Professional Certificate in Digital Facility Layout Planning

9 Months Full time (Sep/Jan start)

Introduction

The Professional Certificate in Digital Facility Layout Planning (DigitalPlan) will offer a learning path that will equip engineering and manufacturing employees, especially from SMEs, as well as engineering students and professionals to understand in depth the theory and practice related to facility layout design and planning, using digital manufacturing solutions. The digitalisation of manufacturing activities goes hand in hand with improved management practices and corporate performance but a vast majority of the engineering and manufacturing workforce lacks the necessary digital skills.

This Professional Certificate is an opportunity for academic / technological institutions and companies to upskill students and staff towards expanding their digital manufacturing capabilities. The flexible nature of this professional certificate makes it a perfect fit for applicants with rather tight or inflexible workload, especially industrial practitioners.

Online Delivery

This is a fully online flexible professional certificate where learners will receive the content fully online via **skillsmove.eu** learning platform (managed by European Institute of Innovation and Technology (EIT)). Upon completing the designated learning paths on **skillsmove.eu** platform, the learners will apply the acquired knowledge on a case study which will help them sharpen their skills further.

Course Content and Structure

The Professional Certificate in Digital Facility Layout Planning comprises 10 credits (two modules). These modules are offered across the Autumn and Spring Trimesters.

The learners of this Professional Certificate will be able to complete both modules in an online format. This means there are no class times for this Professional Certificates and the learners can complete it with full flexibility.

Students can opt for either a September or January start.

Modules Offered:

- Digital Facility Layout Planning and Optimisation *(to be accomplished online on skillsmove.eu)*

- Practical Case Application* *(to be completed online under an academic supervisor guidance)*

* Please note that accomplishing the first module is a pre-requisite to being registered to the second. Each module will be done in a separate trimester (either Spring or Autumn).

Why study at UCD?

Graduate education
12,800 graduate students; 17% graduate research students; structured PhDs

Global community
9,500 international students and a 300,000 alumni network across 165 countries

Global Profile
UCD is ranked in the top 1% of higher education institutions worldwide

Global careers
Dedicated careers support; 2-year stayback visa to work in Ireland

Career Opportunities

The short-term advantage of this Professional Certificate will be educating the current and future manufacturing workforce to design/redesign manufacturing facilities. Utilising such a digital decision support system will result in constantly reducing product development lead times, engineering and manufacturing costs, while improving production performance, product quality and eventual customer satisfaction.

In the long term, participating in this Professional Certificate will increase the digital capabilities of the manufacturing workforce, in line with Industry 4.0 strategies, making learners a quite attractive candidate for manufacturing job market.

Applicant Profile

- Applicants must hold a bachelors degree with a minimum of 180 ECTS credits or equivalent academic qualifications from an internationally recognized university with a minimum 2:2 degree GPA. Degrees in Mechanical Engineering, Electrical Engineering, Computer Engineering, Computer Science, Information Technology or Industrial Engineering are preferred but applicants from related Science, Technology, Arts and Mathematics backgrounds will be considered on a case-by-case basis.

- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.

Tuition Fees

Tuition fee information is available on www.ucd.ie/fees.

Related Masters Programmes of Interest

- MEngSc Engineering Management FT
- ME Manufacturing Engineering FT
- Master of Engineering Management PT
- ProfDip Operations Excellence PT

Programme offered as part of the

www.advancecentre.ie

Programme Director

Dr Pezhman Ghadimi

This programme will equip you with the ability to design/redesign manufacturing facilities. Utilising such a digital decision support system will result in constantly reducing product development lead times, engineering and manufacturing costs, while improving production performance, product quality and eventual customer satisfaction. You will be able to troubleshoot facility layout inefficiencies, analyse what to change and validate improvements. You will be able to add value to your organisation, whether an SME or a multinational, manufacturing or service, to stay ahead of the competition. Through the online content, you will learn the theoretical content and can apply it to a practical case study in your organisation or a given case by your academic supervisor. Finally, the fully online nature of the programme provides you with the flexibility to work and study.

APPLY NOW

This programme receives significant interest so please apply early online at **www.ucd.ie/apply**