



Improvement Plan

Department of Geography

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(Improvement and Development Plan)

The improvement plan includes several points, which are:

1. Integrating Artificial Intelligence into the Curriculum:

Design elective/mandatory educational modules in undergraduate and postgraduate programs focusing on AI applications in geography (e.g., satellite image classification, climate change prediction, and big data analysis).

2. Launching the “Digital Geographic Skills” Program:

A sequential training program offering students and researchers key competencies such as spatial modeling, Python programming for geographic analysis, and the use of AI in urban planning.

3. Establishing a Digital Academic Journal for the Department:

A biannual peer-reviewed journal specialized in applied research in physical and human geography, with a particular focus on studies using GIS, Remote Sensing, and Artificial Intelligence. The journal welcomes submissions from fourth-year students and academic staff to encourage early publishing.

4. Founding the “Center for Geography and Climate Studies”:

A research unit aimed at monitoring climate changes in Nineveh Governorate using satellite imagery and historical climate data analysis. The center provides quarterly reports to relevant authorities and serves as a data resource for students.

5. Creating Geographic and Environmental Student Clubs:

Establish clubs such as “Young Geographers Association” and “Friends of the Environment Club” to engage students in volunteer and community-oriented activities including environmental awareness campaigns, creating digital maps for local service areas, and preparing reports on local environmental issues. These clubs operate under the Student Activities Unit in coordination with the department.



6. **Enhancing Institutional Collaboration:**

Increase collaboration between the department and governmental institutions through expanded continuing education programs aimed at improving the skills of staff in public sector entities.

7. **Providing Electronic Suggestion Boxes:**

An online platform enabling students to express their opinions on curricula, classroom environments, instructor performance, and extracurricular activities. The data will be analyzed monthly and presented to the departmental council.

8. **Improving On-Campus Student Amenities:**

Allocate a student lounge within the department equipped with reading tables, Wi-Fi access, and scientific journals.

9. **Student Leadership in Classroom Management Workshops:**

Short training courses to equip students with skills in academic presentation, managing scientific discussions, and leading classroom groups, fostering a participatory classroom environment.

10. **Establishing a Computer Lab and Conference Hall:**

Develop a fully equipped computer laboratory and upgrade one or more conference rooms with modern devices and interactive smart boards.

11. **Creating the “Mosul Digital Atlas Platform”**

A student-led, open-source research project that produces interactive, up-to-date maps of Mosul City covering aspects such as urban expansion, environmental hotspots, services, and climate using GIS technology.

12. **“Geography Excellence Grant”:**

An annual material or symbolic grant awarded to the best applied graduation project that serves the city or the environment, encouraging students to pursue practical innovation in their research.

13. **Launching a Departmental Educational YouTube Channel:**

The channel will feature theoretical lessons delivered by the department’s faculty, practical GIS/RS applications, and documentation of field activities and conferences.



14. Constructing Additional Classrooms:

Build additional lecture halls to meet the increased student enrollment and address the current shortage in teaching spaces.

15. Activating International Scholarships and Fellowships:

Promote and facilitate study abroad opportunities and academic missions to countries with globally recognized universities.

Extent of Implementation of the Improvement Plan

Item	Extent of Implementation		
	Not Implemented	Partially Implemented	Fully Implemented
1	✓		
2	✓		
3	✓		
4	✓		
5	✓		
6	✓		
7	✓		
8	✓		
9	✓		
10		✓	
11	✓		
12	✓		
13	✓		
14	✓		
15		✓	