

FIN535 Modern Javascript Programming

Level: 5

Credit Units: 2.5 Credit Units

Language: ENGLISH

Presentation Pattern: EVERY JAN

Synopsis:

Javascript is an object-oriented programming language that is generally used to implement complex and feature-rich functionalities for web-browser applications. It is also widely used to create server-side application via the Node.js runtime environment. FIN535 Modern Javascript Programming aims to develop the skills of programmers and non-programmers alike in this current most popular language in the world. The version of Javascript used in this course will be based on the latest ECMAScript specification 6 (ES6) and the course will introduce commonly used features, tools and development techniques of Javascript. Students will be equipped with the knowledge to apply Javascript for real-world applications development at the end of the course.

Topics:

- Javascript Language Construct
- Functions and Objects
- JSON
- Error Handling
- DOM manipulation
- Asynchronous Programming and Events
- Exercise: Displaying COVID-19 statistics using Javascript and public API
- Exercise: Build a simple chat application using Javascript and Node.JS

Learning Outcome:

- Assess the features of Javascript language
- Evaluate how Javascript can be used for front-end and back-end application development
- Design and develop browser-based applications using Javascript
- Create and make external API calls using Javascript application
- Develop server-side applications using Node.JS

Assessment Strategies (Evening Class):

Components	Description	Weightage Allocation (%)
Overall Continuous Assessment	GROUP BASED ASSIGNMENT 1	40
	PARTICIPATION 1	10
Overall Examinable Components	ECA	50
Total		100

