



**UNIVERSITI TEKNOLOGI MARA**

**EDT701: PRACTICE BASED DESIGN THINKING**

<b>Course Name (English)</b>	PRACTICE BASED DESIGN THINKING <b>APPROVED</b>
<b>Course Code</b>	EDT701
<b>MQF Credit</b>	3
<b>Course Description</b>	The course generate the students to design awareness and design solution, develop understanding on how design shapes the physical and environment in which design can be used to shape society in cultural, environmental and business contexts, both historically and in contemporary practice.
<b>Transferable Skills</b>	Skills related to design thinking using practice based method.
<b>Teaching Methodologies</b>	Lectures, Blended Learning, Tutorial, Discussion, Presentation, Small Group Sessions
<b>CLO</b>	<p>CLO1 CLO1: React to design selection using to develop idea, create concepts in the context of research (rationale of solution/ selection) that explore aesthetic, ergonomic and functionality of the proposed product. (C-3&amp;4)</p> <p>CLO2 CLO2: Select materials and techniques, searching technologies to stimulate product development ideas and develop solutions in the making of prototypes and production methods. (P-3&amp;4)</p> <p>CLO3 CLO3: Develop new product design and able to produce product report that explain the history of the product from idea, concept, technical and production information as a platform to initiate collaboration with related industry. (A-3&amp;4)</p>
<b>Pre-Requisite Courses</b>	No course recommendations
<b>Topics</b>	
<b>1. 1. Introduction to Design Refinement - Research theoretical framework</b> 1.1) 1.1. Design process. 1.2) 1.2. User needs. 1.3) 1.3. Market survey. 1.4) 1.4. Product validation 1.5) 1.5. Product option 1.6) 1.6. Design specification	
<b>2. 2. Research data collections</b> 2.1) 2.1. Market survey. 2.2) 2.2. Data presentation	
<b>3. 3. Research and design development</b> 3.1) 3.1. Concept design 3.2) 3.2. Concept design generation. 3.3) 3.3. Concept design mapping. 3.4) 3.4. Concept design evaluation 3.5) 3.5. Concept technology readiness 3.6) 3.6. Concept design selection	
<b>4. 4. Design Brief: Concept Generation</b> 4.1) 4.1. Concept design mapping 4.2) 4.2. Concept design generation 4.3) 4.3. Concept design evaluation 4.4) design selection 4.5) 4.5. Concept design prototyping 4.6) 4.6. Product development report 4.7) 4.7. Conceptual design	

<b>Assessment Breakdown</b>	<b>%</b>
Continuous Assessment	100.00%

<b>Details of Continuous Assessment</b>	<b>Assessment Type</b>	<b>Assessment Description</b>	<b>% of Total Mark</b>	<b>CLO</b>
	Assignment	n/a	30%	CLO1
	Case Study	Case Study	30%	CLO2
	Presentation	n/a	40%	CLO3

<b>Reading List</b>	This Course does not have any book resources
<b>Article/Paper List</b>	This Course does not have any article/paper resources
<b>Other References</b>	This Course does not have any other resources