

B.Sc. in Surveying Engineering Program Courses

Second Year					
First Semester		Unit	Second Semester		Unit
ES2011	Higher Surveying	4	ES2021	Engineering surveying	4
ES2012	Mathematic I	3	ES2022	Mathematic II	2
ES2013	Physics for Engineering	2	ES2023	Cadastral Surveying	3
ES2014	Land Low	2	ES2024	Geomatic Data Management and Processing	3
ES2015	Map projection	2	ES2025	Engineering Cartography	3
ES2016	Computer programming	3	ES2026	Survey Instrumentation	3

Third Year					
First Semester		Unit	Second Semester		Unit
ES3011	Geodesy I	3	ES3021	Geodesy II	3
ES3012	Photogrammetry	3	ES3022	Digital Photogrammetry	3
ES3013	Digital Mapping and GIS	3	ES3023	MATLAB Application	3
ES3014	Theory of error and adjustment	3	ES3024	Engineering Analysis	3
ES3015	Basic of Highway Engineering	2	ES3025	Geometric design of Highway	3
ES3016	Quantity Surveying and Construction Methods	3	ES3026	Construction Surveying	3

Fourth Year					
First Semester		Unit	Second Semester		Unit
ES4101	Fundamental of Satellite Positioning	3	ES4201	Global Positioning System (GPS)	3
ES4102	Remote Sensing	3	ES4202	Application of Remote Sensing	3
ES4103	Application of GIS	3	ES4203	Hydrographic and Mining Surveying	3
ES4104	Urban Planning	2	ES4204	Regional Planning	2
ES4105	Astronomy for Surveying	2	ES4205	Economics and Optimization process	2
ES4106	Engineering Project	3	ES4206	Engineering Project	3