

Heriot-Watt University Malaysia

Dr. Suganti Ramarad R.Suganti@hw.ac.uk Assistant Professor Engineering and Physical Sciences School

> MREPC ILF Interaction Session June 2021



Heriot-Watt University Profile







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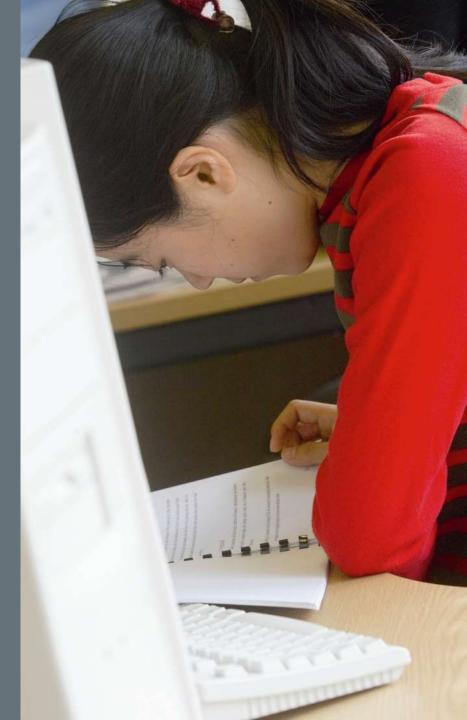
Key Disciplines

Core groupings

- Engineering
- Construction
- Business
- Actuarial Science
- Psychology

PhD Degrees

- Engineering
- Statistics
- Social and Behavioural Science
- Business and Administration
- Architecture and Building



Heriot-Watt ranked 9th university in the UK and 1st in Scotland for research impact in REF 2014

Over 80% of our academic staff are engaged in research at internationally recognised levels

Overall 82% of our research is assessed as world-leading or internationally excellent in our core disciplines of science and engineering, business and management, languages and design.

Research Excellence



Research at HWUM



Materials Science

Research spans all (five) campuses

Main link Malaysia-Edinburgh, e.g Institute of Chemical Sciences (ICS), Edinburgh

Research seeks to understand the relationship between composition, structure and property (polymers and composites)

Combines aspects of inorganic, organic and physical chemistry as well as chemical engineering

Karex, Continental, ExxonMobil, Coca-Cola, Weir Group, TechnipFMC and Iron Ocean

Materials Science

computational modelling and experimental research to study molecular properties and behaviour

chemical synthesis of organic and biologically-active compounds, inorganic and organometallic compounds and supramolecular species

preparation of novel polymeric, inorganic, composite and hybrid materials for technological applications

development of novel spectroscopic techniques to study interfaces relevant to catalysis



Examples of Application

Strengthening of packaging using latex products

Studies of microbial degradation of rubber/latex

Circular economy – reuse of rubber

Numerical modelling and parametric analysis of High Damping rubber crash barrier



Thank you R.Suganti@hw.ac.uk