

Teacher: **Mohsen Ramezani**

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References: Software Engineering: A Practitioner's Approach (**Pressman**)

Projects and Homeworks will be uploaded on the LMS (lms.uok.ac.ir) every Thursday.

Evaluation: 35% final exam+65% projects.

<b>Session No.</b>	<b>week</b>	<b>Topic</b>
<b>Session 1</b>	1	Why Software Project Fails? Introduction to Stockholders and design process.
<b>Session 2</b>	2	Possible Procedures for developing software. From traditional ones to the newest.
<b>Session 3</b>	3	Introduction to different methodologies of software developing.
<b>Session 4</b>	4	Project management and necessary tools.
<b>Session 5</b>	5	Introduction to object oriented based methodologies – Especially RUP
<b>Session 6</b>	6	Introduction to different steps of RUP – documenting different steps
<b>Session 7</b>	7	What are the output and input of each step – how to model data and procedures?
<b>Session 8</b>	8	Introduction to modeling languages- Especially UML.
<b>Session 9</b>	9	How to create package and use-case diagrams? Explanation with some examples
<b>Session 10</b>	10	How to create class and state diagrams? Explanation with some examples
<b>Session 11</b>	11	How to create sequence and activity diagrams? Explanation with some examples
<b>Session 12</b>	12	Using diagrams that are created by different teams to implement a software.
<b>Session 13</b>	13	How software would be tested?
<b>Session 14</b>	14	Presentations
<b>Session 15</b>	15	Overview