



UNIVERSITI TEKNOLOGI MARA

IDE610: DEGREE PROJECT I

Course Name (English)	DEGREE PROJECT I APPROVED
Course Code	IDE610
MQF Credit	4
Course Description	This course aims to prepare students for developing their understanding in design analogy of Industrial Design in relation to identify design problems and design solutions. This course will give students capability to analyze and creatively apply their knowledge in developing their design problems to design solutions. This course will guide students in developing their final degree project with the main focus for human centric approach, sustainability and commercialization. At this semester, the program department will appoint respective supervisor to assist them focusing on any Industrial design selected field of product, transport and furniture
Transferable Skills	Research Analysis Design
Teaching Methodologies	Lectures, Lab Work, Studio, Discussion, Presentation, Project-based Learning
CLO	CLO1 Propose appropriate local community issues with relevant design research, analysis and synthesis plan CLO2 Demonstrate clear academic discourse through research data as part of design development. CLO3 Demonstrate effort in development and production of design solutions to meet identified needs and opportunities. CLO4 Complete comprehensive design decision-making process towards relevant alternative design possibilities
Pre-Requisite Courses	No course recommendations
Topics	
1. INTRODUCTION TO DESIGN ANALOGY 1.1) UNDERSTAND DESIGN PROBLEMS, DESIGN SOLUTIONS AND DESIGN PROCESS	
2. INTRODUCTION TO RESEARCH DESIGN/DESIGN RESEARCH 2.1) QUANTITATIVE, QUALITATIVE AND TRIANGULATION	
3. QUANTITATIVE, QUALITATIVE AND TRIANGULATION 3.1) TECHNIQUE, TOOLS AND INSTRUMENTATION	
4. DATA ANALYSIS 4.1) BASIC INTRODUCTION TO SPSS, ATLAS T.I	
5. INTRODUCTION- DIVERGENCE - (RESEARCH) 5.1) UNDERSTAND INTENT, PEOPLE AND CONTEXT	
6. SENSE INTENT 6.1) OBSERVE LATEST TREND AND TECHNOLOGY	
7. KNOW CONTEXT 7.1) OVERVIEW OF MEGA TREND - POLITICAL, ENVIRONMENT, SOCIAL AND TECHNOLOGY	
8. KNOW PEOPLE 8.1) POPULATION AND SAMPLING	
9. DIVERGENCE TO TRANSFORMATION -(ANALYSIS) 9.1) IDENTIFY MEGA TREND AND MICRO TREND PATTERN	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Task 2 - Design Research	10%	CLO2
	Assignment	Task 1-Sense Intent, Know Context, Know People	10%	CLO1
	Assignment	Task 3- Analyze Findings	10%	CLO3
	Assignment	Task 4-Explore, Organizing, and Communication Concepts	10%	CLO4
	Final Project	Final Project Assessment	60%	CLO4

Reading List	Recommended Text	<ul style="list-style-type: none"> • Brenda Laurel 2003, <i>Design Research</i>, The MIT Press England [ISBN: 0262122634] • Vijay Kumar 2013, <i>101 Design Methods</i>, John Wiley & Sons, Inc New Jersey [ISBN: 9781118083468] • Hartmut Esslinger 2012, <i>Design Forward</i>, Arnoldsche Verlagsanstalt GmbH [ISBN: 9783897903814] • Prasad Boradkar 2010, <i>Designing Things</i>, Berg Publishers [ISBN: 9781845204273]
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Article/Paper List	This Course does not have any article/paper resources
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Other References	This Course does not have any other resources
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