

**Requirements**This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No requirements listed

# PROG: User Interface Programming

University					
Module Title:		User Interface Programming			
Language of Instruction:		English			
Credits:	10				
NFQ Level:	6				
Module Delivered In		3 programme(s)			
Teaching & Learning Strategies:		A highly practical course - students will build their toolbox of elements for creating UIs through worked examples, short explanations, practical exercises, and each term applying all the skills they have learned on one large authentic project.			
Module Aim	:	Learn how to implement a broad range of easy to use, easy to learn user interfaces			
Learning Ou	utcomes				
On successf	ul completion of t	his module the learner should be able to:			
LO1	Implement standard and custom UI components				
LO2	Create a fully operational interface from a mockup, video, or specification document				
LO3	Test an interface with users and modify it to address issues that arise				
Pre-requisit	e learning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recomme	endations listed				
Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.					
No incompatible modules listed					
Co-requisite Modules					
No Co-requis	No Co-requisite modules listed				



## **PROG: User Interface Programming**

## **Module Content & Assessment**

### **Indicative Content**

Standard components such as: alerts, buttons, button groups, carousel, date picker, dropdown, form, labels, list, modal, nav bars, pop over, progress bar, sortable list, tables, text box (with prediction); custom components; combining components into larger designs

Layout: grid systems, the box model, positioning elements, margins, padding, borders, styles (e.g. rounded corners, drop shadows), typography

Transforms, transitions (e.g. slide in, hinge in, scale in), easing, keyframes.

**Different target platforms**Designing and developing UIs for different target platforms web, mobile, and desktop

**Audio** Audio interfaces, playing sounds, voice input

Implementing different interaction approaches using mouse, keyboard, touch, gestures, voice

### **UI frameworks**

Detailed analysis and comparison of the most used frameworks; the merits of not using a framework

Assessment Breakdown	%
Project	50.00%
Practical	50.00%

No Continuous Assessment

Project				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Project	Project 1: an authentic UI project involving iterations of design, development, and user testing, applying most of the skills learned in the first term.	1,2,3	25.00	Week 8
Project	Project 2: an authentic UI project involving iterations of design, development, and user testing, applying most of the skills learned in the full course. This is a cross module project.	1,2,3	25.00	Week 13

Practical				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Practical labs involving practising UI skills in preparation for the authentic projects	1,2,3	50.00	n/a

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



# PROG: User Interface Programming

## Module Workload

Workload: Full Time			
Workload Type	Frequency	Average Weekly Learner Workload	
Practicals	12 Weeks per Stage	6.00	
Lecture	12 Weeks per Stage	1.00	
Tutorial	12 Weeks per Stage	1.00	
Estimated Learner Hours	15 Weeks per Stage	10.27	
	Total Hours	250.00	

## Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_KCCGD_B	Bachelor of Science (Honours) in Computer Games Development	3	Mandatory
CW_KCIAD_B	Bachelor of Science (Honours) in Computing in Interactive Digital Art and Design	3	Mandatory
CW_KCIAD_D	Bachelor of Science in Computing in Interactive Digital Art and Design	3	Mandatory