

Enterprise and Business Planning for Engineers

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Abstract

Enterprise is an important element of government strategy to increase productivity and support the creation and maintenance of a healthy economic climate. Whilst there has been lively debate about best ways of embedding entrepreneurship into the engineering curriculum, so far no definitive approach has emerged.

Conscious of the importance of the enterprise agenda in higher education, the Department of Mechanical Engineering at Sheffield University aims to remain at the forefront of the competition by meeting customer expectations and fulfilling their needs. We have therefore made a concerted effort to increase students' entrepreneurial and intrapreneurial potential over the past three years. Consequently, several modules and degree programmes have been created specifically to meet these needs.

This case study presents two modules as representative examples of how mechanical engineers are gaining an insight into the entrepreneurial world.

Background and key features of the modules

1 Enterprise and Technology

Module size	Single
Open / restricted	Restricted
Core/Option	Core
Availability on/off campus	On campus
Total student study hours	100
Number of weeks	10 weeks

This module was designed with the main objective of encouraging first year students to think of themselves as potential entrepreneurs, not to be afraid of the word 'enterprise', and to think of enterprise as a route to commercialise their engineering skills. Additionally, the module was developed in a rather unconventional way, whereby students would receive the knowledge through quotes and analogies and then reflect on the knowledge acquired through group dynamics.

2 Business Planning

Module size	Single
Open / restricted	Restricted
Core/Option	Option
Availability on/off campus	On campus
Total student study hours	100
Number of weeks	10 weeks

This highly innovative business planning module uses a "reality teaching and learning" approach. Students are given a real commercial problem provided by real customers. They are asked to apply their engineering knowledge to solve the problem and write a financially and commercially viable business plan for it. They receive just 10% to 15% traditional lecturing. The remainder is based on case studies and workshops, and presentations from relevant speakers such as bankers, customers, intellectual property consultants and real

Sample Civil Engineering Business Plan

Emilie Sanchez



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Sample Civil Engineering Business Plan: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Sample Civil Engineering Business Plan : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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