

**University of Tripoli**  
**College of Information Technology**

Modern Programming Language  
(Advanced Java)  
(ITSE322)

**GENERAL INFORMATION**

<b>Prerequisite</b>	ITGS211
<b>Prerequisite For</b>	ITSE424, ITSE304, ITSE401
<b>Credit Hours</b>	3 Hrs
<b>Contact Hours</b>	3 hours/week

**CATALOGUE DESCRIPTION**

To enable the students to design and develop enterprise strength distributed and multitier applications – Using Java Technology. A continuation of advanced Java programming techniques such as network programming, advanced graphical functions, JDBC, Swing, JavaBeans, Servlets and JavaServer Pages will be introduced.

**TEXTBOOK/REFERENCES**

David J. Barnes & Michael Kölling. Objects First with Java: A Practical Introduction using BlueJ. Fifth edition, Prentice Hall / Pearson Education, 2012

**COURSE OUTCOMES**

Upon completing this course, students will be able to:

1. Discuss the concepts of advanced Java Programming.
2. Use JDBC to solve database problems.
3. Design and implement GUI applications.
4. Use advanced Data structures.

**TOPICAL OUTLINE**

<b>Week</b>	<b>Topics</b>
<b>1</b>	Java Review
<b>2</b>	Java Collections
<b>3</b>	Threads in Java
<b>4-5</b>	Database Connectivity
<b>6-7</b>	Java GUI
<b>8-9</b>	Networking in Java
<b>10-12</b>	Simple Applications

<b>13-14</b>	Advanced Applications
<b>15</b>	Review
<b>16</b>	Final

### **GRADING**

Coursework	20%
Midterm	30%
Final	50%

### **ACADEMIC INTEGRITY**

Students have the responsibility to know and observe the requirements of the UOT Code of Academic Honesty and the penalties resulting from violation of this code. This code forbids cheating, fabrication or falsification of information, multiple submissions of academic work, plagiarism, abuse of academic materials, and complicity in academic dishonesty.

### **COURSE INSTRUCTOR**

Dr. Harmain, Professor

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