



The importance of education to drive gender equality



design...engineer...construct![®]



A world-class learning programme built for a 21st Century industry:

- Digital Technologies
- Modern Methods of Construction
- Sustainability and Net Zero
- Equality, Diversity and Inclusion
- Social Responsibility, Impact and Value
- Long Term Legacy



design...engineer...construct!®

A world-class learning programme
built for 21st Century Education:



- **Teacher Training and CPD**
- Education for All
- Improve Numeracy & Literacy
- Learning for the real world of work
- Dedicated pathways to FE, HE and Employment
- STEM/STEAM
- Digital Excellence
- **Effective partnerships with tertiary education and industry**

Education CENTRE for OUR PLANET
COYO CHALLENGE 2021 - Design 'The COP'

STUDENT TEAM BRIEF

AFTER THE PANDEMIC

classofyourown®

DEC CONNECT Award

Design a Home for Everyone

DESIGN BRIEF

CIC Office for Disability Issues

classofyourown®

BBC

DEC EXTEND Award

Design a Music Recording Studio and Live Performance Venue

DESIGN BRIEF

LONDON LEGACY DEVELOPMENT CORPORATION

classofyourown®



“Empowering teachers with the tools and knowledge...”

DEC DISCOVER Award

SOS: Sustainable Outreach Shelter

CHALLENGE BRIEF

ICE MOTT MACDONALD CONSTRUCT

classofyourown®

DEC CONNECT Award

Design a Rural School

DESIGN BRIEF

ARUP ENGINEERS WITHOUT BORDERS

classofyourown®

DEC EXTEND Award

Design Student Accommodation

DESIGN BRIEF

classofyourown®

BRITISH SCIENCE WEEK

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Design a Natural History Visitor Centre

CHALLENGE BRIEF

THE EDUCATION PEOPLE

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Jamie's ITALIAN

DEC CONNECT Award

Design a Restaurant

DESIGN BRIEF

classofyourown®

DEC CONNECT Award

Design a Riverside Facility

DESIGN BRIEF

Tideway

classofyourown®

DEC EXTEND Award

Design an Underground Hotel

DESIGN BRIEF

Transport for London RADISSON HOTELS

UNDERGROUND TOP SECRET

classofyourown®

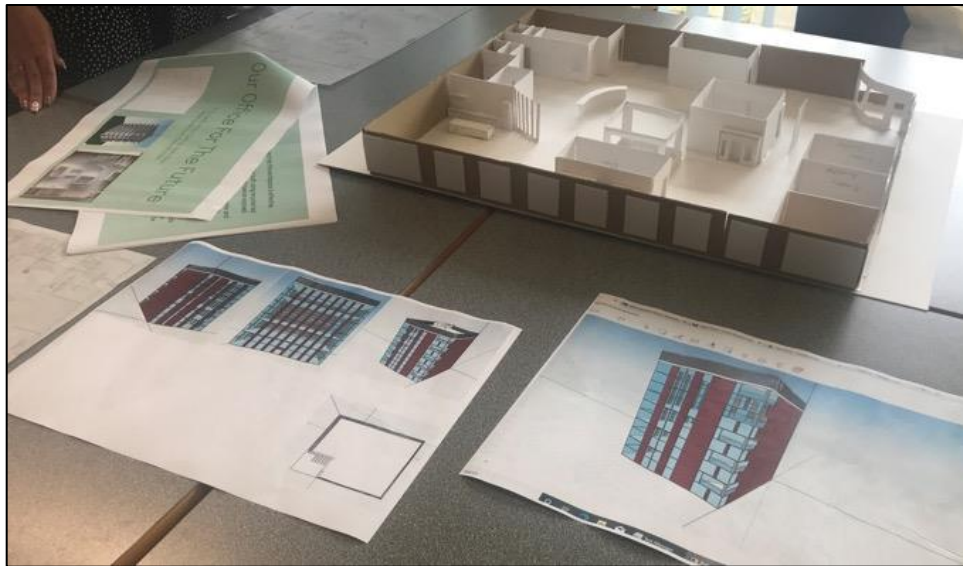
Government Property Function

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Design an Office for the Future

DESIGN BRIEF

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- Students develop key knowledge, and employability, technical and business skills
- Produce a portfolio of work including a design scheme and digital model
- Contributes to local and national Career & ESG objectives



DEC – the pathway to a professional career



“Empowering teachers with the tools and knowledge...”

Level 1 - Foundation

Comprising four units, meets the needs of younger students, typically 11-14 years old.

They present all their work in a portfolio that is moderated on completion.

Success results in a formal, recognised qualification.

Level 2 - Intermediate

Comprising four units, meets the needs of pupils who are at least 14 years old.

They present their work in a portfolio typically over a two-year period and also sit an examination at the end of the course.

Success in portfolio and exam results in the award of a formal, recognised qualification comparable to a GCSE in England that affords access to further* education and employment opportunities.

Level 3 - Advanced

Comprising six units, meets the needs of pupils at an advanced stage of learning, from 16 years old.

They present their work in a portfolio typically over a two-year period and also sit an examination at the end of the course.

The successful outcome of portfolio and exam results in a formal, recognised qualification comparable to one English 'A' Level.

A DEC Level 3 qualification affords access to higher education and employment.

