



VISION & IMPLEMENTATION PLAN 2016-2021 FOR THE SCHOOL OF ENGINEERING IN HASAN KALYONCU UNIVERSITY

OUR VISION IS TO BE RENOWNED INTERNATIONALLY VIA TEACHING, RESEARCH & ENTERPRISING

In teaching, ensuring ethically high quality, accountable graduate engineers with self-confidence and lifelong learning skills via project based teaching and learning philosophy.

In research, building capacity in the Built Environment field via the Built Environment Research Centre engaged with interdisciplinary research nationally and internationally in collaboration in engineering, architecture and planning fields.

In enterprise, building a working relationship and partnership with the construction industry nationally and internationally for knowledge & technology transfer and for the accurate diagnosis of the industry needs and requirements

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Our ambition is to play a key role as an educational hub in the region as the only trust university.

With this key ambition in mind, our mission is to maximise opportunity through generating knowledge & innovation and supporting the economy through employment, entrepreneurship, creativity, knowledge transfer, research and development.

TEACHING IN HKU ENGINEERING

As a faculty, we are fully committed to enhancing the student experience and the learning and teaching environment. We are developing clear faculty approaches to learning, teaching and assessment, particularly focusing on student support, innovative teaching, scholastic development and research informed teaching.

Teaching Objectives by 2021:

- Achieve a sector leading university experience
- Maximize individual potential for all students
- Provide state-of-the art learning opportunities informed by cutting edge knowledge and professional practice.
- Achieve an accredited teaching systems (for example MÜDEK)
- Contribute the student's resumes by some elective courses providing actual needs in the relevant industry.

RESEARCH AND DEVELOPMENT IN HKU ENGINEERING

With the Built Environment Research Centre being established, provide a platform to gather academics from different disciplines to work together and develop ideas and critical thinking addressing the Built Environment challenges. Encourage researchers to contribute sustainable environments by means of their research.

Research Objectives by 2021

- Establish working research groups in engineering and architecture
- Provide learning, research and engagement opportunities, which target the economic and social needs of the areas including energy, construction technologies, Construction Information Technology & Management, Cultural Heritage, Artificial Intelligence and Computer Vision.
- Maximise the individual potential for all the member of staff.

- Foster global knowledge exchange and collaboration
- Be renowned as a university that makes impacts on Built Environment regionally, nationally and internationally.

ENTERPRISING IN HKU ENGINEERING

As the extension of the research and development, as a faculty, we are aiming to build a business facing school that builds partnerships with the built environment practices via diverse ways including project partnerships, technology transfers, business start-ups in techno parks and consultancies.

Enterprising objectives:

- Embed entrepreneurship through campus based and industry based techno parks supporting current students and graduates to set up their own businesses.
- Build a working partnership with Kalyon construction and beyond
- Establish an industry networking platform that would share the best practice and knowledge and foster training for the practitioners and organise yearly events and seminars for the industry.
- Establish BIM (Building Information Modelling) centre to lead and guide the industry for the best practice BIM implementation and use in the construction industry.

STRATEGIES FOR THE IMPLEMENTATION OF THE OBJECTIVES

1. Establish and adapt project based teaching and learning as the main teaching approach into the engineering education in HKU and introduce project based teaching as the main school of thought in our engineering education.
2. Better structured and systematic implementation of COOP education
3. Ensure that students gain lifelong learning skills and abilities via research and project commitments and build critical thinking.
4. Seek national and international accreditation for engineering education in HKU such as MUDEK accreditation. Thus, adopt the curriculum in engineering faculty to match the requirements in such accreditation procedures.
5. Invest in the development of the physical infrastructure to provide quality learning environment and facilities
6. Build the academic team with the right skills and quality to contribute to the faculty activities in teaching, research and enterprising
7. Develop a systemic institutional structure for efficient planning and execution of the academic duties including workload modelling, assessment procedures and standards, student registration policies, enhancing ethical qualities student engagements.
8. Establish the Built Environment Research and Innovation Centre to group people into the research teams to produce research artefacts such as research projects, publications and industry related implementation projects
9. Deepen the relationship and partnerships at various levels with Kalyon construction to partner in construction projects and contribute with research and development into those projects
10. Build an industry - academy network to foster best practice from practice and cutting-edge knowledge from academia.