

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
GE208	COMPUTER MAPPING	0.00	4.00	0.00	2.00	3.00
Course Detail						
Course Language	: English					
Qualification Degree	: Bachelor					
Course Type	: Compulsory					
Preconditions	: Not					
Objectives of the Course	: To learn Computer Aided Design (CAD) softwares (NetCAD and AutoCAD) in a hands-on project based setting. Learning map related basic terms Understanding map generalizations Learning types of map projection Understanding geovisualization					
Course Contents	: Exploration, analysis, synthesizing and presentation of Geospatial information using softwares packages. AutoCAD 2014 2014 (Autodesk tutorials), NetCAD En. v.6					
Recommended or Required Reading	: Computer aided map design. Lecture Note.					
Planned Learning Activities and Teaching Methods	: Course lectures, practices, discussion and quiz exams.					
Recommended Optional Programme Components	: No recommendations					
Instructors	: Dr. Öğr. Üyesi Osman Sami Kırtıloğlu					
Instructor's Assistants	: Null					
Presentation Of Course	: Practical applications in labs.					
En Son Güncelleme Tarihi:	:					

Course Outcomes

Upon the completion of this course a student :

- 1 To become familiar with the concepts and network resources of Computer Mapping.
- 2 To understand the organization of spatial and non-spatial information in mapping.
- 3 To understand the role of personal computers in handling geographic information.
- 4 To become familiar with NetCAD and AutoCAD software data entry, storage, retrieval, and output.
- 5 To produce effective computer-drawn maps and graphics.

Preconditions

Course Code	Course Name	Teorical	Practice	Laboratory	Credits	ECTS
-------------	-------------	----------	----------	------------	---------	------

Weekly Contents						
	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
1.Week	*Introduction: 1- Basic concepts and definitions ; Computer Aided Mapping CAD, NetCAD En. v.6, AutoCAD 2016					
2.Week	*AutoCAD 2016	*Application 1 AutoCAD coordinate system, UCS and coordinate entry.				
3.Week	*AutoCAD 2016	*Application 2: AutoCAD 2016 Drawing lines, poly lines, rectangles and circles.				
4.Week	*AutoCAD 2016	*Application 3 AutoCAD 2016 Parallel lines, spline function, mirror function, move function and trim function				
5.Week		*Application 4 AutoCAD 2016 Layer structure, array function and creating map grids, drawing basic maps.				
6.Week	*NetCAD v7.6	*Application 5 NetCAD software interface, tools and layer structure.				
7.Week	*NetCADv7.6	*Application 7: NetCAD coordinate editor and coordinate entry				
8.Week	*NetCADv7.6	*Application 8 Drawing with orthogonal and polar coordinates.				
9.Week	*NetCADv7.6	*Application 10: Drawing lines, polygons and splitting polygon objects.				
10.Week	*NetCADv7.6	*Midterm-exam				
11.Week	*NetCADv7.6	*Application 11: Triangulated Irregular Network construction and creating surfaces, contour lines.				
12.Week	*NetCADv7.6	*Application 12: Digitization of raster maps.				
13.Week	*NetCADv7.6	*Application 13: Creating GIS database and link graphical objects with attribute data				

Assesment Methods %
1 Mdterms : 40.000
6 Final : 60.000

ECTS Workload			
Activities	Count	Time(Hour)	Sum of Workload
Vize / Midterms	1	2.00	2.00
Final / Final	1	2.00	2.00
Derse Katılm / Attending lectures	14	2.00	28.00
Final Sınavı Hazırlık / Preparation for final	1	25.00	25.00
Ara Sınav Hazırlık / Preparation for midterm	1	20.00	20.00
Total :			77.00
Sum of Workload / 30 (Hour) :			3
ECTS :			3.00

Program And OutcomeRelation											
	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11
L.O. 1	0	0	5	4	5	0	0	0	0	0	0
L.O. 2	0	0	3	5	3	0	0	0	0	0	0
L.O. 3	0	0	3	3	4	0	0	0	0	0	0
L.O. 4	0	0	4	4	5	0	0	0	0	0	0
L.O. 5	0	0	5	4	5	0	0	0	0	0	0