GMIT
INSTITIÚID TEICNEOLAÍOCHTA NA GAILLIMHE-MAIGH EO
GALWAY-MAYO INSTITUTE OF TECHNOLOGY

TECH07038
Dynamic Web Development

Full Title	Dynamic Web Development

Status	Uploaded to Banner	**Start Term**	2018
NFQ Level	07	**ECTS Credits**	05
Module Code	TECH07038	**Duration**	Semester - (13 Weeks)
Grading Mode		**Department**	Business
Module Author	Eamon Walsh		

Module Description

This is a Web Development course that builds on existing knowledge of HTML and CSS to make websites more interactive. It is a practical module concerned with teaching basic web skills, particularly those looked for in industry and technologies relevant for project work

	Learning Outcomes ***On completion of this module the learner will/should be able to;***
1.	Develop client-side interactive websites
2.	Demonstrate proficiency with a scripting language
3.	Articulate and demonstrate the fundamentals of computer programming
4.	Synthesise the learning from this module with other IT modules

Indicative Syllabus

Programming

- Reading documentation
- Statements
- Comments
- Storing information in variables
- Conditional Logic
- Iteration / Loops
- Functions
- Arrays

Scripting

- Introduction to client-side scripting
- Arithmetic and Logical operators
- Working with strings
- Regular expressions
- Objects and methods
- Event handling
- Interacting with forms

Development environments

- Programming text editors
- Integrated Develpment environments
- Distributed version control software

Testing and Troubleshooting

- Introduction to the Browser developer tools
- Testing and debugging techniques

Teaching and Learning Strategy

Practice driven teaching approach.

Students will have the opportunity to explore different problem solving approaches using their programming language skills and to reflect on and refine their approaches.

Assessment Strategy

Continuous Assessment: 100%

Students are regularly required to undertake tasks in-class to demonstrate their knowledge of the programming language and an individual project is to be completed before end of term.

Repeat Assessment Strategies

The repeat exam will be a lab-based exam - 2 hours

Coursework & Continuous Assessment:			**100 %**		
Type	***Form***	**Failed Element**	***Percent***	***Week (Indicative)***	***Learning Outcomes***
Continuous Assessment	Assessment	No	50 %	OnGoing	1,2,3
Continuous Assessment	Project	No	50 %	Week 12	1,2,3,4

Full Time Average Weekly Workload:			**3.00 Hours**		
Type	***Location***	***Description***	***Hours***	***Frequency***	***Weekly Avg***
Lecture	Lecture Theatre	Lecture	1	Weekly	1.00
Practical	Computer Laboratory	Lab Practical	2	Weekly	2.00

Non ISBN Literary Resources

Flanagan, D., (2011), “JavaScript: The Definitive Guide: Activate Your Web Pages (Definitive Guides)”, O'Reilly Media; 6th edition

Ducket, J., (2014), “JavaScript & jQuery: Interactive Front-End Web Development”, Wiley; 1 edition

Online Resources

www.codeacademy.com

developer.mozilla.org

www.w3schools.com

Other Resources

Moodle class notes

Programme Membership

GA_BBISG_B07 201800 Bachelor of Science in Business Information Systems
GA_BBISG_H08 201800 Bachelor of Science (Honours) in Business Information Systems
GA_KBUSI_H08 201900 Bachelor of Science (Honours) in Business Information Systems
GA_KBUSI_B07 201900 Bachelor of Science in Business Information Systems