibling benefit will be awarded and continued for the one who maintains the CGPA of 2.60 or above.

In case of the newly admitted students, if the first sibling could maintain the minimum CGPA of 2.60 the sibling benefit would be awarded to the second sibling provided the first sibling is not currently receiving any merit scholarship/financial aid from the EWU. When both the siblings/husband-wife (both are newly admitted students) are admitted in the first semester at a time, sibling/spouse benefit will be awarded to the second sibling/spouse without applying the credit and CGPA requirement for them in the first semester. Credit and CGPA requirement will be applicable for them from the second semester. Freedom Fighters' Scholarship is also available under certain requirements. To avail Merit Scholarships/Financial Aid etc. students of Graduate Programs must register with minimum course load 2 courses (a total of not less than 4 credits).

All students of EWU under life insurance coverage.

Admission Form

Online admission forms are available on the EWU website www.ewubd.edu or (http://admission.ewubd.edu//). Applicants can filling the admission forms online by paying Tk. 1,200 using online payment facilities (Additional Taka 15 will be charged as online processing fee). Help desk is also available for filling up the online admission form and payment as well at EWU Admission Office, A/2 Jahurul Islam Avenue, Jahurul Islam City, Aftabnagar, Dhaka 1212. A set of sample question will be provided after the payment for admission form. The fee of the admission form for the Foreign Students is $16.00, payable in International Money Order in favor of EWU.

Admission form must be filled in properly. Signature of the applicant and his/her parent/guardian will be taken during admission (if qualified). Attested copies of Marks Certificates/Transcripts, Certificates, Testimonials of SSC & HSC or "O" & "A" levels and bachelor's degree will be taken during admission (if qualified).

Application Deadline: 06 June 2023

CONTACT: EAST WEST UNIVERSITY
Admission Office
Plot # A/2, Main Road, Jahurul Islam City
Aftabnagar, Dhaka 1212.
Phone : 09666775577 (ext. 234) , 02-55046678
Mobile: 01755587224, 01851933094
e-mail: admissions@ewubd.edu Web: www.ewubd.edu
Fax: 880-2-55046679

MS in Data Science and Analytics

A. Core Courses   **24 Credits**

Students must take the following seven courses

Credit Hours	Course Number & Title
3	DSA501: Probability & Statistics
3	DSA502: Programming for Data Science
3	DSA503: Statistical Inference
3	DSA504: Regression Analysis
3	DSA505: Multivariate Statistics
3	DSA506: Machine Learning
6	DSA599: Research Project
24	⇐ **Total**

B. Elective Courses   **12 Credits**

Students should choose any FOUR courses from the followings.

Credit Hours	Course Number & Title
3	DSA509: Econometrics
3	DSA511: Time Series Analysis & Forecasting
3	DSA513: Big Data & Cloud Computing
3	DSA515: Data Visualization
3	DSA517: Generalized Linear Models
3	DSA519: Predictive Analytics
3	DSA521: Deep Learning
3	DSA523: Bioinformatics
3	DSA525: Categorical Data Analysis
3	DSA527: Design of Experiment
3	DSA529: Environmental Data Analysis
3	DSA531: Biostatistics & Epidemiology
3	DSA533: Reliability Analysis
12	⇐ **Total**