

## Module Scheme

Module Name:	Programming Concepts		
Module Code:	CO452	Academic Year:	2018-19
Tutor(s):	Richard Jones, Nick Day, Carlo Lusuardi		
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### Learning Outcomes:

On successful completion of the module, the student will be able to:

1. Analyse a simple requirement in a structured manner in order to establish a strategy to solve the current problem
2. Design, document, implement and test reliable, maintainable programs as solutions to simple problems
3. Use structured techniques of design and implementation and good documentation practice
4. Make effective use of software development tools when implementing fit-for-purpose solutions

### Assessment Summary:

<u>Assessment Task</u>	<u>Key Dates</u>	
CW Part 1 (Ceebot weeks 1-3)	Submission:	Week 5 (29 <sup>th</sup> Oct 2018)
	Feedback due:	Week 8 (23 <sup>rd</sup> Nov 2018)
CW Part 2 (Ceebot weeks 5-8)	Submission:	Week 10 (3 <sup>rd</sup> Dec 2018)
	Feedback due:	Week 16 (14 <sup>th</sup> Jan 2019)
CW Part 3 (C# weeks 10-12)	Submission:	Week 17 (21 <sup>st</sup> Jan 2019)
	Feedback due:	Week 20 (11 <sup>th</sup> Feb 2019)

Week by Week Guide:	
Week 1: beginning 01/10/2018	Ceebot 1 – Introduction to Ceebot, Variables, Input and Output
Week 2: beginning 08/10/2018	Ceebot 2 – Iteration
Week 3: beginning 15/10/2018	Ceebot 3 – Selection
Week 4: beginning 22/10/2018	<b>Workshop week</b>
Week 5: beginning 29/10/2018	Ceebot 4 – Functions [Submission of CW Part A on Tuesday 30 <sup>th</sup> October 2018]
Week 6: beginning 05/11/2018	Ceebot 5 – Parameter passing
Week 7: beginning 12/11/2018	Ceebot 6 - Arrays
Week 8: beginning 19/11/2018	Ceebot 7 – Ceebot Project
Week 9: beginning 26/11/2018	<b>Workshop week</b>
Week 10: beginning 03/10/2018	C# Console 1 - Input and Output [Submission of CW Part B on Tuesday 4 <sup>th</sup> November 2018]
Week 11: beginning 10/12/2018	C# Console 2 - Sequence, Selection, Iteration
Week 12: beginning 17/12/2018	C# Console 3 - Classes, Objects, and Methods
<b>Weeks 13,14,15</b>	<b>CHRISTMAS VACATION</b>
Week 16: beginning 14/01/2019	<b>Workshop week</b>
Week 17: beginning 21/01/2019	[Submission of CW Part C on Tuesday 22 <sup>nd</sup> January 2019]

Core Text(s):

Students are not required to have a specific programming book for this module, as we will be teaching from our own materials in class. However, if students should want to read further or are looking for books to help their understanding, we recommend:

Iducate Learning Technologies (2011). *Beginning C# programming* (First Edition); CreateSpace

Bradley JC and Millspaugh A (2009). *Programming in Visual C#* (Third Edition); McGraw-Hill

Anderson, T (2004). *C# in easy steps* (First Edition); In Easy Steps Limited

Deitel P and Deitel H (2013). *Visual C# 2012 How to Program* (Fifth Edition); Prentice Hall