#### 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

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

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**Anne McKinney** 

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Advanced Construction Project Management Christian Brockmann,2020-12-15 An essential guide to the structure dynamics and management of construction megaprojects Advanced Construction Project Management is a comprehensive

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Sustainability presents a wide ranging intellectually well grounded and accessible introduction to the concept of sustainability planning The text explores topics such as how more livable cities and towns might be created how greenhouse gas emissions might be curtailed how social inequities might be reduced how local ecosystems can be restored and how more sustainable forms of economic development can be brought about More than simply a third edition this book has been extensively rewritten to provide a timely rethinking of the nature of sustainability planning issues central to it and scales of application There is a new focus on system change in order for other forms of progress to come about This edition also includes expanded material on climate action housing social equity capitalism democracy the Sustainable Development Goals and the developing world This book considers in turn each scale of planning international national regional municipal neighborhood and site and building and illustrates how sustainability action at different scales interrelates This comprehensive volume lays out a hopeful and constructive view of the future in a time of growing challenge It will be essential reading for students of urban planning urban development and similar fields and practitioners eBusiness in Architecture, Engineering and Construction Alain Zarli, Raimar Scherer, 2008-09-03 Since 1994 the European Conference on Product and Process Modelling www ecppm org has been providing a review of research development and industrial implementation of product and process model technology in construction The 7th European Conference on Product and Process Modelling ECPPM 2008 provided a unique discussion platform for topics of Systems Analysis for Civil Engineers Paul J. Ossenbruggen, 1984-01-18 A systems analysis text which introduces fundamental methods of optimization including graphical and numerical methods and the principles of engineering economics to the planning analysis design and management of civil engineering systems Designed for undergraduates majoring in civil engineering Includes practical problems Plunkett's Transportation, Supply Chain and Logistics Industry Almanac 2006 Plunkett Research Ltd, 2006-03 This immense global sector is vital to all businesses This book covers exciting trends in supply chain and logistics management transportation intermodal shipment systems and advanced technologies Market analysis statistics and trends included Contains profiles of the 500 leading firms Improvement of Buildings' Structural Quality by New Technologies Christian Schauer, ENG. Federico Mazzolani, Gerald Huber, Gianfranco de Matteis, 2005-01-20 Launched in May 2000 the aims of the COST C12 cooperative action were to develop combine and disseminate new technical engineering technologies to improve the quality of urban buildings to propose new technical solutions to architects and planners to reduce the disturbance caused by construction in urban areas and improve urban quality of life This College of Engineering University of Michigan. College of Engineering, 1978 Routledge Handbook of Integrated Project Delivery Derek Walker, Steve Rowlinson, 2019-07-26 The concept of integrated project delivery IPD has evolved as a result of the need for highly expert teams of people to collaborate to deliver extremely complex projects to manage expectations about delivery speed changes in governance standards and to take advantage of and manage expectations raised by rapid advances in

technology All this demands effective change management This is the first Handbook to contextualise and thematically explore the concept with an emphasis on rigorous practical and theoretical validation The Handbook is divided into five sections each with a focus on several interconnected themes including An introduction to IPD concepts The foundational elements and characteristics of IPD People culture and collaboration as key ingredients to successful and effective IPD Technology and process aspects of relational contracting forms such as IPD New and relevant perspectives to IPD that have received scant attention to date Aspects and emerging issues that are rarely consciously considered in traditional project delivery due to the commercial imperative that drives firms and client organisations. The Handbook offers both discussions of these key themes and also in depth research into construction and other industry project procurement and delivery that spans decades In addition the Handbook presents best and better practice but also includes insights into cutting edge experimental developments in technology and practices where proof of concept is currently being developed into emerging practice Contributing authors in this Handbook collaborate with the co editors to draw together an integrated set of chapters that align to deliver a coherent narrative of the IPD concept It is an invaluable reference for practitioners and academics alike and useful as core course content for numerous degree programs of study and professional development courses

Marketing Planning for Services Adrian Payne, Malcolm McDonald, 2012-11-12 Marketing Planning for Services is the answer to the challenge of creating marketing plans that produce significantly improved bottom line results It is written in a pragmatic action orientated style and each chapter has examples of marketing planning in practice The authors highlight key misunderstandings about marketing and the nature of services and relationship marketing. The marketer is taken step by step through the key phases of the marketing planning process and alerted to the barriers that can prevent a service organisation being successful in introducing marketing planning Practical frameworks and techniques are suggested for undertaking the marketing planning process and implementing the principles covered The world renowned authors also tackle key organisational aspects relating to marketing planning which can have a profound impact on its ultimate effectiveness These include marketing intelligence systems market research organisation development stages marketing orientation Marketing Planning for Services is for marketers in the service sector and students of marketing 23rd European Conference on **Knowledge Management Vol 2** Piera Centobelli, Roberto Cerchione, 2022-09-01 Construction Safety Management Systems Steve Rowlinson, 2004-04-29 This book draws together leading edge research papers from the proceedings of an international conference conducted by a commission W099 on Safety and Health on Construction Sites of CIB the international council of building research **International Construction** Mark Mawhinney, 2008-04-15 A recent construction project in Singapore involved a Russian plant a Japanese management team Australian and Italian engineers Thai steel workers and a labour force from throughout Asia The recent growth explosion of multi nationals and the lowering of trade barriers is pushing the globalization of construction at a startling pace Mark Mawhinney has brought together for

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