

OMU DEPARTMENT OF GEOMATICS ENGINEERING UNDERGRADUATE COURSES (To Be Effective From 2022-2023)

		Semester 1							Semester 2							
1st YEAR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR
		HRT 113	Surveying I	1	2	0	2	5		HRT 114	Surveying II	1	2	0	2	4
	HRT 115	Geodetic Calculation	2	0	0	2	4		HRT 106	Probability and Statistics	3	0	0	3	4	
	TBFI2123	Physics-I	3	0	2	4	6		HRT 116	Introduction to Surveying Engineering and Vocational Ethics	2	0	0	2	3	
	TBMAT113	Mathematics-I	2	2	0	3	5		HRT 110	Algorithms and Programming-I	1	2	0	2	4	
	TBKIM113	General Chemistry-I	3	0	2	4	6		TBFI2124	Physics-II	3	0	2	4	6	
	YD 113	Foreign Language-I	1	2	0	2	2		TBMAT114	Mathematics-II	2	2	0	3	5	
	ATT 101	Principles Of Atatürk And History Of Revolution I	2	0	0	2	2		YD 114	Foreign Language-II	1	2	0	2	2	
	TOTAL		14	6	4	19	30		ATT 102	Principles Of Atatürk And History Of Revolution II	2	0	0	2	2	
									TOTAL		15	8	2	20	30	
		Semester 3							Semester 4							
2nd YEAR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR
		HRT 229	Levelling	1	2	0	2	3		HRT 202	Numerical Analysis	3	0	0	3	3
	HRT 203	Cartography	3	0	0	3	4		HRT 204	Cadastre	3	0	0	3	3	
	HRT 205	Real Estate Law	3	0	0	3	4		HRT 222	Computer Aided Mapping	1	2	0	2	3	
	HRT 281	Linear Algebra	3	0	0	3	4		HRT 230	Field Practice	0	4	0	2	4	
	HRT 219	Algorithms and Programming II	1	2	0	2	4		HRT 282	Differential Equations	4	0	0	4	4	
	TDI 101	Turkish Language-I	2	0	0	2	2		HRT 232	Urban and Regional Planning	2	0	0	2	2	
	ISG 101	Occupational Health And Safety-I	2	0	0	2	2		TDI 102	Turkish Language-II	2	0	0	2	2	
	YDI 213	Advanced English-I	2	2	0	3	4		ISG 102	Occupational Health And Safety-II	2	0	0	2	2	
	HRTSEC-1	ELECTIVE COURSE 1	3	0	0	3	3		YDI 214	Advanced English-II	2	2	0	3	4	
	TOTAL		20	6	0	23	30		HRTSEC-2	ELECTIVE COURSE 2	2	0	0	2	3	
		ELECTIVE COURSE 1							TOTAL		21	8	0	25	30	
	HRT 231	Engineering Geology (EC 1)	3	0	0	3	3			ELECTIVE COURSE 2						
	HRT 233	Geodetic Astronomy (EC 1)	3	0	0	3	3		HRT 214	Quality Management and Standards (EC 2)	2	0	0	2	3	
	HRT 235	Matlab Applications in Geodesy (EC 1)	3	0	0	3	3		HRT 216	Web Programming (EC 2)	2	0	0	2	3	
									HRT 220	Urbanization and Environment (EC 2)	2	0	0	2	3	
									HRT 228	Labor and Tax Law (EC 2)	2	0	0	2	3	
		Semester 5							Semester 6							
3rd YEAR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR
		HRT 303	Adjustment Calculus-I	3	0	0	3	5	*	HRT 338	Satellite Geodesy	1	2	0	2	4
	HRT 305	Geodesy-I	3	0	0	3	5	*	HRT 304	Adjustment Calculus-II	3	0	0	3	4	*
	HRT 307	Photogrammetry-I	3	0	0	3	4	*	HRT 306	Geodesy-II	3	0	0	3	5	*
	HRT 309	Urban Land Design and Readjustment (EC 5)	2	2	0	3	6		HRT 308	Photogrammetry-II	3	0	0	3	4	*
	HRT 323	Engineering Mechanics	2	0	0	2	4		HRT 336	Database Design	2	1	0	3	5	
	HRTSEC-3.1	Elective Course 3.1	2	0	0	2	3		MUH 302	Entrepreneurship and Innovation	2	0	0	2	5	
	HRTSEC-3.2	Elective Course 3.2	2	0	0	2	3		HRTSEC-4	Elective Course 4	2	0	0	2	3	
	TOTAL		17	2	0	18	30		TOTAL		16	3	0	18	30	
		ELECTIVE COURSE 3.1							HRT 350	Summer Practice (**)	0	0	0	0	10	
	HRT 325	Forest Cadastre (EC 3.1)	2	0	0	2	3			ELECTIVE COURSE 4						
	HRT 327	Digital Image Processing (EC 3.1)	2	0	0	2	3		HRT 340	Geodetic Network Design (EC 4)	2	0	0	2	3	
	HRT 329	Visual Programming (EC 3.1)	2	0	0	2	3		HRT 342	Expropriation Techniques (EC 4)	2	0	0	2	3	
