

Year 11 Digital Solutions

Work rate calendar (WRC) 2024

Term 1

All students are expected to participate in all online lessons and complete all assessment as outlined in this **Work rate calendar**.

Teachers may adjust topics, class work, assessment and submission dates. Adjustments will be communicated via QLearn or during lessons.

Assessment				
Supervised assessment		Summative exams are to be supervised by the student's official exam supervisor.		
Non-supervised assessment		Students must sign declaration of academic integrity.		
Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	22 Jan – 26 Jan	Unit 1: Creating with code	Monday 22 January — Welcome calls for students: Prep – Year 12	Class Activities
			Wednesday 24 January — Learning for success: Prep – Year 12	Ex 1, Task 1
			Friday 26 January — Australia Day Holiday	HW: GL Intro to Python 1.1
			Specialist Thinking Required	
			What is Digital Solutions?	
			Computational and Systems Thinking	
2	29 Jan – 2 Feb		Identifying Requirements and Criteria	Class Activities
			Functional and Non-Functional Requirements	Task 2, Task 3
			Defining and prioritising criteria	HW: GL Intro to Python 1.2
			Mind Mapping	
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12	Class Activities
			Systems Modelling	Ex 2, Task 4, Ex 3
			Use Case Diagram	HW: GL Intro to Py 1.3
			Activity Diagram	
4	12 Feb – 16 Feb		Systems Modelling	Class Activities
			Activity Diagram	Task 5, Ex 4, Task 6
			Class Diagram	HW: GL Intro to Py 1.4
				FA1 Checkpoint 1
				Submit Tasks 1-6
5	19 Feb – 23 Feb		User Experience and Interfaces	Class Activities
			Usability Principles	Ex 5, Task 7, Ex 6
			Elements and Principles of Visual Communication	HW: GL Intro to Py 1.5
			Wireframe Sketching	
6	26 Feb – 1 Mar		Activity Flow to Algorithms	Class Activities
			Algorithmic Constructs	Task 8, Ex 7, Ex 8,
			Pseudocode	HW: GL Intro to Py 1.6
7	4 Mar – 8 Mar		Algorithms to Code	Class Activities
			Coding Constructs	Task 9, Ex 9, Task 10
				HW: GL Intro to Py 1.7
8	11 Mar – 15 Mar		Communicating Digital Solutions	Class Activities
			Communicating the EDGE process	Task 11, Ex 10, Ex 11
			Annotating for Synthesis	FA1 Checkpoint 2
			Setting up the Coding Environment	Submit Task 11
				HW: GL Intro to Py 1.8
9	18 Mar – 22 Mar		Exams: Year 11	Class Activities
			Monday 18 March – Friday 22 March	HW: GL Intro to Py 2.1
			Coding Algorithms	
			Object Libraries, Algorithm Coding	
10	25 Mar – 29 Mar		Thursday 28 March — Cross country / Fun run: Prep – Year 12	Class Activities
			Friday 29 March — Good Friday	Exercises 12, 13, 14
			Coding Interfaces	HW: GL Intro to Py 2.2
			Kivy: app setup, adding UI elements, transitioning between interfaces	

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Term 2

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Assessment

Supervised assessment Summative exams are to be supervised by the student's official exam supervisor.

Non-supervised assessment Students must sign declaration of academic integrity.

Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	15 Apr – 19 Apr	Unit 1: Creating with Code	Coding in Python Connecting Interface and Algorithms Assessment Project Coding	Class Activities Ex 15, Ex 16, Task 12 <i>HW: GL Intro to Py 2.3</i>
2	22 Apr – 26 Apr		Thursday 25 April — Anzac Day Coding in Python Connecting Interface and Algorithms Assessment Project Coding	Class Activities Task 12, Task 13 <i>HW: GL Intro to Py 2.4</i>
3	29 Apr – 3 May		Coding in Python Connecting Interface and Algorithms Assessment Project Coding	Class Activities Task 13 <i>HW: GL Intro to Py 2.5</i>
4	6 May – 10 May		Monday 6 May — Labour Day Evaluating Digital Solutions Prototype Testing Criteria Evaluation Identifying Recommendations for Improvement	Class Activities Task 14, Task 15 FA1 Draft Due Submit Task 15 <i>HW: GL Intro to Py 2.6</i>
5	13 May – 17 May		Refining Digital Solutions Editing Drafts Applying Feedback	Class Activities Edit Task 15 FA1 Final Due Submit Updated Task 15 <i>HW: GL Intro to Py 2.7</i>
6	20 May – 24 May	Unit 2: Applications and Data Solutions	Data Considerations Introduction to Databases, Data Management and Criteria Problem Decomposition, Mind Mapping Symbolisation	Class Activities Tasks 1, 2, 3 <i>HW: GL Intro to Py 2.8</i>
7	27 May – 31 May		Systems Modelling Use Case Diagram Activity Diagram	Class Activities Tasks 4, 5
8	3 Jun – 7 Jun		Systems Modelling Data Flow Diagram Class Diagram	Class Activities Exercise 1, Tasks 6, 7 FA2 Checkpoint 1 Submit A3 doc. showing Tasks 1-7
9	10 Jun – 14 Jun		Monday 10 June – Thursday 13 June — School camp: Year 11 Data Interface Design Review UI/UX concepts User Interface Mock-ups	Class Activities Task 8
10	17 Jun – 21 Jun		Friday 21 June — Athletics carnival / Sports day: Prep – Year 12 Data Algorithms Activity Diagram to Pseudocode Data Flow Diagram to Pseudocode	Class Activities Task 9

