



# JAHANGIRNAGAR UNIVERSITY

Master of Science in GIS for Environment and Development

Department of Geography and Environment

MSGED Program Fall-2024 (23<sup>rd</sup> Batch)

## ADMISSION ANNOUNCEMENT

### 1. Date to Remember

Availability of Application Form	:	<b>December 26, 2024</b>
Admission Test	:	<b>December 27, 2024 (Friday)</b>
Publication of Result	:	<b>December 29, 2024</b>
Date of Admission	:	<b>December 30, 2024 to January 09, 2025</b>
Orientation and Class Start	:	<b>10 January, 2025</b>

### 2. Program Features

- One-year (3 Semester) intensive program with 42 credit hours (Taught, practical and research)
- Field excursion, research presentation and thesis work
- Highly qualified faculties having strong teaching and research exposure
- Well-equipped GIS-RS, Cartographic & Physical Environmental laboratory facilities

### 3. Admission Requirements

- Applicants should have the following criteria:
- At least CGPA 2.25 on a scale of 4 in Bachelor/Master or
- 2nd class in 3 Year Honors with 1 Year Master. or
- 2nd class in 4 Year Honors.

### 4. Admission Test

A one-hour admission test based of MCQ: 80 Marks [English, Bangla and General Knowledge] will be held. Selected candidates will have to appear on a viva-voice with all original certificates at the time of admission for final selection.



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### 5. Application Process

- **Online:** Just click this link and filled up with information

<https://forms.gle/MiQmV8qG9d5WKrUU7>

After successfully completing the application form now make a payment of Tk. 1,000/- as application fee from your **Bkash Mobile Banking** account to **The process is as follows:**

**Send Money** of Tk.1,000/- as application fee from your **Bkash Mobile Banking**

- . Step 1: Using Your **Bkash Mobile Banking** Account, Dial \* 247# or Open your Bkash App and Login
- Step 2: Select **Send Money**
- Step 3: Enter Receiver bkash Account No: **(01818-402 445)**
- Step 4: Enter **1000** as Amount
- Step 5: Enter **256** as **Reference**
- Step 6: Enter Your PIN number to confirm:
- Step 7: Collect **TxnID** (TRANSACTION ID) from the Return SMS and save it.

**Note:** TxnID is your temporary Admit Card number. You must collect Admit Card through TaxnID from our office in exam day.

- **Offline:** Collect the prescribed application form for admission at the **Department of Geography and Environment, Jahangirnagar University** from **Sunday-Thursday** (9:00 AM to 4:30 PM) and **Friday** (8:30 AM to 5:30 PM).



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### 6. Fee Structure of the program

The fee structure for each student of the program will be as follows:

i) Admission Fee	:	Tk. 10,000/-
ii) Development Fee	:	Tk. 9,000/-
iii) Seminar Library Fee	:	Tk. 3,000/-
iv) Semester Fee	:	Tk. 12,000/-
v) Tuition Fee (42 credits x 2000/-)	:	Tk. 84,000/-
vi) Transport Fee	:	Tk. 6,000/-
<b>Total</b>		<b>Tk. 1,24,000/-</b>

### 7. Miscellaneous Fee

Description		Fees (BDT)
Delay Fee (after semester final exam)	:	1000/-
Re-take Exam Fee (per course)	:	4200/-
Special Exam Fee (per course)	:	10000/-

### 8. Examination Regulations

#### 9.1 Semester Final Examination

At the end of each semester a student have to appear in the final examination for his/her registered courses. The duration of the final examination for each 3 credit courses will be 3 hours. A student who will be absent for more than 25% of total class without any acceptable reason, he/she will not be allowed to sit for the semester final examination of the respective courses.



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### 9.2 Course Assessment

For the purposes assessment, 100 marks will be assigned to each 3-credit hours course. There will be marks for class presence 10%, assignments, Quiz and class tests 20%, Short Report/Presentation 10%, Midterm 20% and semester final examination 40%. The course teacher will be responsible to evaluate the students taken his/her courses.

