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| <b>Course Code-Name</b>                                | <b>GBE 376 Forensic Technologies</b>   |
| <b>Instructor</b>                                      | Assist. Prof. Dr. Fatih Kocabaş<br>Genetics and Bioengineering Department, Room B504<br>0-216-578 0618 fatih.kocabas@yeditepe.edu.tr   |
| <b>Course Schedule</b>                                 | Monday 16:00 - 16:50, Tuesday 14:00 - 15:50 @ B318   |
| <b>Prerequisite</b>                                    | None   |
| <b>Office Hours</b>                                    | Tuesday 11:00 – 12:50 <i>by appointment only</i>   |
| <b>Course Description</b>                              | Overview of Forensic Technologies  |
| <b>Course Objectives</b>                               | Fundamental concepts of forensic science; A basic course in Forensics, the history of forensic science, different departments of forensics, methods of investigating a crime scene, types of evidence, analysis of fingerprints, hair, fibers, drugs, glass, soil and blood, up to date techniques currently being used to analyze different evidence including analytical chemistry, molecular biology and serology techniques. |
| <b>Required Textbook &amp; Supplementary Materials</b> | <i>Criminalistics: An Introduction to Forensic Science, Global Edition, 11/E</i><br>– Richard Saferstein (Pearson) ISBN-10: 1292062029   ISBN-13: 9781292062020<br><i>Forensic Science, 3/E</i> – Andrew R .W. Jackson & Julie M. Jackson (Pearson) ISBN-10: 0273738402   ISBN-13: 9780273738404   |
| <b>Grading</b>   | Homework/Quizzes: <b>30%</b><br>Mid-Semester Exam: <b>30%</b><br>Final Exam: <b>40%</b><br>TOTAL: <b>100%</b><br><b>If you achieve less than 50% overall in the class, you will automatically get an “F”.</b>  |
| <b>Make-up Exams</b>                                   | There is no planned make-up for any missing examination. You must demonstrate a valid excuse to re-take a missed exam. In addition, the school policies will be taken into account in cases when you miss a scheduled examination.   |
| <b>Homework / Quizzes</b>                              | <b>There will be homework assigned for this course.</b> It is also highly recommended that you read the relevant chapters in the textbook as the course progresses and study for at least one hour for every one hour of lecture. <b>A short quiz will be given every week based on the previous week’s reading assignments.</b>   |
| <b>Attendance</b>                                      | If you fail to attend less than <b>80% of the lectures from the beginning of the semester</b> , you will get “FA” in the course and have no right to take <b>BÜTÜNLEME</b> exam. In addition, tardiness to class may incur a penalty of loss of marks.   |
| <b>Academic Integrity</b>                              | Adherence to the University Academic Integrity policy is expected. No breach of this policy will be tolerated. Any offenders, explicit or complicit, will be dealt with in accordance with the established University procedures.  |



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| <b>Exam Schedule</b> | Mid-Semester Exam | Tuesday, March 21st | 14:00-15:50                                  |
|                      | Final Exam        | May 15-28, 2017     | Exact time and date will be announced later. |

| <b>Week</b>  | <b>Chapters</b> | <b>Topics</b>  |
|--------------|-----------------|--|
| Jan 30-Feb 3 | -               | First meeting  |
| Feb 6-10     | 1-2             | Science and Technology in Criminal Investigation<br>Crime Scene Investigation              |
| Feb 13-17    | 3-4             | Assessing the Physical Evidence<br>Crime Scene Reconstruction: Bloodstain Evidence         |
| Feb 20-24    | 5-6             | The Role of Forensic Experts in Death Investigation<br>Detecting Crimes with Fingerprints  |
| Feb 27-Mar 3 | 7-8             | The Microscope and Its Forensic Applications<br>Firearms, Tool Marks and Other Impressions |
| Mar 6-10     | 9-10            | Forensic Analysis of Matter, Light, and Glass,<br>Evidentiary Value of Hair and Fibers     |
| Mar 13-17    | -               | <i>No planned lectures (Out of town due to Congress)</i>                                   |
| Mar 20-24    | <b>1-10</b>     | <b>Midterm (No lecture on March 20<sup>th</sup>).</b>                                      |
| Mar 27-31    | 11-12           | Drug Abuse and Drug Evidence<br>Forensic Toxicology  |
| Apr 3-7      | 13-14           | Examination of Metals, Paint, and Soil, Forensic<br>Serology                               |
| Apr 10-14    | 15-16           | DNA: The Indispensable Forensic Science Tool,<br>Investigation of Arson and Explosions     |
| Apr 17-21    | 17              | Scientific Examination of Documents, Computer<br>Forensics                                 |
| Apr 24-28    | 18              | Scientific Examination of Documents, Computer<br>Forensics                                 |
| May 1-5      | 19              | Mobile Device Forensics<br><i>No lecture on May 1<sup>st</sup> (Holiday)</i>               |
| May 8-12     | -               | Discussion of forensic files an Review lectures  |

**Disclaimer:** This syllabus provides a general plan and subject to change. The instructor reserves the right to make modifications in content and schedules as necessary to promote the best education possible within the prevailing conditions affecting this course. It is the student's responsibility to note the changes that may occur during the semester.