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Term 3

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Assessment				
Supervised assessment		Summative exams are to be supervised by the student's official exam supervisor.		
Non-supervised assessment		Students must sign declaration of academic integrity.		
Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	8 Jul – 12 Jul	Unit 2: Applications and Data Solutions	Class Diagram to ERD Normalisation Entity Relationship Diagrams	Class Activities Exercise 2 Task 10
2	15 Jul – 19 Jul		SQL Databases SQL CREATE, INSERT, UPDATE, DELETE	Class Activities Exercise 3 Task 11
3	22 Jul – 26 Jul		SQL Queries SQL SELECT, WHERE, GROUP BY Table joins and subqueries	Class Activities Exercise 4 Task 12 HW: GL SQL 1
4	29 Jul – 2 Aug		Prototype Generation Algorithm Coding in Python Interface Coding in Python	Class Activities Task 13 HW: GL SQL 2
5	5 Aug – 9 Aug		Prototype Generation Algorithm Coding in Python Interface Coding in Python	Class Activities Task 13 HW: GL SQL 3 FA2 Checkpoint 2 Submit A3 pages for Tasks 1-12
6	12 Aug – 16 Aug		Wednesday 14 August — Royal Queensland (Ekka) Show Holiday Prototype Generation Connecting SQLite Database in Python	Class Activities Ex 5, Task 13 (cont) HW: GL SQL 4
7	19 Aug – 23 Aug		Prototype Generation Demonstrating Prototype Functionality	Class Activities Task 14 HW: GL SQL 5
8	26 Aug – 30 Aug		Friday 30 August — Student free day Evaluating Data-Driven Solutions Evaluating Objective and Subjective Data Justifying Recommendations	Class Activities Task 15 FA2 Draft Submit full draft (document and video)
9	2 Sept – 6 Sept		FA2 Applying Draft Feedback	
10	9 Sept – 13 Sept		Exams: Year 11 Monday 9 September – Thursday 12 September Friday 13 September — Connect excursion: Years 10–12 FA2 Applying Draft Feedback	FA2 Final Submit final document, video and transcript

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Term 4

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Assessment				
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Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	30 Sept – 4 Oct	Unit 3: Digital Innovation	Innovative Digital Solutions Innovation Exploring Digital Problems Evaluating Existing Solutions	
2	7 Oct – 11 Oct		Monday 7 October — King's Birthday Holiday Developing Innovative Digital Solutions User Stories Proto-personas	IA1 Checkpoint 1 Submit Problem Exploration
3	14 Oct – 18 Oct		Developing Innovative Digital Solutions Data Stories Data Analysis	
4	21 Oct – 25 Oct		Generatng Innovative Digital Solutions Low Fidelity Prototypes Algorithms Revision	IA1 Checkpoint 2 Submit Problem Exploration, User Story, Data Story
5	28 Oct – 1 Nov		Communicating Innovative Digital Solutions Technical Proposals	
6	4 Nov – 8 Nov		IA1 Recording Technical Proposal Presentation	IA1 Draft Recorded Technical Proposal Presentation
7	11 Nov – 15 Nov		IA1 Applying draft feedback	
8	18 Nov – 22 Nov		Exams: Year 11 Monday 18 November – Friday 22 November Friday 22 November — Aquatic carnival: Prep – Year 11 Friday 22 November — Final day: Years 10–11 IA1 Applying draft feedback - offline	IA1 Final Recorded Technical Proposal Presentation with Transcript