



Defence Academy
of the United Kingdom

Cranfield
UNIVERSITY

E-learning at Cranfield University

Professor Jackie Akhavan
Head of Centre for Defence Chemistry

College of Management and Technology

Cranfield - Aim & Mission

Cranfield's Aim

- Cranfield University's aim is to be a leading national, European and international institution for the generation, dissemination, and application of knowledge in selected areas of engineering, applied science, manufacturing, management, and medical science to both the civil and the defence sectors.

Cranfield's Mission

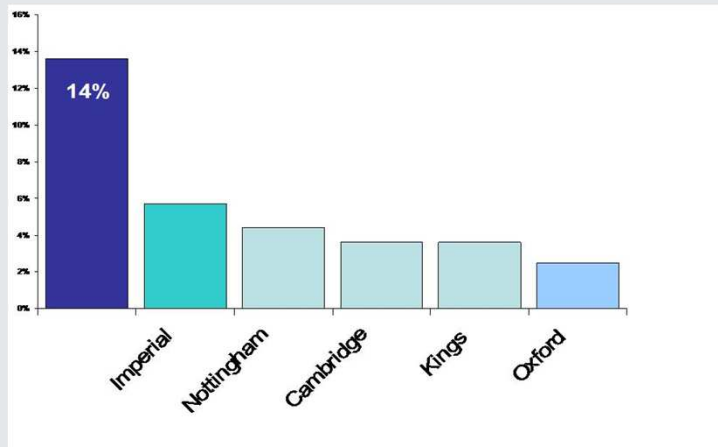
- Cranfield's particular mission is to create and transform world class technology, management and science into viable, practical, environmentally desirable solutions that enhance economic development and the quality of life.

Cranfield - What is Distinctive

- Teaching and research are integrated and undertaken in an environment and culture of innovation and applicability
- Lies in between the extremes of traditional universities and business and industry
- Postgraduate
- Concerned to see its knowledge applied in business, industry and the public sector

Cranfield - What is Distinctive

- An internationally renowned specialist institution
- Turnover £160M
- 2000 Employees
- Recruits exclusively at Postgraduate level.
- Promotes strong connections between teaching and research.
- Uses our expertise to advance partnerships with industry and the Armed Forces





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An overview

- PhD
- MSc/PGDip/PGCert
- Short Courses
- E-learning activities

E-learning modules

- Introduction to Explosives
- Burning and Detonation
- Initiation
- Safety and Legislation
- Primary & Secondary Explosives
- Basis of Safety
- Qualification and Testing
- Pyrotechnics
- Waste Destruction
- Manufacture and Formulation of Explosives
- Insensitive Munitions
- Armour System Design
- Propellants
- Internal and External Ballistics
- Weapon Thermodynamics
- Risk, Hazard and Safety of Explosives
- Rocket Motors and Propellants

e-Learning Capabilities

- Feasibility & scoping studies
- Training Needs Analysis (TNAs)
- Learning design
- Content design
- Content programming
- Assessment creation & programming
- Learning Management System (LMS) & Content Management System (CMS) integration
- Testing & QA
- Evaluation



e-Learning

- <http://vle.defac.ac.uk/login/index.php>