Professional Java Programming Part I  COMP41600

Online Lectures and Laboratory

Summary
Module Code: COMP 41600  Title: Professional Java Programming (Part 1)
Subject Area: Computer Science  Module Co-ordinator: Prof Liam Murphy
School: Computer Science & Informatics
College: Science  Credits: 5

Examination Format
This module is examined by an exam, which is one and a half hours duration. You can attempt
the exam twice and the better score is counted; however you do not have to make a second
attempt if you pass the exam on your first attempt. The conversion of the mark to a grade does
not follow the usual UCD mark conversion that you might be familiar with. In particular the
grading scheme will be (out of 30):

<table>
<thead>
<tr>
<th>Mark</th>
<th>Grade</th>
</tr>
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<tbody>
<tr>
<td>29-30</td>
<td>A+</td>
</tr>
<tr>
<td>27-28</td>
<td>A</td>
</tr>
<tr>
<td>26</td>
<td>A-</td>
</tr>
<tr>
<td>24</td>
<td>B+</td>
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<tr>
<td>23</td>
<td>B</td>
</tr>
<tr>
<td>21</td>
<td>B-</td>
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<tr>
<td>20</td>
<td>C+</td>
</tr>
<tr>
<td>18</td>
<td>C</td>
</tr>
<tr>
<td>17</td>
<td>C-</td>
</tr>
</tbody>
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Workload
Lectures: 20 hours; Self Paced Practical and Laboratory: 45 hours; Autonomous Student
Learning: 55 hours.

Module Description
These modules are aimed at students who are programmers in a non-Java language, to enable
them to become familiar with, and proficient in, Java. The topics will be chosen from the
following areas: Data Types & Operators; Classes, Methods & Interfaces; Java Language
Fundamentals; Object Oriented Programming; Execution Flow Control.

Learning Outcomes
On completion of this module students should be able to:
1. understand the structure and the syntax of the Java programming language;
2. create simple Java applications;
3. have an in-depth detailed knowledge of the Java run time environment.

Prior Learning
Knowledge of a programming language is required to take this module; however the language
does not need to be object-oriented or Java.
Will need access to a computer to undertake the practical elements of the module.
Recommended: Knowledge and practice of a computer programming language.

Assessment Strategy
Examination scored by letter for 100% of grade.
Remediation strategy is a resit exam or repeat of the module, as appropriate.