

Capstone DEC Project Overview

Design a Rehabilitation Unit for Paralympians

Calling students with a passion to build an extraordinary career in Healthcare!

Join our Aspiring Architects, Engineers and Medics project to design life-changing Rehabilitation Centres.

Are you a student who aspires to make a significant impact on the lives of elite sporting individuals in need of advanced healthcare solutions? Immerse yourself in our educational programme where you will collaboratively design state-of-the-art rehabilitation centres that empower athletes to achieve new milestones. Gain insights from accomplished architects, engineers and medical professionals and contribute to the creation of inclusive and empowering healthcare solutions for Paralympians!

Project Overview

The primary objective of this integrated project is to challenge young people and ignite their passion for careers in healthcare, architecture and engineering by tasking them with the design of a state-of-the-art rehabilitation centre for Paralympians.

By the end of this project, learners will have gained a deep understanding of the collaborative nature of the design, engineering, construction and healthcare industries. They will have developed problem-solving skills, team-working and presentation abilities and discovered some of the exciting opportunities that await them in these fields. Additionally, they will have a newfound appreciation for the importance of creating accessible and inclusive spaces for Paralympic athletes – and all people with disabilities.

Supported by real professionals, learners will discover how their skills and passions can converge to make a meaningful impact on the world of sports and healthcare.

Learning Objectives

Day 1 - Introduction to the Paralympics and Rehabilitation

We start the project with an introduction to the Paralympics, the athletes and their unique rehabilitation needs. We'll highlight the significance of providing world-class facilities to support Paralympians on their journey to excellence. Learners will form interdisciplinary teams comprising aspiring architects, engineers and medics. Each team member will bring their unique skills and perspectives to the project. Tasked with conducting a needs assessment, learners will research the specific requirements of Paralympic athletes, considering mobility, accessibility, medical facilities and psychological support.

Day 2 - Design Development

Teams will work collaboratively to brainstorm and develop their design concepts for the rehabilitation centre with an emphasis on sustainability, accessibility, and patient-centred design principles. We'll highlight the importance of sustainable construction and healthcare practices, addressing net-zero energy, waste reduction and eco-friendly materials and discuss how the facility can contribute to a healthier environment.

Day 3 - Visit to a Healthcare Facility

Teams will focus on healthcare integration, including designing medical treatment rooms, physical therapy spaces and psychological support areas and explore the role of technology in healthcare. Through an introduction to healthcare technology and its role in modern healthcare, learners will discover how digital engineering skills can be applied in healthcare settings, such as in the design and maintenance of medical equipment and smart healthcare facilities.

Day 4 - Presentation and Pitch

The project will culminate with team presentations and pitches. Each team will present their design to a panel of professional judges.

Assessment and Certification

The course is developed and delivered by Class Of Your Own, a UK social enterprise that for 14 years has inspired children to experience the Built Environment through the 'Design Engineer Construct!' ("DEC") Learning Programme. From Primary School to Secondary School and beyond, 'COYO' provide children and young learners with a unique opportunity to develop the knowledge, competencies, behaviours, and skills fundamental to successful engagement in the professional aspects of this exciting sector of industry.

Class Of Your Own works with some of the biggest and best from the UK construction and medical sectors, and students will get to work with a range of professionals over the course of the programme.

Upon completion of the programme, students will receive a DEC Award, which is a Training Qualifications UK and industry-endorsed certificate.