

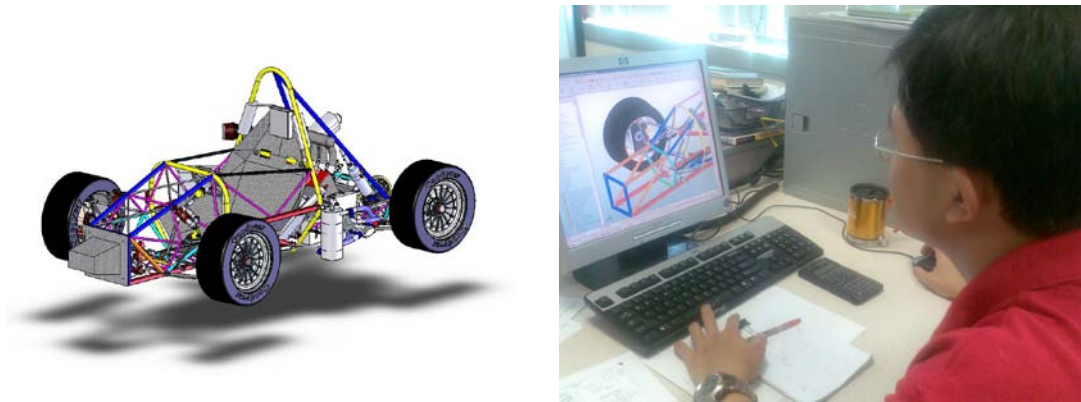
# Design-Centric Engineering Curriculum

## *A flexible learning pathway*

Build a smart city, invent a future car or design innovative devices for treating diseases ... Sounds exciting?

Starting in academic year 2009/10 the NUS Faculty of Engineering will offer a new **Design-Centric Engineering Curriculum (DCC)** that crosses disciplines, fosters creativity and develops strong design skills to prepare NUS Engineering graduates for the globalised economy in the 21<sup>st</sup> century.

The DCC is an innovative, flexible learning pathway to educate the engineers of tomorrow, so that they are well-equipped to lead in solving complex and multi-disciplinary problems associated with major challenges, such as climate change, natural disasters and ageing-related healthcare.



The curriculum will provide students extensive exposure to real-life design projects and design-focused modules throughout their course of study. Design projects will be centred on large, multi-disciplinary themes that address contemporary and emerging problems. Fundamental principles relevant to a student's primary engineering discipline will be taught and reinforced through design-focused projects and modules, enabling students to constantly relate theory with practice, from component to systems level. The focus on practical design that incorporates commercialisation and cost issues also serves to inspire a spirit of entrepreneurship in students.



*"In addition to the tremendous opportunities for self-learning, such a design cum problem-based learning approach will encourage creativity and thinking out of the box. The significant exposure to systems thinking and engineering technology management made available in this new learning environment will more fully equip graduates to handle large-scale complex technical problems of the future ..."*

– **NUS Dean of Engineering, Prof. Chan Eng Soon**

## **Applying for the new Curriculum**

The first intake is limited to about 30 students. Applications for the DCC, which starts in Semester 2, will be announced during the first semester. The inaugural project, on the theme of Future Transportation Systems, is particularly suited for students reading **Mechanical Engineering** or **Electrical** and **Computer Engineering**.

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