Date:	Examination No.: 15367	Version: 2023	Start: 1/9/2023
Module Name - Code	Advance Computer Programming - 5115		
Module Language:	English		
Responsible:	Dr Polla Fattah		
Lecture (s):	Dr Polla Fattah M Hanan Kamal		
College:	College of Engineering – Salahaddin University		
Duration:	15 week – 1 semester		
Course outcomes:	On successful completion of the module students should be able to demonstrate a hands on understanding of advanced programming topics		
Course Content:	Week 1 Introduction & Refresher of OOP Week 2 Java Functional Programming Week 3 Java Collections Week 4 IO Streams & Error Handling Week 5 Multithreading Week 6 Connecting to Databases Week 7 Networking Week 8 Mid-Term Exam Week 9 Java Annotations Week 10 Maven Week 11 Testing with JUnit Week 12 Java Reflection API Week 13 Design Patterns Week 14 Swing GUI Week 15 Final Examination		
Literature:	• Course handouts. • Deitel, Paul, and Harvey Deitel. Java: How to program. Prentice Hall, 2011.		
Type of Teaching:	2 hrs in lectures 2 hrs laboratory working.		
Pre-requisites:	5112 Object Oriented Programming		
Frequency:	Annually in Fall Semester		
Requirements for credit points:	For the award of credit points it is necessary to pass the module exam. Not attending final exams will result in failure in the subject Active participation in the lab. **Student's attendance is required in all classes. Absence in more than 20% of the classes results in an automatic withdrawal from the subject.**		
Credit point:	5		

Grade Distribution:	The Grade is generated from the examination result(s) with the following 35% Final Theoretical Exam 15% Final Practical Exam 10% Team Project 10% Presentation 30% 4 Practical Implementations
Work load:	26 Hours Theory 20 Hours Practical 60 Home Study 4 Hours Exams 10 Hours Project 20 Exam Preparation