UNIVERSITY OF MAURITIUS
MODULE SPECIFICATION SHEET

1. GENERAL INFORMATION

Academic Year: 2017-2018
Semester(s): 2

Title	Code	Duration (hrs)	N° of credits
Object Oriented Programming	ICDT 6002	Lectures: 15	2
		Practicals: 30	
		Seminars:	
		Tutorials:	
		Others (Specify):	
		Total: 30 hrs	

2. PRE-REQUISITE(S)/PRE-REQUIREMENT(S)

None.

3. AIMS

The aim of this module is to introduce students to programming methodology and to object-oriented programming concepts. A practical approach will be used to help students understand the different programming concepts using the Java programming language. The module will consist of theoretical and practical lessons on both basic programming constructs and object-oriented programming concepts. Basic programming constructs include control structures, arrays and files. Object-oriented programming concepts include abstraction, encapsulation, inheritance and polymorphism.

4. OUTLINE SYLLABUS

Basic Programming Concepts, Control Structures, Arrays, Files, Object-Oriented Concepts – Objects and Classes, Abstraction, Encapsulation, Inheritance and Polymorphism.

5. LEARNING OUTCOMES

After completing this module students will be able to:

- Understand the basic building blocks of a program
- Write Java programs using keyboard input.
- Write programs with different types of control structures including branching and repetition.
- Appreciate the importance of arrays in programming.
- Write programs that can read from or write data to files.
- Write object-oriented programs along with inheritance.
- Solve real-world problems through Object-Oriented software development;

6. COORDINATORS:

	Module Coordinator	**Programme Coordinator**
Name	Associate Professor Dr Kavi Khedo	Mrs Zahra Mungloo-Dilmohamud
Department	Digital Technologies	Digital Technologies
Building	Phase 2	Phase 2
Room Number	2.21	
Phone No.	403-7400 (Ext: 7750)	7752
E-mail address	k.khedo@uom.ac.mu	z.mungloo@uom.ac.mu
Consultation Time		
Website		

7. LECTURER(S)

Name	Associate Professor Dr Kavi Khedo		
Department	Digital Technologies		
Building	Phase 2		
Room Number	2.21		
Phone No.	403-7400 (Ext: 7750)		
E-mail address	k.khedo@uom.ac.mu		
Contact Hours			
Consultation Time			
Contact Address (For P/T)			

8. VENUE AND HOURS/WEEK

Lab Monday 13:00 – 15:00
Lecture Friday 10:30 – 12:30
Lab Friday 13:00 – 15:00

9. MODULE MAP

Wk(s)	Hr(s) L+P	Theme(s)	Lecture Title(s)	L, P, S, V, T, Test
1	2+4	Programming Methodology	• Basic Programming Concepts	L+P
2	2+4	Programming Methodology	• Basic Programming Concepts & Control Structures	L+P
3	2+4	Programming Methodology	• Control Structures	L+P
4	2+4	Programming Methodology	• Arrays and Files	L+P
5	2+4	OO Concepts	• Fundamentals of Object Technology • Object-Oriented Programming Languages	L+P
6	2+4	OO Programming	• Classes and Objects	L+P
7	2+4	OO Programming	• Inheritance, Polymorphism	L+P
8	1+2	OO Programming	• Abstract Classes and Interfaces	L+P

Abbreviations: L: Lectures, P: Practicals, T: Tutorials, V: Visits, S: Seminars

10. RECOMMENDED BOOKS/JOURNALS/WEBSITES

1. Introduction to Programming in Java by Robert Sedgewick.
2. Java How to Program" by Deitel, 9th Edition, Prentice Hall
3. Thinking in Java 4th Edition Electronic Version (eBook)

11. ESSAY(S)/ASSIGNMENT(S)/PRACTICAL(S)

(i) **Written Examination**

Paper Duration:	2 hrs
Weighting (%):	70%

(ii) **Continuous Assessment**

	Weighting (%)
Practical Test/Assignment	15%
Written Test	15%
Weighting (%):	30%