National University of Singapore

Department of Mechanical Engineering
Faculty of Engineering



Summer Program 2019

Dates:  14 July to 28 July 2019

Innovative Product Design and Development

Learning of Innovative Product Design and Development from engineering perspective in Singapore Environment

# Summer Program-Innovative Product Design & Development

***Immersive Program on Innovative Product Design and Development***
- ✓ With understanding of other contexts- customers, intellectual property etc.
- ✓ Based on Engineering perspective
- ✓ System approach on product design
- ✓ Hand-on experience on prototyping
- ✓ Classes and design projects in NUS
- ✓ Taught by NUS professors with enrichment of design concepts development and learning experiences

## *Topics for the program*
- ✓ Global design perspectives and cultural impact
- ✓ Identifying customer needs and product specifications
- ✓ Conceptual design and Innovation
- ✓ Concept selection
- ✓ Product architecture
- ✓ Prototyping and design for manufacturing
- ✓ Group projects

## The Learning Process

| Problems Identification | Interactive Teaching | Innovative Product design | Prototyping | Presentation by Teams |
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Knowledge deepening        Application through action        Reinforcement by sharing