



ADAMAS UNIVERSITY

SCHOOL OF BASIC AND APPLIED SCIENCES

DEPARTMENT OF GEOGRAPHY

Program Name:

M.Sc. (GEOINFORMATICS)

BATCH 2024-2025

Program Code: GEO4205

Total Credit: 100

Syllabus 2024-25

(Course Structure and Syllabus modified as per the Board of Studies meeting held on
29th June 2024)

School of Basic and Applied Sciences
Department of Geography
M.Sc. (Geoinformatics), Course Structure

I Semester

Subject Code	Subject	L	T	P	C
GEO21328	Geoinformatics I	3	0	0	3
GEO22329	Geoinformatics I Lab	0	0	6	4
GEO21303	Digital Image Processing	3	0	0	3
GEO22304	Digital Image Processing Lab	0	0	6	4
GEO22316	Open Source GIS Lab	0	0	6	4
GEO22327	Research Methodology	0	0	3	2
CSE22752	Basic Programming	2	0	4	4
	Total Credit	6	0	27	24

II Semester

Subject Code	Subject	L	T	P	C
GEO21330	Geoinformatics II	3	0	0	3
GEO22331	Geoinformatics II Lab	0	0	6	4
GEO22336	Advanced Photogrammetry Lab	0	0	6	4
GEO22332	Advanced Cartography and Surveying Lab	0	0	6	4
CSE22756	Database Management Systems	1	0	2	2
CSE22758	Python for Geospatial Analysis	0	0	6	4
ENG21111	Business Communication Basic	2	0	0	2
GEO25333	Term paper leading to Dissertation I	0	0	3	2
	Total Credit	5	0	30	25

III Semester

Subject Code	Subject	L	T	P	C
GEO21334	Geoinformatics III	3	0	0	3
GEO22335	Geoinformatics III Lab	0	0	6	4
GEO21338	Advanced Computing in Geoinformatics	3	0	0	3
GEO22339	Web GIS and Google Earth Engine	0	0	6	4
GEO22315	Spatial Data Science with R	0	0	6	4
CSE22757	JavaScript for Geospatial Applications	0	0	3	2
ENG21112	Business Communication Intermediate	2	0	0	2
GEO25337	Term paper leading to Dissertation II	0	0	3	2
GEO24325	Industry Internship	-	-	-	6
	Total	8	0	24	30

IV Semester

Subject Code	Subject		L	T	P	C
Advanced Elective Theory & Practical Courses (any one group)		Group				
GEO21317	Advanced Elective Theory: Geoinformatics Applications in Natural Resource Management	A	3	0	0	3
GEO22318	Advanced Elective Practical: Geoinformatics Applications in Natural Resource Management		0	0	6	4
GEO21319	Advanced Elective Theory: Geoinformatics Applications in Environment and Climate	B	3	0	0	3
GEO22320	Advanced Elective Practical: Geoinformatics Applications in Environment and Climate		0	0	6	4
GEO21321	Advanced Elective Theory: Geoinformatics Applications in Urban and Regional Planning	C	3	0	0	3
GEO22322	Advanced Elective Practical: Geoinformatics Applications in Urban and Regional Planning		0	0	6	4
GEO22340	Computer-Aided Design & BIM		0	0	6	4
ENG21113	Business Communication Advanced		2	0	0	2
GEO21341	Startup Skill Development		2	0	0	2
GEO25326	Dissertation and Comprehensive Viva		0	0	9	6
	Total		7	0	21	21