		ELECTIVE COURSE 3.2							HRT 344	Computer Vision (EC 4)	2	0	0	2	3	
	HRT 331	Geodetic Surveying (EC 3.2)	2	0	0	2	3		HRT 346	Physical Geodesy (EC 4)	2	0	0	2	3	
	HRT 333	Coordinate Systems (EC 3.2)	2	0	0	2	3									
	HRT 335	Engineering Surveying for Water Structures (EC 3.2)	2	0	0	2	3									
	HRT 337	Gravimetry (EC 3.2)	2	0	0	2	3									
		Semester 7							Semester 8							
4th YEAR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR	Kodu	Dersin Adı	T	P	L	C	ECTS	PR
		HRT 401	Geographical Information Systems	3	0	0	3	4		HRT 402	Digital Photogrammetry	2	0	0	2	4
	HRT 443	Staking Out	2	0	0	2	4		HRT 404	Geographic Information Systems Applications	1	2	0	2	6	
	HRT 405	Real Estate Valuation	3	0	0	3	4		HRT 600	Graduation Project ***	1	2	0	2	6	***
	HRT 407	Remote Sensing	3	0	0	3	4		HRT 408	Design and Rearrangement Of Rural Areas	2	1	0	3	6	
	HRT 445	Research and Presentation Project	0	4	0	2	4		HRTSEC-6.1	Elective Course 6.1	2	0	0	2	3	
	HRT 441	Road Science	1	2	0	2	5		HRTSEC-6.2	Elective Course 6.2	2	0	0	2	3	
	HRTSEC-5	Elective Course 5	2	0	0	2	3		SSD2	Social Elective Course-II (SEC2)	2	0	0	2	2	
	SSD1	Social Elective Course-I (SEC1)	2	0	0	2	2		TOTAL		12	5	0	15	30	
	TOTAL		16	6	0	19	30		HRT 510	Professional Practice Program (PPP) ****	0	30	0	15	30	
		ELECTIVE COURSE 5								ELECTIVE COURSE 6.1						
	HRT 411	History Of Science (EC 5)	2	0	0	2	3		HRT 444	Spatial Information (EC 6.1)	2	0	0	2	3	
	HRT 413	Adjustment Of Constrained Measurements (EC 5)	2	0	0	2	3		HRT 446	Analysis of Satellite Images (EC 6.1)	2	0	0	2	3	
	HRT 415	Radiometry (EC 5)	2	0	0	2	3		HRT 448	Spatial Data Infrastructure (EC 6.1)	2	0	0	2	3	
	HRT 419	Coastal Management (EC 5)	2	0	0	2	3		HRT 450	Statistical Analysis Of Geodesic Data (EC 6.2)	2	0	0	2	3	
	HRT 421	Infrastructure Cadastre (EC 5)	2	0	0	2	3			ELECTIVE COURSE 6.2						
	HRT 431	GNSS Networks (EC 5)	2	0	0	2	3		HRT 452	Project Planning (EC 6.2)	2	0	0	2	3	
	HRT 433	Disaster Management (EC 5)	2	0	0	2	3		HRT 454	The Acquisition Of Real Estate By Foreigners (EC 6.2)	2	0	0	2	3	
	HRT 435	Data Mining (EC 5)	2	0	0	2	3		HRT 456	Engineering Economics (EC 6.2)	2	0	0	2	3	
	HRT 437	Unmanned Aerial Vehicles and Application Areas (EC 5)	2	0	0	2	3		HRT 458	Urban Transformation (EC 6.2)	2	0	0	2	3	
	HRT 439	Industrial Measurements (EC 5)	2	0	0	2	3		HRT 460	Professional English (EC 6.2)	2	0	0	2	3	
									HRT 462	Hydrology (EC 6.2)	2	0	0	2	3	
									HRT 464	Surveying in Engineering (EC 6.2)	2	0	0	2	3	

(*) There is a PRE-REQUEST for students are required to take this course, Physics-I, Mathematics-I, Physics-II and Mathematics-II courses must be successful

(**) Summer Practice is 30 working-day. Summer practice's ECTS by regulation is total of outside the ECTS.

(***) The Graduation Project will be open for the students of the 9th and Upper Semester in the FALL period. There is a PRE-REQUEST for students to take this course, and students must be successful in ALL COURSES of 1st and 2nd class.

(****) Students who are successful in PPP will be EXEMPT in all courses of the 8th semester.

General Credit Total:	157	Fundamental Sciences credits and ECTS:	31	43
General Credit Total (Excluding 5-1 Courses):	141	Total National Credits and ECTS Credits of Elective Courses:	25	38
Total ECTS Credits:	240	Total ECTS credits of Applied Courses:		109