1. **Course number and name**
   CptS 478: Software Process and Management

2. **Credits and contact hours**
   3 credits, 3 lecture hours

3. **Instructor’s or course coordinator’s name**
   Sakire Arslan Ay

4. **Textbook, title, author, and year**

5. **Specific course information**
   a. **Catalog description:** Software Engineering Process (definition, assessment, and improvement); Software Engineering Management; Software Configuration Management.
   b. **Prerequisites or corequisites:** Cpt S 322 with a C or better; certified major in CptS, CptE, EE, or SE.

6. **Specific goals for the course**
   By the end of the course, students will be able to
   - Define what a software process is.
   - Describe alternative software life cycles models and select the appropriate model for a given software project (1d,1e).
   - Measure and assess a software process (2c, 2d, 2e, 6a, 6b, 6c).
   - Explain fundamental elements of Software Project Management.
   - Estimate software project effort and cost (2b, 2c, 2d, 2e,2f).
   - Identify, analyze, and manage software project risks (1d, 1e, 6a, 6b, 6c, 6d)
   - Execute a software project plan (2g).
   - Describe the processes and procedures involved in software change management.
   - Distinguish between system version and a system release, and be able to explain the stages in the release management process.

7. **Brief list of topics to be covered**
   - Software engineering process
   - Software process life cycles
   - Software process assessment and improvement
   - Software engineering management
   - Software project planning, enactment, evaluation, and closure
   - Software configuration management (SCM)