AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Computer Usage in Research								
Course Code	KİM507		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	6	Workload	148 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	to give information about using computers, internet access, use of databases, article writing and presentation preparation, web page design.								
Course Content	In this course, graduate students will be given the necessary computer information to be used in scientific studies and their applications will be done.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	3	20
Final Examination	1	60
Seminar	1	20

Recommended or Required Reading	
1	Cetin, A., (2003), computer graphics, distinguished Publishing
2	Köseoğlu K., (2005) Database logic, Compass Publishing and Communication sec. Co.Ltd.
3	Levie R. d., (2001), Excel in analytical chemistry, Cambridge University Press
4	Comer D. E., (2005),Network Systems Design Using Network Processors, Printice Hall
5	Comer D. E., Droms R. E., (2003), Computer Networks and Internets, Printice Hall

Week	Weekly Detailed Course Contents	
1	Theoretical	Computer Hardware
2	Theoretical	Operating Systems
3	Theoretical	İnternet
4	Theoretical	Online Information Search
5	Theoretical	Graph Drawing Packages
6	Theoretical	Databases
7	Theoretical	Databases
8	Intermediate Exam	Midterm Exam
9	Theoretical	Graph transformations
10	Theoretical	Word Processors
11	Theoretical	Evaluation of data (The use of spreadsheets and statistical packages)
12	Theoretical	Prepare a presentation (PowerPoint package program)
13	Theoretical	Web design and preparation of presentation in a Web environment
14	Theoretical	Student Presentations
15	Theoretical	Student Presentations
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Practice	14	0	3	42
Seminar	3	25	1	78
Midterm Examination	1	10	1	11

Final Examination	1	15	2	17
			Total Workload (Hours)	148
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	to be able acquire information about the computer hardware and the operating system
2	to be able to recognize the data evaluation
3	To have information about special computer programs
4	To have knowledge about computer use in researches
5	To have information about WEB design

Programme Outcomes *(Chemistry Master)*	
1	To be able to gain proficiency in depths and analysis by statistical methods in the same or a related area depending on the undergraduate competence,.
2	To be able to use the knowledge of his/her field and the skills to solve problems and/or applications in interdisciplinary research.
3	To be able to adopt to evaluate the information and skill his/her field by critical approach.
4	To be able to evaluate the effect of important persons, case and fact on his/her field applications.
5	To be able to gain the ability to discuss write and orally present to a group of literate listener.
6	To be able to communicate orally and written in a foreign language at least at European language B2 level.
7	To be able to use computer programs related to his/her field and have skills for informatics communication.
8	To be able to be careful in protecting social, scientific and cultural ethics in collection data, application and presentation.
9	To be able to develop strategic, political and application plans in his/her field and may evaluate the outcomes in quality periods.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P9	5	5	5	5	5