### 9.3 Research Project

After successful completion of all required courses, students shall have to submit a research project of 6 credits in partial fulfillment of the requirements for the degree. The student shall be required to present his/her research outcomes on a date set by the Coordination Committee. The student must satisfy the board of examiners that he/she is capable to implement a research project, to undertake independent work and also to demonstrate satisfactory knowledge related to the theory and techniques used in implementing the project work.

### 9.4 Nomination of Project Supervisor

Research work for a student shall be carried out under the supervision of a full-time faculty member of the program. After receiving an application (in a prescribed form) with a project proposal from each student at the beginning of the final semester, the Coordination Committee will nominate the supervisor to guide the student.

### 9.5 Research Project Evaluation

The Coordination Committee will set and appoint the examiners to evaluate the research projects. The supervisor will be the first examiner and the second examiner should be another faculty member of this program. For the purpose of assessment, 200 marks will be assigned to the project work of 6 credit hours. The first and second examiner will evaluate the report out of 80 marks each. At the time of the defense, nominated by the Coordination Committee of the program research supervisor will assess the student out of 40 marks while four committee will assess 20 marks. And finally all the marks will be summarized



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as total number. The following example illustrates the project assessment for a student.

Description	Full marks	Obtained marks
1st Examiner	80	70
2nd Examiner	80	64
Presentation	20	15
Study Tour	20	16
Obtained Total Marks		165

### 9.6 Grading System

The letter grade and grade points for the course will be as follows:

Marks Range	Letter Grade	Grade Point
80% or above	A+	4.00
75% to < 80%	A	3.75
70% to < 75%	A-	3.50
65% to < 70%	B+	3.25
60% to < 65%	B	3.00
55% to < 60%	B-	2.75
50% to < 55%	C+	2.50
45% to < 50%	C	2.25
40% to < 45%	D	2.00
< 40%	F	0.00
-	I	Incomplete

### 9.7 Calculation of GPA

Grade Point Average (GPA) is the weighted average of the grade points obtained in the courses passed by a student in a semester. For example, if a student passes



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four courses in a semester having credits of C1, C2, C3, C4 and his/her grade points in these courses are G1, G2, G3, G4 respectively then.

$$\text{GPA} = \frac{\sum C_i G_i}{\sum C_i}, \text{ where } i = 1 \text{ to } 4$$

An Example:

Suppose a student has passed 4 courses in a semester and obtained the following grades.

Course	Credit	Grade	Grade Points
MSGED551	3	A+	4.00
MSGED502	3	B+	2.50
MSGED503	3	D	2.00
MSGED 507	3	B	3.00

Then his/her GPA in that semester will be computed as follows:

$$\text{GPA} = \frac{3(4.00) + 3(2.50) + 3(2.00) + 3(3.00)}{(3+3+3+3)} = 2.875$$

Cumulative Grade Point Average (CGPA) will be calculated considering all the grade points earned by a student in different semesters.

### 9.8 Earned Credit Marks

- Courses in which a student gets “F” grades shall not be counted towards credit requirements and for the calculation of Grade Point Average (GPA)
- If a student does not appear in the final examination, he/she will get “I (Incomplete)” grade. In that case, he/she may be allowed to sit for the Re-take examination arranged by the Coordination Committee within a shortest period of time after publishing the semester results.
- If a student get “F” grade in any course in a semester, he/she may be allowed to sit for the Re-take examination.



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- d) If the student appear in the Re-take examination, he/she has to re-register (repeat) that course in the following available semester.
- e) If a student wants to improve the grade point obtained in a course, he/she may be allowed to appear at the Re-take examination provided that his earned grade point in that course is less than 2.50. A student will not be allowed to improve his/her grade in more than 2 (two) courses during the entire program.
- f) A student may be permitted to withdraw or change his/her registered course(s) within three working weeks of the commencement of the semester. If a student fails to withdraw the course and does not appear in the class tests/final examination his/her grade in that course shall be recorded as “I” (incomplete). In that case, he/she has to register (repeat) that course in the following available semester.

