



ADAMAS UNIVERSITY
SCHOOL OF BASIC AND APPLIED SCIENCES
DEPARTMENT OF GEOGRAPHY

Program Name:
B.Sc. (GEOINFORMATICS)

Course Structure 2026-27

Course Structure modified as per the Board of Studies meeting held on
26th March 2026

SCHOOL OF BASIC AND APPLIED SCIENCES								
UNDERGRADUATE COURSE STRUCTURE								
B.Sc. (Hons) GEOINFORMATICS: BATCH 2026-27								
SEMESTER I								
Sl. No.	Type of Course	Code	Title of the Course	Credit				Remarks
				L	T	P	C	
1	CC	GEO151	Basic Remote Sensing	2	0	2	4	CC-1
2	CC	GEO152	Basic Geographic Information System	2	0	2	4	CC-2
3	Minor	IKS101	Introduction to IKS	4	0	0	4	
4	MDC	GEO105	Physical Geography	2	0	1	3	
5	VAC		Choose one from a pool of VAC courses				2	
6	AEC	AEC101	English Communication I	2	0	0	2	
7	AEC	AEC107/8/9	Foreign Language I	2	0	0	2	
8	GEN	GEN103	AI for Science	2	0	0	2	
9	SEC	CLL151	Soft Skills and Aptitude I	1	0	0	1	
Semester Credits:							24	
SEMESTER II								
1	CC	GEO153	Advanced Remote Sensing	2	0	2	4	CC-3
2	CC	GEO154	Cartographic Techniques and Thematic Mapping	2	0	2	4	CC-4
3	Minor	GEN104	Basic Cyber Security and Internet of Things (IoT)	4	0	0	4	
4	MDC	GEO106	Human Geography	2	0	1	3	
5	VAC		Choose one from a pool of VAC courses				2	
6	AEC	AEC102	English Communication II	2	0	0	2	
7	AEC	AEC110/11/12	Foreign Language II	2	0	0	2	
8	SEC		Choose one from a pool of SEC courses				2	
9	SEC	CLL152	Soft Skills and Aptitude II	1	0	0	1	
Semester Credits:							24	
SEMESTER III								
1	CC	GEO251	Advanced Geographic Information System	2	0	2	4	CC-5
2	CC	GEO252	Surveying Techniques in Geoinformatics	2	0	2	4	CC-6
3	Minor						4	
4	MDC	GEO107	Disaster Management	2	0	1	3	
5	VAC		Choose one from a pool of VAC courses				2	
6	SEC		Choose one from a pool of SEC courses				2	
7	SEC	CLL251	Soft Skills and Aptitude III	1	0	0	1	
8	Project	GEO253	Field Project	0	0	4	4	
Semester Credits:							24	
SEMESTER IV								
1	CC	GEO254	Digital Image Processing	2	0	2	4	CC-7
2	CC	GEO255	Basic Programming	2	0	2	4	CC-8
3	CC	GEO256	Basic Mathematics and Statistics in Geoinformatics	2	0	2	4	CC-9
4	Minor		Choose one from a pool of Minor courses				4	
5	VAC		Choose one from a pool of VAC courses				2	
6	SEC		Choose one from a pool of SEC courses				2	
7	SEC	CLL252	Soft Skills and Aptitude IV	1	0	0	1	
Semester Credits:							21	
SEMESTER V								
1	CC	GEO351	Photogrammetry	2	0	2	4	CC-10
2	CC	GEO352	Python for Geospatial Analysis	2	0	2	4	CC-11
3	CC	GEO353	Geo-statistics	2	0	2	4	CC-12
4	Minor		Choose one from a pool of Minor courses				4	
5	SEC		Choose one from a pool of SEC courses				2	
6	SEC	CLL351	Soft Skills and Aptitude V	1	0	0	1	
7	INT	GEO304	Internship				2	

Semester Credits								21
SEMESTER VI								
1	CC	GEO355	Web GIS and Google Earth Engine	2	0	2	4	CC-13
2	CC	GEO356	Open-Source GIS	2	0	2	4	CC-14
3	CC	GEO357	Database Management Systems	0	0	4	4	CC-15
4	Minor		Choose one from a pool of Minor courses				4	
5	SEC		Choose one from a pool of SEC courses				2	
6	SEC	CLL352	Soft Skills and Aptitude VI	1	0	0	1	
7	Project	GEO358	Minor Project	0	0	2	2	
Semester Credits								21
Total Credits of the Program after 3 rd Year				134				
SEMESTER VII								
1	CC	GEO451	Spatial Data Science with R	2	0	2	4	CC-16
2	CC	GEO452	Introduction to Artificial Intelligence and Machine Learning in Geoinformatics	2	0	2	4	CC-17
3	CC	GEO453	Business Communication Basic	2	0	2	4	CC-18
4	CC (with research)	GEO454	Research Methodology	2	0	2	4	CC-19 (With Research)
5	CC (without research)	GEO405	Startup Skill Development	2	0	2	4	CC-19 (Without Research)
6	Minor		Choose one from a pool of Minor courses				4	
Semester Credit								20
Semester VIII								
1	CC	GEO456	Business Communication Advanced	2	0	2	4	CC-20
2	CC (without research)	GEO457	Spatial Data Science with MATLAB	2	0	2	4	CC-21 (Without Research)
3	CC (without Research)	GEO458	Spatial Data Science with AUTOCAD	2	0	2	4	CC-22 (Without Research)
4	Minor		Choose one from a pool of Minor courses				4	
5	Minor (without research)		Choose one from a pool of Minor courses				4	
6	Dissertation (with research)	GEO459	Dissertation and Comprehensive viva	0	0	12	12	
Semester Credit								20
Total Credits of the Program after 4 th Year				175				