# COMP 3012 Back-End Web Development with Node.js

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| Take-home Assignment | 4 |

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

BCIT ID: A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Exercise Objective:

The purpose of this assignment is to practice the concepts and skills which are covered till Week 10.

You need to submit a zip file for Task 1, along with a Word/PDF file for Task 2 & 3.

Task 1: Make a Node/Express.js project

Requirements:

1. Listen to port 8081
2. Home Page: to show a table of all the courses you took from last term and are taking in this term, with details:
   1. Course number
   2. Course name
   3. Description
   4. Credits
   5. Pre-requisites
3. Information should be loaded by your .js file from MongoDB at server side
4. Using TypeScript to define a type for course
5. Your zip file should include both of .ts file and .js file
6. Your zip file should not include node\_modules folder(otherwise, you will lose 10%)

Task 2: Explain what ES6 features you used in this application, along with your code snippets

Note: let, const and arrow functions will not count for this assignment

Task 3: Code snippets to show your:

* Type definition with TypeScript
* Loading data to database
* Reading data from database