### 9.9 Special Examination

A student unable to complete the program within 7 (seven) consecutive semester from the date of admission may be allowed to sit for special examination with special recommendation of the Coordinating Committee. In that case, special examination fees will be charged.

### 9.10 Result Publication

The Coordinating Committee will prepare the final results and the office of the Controller of Examinations of this university. The Controller of Examinations will make arrangement to publish the results officially and issue the certificates as per the rules of the university.

### 9.11 Degree Award

A student will be awarded the degree of MS (Master of Science) in GIS for Environment and Development after successful completion of all pre-requisite courses, required courses and a research project having an overall CGPA of 2.50 or above.



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Course of  
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### Pre-requisite Module

Course Code	Course Title	Hrs/ Week	Credit Hrs.
MSGED 501	Introduction to Geography	3	3.00
MSGED 502	Principles of Environment	3	3.00
MSGED 503	Principles of Development	3	3.00
MSGED 504	Fundamentals of GIS	3	3.00
MSGED 505	Fundamentals of Remote Sensing	3	3.00
MSGED 506	Fundamentals of Photogrammetry	3	3.00
MSGED 507	Maps and Cartography	3	3.00
MSGED 508	Field Survey Techniques	3	3.00
MSGED 509	Satellite Navigation System	3	3.00
MSGED 510	Research Techniques	3	3.00

### Skill Development Module

Course Code	Course Title	Hrs/ Week	Credit Hrs.
Environmental Module			
MSGED 511	Water Resources Planning and Management	3	3.00
MSGED 512	Hazards and Disaster Risk Assessment	3	3.00
MSGED 513	Environmental Conflict Management	3	3.00
MSGED 514	Environmental Policy and Management	3	3.00
MSGED 515	GIS and RS in Landscape Ecology	3	3.00
MSGED 516	GIS Applications in Agriculture	3	3.00
MSGED 517	GIS for Fisheries and Ocean Studies	3	3.00
MSGED 518	GIS for Wild Life Management	3	3.00
MSGED 519	GIS in Flood Plain and Watershed Management	3	3.00
MSGED 520	GIS and RS for River Morphology Study	3	3.00
Development Module			
MSGED 521	GIS Applications in Development	3	3.00
MSGED 522	GIS for Tourism Planning and Management	3	3.00
MSGED 523	Mapping of Food and Hunger	3	3.00





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MSGED 524	GIS Applications in Transport Planning	3	3.00
MSGED 525	GIS Applications for Planners	3	3.00
MSGED 526	GIS for Public Health Management	3	3.00
MSGED 527	GIS in Climate Change and Sustainable Development	3	3.00
MSGED 528	GIS and RS for Rural Development Planning	3	3.00
MSGED 529	Environmental Economics, Law and Sustainability	3	3.00
MSGED 530	Urban Development, Planning and Management	3	3.00

### Advanced Module

Course Code	Course Title	Hrs/Week	Credit Hrs.
MSGED 531	Advanced Methods in GIS	3	3.00
MSGED 532	Advanced Methods in Remote Sensing	3	3.00
MSGED 533	Advanced Methods in Photogrammetry	3	3.00
MSGED 534	Advanced Geospatial Techniques	3	3.00
MSGED 535	Acquisition and Processing of RS Data	3	3.00
MSGED 536	Geo-statistics and Spatial Analysis	3	3.00
MSGED 537	Participatory GIS	3	3.00
MSGED 538	Thematic Mapping in GIS	3	3.00
MSGED 539	Geodiversity and Open Source GIS	3	3.00
MSGED 540	Programming and Web GIS	3	3.00