

Year 01 Semester I				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 10102	Fundamentals of Geography	02	C	GPA
GEO 10202	Basics of Environmental Sciences	02	C	GPA
GEO 11103	Cartography	03	C	GPA
GEO 12103	Introduction to Programming	03	C	GPA
GEO 13103	Geomathematics I	03	C	GPA
GEO 13202	Descriptive Statistics	02	C	GPA
GEO 13301	Introduction to Management	01	C	GPA
GEO 13401	Philosophy and Critical Thinking	01	C	NGPA
GEO 13501	General English	01	C	NGPA
	Total Credits	18		

Year 1 Semester II				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 15102	Elements of Geoinformatics	02	C	GPA
GEO 15202	Fundamentals of Geology	02	C	GPA
GEO 15302	Fundamentals of Climatology	02	C	GPA
GEO 16103	Introduction to Surveying & Levelling	03	C	GPA
GEO 16202	Surveying & Levelling Practice	02	C	GPA
GEO 17102	Fundamentals of DBMS	02	C	GPA
GEO 17202	Introduction to Scientific Programming	02	C	GPA
GEO 18102	Geomathematics II	02	C	GPA
GEO 18202	Statistical Methods	02	C	GPA
GEO 18301	English: Technical Report Writing & Communication	01	C	NGPA
	Total Credits	20		

Year 2 Semester I				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 20102	Disaster Risk Management	02	C	GPA
GEO 21102	Fundamentals of Global Navigation Satellite System	02	C	GPA
GEO 21202	Introduction to Remote Sensing	02	C	GPA
GEO 21302	Fundamentals of Photogrammetry	02	C	GPA
GEO 21402	Fundamentals of GIS	02	C	GPA
GEO 21501	UAV Piloting	01	C	GPA
GEO 22102	Introduction to Statistical Programming	02	C	GPA
GEO 23101	English: Scientific Writing & Presentation Skills	01	C	NGPA
GEO 24103	Geospatial Data Management Practices I	03	C	GPA
GEO 24202	Geospatial Applications I	02	C	GPA
	Total Credits	19		

Year 2 Semester II				
Course Code	Course Title	Credit	Compulsory/ Elective/ Optional	GPA/ NGPA
GEO 26102	Digital Image Analysis	02	C	GPA
GEO 26202	Geostatistics	02	C	GPA
GEO 26303	3D GIS and GIS Modelling	03	C	GPA
GEO 26402	Spatial Database Management System	02	C	GPA
GEO 26502	UAV Mapping	02	C	GPA
GEO 28101	Geoinformatics in Resource Management	01	C	GPA
GEO 29103	Geospatial Data Management Practices II	03	C	GPA
GEO 29202	Geospatial Applications II	02	C	GPA
GEO 26602	*Fundamentals of Military Analysis	02	E	GPA
GEO 26702	*Fundamentals of Maritime Charting	02	E	GPA
GEO 26802	*Fundamentals of Aviation Analysis	02	E	GPA
GEO 26902	*Fundamentals of Crime Analysis	02	E	GPA
GEO 27002	*Fundamentals of Business Analysis	02	E	GPA
	Total Credits	19		

Year 3 Semester I – Honours Degree

Year 3 Semester I				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 32102	Essentials of Cloud Computing	02	C	GPA
GEO 33101	Professional Practice	01	C	GPA
GEO 33201	Occupational Health & Safety	01	C	NGPA
GEO 33301	English: Professional Communication	01	C	NGPA
GEO 36102	Advanced Remote Sensing	02	C	GPA
GEO 36202	Open Source GIS	02	C	GPA
GEO 34103	Geospatial Data Management Practices III	03	C	GPA
GEO 34202	Research Methodology	02	C	GPA
GEO 34302	*Applications in Military Analysis	02	E	GPA
GEO 34402	*Applications in Maritime Charting	02	E	GPA
GEO 34502	*Applications in Aviation Analysis	02	E	GPA
GEO 34602	*Applications in Crime Analysis	02	E	GPA
GEO 34702	*Applications in Business Analysis	02	E	GPA
	Total Credits	16		

Year 3 Semester I - Exit Point

Year 3 Semester I				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 32102	Essentials of Cloud Computing	02	C	GPA
GEO 33101	Professional Practice	01	C	GPA
GEO 33201	Occupational Health & Safety	01	C	NGPA
GEO 33301	English: Professional Communication	01	C	NGPA
GEO 36202	Open Source GIS	02	C	GPA
GEO 34202	Research Methodology	02	C	GPA
GEO 34302	*Applications in Military Analysis	02	E	GPA
GEO 34402	*Applications in Maritime Charting	02	E	GPA
GEO 34502	*Applications in Aviation Analysis	02	E	GPA
GEO 34602	*Applications in Crime Analysis	02	E	GPA
GEO 34702	*Applications in Business Analysis	02	E	GPA
	Total Credits	11		
Optional Subjects				
GEO 36102	Advanced Remote Sensing	02	O	GPA
GEO 34103	Geospatial Data Management Practices III	03	O	GPA

Year 3 Semester II – Honours Degree

Year 3 Semester II				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 36102	Web GIS	02	C	GPA
GEO 36203	Geospatial Data Management Practice IV	03	C	GPA
GEO 36302	Advanced GIS	02	C	GPA
GEO 37102	Fundamentals of Geo AI	02	C	GPA
GEO 38101	Entrepreneurship Skills	01	C	GPA
GEO 39104	Mini Project in Industrial Applications	06	C	GPA
GEO 39202	Professional Developments in Geoinformatics	02	C	GPA
GEO 39308	** Research – Phase I	02	C	GPA
	Total Credits	20		

** The subject will be continued and evaluated as a single subject in Year 4 Semester I with a total of 8 credits.

Year 3 Semester II - Exit Point

Year 3 Semester II				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 38101	Entrepreneurship Skills	01	C	GPA
GEO 39106	Mini Project in Industrial Applications	06	C	GPA
GEO 39202	Professional Development in Geoinformatics	02	C	GPA
	Total Credits	09		
Optional Subjects				
GEO 36203	* Geospatial Data Management Practice IV	03	O	-
GEO 36302	*Advanced GIS	02	O	-
GEO 37102	*Fundamentals of Geo AI	01	O	
GEO 36102	Web GIS	02	O	GPA
GPA Credits for the Exit point		90		
NGPA Credits for the Exit point		6		
Total Credits for the Exit point		96		

Year 4 Semester I				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 40102	Sustainable Development	02	C	GPA
GEO 42102	Applications of Geo AI	02	C	GPA
GEO 42202	Big Data Analytics	02	C	GPA
GEO 43102	Geo-Mathematics III	02	C	GPA
GEO 39308	** Research – Phase II	06	C	GPA
	Total Credits	14		

** The subject is a continuation from semester Year 3 Semester II and evaluated as a single subject in Year 4 Semester I with a total of 8 credits.

Year 4 Semester II				
Course Code	Course Title	Credit	Compulsory /Elective/ Optional	GPA/ NGPA
GEO 49108	Industrial Training	08	C	NGPA
	Total Credits	08		
GPA Credits of the Degree		120		
NGPA Credits of the Degree		14		
Total Credits of the Degree		134		