



14-Nov-2019
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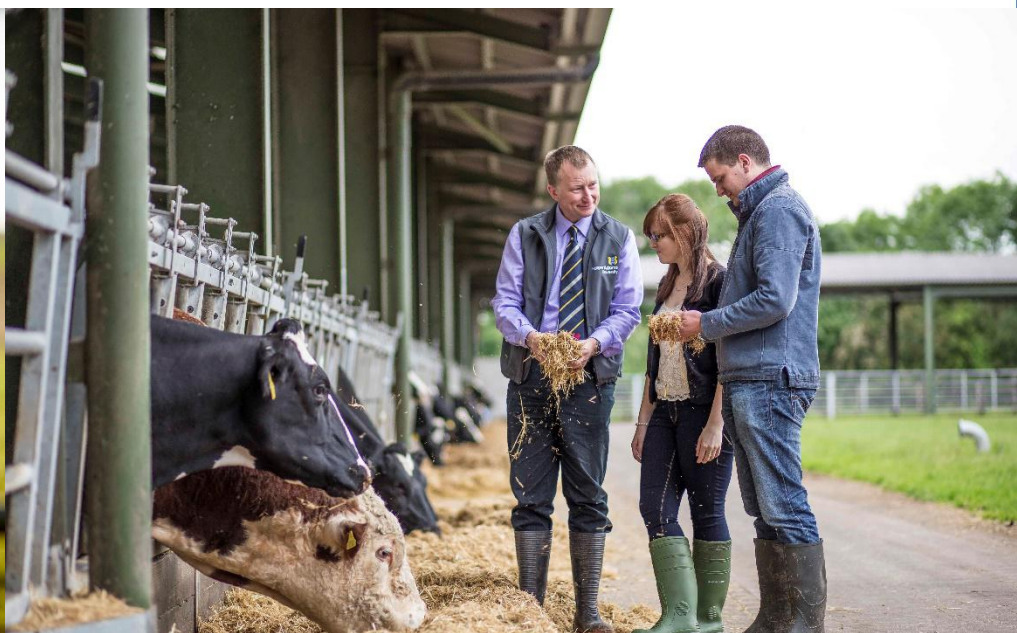
MSc Applied Mechatronic Engineering at Harper Adams

Kim Chadwick – Outreach Manager

Dr Sven Peets – Senior Lecturer
Engineering

Introduction to Harper Adams University

We're the UK's leading provider of
specialist higher education for a
sustainable agri-food chain and rural
economy





- Since opening in 1901, Harper Adams has grown from a small agricultural college to a thriving modern university delivering teaching and learning of the highest quality and research with a global impact.
- Total student population of approx. 5,000



Our university campus and commercial farm
is situated in the beautiful English
countryside.



Taught subjects

Undergraduate course areas

- Engineering
- Business Management
- Agriculture
- Animal Sciences
- Zoology
- Applied Biology
- Food Technology & Innovation
- Environment, Sustainability & Wildlife
- Land & Property Management
- Veterinary Nursing
- Veterinary Physiotherapy

Postgraduate course areas

- Engineering
- Agri-food, Business & Economics
- Agricultural Production
- Applied Ecology and Entomology
- Veterinary
- Land Management
- Master of Research



Facilities

Fantastic facilities for both studying and socialising

These include:

- Commercial farm
- Engineering workshops and separate area in library with CAD software
- Regional Food Academy
- Labs
- Rugby and football pitches
- Multi-sport astro pitches
- Gym
- Swimming pool
- Student bar and night club



