



for Vocational Education - للتعليم المهني

# Pearson BTEC Level 5 Higher National Diploma in Computing

## SOFTWARE ENGINEERING هندسة البرمجيات

### PROGRAM OUTLINE

Students will gain proficiency in applying interdisciplinary knowledge across various scientific fields as the demand for software developers is high globally, spanning nearly every industry.

The Software Engineering program cultivates expertise in software design, development, and the creation of computer systems and applications. It encompasses a diverse set of competencies such as programming, requirement analysis, and database development.

### ENTRY REQUIREMENTS



#### Academic Requirement

- Grade 12 Highschool Certificate with Pass Grade or Level 3 Vocational qualification in the relevant field.



#### English Language Requirement

Non-native English speakers and who have not carried out their final two years of schooling in English can demonstrate ability at a standard equivalent to:

- PTE Academic 51, or
- IELTS 5.5 (reading and writing must be at 5.5)



1

Transfer to more than 200+ universities worldwide as 3rd year student for top-up bachelor's degree



2

Proceed to Vocational Qualification in the same field



3

Direct Employment in the relevant fields



4

Start and manage your own business



HIGHER  
NATIONAL  
LEVEL 5  
DIPLOMA



BTEC Higher National Diploma is a UK Vocational Level 5 Education Qualification

Awarded by



Regulated by



Approved by



ALDAR Academy for training  
Dubai - United Arab Emirates



## CAREER OPPORTUNITY

At the end of Software Engineering program, the learner will be able to work as:

- Software Engineer and Developer
- Software Systems Planning and Analyst
- Web Developer
- Database Administrator
- Quality Assurance Engineer
- Application Developer
- User Interface/User Experience (UI/UX) Designer
- DevOps Engineer
- Project Manager in software Modules

## STUDY PLAN

- Total Guided Learning Hours (GLH) Higher National Diploma (HND) = 960 hours
- Qualification credit value of 240 credits of which 120 credits are at Level 5, and 120 credits are at Level 4
- Total Qualification Time (TQT) Higher National Diploma (HND) = 2,400 hours
- There is a required mix of core, specialist, and optional units.

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### YEAR 1

Programming

Networking

Professional Practice

Database Design & Development

Security

Planning a Computing Project (Pearson-set)

Software Development Lifecycles

Fundamentals of Artificial Intelligence (AI)

### YEAR 2

Computing Research Project (Part 1)

Business Process Support

Discrete Maths

Data Structures & Algorithms

Computing Research Project (Part 2)

Applied Programming and Design Principles

Client/Server Computing Systems

Internet of Things



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