

# DIPLOMA IN ENGINEERING TECHNOLOGY PRODUCT DESIGN & MANUFACTURING

JPT/BPP(K) 1000-600/B293 JLD4(11)(R/214/4/0156)(A 7165) 01/2021

## PROGRAMME BRIEF

Product Design & Manufacturing is a programme that focuses on product design concepts, presentation of new product ideas and advanced manufacturing applications for production. The programme provides a thorough understanding of design principles, manufacturing processes, and manufacturing technologies for which the activities involve the entire product lifecycle, from the identification of a market opportunity or requirements, through design, testing and manufacture.

After the attainment of the technical foundation, the core competencies in the programme will be facilitated by a wide range of technology disciplines namely rapid prototyping, ergonomics and design, product design for manufacturing, and advanced manufacturing.

At the end of the programme, the students will be able to incorporate various design and manufacturing processes by integrating creativity, design, prototyping, manufacturing, and entrepreneurship in all phases of the product design and development lifecycle. Students are also required to propose and produce new and innovative product design that conforms to industrial standards or practices during their final year project.

## CORE STUDY AREAS

- Design Conceptualization & Ideation
- Creativity & Innovation
- Model Making Techniques
- Digital Design & Styling

## JOB OPPORTUNITIES

- Product Designer
- CAD Application Assistant Engineer
- Product and Reliability Assistant Engineer
- Quality Assurance Executive

