

Teacher: **Mohsen Ramezani**

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References: Java tutorial (can be downloaded from the webpage).

Persian reference: "آموزش گام به گام برنامه نویسی به زبان جاوا- جعفر نژاد قمی".

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

Evaluation: **30%** Midtern+**30%** final exam+**40%** projects.

Session No.	Week	Topic
<b>Session 1</b>	1	Introduction to Advanced Programming
<b>Session 2</b>	1	Introduction to Java+Programming with Java
<b>Session 3</b>	2	Variables+Strings in Java
<b>Session 4</b>	2	Relations in Java (computational and ...)+Rings+Conditions
<b>Session 5</b>	3	Functions in Java
<b>Session 6</b>	3	Functions in Java
<b>Session 7</b>	4	Utilizing public variables
<b>Session 8</b>	4	Implementing some sample programs+Mathematical relations
<b>Session 9</b>	5	Introduction to Object Oriented programming
<b>Session 10</b>	5	Implementing sample object-oriented programs
<b>Session 11</b>	6	Object-Oriented+Inheritance
<b>Session 12</b>	6	Implementing educational system
<b>Session 13</b>	7	Implementing educational system (2)
<b>Session 14</b>	7	How to create simple menu for a program+implementing OO program sample
<b>Session 15</b>	8	Introduction to Exceptions+Sample programs
<b>Session 16</b>	8	Exception Handling+Implementing sample programs
<b>Session 17</b>	9	Introduction to Thread+Multi-threading in Java
<b>Session 18</b>	9	Using Multi-threading in java (Sample programs)
<b>Session 19</b>	10	Midterm
<b>Session 20</b>	10	Overview+implementing sample games in java
<b>Session 21</b>	11	Implementing sample games in java using multi-threading
<b>Session 22</b>	11	Introduction to GUI+Java GUI classes+Implementing sample programs using swing class
<b>Session 23</b>	12	Implementing a java GUI form with different GUI elements
<b>Session 24</b>	12	Introduction to Events+Utilizing objects of AWT class in the implemented GUI
<b>Session 25</b>	13	Implementing a graphical stop-watch
<b>Session 26</b>	13	Implementing sample graphical game
<b>Session 27</b>	14	Introduction to I/O in Java+implementing sample program
<b>Session 28</b>	14	Utilizing I/O reader and writer in a before implemented project
<b>Session 29</b>	15	Re-implementing a before implemented game using GUI, Events, and I/O which can be saved and restored several times.
<b>Session 30</b>	15	Overview