UNIVERSITI TEKNOLOGI MARA
ADE640: DESIGN EDUCATION AND TECHNOLOGIES

Course Name (English)	DESIGN EDUCATION AND TECHNOLOGIES APPROVED
Course Code	ADE640

MQF Credit	3

Course Description	This course promoting understanding of design's impact on innovation among students. It's also designed to give the student communication skills essential to success in their innovative project seminar. This course will specifically go over building confidence, self-concept, verbal and non-verbal communication to delivering ideas in innovative design. The exhibition Innovative Projects in Art and Seminar is to prepare the students for Product Design as up-and-coming New designers who have broad knowledge and good character in facing globalization. The students will present their projects in class seminar followed by discussions. Through a series of lectures, workshops, individual research projects, students will gain skills and understanding of the theoretical, per formative and evaluative knowing of design practice and criticism.

Transferable Skills	Effective Communicator Adaptable Technology Savvy Creative Innovative Independent and Critical Thinker Solution Provider Expert in the Field Entrepreneurial

Teaching Methodologies	Lectures, Blended Learning, Studio, Seminar/Colloquium, Problem Based Learning (PBL), Presentation, Workshop, Computer Aided Learning

CLO	CLO1	Conduct seminar and its role on art education and its use in community development.
	CLO2	Relate learning theories and learning systems and are able to apply it into a design and inovation setting.
	CLO3	Produce visual vocabulary based on the new media in the formal structure of design.

Pre-Requisite Courses	No course recommendations

Topics
1. Design-Driven Innovation 1.1) • Design for Growth and Prosperity 1.2) • Design as a driver of user-centered innovation 1.3) • An Action Plan for Design-Driven Innovation 1.4) • Advocating design's role in innovation 1.5) • Applying design methods in multidisciplinary research and product design innovation that address complex challenges 1.6) • Developing competencies and applying methods for design-driven innovation in education 1.7) • Promoting design-driven innovation in industries to strengthen Local entrepreneurial competitiveness
2. Conceptualization and Idealization (translation of Innovative ideas to Real Product) 2.1) Innovative Design process 2.2) Identifying And Defining The Problem 2.3) Collecting and Analyzing Information
3. Synthesis-Brainstorm/Analyze 3.1) Core Strategies Analyze Tool in innovation and invention 3.2) • SWOT Analysis : Discover New Opportunities, Manage and Eliminate Threats

4. Presentation Skill
4.1) Definition, Purpose and Type of Oral Presentation
4.2) Factor To Be Considered When Preparing Effective Oral Presentations

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Project and mock up	30%	CLO3
	Group Project	Seminar and Presentation	30%	CLO1
	Visual Asssessment	Research Work Book	40%	CLO2

Reading List	Recommended Text	Eastman.c;Newsletter.W:McCracken.m. 2001, *Design nkowing and Learning:Cognation in Desi*, Elsevier Science
	Reference Book Resources	• **Young, Ralph 2001, *Effective Requirements Practices With CD-ROM*, New York:Addison Wesley Longman,Incorporated**
		• **Kyle Lynn. 2001, *Lynn Kyle;s Photoshop Training Course:A Digit*, Prantice Hall PR,Boxed Addition**
		• **Heinich,Molenda,Russel,Smalldino 2002, *Instructional Media And Technologiest*, Ohio: Merrill Prentice Hall**
		• **Lisa Graham 1999, *The priciples of Intuitive Design*, The priciples of Intuitive Design**
		• **Jacobson Robert 2000, *Information design*, 1 Ed., The MLT Press**
		• **Skomars,Nancy 1999, *Education with the Internets:Using Net resour*, NA.NA**
		• **David H.Jonnassen,Kyle L.Peck,Brent G.Wilson 1998, *Learning With Technology:A Constructivist App*, New York;Paperback**
		• **Elizabeth Resnick 2003, *Design For Communication Conceptual Graphic D*, United State;Wiley**
		• **Poppy Evans.Mark Thomas 2004, *Exploring The Element of Design*, Unotes States:Thomson Delman Learnig**
		• **Onn Seng Tan 2003, *Problem Based-Learning:Using Problems To Powe*, Singapore Thomson Learning**
		• **Bard,William 1999, *The Internet for Teachers*, New York;Hungary Minds,Incorporated**
		• **Darcy,Dinucci 1998, *Elements of Web Design.*, Berkeley:Peachpit Press**
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	