

ITU ACM JS to NodeJS Mufredat

Week 1:

Topics:

- Development Environment Setup
- Variables
- Primitive Data Types
- Control Flow
- Function Declaration and Usage

Example Project:

- Writing and analyzing simple programs printing patterns with '*' stars

Week 2:

Topics:

- Objects and Arrays in Depth
- Pass by Reference vs Pass by Copy
- JSON
- Brief touch on garbage collector

Example Project:

- Exploring issue data of apache foundations jira boards

Week 3:

Topics:

- Map, Filter, Reduce
- Arrow Functions
- Storing Functions in Variables

Example Project:

- Analyzing previous data set in order to create useful statistics

Week 4:

Topics:

- Promises
- Async / Await

Example Project:

- Examples on browser

Week 5:

Topics:

- ES6 Classes
- Prototype Inheritance

Example Project:

- Creating an async image loader class

Week 6:

Topics:

- Introduction to NodeJS
- Buffers, streams etc.
- File IO

Example Project:

- Creating a simple http server without external libraries