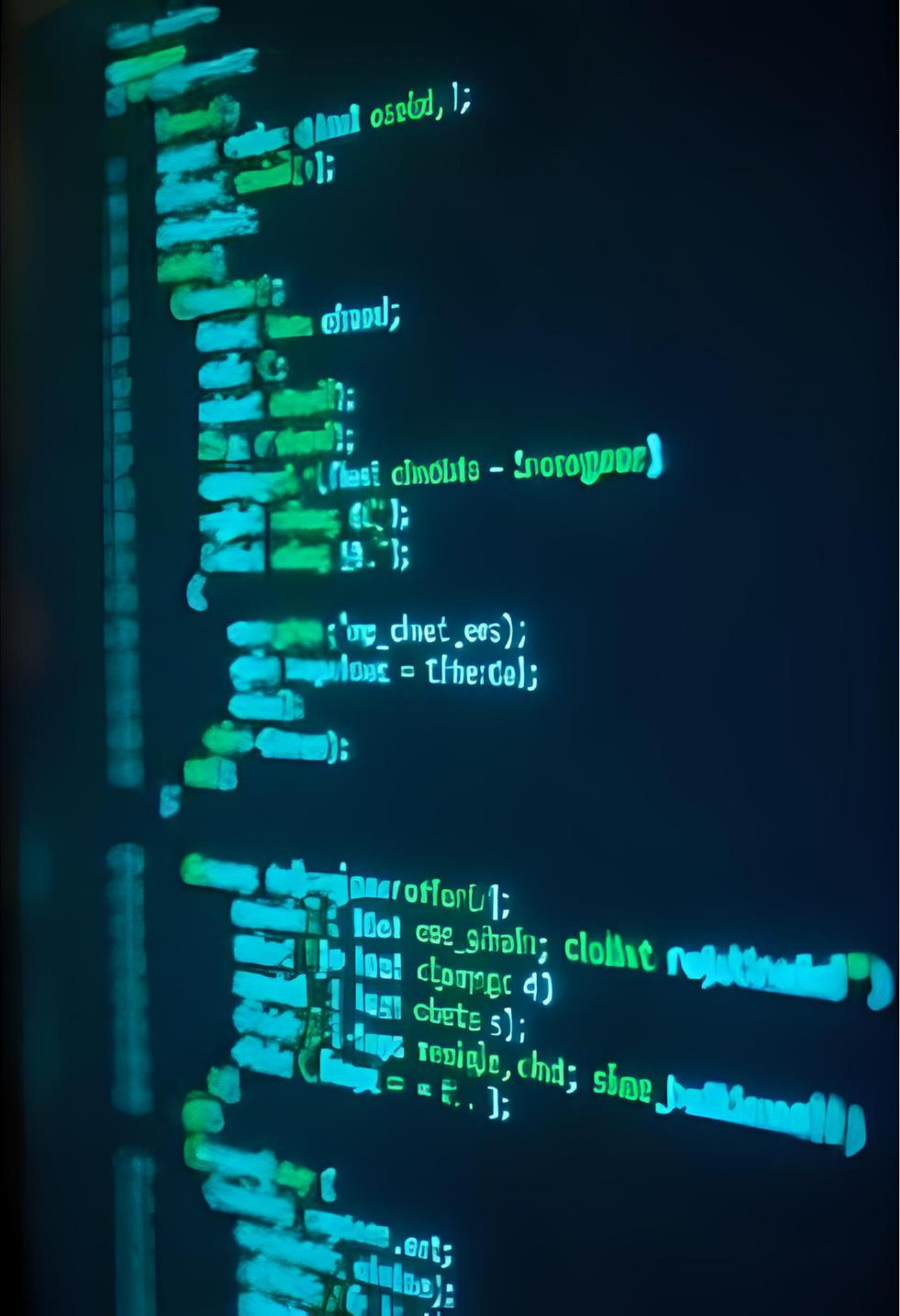


Welcome to Software Quality Assurance!



SE345 Syllabus

Atilim University
Dept of Software Engineering

Asst. Prof. Dr. Aylin AKCA-OKAN



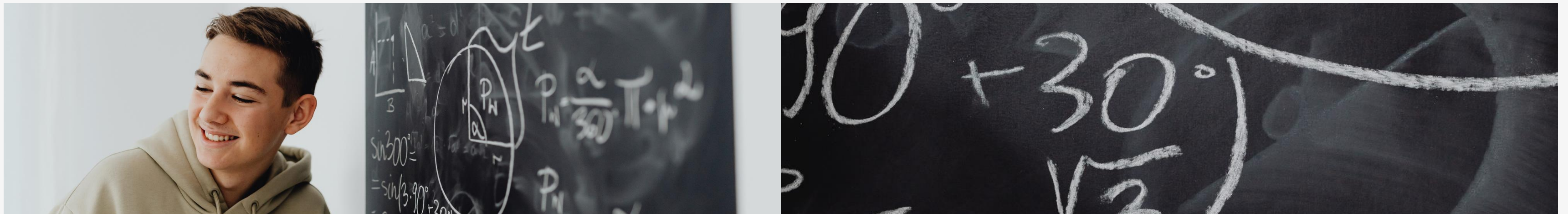
Course Details

2 Sections

Monday **(sec. 2) 09:30 – 12.30**
B1017

(sec. 1) 13:30 – 16.30
B1014

Course Overview



Objective

to provide knowledge and practical applications of concepts of software quality, quality models, standards and methodologies used in software industry.

Prerequisites

SE112
Good command of English

Course Outcomes



Outcome 1

Gaining knowledge in various Software Quality Assurance (SQA) fundamental concepts, definitions, objectives and activities performed during the development and maintenance of software systems



Outcome 2

Discuss software quality assurance system components such as reviewing, configuration process, work instructions and their practical aspects during software development life cycle



Outcome 3

Gaining knowledge in software quality management components such as quality metrics and software quality costs

Tentative Course Schedule

Wk	Subjects	Chapter
1	Introduction to Software Quality and Assurance	Chapter 1
2	Introduction to Software Quality and Assurance	Chapter 1
3	Software Quality Factors	Chapter 3
4	Overview of Components of the SQA System	Chapter 4
5	Overview of Components of the SQA System	Chapter 4
6	Presentation	Chapter 9
7	Midterm	
8	Integrating Quality Activities in Project Life Cycle	Chapter 7
9	Software Quality Metrics	Chapter 21
10	Reviews, Inspection and Audits	Chapter 8
11	Procedures and Work Instructions	Chapter 14
12	In-class Project	
13	Software Change Process	Chapter 18
14	SOA Process Standards	Chapter 23

Required Books and References

- ✓ Software Quality Assurance: From Theory to Implementation by Daniel Galin, Addison-Wesley, 2004
- ✓ Software Quality Concepts and Practice by Daniel Galin, Wiley, 2018
- ✓ Software Quality Engineering: Testing, Quality Assurance, and Quantifiable Improvement by Jeff Tian, Wiley, 2005
- ✓ Software Quality Assurance: A Self-Teaching Introduction by Rajiv Chopra, Mercury Learning, 2018
- ✓ Mastering Software Quality Assurance by Murali Chemuturi, J. Ross Publishing, 2011

Course Evaluation

Project

20%

**Project
Presentation**

15%

**Midterm and Final
Exams**

30%
35%

Course Policies

Attendance

Attend the classes as much as you can. Most of the details, hints and tips will be told there.

Should be >70%!

Communication Mandatories

No talking with each other in the class
Respect all!

Use of Electronic Devices

No mobile or electronic device in the class or in the exam!

Atılım University

Contact Me

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