

# Accelerated Integrated Masters in Liberal Engineering Degree

**We will focus on teaching, we will teach differently.**

The traditional approach in higher education is that research informs teaching. Our view is that great teaching and its resultant learning is informed and supported by scholarship. Therefore, we will foster scholarship and reward teaching, and we will not engage in the government's Research Excellence Framework (REF).

Our teaching will be interdisciplinary and problem-based, giving students

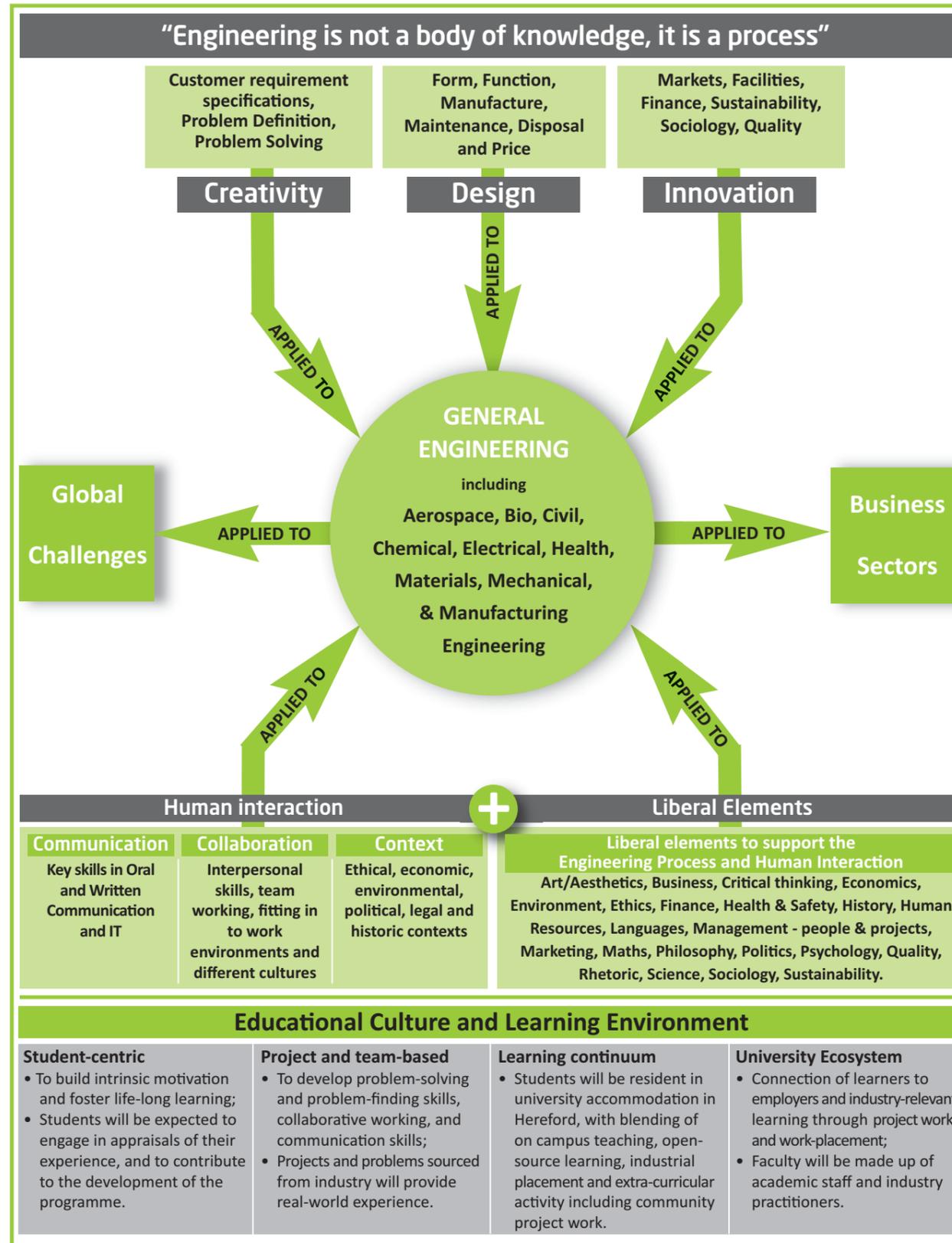
**Global Challenges**

- Feeding the World  
Agri-tech, Food Tech, Energy, Water
- Shaping the Future  
Advanced Manufacturing, Energy, Water
- Living Safely  
Cyber security, Smart Cities, Energy, Water
- Living Sustainably  
Environment, Climate, Sustainability, Water, Energy

applied experience while learning. We will seek to educate rather than inculcate our students, an approach that has a proven track record of embedding lifelong learning skills and stimulating and engaging students' creativity.

Our curriculum design, teaching, and commercialisation research will rely on an intimate collaboration with companies and their staff who will be invited to provide real-world problems, offer internships and contribute practitioners to guide students through their time at NMIITE. We will teach an *Accelerated Masters in Liberal Engineering Degree* (AIMLED) programme.

It applies the principles of **Creativity, Design and Innovation** in a multi-disciplinary way to the major engineering disciplines to address challenges of regional, national and global significance through block-



‘The engineering sector must abandon its obsession with maths and science if it ever wants more – and more diverse – graduates to meet its growing demand.’

structured Project-Based Learning. This Masters Degree integrates Bachelors degree material and is presented in an accelerated format, requiring just three 46-week years of study including a six month, assessed, industrial placement. It leads to an accredited qualification (recognised by the UK Engineering Council) and registration as a Chartered Engineer (CEng). Students will have the

**Business Sectors**

Initial selection - others will be added

- Agri-Engineering and Food Production**  
Agri & Food Tech, Precision & smart technologies, Sensors & controls, Logistics, Energy, Water.
- Manufacturing & Advanced Manufacturing**  
Lean processes, Rapid prototyping, Robotics, Automation, Control systems, Composite materials
- Big Data, Cyber Engineering and Resources Security**  
Interconnected risks, Global networks & resources logistics, Information assurance, Data analytics & forensics.
- Green, Renewable, Smart Living & Cities**  
Green transportation, Environmental engineering, Smart grid energy & water management, Ecosystems, Renewable energy

option of choosing blocks that address Global Challenges or the engineering and business needs of our four initial key business sectors.

Recognising the realities of modern engineering, the programme incorporates appropriate ‘Human interaction and Liberal’ subject areas to enhance student’s employability. We believe this flexibility will appeal to students with qualifications, interests and background from a wide range of subjects. Online courses and tutorial sessions will provide the support required to get students up to speed in their weaker subjects.

Passion means educating rather than inculcating.

Passion means we invest in great teachers and give them the best tools to do their jobs.

Passion propels us, while perspective gives us purpose.

“We need passionate, prepared and engaged talent who will help us solve problems and capture opportunities.”