

**Varsity College**  
**Year 11 Digital Solutions**

**Term 1, 2023**

Week	Date	Topics	Assessment
1	23-27 January Australia Day PH - Thurs	Python fundamentals and Core Python structures	
2	30 Jan – 3 Feb Swimming Carnival - Mon	Introduction to Mind Maps and Python lists	
3	6-10 February	Developing basic algorithms	
4	13-17 February	Classes and Modular programming	
5	20-24 February	Data Flow Diagrams and Wireframes	
6	27 Feb – 3 Mar	Pseudocode to represent algorithms	<b>FA1 Draft Due</b>
7	6-10 March GIPSA - Wednesday	Generate Code and Assessment	
8	13-17 March	Generate Code and Assessment	<b>FA1 Submission</b>
9	20-24 March	Assessment review and analysis	
10	27-31 March Cross Country - Thurs	<b>Exam Block</b>	
<b>School Holidays: Saturday April 1 – Sunday April 16</b>			

**Term 2, 2023**

Week	Date	Topics	Assessment
1	17-21 April Athletics Carnival - Wednesday	Introduction to the Qt libraries for Gui programming	
2	24-28 April ANZAC Day PH - Tues	Building a Graphical User Interface with QtDesigner widgets	
3	1-5 May Labour Day PH - Monday GIPSA - Wednesday	Signals and Slots for interactive events	
4	8-12 May	Stacked widgets, Layout managers, sliders and combo boxes	
5	15-19 May GIPSA - Wednesday	Usability principles and effective design	
6	22-26 May GIPSA - Wednesday	Generate Code and Assessment	<b>FA2 Draft Due</b>
7	29 May – 2 June	Generate Code and Assessment	
8	5-9 June Exam Block – Tuesday L1,2 GIPSA - Wednesday	Generate Code and Assessment	<b>FA2 Submission</b>
9	12-16 June	Assessment review and analysis	
10	19-23 June	<b>Exam Block</b>	
<b>School Holidays: Saturday June 24 – Sunday July 9</b>			

### Term 3, 2023

Week	Date	Topics	Assessment
1	10-14 July	Data file formats and Data storage	
2	17-21 July	Developing Entity Relationship Diagrams	
3	24-28 July	Conversion of ERD to conceptual schema / Relational database data types	
4	31 July – 4 August	Normalisation to 3 <sup>rd</sup> normal form	
5	7-11 August	Structured Query language and concrete schema	
6	14-18 August	Generate Code, SQL and Assessment	FA3 Draft Due
7	21-25 August	Generate Code, SQL and Assessment	
8	28 August – 1 Sept.	Generate Code, SQL and Assessment	FA3 Submission
9	4-8 September	Assessment review and analysis	
10	11-15 September	Exam Block	
School Holidays: Saturday September 16 – Monday October 2			

### Term 4, 2023

Week	Date	Topics	Assessment
1	2-6 October King's Birthday PH - Mon	Mind Maps, Self-determined and Prescribed Criteria	
2	9-13 October	Analysis of tools and language. ERD development and conversion	
3	16-20 October	Development and Analysis of Concrete Schema	
4	23-27 October	Data Dictionaries, Pseudocode and Dataflow diagram	
5	30 Oct – 3 Nov	Generate the low-fidelity prototype	
6	6-10 November	Evaluation, refinements and generate video presentation	IA1 Draft
7	13-17 November	Submission of Internal Assessment 1	IA1 Final
8	20-24 November	Exam Block	
School Holidays: Saturday November 25 – Sunday January 21, 2024			