Student Life

All international students receive

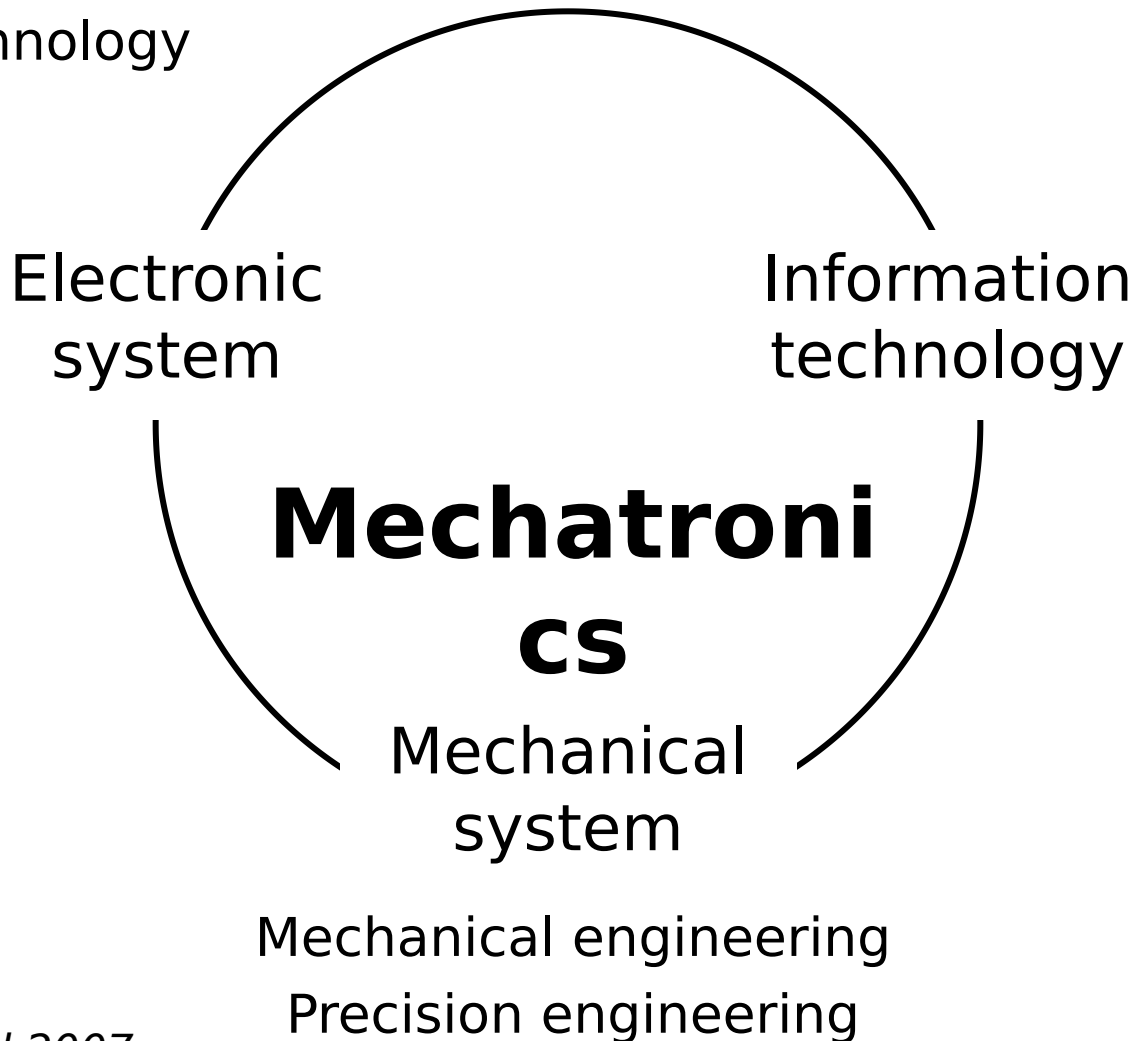
- A two-week induction before the first term begins
- Free English language and study skills support
- Help from an international student representative
- Support from a team of staff
- Advice on immigration and arranging visas
- Information on working in the UK and further studies
- Access to a cultural and social programme
- A shuttle bus service to local towns



MSc Applied Mechatronic Engineering

Microelectronics
Power electronics
Sensors technology
Actuator technology

System theory
Modelling
Automation
Software engineering
Artificial intelligence



The course

Duration one year (full time)

Starts in September

Modules taught in one week blocks

Typical form of assessment written assignment

Learning activities are a mix of lectures, tutorials and practicals
(class, lab, field)

The projects are done in your own time over nine months:

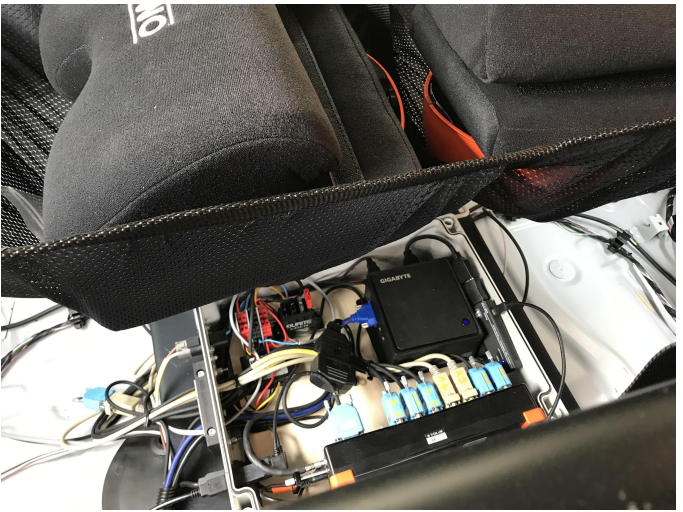
Projects can involve industrial partners such as CLAAS, JCB,
CNHi

and/or involve our research



Modules

Module title	Level	Credit value
Research and Information Skills	7	15
Advanced Decision Making	7	15
Instrumentation for Research and Product Development	7	15
Essentials of Mechatronics	7	15
Engineering Group Design Project	7	30
Advanced Mechatronics	7	15
Robotics in Agriculture	7	15
Masters Research Project	7	60









Opportunities

Our students have participated in the Field Robot Event

They get involved in many of the current engineering projects that undergraduate students don't see.

Opportunities to attend conferences, write papers, present to other researchers.



Entry requirements

An honours degree in an Engineering discipline, with either a first or an upper-second class honours classification or an equivalent award.

A postgraduate diploma in an Engineering discipline or an equivalent award.

For international students IELTS (International English Language Testing System) certificate or similar.

Career

This course provides an understanding of the practical application of engineering science and mathematics to the development of mechatronic systems.

It is designed to aid students with good engineering qualifications, but limited applied industrial experience.

Students will complete the course with a view to taking leading positions in manufacturing companies designing innovative machinery and equipment by employing new and emerging technologies to develop mechatronic systems, machinery and solutions.

Course Accreditation

The course is fully accredited with the IAgRE, the Institution of Agricultural Engineers.

This means that your course will give you the academic qualifications to become a Chartered Engineer with the post-nominals CEng.

Your degree is registered with the Engineering Council.



www.harper-adams.ac.uk

