



TURKISH REPUBLIC
FIRAT UNIVERSITY
COLLEGE OF TECHNOLOGY
DEPARTMENT OF SOFTWARE ENGINEERING

COURSE SYLLABUS
YMT580 Pattern Recognition

Location: Lecture and Lab: Software Engineering Building

Class meeting times:	Lab meeting time:	Instructor:	Teaching Assistant
	-	Prof. Dr. İbrahim TÜRKOĞLU	-

Office hours: Please see the notice board outside each faculty member's office.

Course description: This course includes signal, image and data processing techniques, classification methods, etc.

Course objectives: This course addresses the advanced pattern recognition methods such as Signal / Image / Data Processing Techniques, Classification Methods, etc. The main aim of this course is providing a strong technical foundation through the development of pattern recognition skills and concepts. In particular this course is concerned with concept of pattern recognition, pattern preprocessing, signal/image/data processing techniques, feature extraction and selection, classification methods, performance evaluation criteria, pattern recognition applications.

Prerequisite: Prerequisites: eligibility for YMT 111, MAT161, FIZ111, basic keyboarding, and PC skills.

Textbook

- C.M. Bishop – Neural Networks for Pattern Recognition, Oxford University, 1996
- R.O. Duda, P.E. Hart – Pattern Classification and Scene Analysis, Wiley, 1973.
- E.M. Tzanakou – Supervised and Unsupervised Pattern Recognition, CRC Press, 2000.

Course requirements:

Assignments: Students will be required to complete six programming assignments. Students will be given two weeks to complete each assignment. Five of the assignments will count towards the final grade, giving student the option to drop their lowest graded assignment.



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Exams: Three exams, including the final exam, will be given. Students will be given at least one week's notice of the exam dates. All examinations are written examinations. There are no make-up examinations available for any student. If a student has an excused absence exam, the University Regulation will be applied.

Grading plan: First exam	40%
Final exam	60%

≥ 90	\Rightarrow	A
≥ 80 but < 90	\Rightarrow	B
≥ 70 but < 80	\Rightarrow	C
≥ 60 but < 70	\Rightarrow	D
< 60	\Rightarrow	F

Class participation

In accordance with University Policy, regular attendance is required; however, no points will be awarded or subtracted based on your attendance. You are responsible for all material covered in every class, regardless of whether you attended or not. It is your responsibility to obtain notes, assignments, etc., from fellow class members if you miss a class.

Academic dishonesty

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The university and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource



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materials. No cheating on an examination or assignments is allowed. A score of zero will be given to the student if such a case occurred.

Rules of conduct

Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Please turn off or mute your cellular phone and/or pager before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking among each other at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a, minimally, a directive to leave class or being reported to the Dean of Students for disciplinary action in accordance with university policy.

Visitors in the classroom

Occasion visiting of classes by responsible persons is allowed with prior arrangement with the instructor, as long as it does not interfere with the registered members of the class or the educational process.

Disabilities

According to University policy requests for accommodations must be initiated by the student. A student seeking accommodations should go to the Deans of Students for instructions.

Religious Holidays

An institution of higher education shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.