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**FUTURE
INFRASTRUCTURE**

CRITERIA & LEARNING OUTCOMES
Advice & Guidance

Delivered by:

classofyourown



Developed with
the kind support of:
Bentley
Advancing Infrastructure

Students investigate:

- Digital Intelligence and Innovative Solutions
- Cyber Security
- Socio-Economic Impact
- Environmental and Resilience Planning
- Use of Advanced Technologies
- Digital Asset Management
- Leadership Skills Development

Good design
can change lives
(and minds)

DEC Level 3 Design a Neonatal Parent Suite

DESIGN BRIEF



NHS

classofyourown®



Driving outreach with schools and universities





Mutual Benefit:

Investigating how DEC delivery in schools can be supported by industry and higher/further education partners

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Centre of Excellence in Sustainable Building Design
Heriot Watt University

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engineer...
construct!®

Academic Years 2016-17 and 2017-2018

This document reports on delivering DEC Level 1 in academic year 2016-17, and devising and monitoring delivery of DEC Level 2 in academic year 2017-18. The purpose of the research was to reflect on current guidance, the experience of delivery, to identify areas of particular value and to provide further guidance for others to improve delivery.



Evidence in this Report

- The stages of L1 and L2 DEC are recorded chronologically with a **reflective narrative** intended to help teachers prepare for delivery.
- DEC pupils and their teacher provide **qualitative feedback** and evidence of the learning value of this engagement. Surveys reveal that **more pupils are considering construction as a career path**.
- Industry Partner provides feedback of personnel development and evidence of in-house and external marketing, sustainability and **CSR (corporate social responsibility) targets** and **KPIs (key performance indicators)** met through engagement with DEC.
- Academic Partner provides evidence of DEC engagement contributing to **staff development**; engagement and **outreach targets**; student experience and development; **professional accreditation criteria** and **graduate attributes**; and specific mapping against the TEF (**Teaching Excellence Framework**; measured against criteria TQ1, YQ3, LE2, S02 and S03)

Driving outreach with schools and universities



A Centre to teach a whole community of solar-powered home buyers to 'think green'...

A promotional graphic for the COYO Design Challenge 2020. The top half features a desert landscape with sand dunes and a large yellow chevron shape. Below this, a black banner contains the text 'COYO DESIGN CHALLENGE 2020' and 'The Esteem Pavilion' in white. Underneath is a grey banner with 'STUDENT TEAM BRIEF'. The bottom left shows a 3D architectural rendering of a modern white house in a desert setting with cacti and palm trees. The bottom right contains logos for Heriot Watt University (UK | DUBAI | MALAYSIA), the Esteem logo (a green 'E' shape), and the Classofyourown logo.



Driving outreach with schools and universities



UK | DUBAI | MALAYSIA

Virtual work experience for **two-thousand** 14 year olds over one week



Driving outreach with schools and universities



**Education CENTRE
for OUR PLANET**

COYO CHALLENGE 2021 - Design 'The COP'

STUDENT TEAM BRIEF



AFTER THE PANDEMIC

classofyourown®



**UN CLIMATE
CHANGE
CONFERENCE
UK 2021**

IN PARTNERSHIP WITH ITALY

HERIOT WATT UNIVERSITY | CENTRE OF EXCELLENCE IN SMART CONSTRUCTION

classofyourown®

AFTER THE PANDEMIC

We are delighted to announce the Heriot-Watt student COP judging panel!

 Scott Calder	 Alexandra Azoury	 Tarek Abdelaty	 Josephine Jane Joseph	 Afeefa Muhammad Ilyas	
 Valentina Nicson	 Lim Yee Kwong	 Lee Mei Sze	 Sylvia Lee Siok Hung	 Hussein Dheem Mohamed	 Alizah Mughal

Driving outreach with schools and universities



BRIEF:

Design an exciting educational building where children and young people can explore the STEAM of climate change.

- INCLUSIVE
- NET ZERO
- RENEWABLE ENERGY
- SUSTAINABLE MATERIALS
- END OF LIFE

THE RESULTS....



Number of secondary school in the UAE:

Public: 578*

Private: 205*

Numbers of entries: 5

NUMBER WHO SHOWED UP:

2

Bothered? *You should be!*

* Emirates School Establishment figures 2022

Why bother?



Findings of our global Construction talent survey:

- Global Skills Shortage
- Ageing Workforce
- Recruitment and Retention
- Perception of Industry
- Digital Divide
- Apathy





FASTEST
LARGEST
DEEPEST
TALLEST
GREENEST?



FACT: Construction remains one of the most **CLIMATE-UNFRIENDLY** industries.

The **greatest** construction projects of the future need **extraordinary** talent developed by the **world's best** teachers.



“Empowering women is key to building a future we want.”

Amartya Sen,
philosopher and Nobel Prize winning economist





RICS[®]

YOUNG
SURVEYOR
OF THE YEAR

2022
AWARDS



Reimagining our region through ESG

The 2022 Middle East report



Why DEC?

- EDI? **Crash through the barriers.**
- You'll surpass your ESG ambitions
- PR and Marketing? Shameless.
- Productivity? Get happy...the classroom is a drug
- Virtual or physical, you'll have time to work with schools - all the work is done for you
- **Sleep at night.**

Q.

Which of the following Societal related government policies would have the greatest impact on achieving your organisation's ESG strategy?

63%

A.

Having to prove a measurable impact in the community

Join our mission in the UAE to EDUCATE the Future of Construction



adoptaschool

A global education programme for the next generation of digital architecture, engineering and construction professionals

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YOUR SUPPORT OF THIS UNIQUE DIGITAL BUILT ENVIRONMENT PROGRAMME ENABLES YOUNG PEOPLE TO ACCESS A RANGE OF UNIVERSITY AND APPRENTICESHIP PATHWAYS



**UPTOWN
INTERNATIONAL
School**



**FAIRGREEN
INTERNATIONAL
SCHOOL**

support@classofyourown.com