# 12SDD 2020 | Stage 6 | 2020

# Term 1 - 9 weeks 3 days

Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9	Week 10 (Only 3 days)		
Algorithms and Co	ding	Database project									
algorithms and cod	op skills in algorithm de covering all the co ed in the Course Spe	Students will use a structured approach and the procedural (imperitive+modular) paradigm to develop a database solution in python.  Scenario: A music streaming company has hired									
								you to develop a database for storing their music catalogue and client playlists. The data stored should be stored as a json.			
							This is a group project and students should use pair programming.				

# Term 2 - 10 weeks 2 days

Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9	Week10	Week 11 (Only 2 days)		
Database project					Consultant Scenario							
	structured approach		(imperitive+modula	r) paradigm to	Sudents will prepare a consultant report for a new IT system based on a client scenario							
develop a databas	develop a database solution in python.					Students:						
	streaming company l nt playlists. The data			toring their music	<ul> <li>evaluate different off-the-shelf cyber security products and produce a short list of 2 products indicating why those products would be most appropriate for their business</li> </ul>							
This is a group pro	ject and students sho	ould use <u>pair progra</u>	mming.		• evaluate suitable development approaches for each element of the new IT system							
					<ul> <li>evaluate different languages which would be suitable for the development of each element of the new IT system</li> </ul>							
					• evaluate legal, s	ocial and ethical issu	es that may arise as	a result of implemen	nting the new IT syste	em		
					<ul> <li>recommend the composition of the team needed to develop the new system.</li> </ul>							

# Term 3 - 9 weeks 4 days

Week1 Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9	Week 10 (Only 4 days)		
Game Project	New Language	New Language Project								
Students will develop an individual sof The Software solution will comprise:  A working program and associated of  An project brief for the client  A user manual including:  Evidence of project planning and ver  Intrinsic documentation	code which <i>demor</i>	nstrates a modular ap	,	nted paradigm, base	d on a client-deve	loper scenario:	their own exec based on the p Course Specifi then write a sir	in groups create utable language, seudocode in the cations. They will nple executable emonstrate their		

# Term 4 - 9 weeks 4 days

Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9	Week 10 (Only 4 days)		
New Language Project		Logic project				Revision					
		a									
Students work in groups create their own executable language, based on the pseudocode in the Course Specifications. They will then write a simple executable program do demonstrate their language.		Students will create	e a simple puzzle bas	ed 'game' using pro	log.						