

# ZPRG H2202: User Interface Programming

University				
Module Title:		User Interface Programming		
Language of Instruction:		English		
Credits:	Credits: 10			
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NFQ Level:	NFQ Level: 6			
Module Deliv	vered In	No Programmes		
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 elarge authentic project.	n	
Module Aim:	:	Learn how to implement a broad range of easy to use, easy to learn user interfaces		
Learning Ou	tcomes			
On successfu	I completion	of this module the learner should be able to:		
LO1	1 Implement standard and custom UI components			
LO2	Create a fully operational interface from a mockup, video, or specification document			
LO3	D3 Test an interface with users and modify it to address issues that arise			
LO4	.04 Evaluate a UI framework for use in a given project			
Pre-requisite	elearning			
	<i>Module Recommendations</i> This is prior learning (or a practical skill) that is recommended before enrolment in this module.			
No recomme	ndations liste	d		
	Incompatible Modules These are modules which have learning outcomes that are too similar to the learning outcomes of this module.			
No incompati	No incompatible modules listed			
Co-requisite Modules				
No Co-requisite modules listed				
	<b>Requirements</b> This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.			
No requireme	No requirements listed			
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### **Module Content & Assessment**

### Indicative Content

### **UI Components**

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 and style

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

### Animation

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

### interaction

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	%
Continuous Assessment	20.00%
Project	50.00%
Practical	30.00%

### **Continuous Assessment** Assessment Assessment Description Outcome % of Assessment Туре addressed total Date Examination A set of class exams, largely testing the theoretical aspects of the 1,2,3,4 20.00 n/a module.

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	End-of- Semester
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.	1,2,3,4	25.00	End-of- Semester

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	1,2,3,4	30.00	n/a

No End of Module Formal Examination

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



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# Module Workload

Workload: Full Time		
Workload Type	Frequency	Average Weekly Learner Workload
Practicals	Every Week	4.00
Independent Learning	Every Week	2.50
	Total Hours	6.50

Discussion Note:	TEST
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