<table>
<tr><td rowspan="9">Identification</td><td>Subject</td><td colspan="3">ME 317 Technical Drawing and Design, 6 ECTS</td></tr>
<tr><td>Department</td><td colspan="3">Mechanical Engineering</td></tr>
<tr><td>Program</td><td colspan="3">Undergraduate</td></tr>
<tr><td>Term</td><td colspan="3">Spring 2024</td></tr>
<tr><td>Instructor</td><td colspan="3">Faraj Khalokov</td></tr>
<tr><td>E-mail:</td><td colspan="3">fkhalikov@khazar.org</td></tr>
<tr><td>Phone:</td><td colspan="3"></td></tr>
<tr><td>Classroom/hours</td><td colspan="3"></td></tr>
<tr><td>Office hours</td><td colspan="3"></td></tr>
<tr><td>Prerequisites</td><td colspan="4">None</td></tr>
<tr><td>Language</td><td colspan="4">English</td></tr>
<tr><td>Compulsory/Elective</td><td colspan="4">Compulsory</td></tr>
<tr><td>Required textbooks and course materials</td><td colspan="4">Engineering Drawing and Design, 3rd Edition Delmar, 2002
Technical Drawing 101 with AutoCAD 2022, by Smith, Ramirez, and Fuller.</td></tr>
<tr><td>Course outline</td><td colspan="4">Technical Drawing and Design covers the principles of engineering drawings in visually communicating engineering designs, technical drawings, models or prototypes of real design problems, and an introduction to computer-aided design (CAD). This course focuses heavily on technology, engineering and mathematics.</td></tr>
<tr><td>Course objectives</td><td colspan="4">This course is designed to equip students with the skills to design drawings using CAD software and the principle of orthographic projection and to interpret and apply geometric dimensioning and tolerancing in engineering graphics.</td></tr>
<tr><td>Learning outcomes</td><td colspan="4">Upon completion of the course, the student should be able to:

1. Use the medium of drawings in engineering communications.
2. Describe the general principles involved in the use of Engineering Drawing.
3. Demonstrate skills in interpreting and producing engineering drawings accurately and efficiently.
4. Demonstrate skills in computer-aided-droughting to produce detailed 2D and 3D drawings.</td></tr>
<tr><td rowspan="3">Teaching methods</td><td colspan="3">Lecture</td><td>x</td></tr>
<tr><td colspan="3">Group discussion</td><td>x</td></tr>
<tr><td colspan="3">Experiential exercise</td><td>x</td></tr>
<tr><td rowspan="7">Evaluation</td><td>Methods</td><td colspan="2">Date/deadlines</td><td>Percentage (%)</td></tr>
<tr><td>Midterm Exam</td><td colspan="2"></td><td>20</td></tr>
<tr><td>Class Participation</td><td colspan="2"></td><td>5</td></tr>
<tr><td>Assignment</td><td colspan="2"></td><td>20</td></tr>
<tr><td>Project</td><td colspan="2"></td><td>15</td></tr>
<tr><td>Final Exam</td><td colspan="2"></td><td>40</td></tr>
<tr><td>Total</td><td colspan="2"></td><td>100</td></tr>
<tr><td>Policy</td><td colspan="4">▪ Ethics
Copying other students' work is highly discouraged. All assignments must be handled by the student himself. This is a university policy and violators will be reprimanded accordingly.

▪ Preparation for class
The structure of this course demands your individual effort outside the classroom for extra practice of many problems within the textbook. After each session, every student needs to put sufficient time to practice and finish the assignments by the predetermined date.

• Withdrawal (pass/fail)
This course strictly follows grading policy of the School of Engineering. Thus, a student is normally expected to achieve a mark of at least 60% to pass. In case of failure, he/she will be required to repeat the course the following term or year.</td></tr>
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	▪ **Cheating/plagiarism** Cheating or other plagiarism in handling the assignments, Mid-term and Final Examinations will lead to course failure. In this case, the student will automatically get zero (0), without any considerations. ▪ **Professional behavior guidelines** The students shall behave in a way to create a favorable academic and professional environment during the class hours. ▪ **Attendance** Students who attend the sessions will get 5 marks. For three absence student loses 1 mark. ▪ **Project** A project assignment will be handed to the students. Project will be evaluated according to ability to produce all the required drawings with reasonable accuracy and in accordance with the drawing convention. ▪ **Assignment** There will be a homework assignment for every chapter.

Tentative Schedule

Week	Date/Day (tentative)	Topics	Textbook/Assignments
1		Hand Sketching I	
2		Hand Sketching II	
3		Dimensioning I	
4		Dimensioning I	
5		Views I	
6		Views II	
7		Views III	
8		**Midterm Exam**	
9		SolidWorks Sketching	
10		SolidWorks Solid Modeling	
11		SolidWorks Sheets, Views, and Title Blocks	
12		Tolerances Threads, Fasteners, and Callouts	
13		SolidWorks Advanced Modeling	
14		SolidWorks Assembly Modeling	
15		SolidWorks Equations and Configurations Simple assembly drawing	
16		**Final Exam**	