Surveying and Geomatics Engineering

University Compulsory Requirements

Course Nr.	Course name	Weight in Credit Hours
4 001	Arabic Language	3
4 002	Islamic Culture	3
4 003	English Language 1	3
4 320	Modern History of Palestine	3
5 055	Computer And Prog. Principles	3
5 051	Intensive English	0
5 052	Remedial English	0
5 054	Remedial Computer	0
5 073	Effective English Language Use	2

University Elective Requirements

Course Nr.	Course name	Weight in Credit Hours
4 321	Development in the Arabic World	3
4 322	Contemporary Problems	3
4 308	Hebrew Language	3
4 323	French Language	3
4 325	Spanish Language	3
4 326	German Language	3
4 413	Law in Society Service	3
4 622	Democracy, Human Rights, & Human International Law	3
4 626	The History of Science in Arab & Islam	3
5 440	Home Garden	3

College Requirements

Course Nr.	Course name	Weight in Credit Hours
5 059	Computer Programming	3
5 060	Engineering Drawing	2
5 061	Engineering Workshop	2
4 015	Methods of Scientific Research	2
4 011	Eng. Economics & Management	3
4 004	Calculus 1	3
4 005	Calculus 2	3
4 006	Physics 1	3
4 007	Physics Lab 1	1
4 070	English Language 2	3
4 008	Chemistry 1	3

4 009	Chemistry Lab 1	1

Department Requirements

Course Nr.	Course name	Weight in Credit Hours
4 178	Construction Materials	3
4 179	Construction Materials Tech	1
5 449	Strength of Materials	3
5 450	Strength of Materials Lab	1
4 111	Computer Aided Drawing	3
5 198	Fluid Mechanics	3
5 451	Fluid Mechanics Lab	1
4 113	Traffic & Transportation Engineering	3
4 176	Soil Mechanics1	3
4 177	Soil Mechanics lab	1
5 160	Geology	2
5 199	Quantity Surveying & Contracts	3
4 181	Structural Analysis I	3
5 200	Reinforced Concrete I	3
4 627	Surveying I	3
4 174	Surveying I/ Practical	1
4 180	Project Management	3
5 201	Building Construction	3
4 043	Differential Equations 1	3
4 068	Physics 2	3
4 069	Physics Lab 2	1
4 311	Sanitary Engineering	3

Program Compulsory Requirements

Course Nr.	Course name	Weight in Credit Hours
5 167	Advanced Surveying	3
5 169	Advanced Surveying/Practical	1
5 168	Surveying Engineering1	3
5 170	Surveying Engineering1/Practical	1
5 171	Linear Algebra& Theory of Errors1	3
4 584	Highway Engineering	3
5 172	Computations & Theory of Errors 2	2
5 173	Geodesy and Astronomy for land Surveying/Practical	3
5 174	Geodesy and Astronomy for land Surveying	1
5 210	Geographical Information Systems	3
5 175	Cartography	3
5 224	Cartography/Practical	1
5 211	Photogrammetry I	3
5 212	Photogrammetry I/Practical	1

5 213	Photogrammetry II	3
5 176	Photogrammetry II/Practical	1
5 188	Global Positioning Systems	2
5 177	Global Positioning Systems/Practical	1
5 178	Legal Principles of Surveying & land Percolation	2
5 189	Legal Principles of Surveying & land Percolation/ Practical	1
5 180	Asphalt Lab	1
4 400	Introduction to Graduation Project	1
4 401	Graduation Project	3
4 199	Field Training I	0
4 200	Field Training II	0
5 179	Digital Photogrammetry & Image Processing	2
5 190	Digital Photogrammetry & Image Processing/ Practical	1
5 191	Remote Sensing	3

Program Elective Requirements

Course Nr.	Course name	Weight in Credit Hours
5 192	Geophsics	3
5 215	City Planning	3
5 181	GIs Spatial Analysis	3
5 216	Reinforced Concrete II	3
5 182	Thematic Cartography2	3
5 183	Engineering & Satellite Geodesy	3
5 184	Professional Ethics & Laws	3
5 185	Visual & Database Programming	3
4 196	Road Design	3
5 435	Pavement Design	3
5 585	Land Law	3