

COURSE CODE BAC.EAINA.ISCSE.1500	COURSE NAME Introduction to computer science and programming		
Credits	US Credits 3 / ECTS Credits 6		
Student Workload	Contact Hours	Personal and/or Teamwork	Evaluation
	39	120	6
Teaching Language	English		
Co/Prerequisite	None		
Discipline	Business Analytics, Data Science & AI		
Course Manager	Yan Grasselli - yan.grasselli@skema.edu		
Course Description	<p><i>This course is intended for students with little or no programming experience. It aims at providing students with an understanding of the role played by computation and programming in solving problems in business and management. The course will also help students to learn how to write small programs that allow them to accomplish useful goals.</i></p> <p><i>Python will be used as programming language</i></p>		
Learning Outcomes	<p><i>Knowledge and Understanding (subject specific) - The student is expected to:</i></p> <p>To understanding of the role played by computation and programming in solving problems in business and management</p> <p><i>Cognitive / Intellectual Skills (generic) - The student is expected to:</i></p> <p>Proble ; solving</p> <p><i>Key Transferable Skills (generic) The student is expected to:</i></p> <p><i>Enter 2-3 expected learning outcomes</i></p> <p><i>Practical Skills (subject specific)</i></p> <p>To be able to write small programs. Understand on how to use Python</p>		
Course included in AACSB Assurance of Learning	No Click or tap here to enter text.		
Transferable Competences	<input type="checkbox"/> Sustainability <input type="checkbox"/> Ethics <input checked="" type="checkbox"/> Artificial Intelligence <input checked="" type="checkbox"/> Technological Agility <input type="checkbox"/> Communication <input type="checkbox"/> Research Methods <input type="checkbox"/> Other	Please include details here:	
Teaching Methods	<input checked="" type="checkbox"/> Lectures <input type="checkbox"/> Blended Learning <input type="checkbox"/> Guided Personal Work <input type="checkbox"/> Autonomous Personal Work <input type="checkbox"/> Case Study <input checked="" type="checkbox"/> Project <input type="checkbox"/> Seminar <input type="checkbox"/> Other <i>Please specify</i>		

Student Assessment	Written Examination Final exam Midterms (2)	Coefficient % 40% 40% (2x20%)
	Continuous Assessment: Labs	Coefficient % 20%
Grading System	Please refer to the Academic Regulations for the grading system used in the BBA Program and further details and for information concerning absences, participation in class, plagiarism, etc.	
References / Books	<p style="text-align: center;">Required for the course</p> <p style="text-align: center;"><i>Enter a brief reference to any required reading</i></p>	<p style="text-align: center;">Recommended references</p> <p>1. Gutttag, John. Introduction to Computation and Programming Using Python. MIT Press, 2013. ISBN: 9780262519632.</p>
Online reference material	<p style="text-align: center;">Required for the course</p> <p style="text-align: center;"><i>List any required online resources here</i></p>	<p style="text-align: center;">Recommended references</p> <p style="text-align: center;"><i>List any recommended online resources here</i></p>
<b>COURSE CONTENT</b>		
<b>Session:</b>	<b>Contents:</b>	
<b>1</b>	Basic Concept: Computer Architecture; The Notion of Computation and Algorithm Introduction to programming languages, different kind of languages History of programming Why and how to use Python Basic program structure Using variables, arithmetic expressions	
<b>2</b>	If statement While loop Lab	
<b>3</b>	Control structure Lists For loop Lab	
<b>4</b>	Functions and recursion	

	Passing parameters Decomposition and abstraction Dealing with Strings
5	Dictionaries Sets Lab
6	Exception handling How to catch exceptions Lab
7	File handling Lab
8	Classes in Python Creating classes, inheritance, polymorphism Exception Classes
9	Introduction to Pandas Lab
10	Review