



UNIVERSITI TEKNOLOGI MARA

DTC764: METAL DESIGN

Course Name (English)	METAL DESIGN APPROVED
Course Code	DTC764
MQF Credit	4
Course Description	Metal Design Technology is contingent on student being committed, technically competent, and ready to pursue jewelers and metalwork ideas and aesthetic on a professional level. It offers a wider opportunity for the students to explore material, technology, innovation and design rational through exploratory and scientific research methods. This will be done through aspect of market study, lifestyle and integration between craft, culture and technology. It involves advanced study in 'metal-working' covering masterwork production utilizing formal concepts and processes of individual choice, to produce samples and test pieces for data collection and documented report related to the findings and results.
Transferable Skills	Students be able to research, experimentation, exploration, observation and analytical thinking. Capable to generate product ideation and prototyping process for Jewellery and Metalwork that are at the forefront with the ability to adapt relevant cultural and aesthetic trend both historical and contemporary to portray leadership skill
Teaching Methodologies	Lectures, Studio, Workshop
CLO	CLO1 1. Apply knowledge in research methodology observe a professional work culture focusing on the needs of industry and the latest development.(C3, P3, A1) CLO2 2. Carry out and produce new discovery in the form of 'samplings' that can be used or applied in the designs and prototypes that will change market expectations.(C5, P4, A3) CLO3 3. Develop metal production industry in the creation of new products either in terms of material or technology. (C5, P5, A4)
Pre-Requisite Courses	No course recommendations
Topics	1. 1. Overview of the course. 1.1) 1.1. Introduction to Jewellery and Metalwork Design Technology 1.2) 1.2. Objective of the course 2. 2. Understanding on application of related methodology. 2.1) 2.1 Exploratory research. 2.2) 2.2 Experimental research 2.3) 2.2 Practice base research 2.4) 2.3 Biomimicry research 3. 3. Understanding issues on current market trend. 3.1) 3.1 Research on design problems. 3.2) 3.2 Research on current trend. 3.3) 3.3 Focusing future trend and contemporary issues. 4. 4. Field work and observation regarding existing design 4.1) 4.1 Local 4.2) 4.2 Global. 5. 5. Experimentation and exploration on materials. 5.1) 5.1 Produce test pieces as 'samplings' 5.2) 5.2 Get the findings and results.

<p>6. 6. Analytical and set criteria for the studies. 6.1) 6.1. Analyze the 'samples' and findings. 6.2) 6.2. Analyze and decisive actions.</p>
<p>7. 7. Selection on the suitable techniques or technologies. 7.1) n/a</p>
<p>8. 8. Ideation process 8.1) 8.1 Forming the design theme 8.2) 8.2 Forming the concept 8.3) 8.3 Choice of motif and subject matter.</p>
<p>9. 9. Implementation on the experimentation or exploration in product 9.1) n/a</p>
<p>10. 10. Exploration of design ideas and product samples. 10.1) 10.1 Apply research findings in jewellery and metalwork products</p>
<p>11. 11. Analytical studies on the implementation of product samples. 11.1) 11.1 The discovery of the production of jewellery and metalwork products.</p>
<p>12. 12. Product prototyping. 12.1) n/a</p>
<p>13. 13. Product testing and evaluation. 13.1) 13.1 Analyze the designs and discovery of new technologies.</p>
<p>14. 14. Analytical studies of the product findings 14.1) 14.1 Implementation of market testing and understanding market needs and 14.2) users.</p>

Assessment Breakdown	%
Continuous Assessment	60.00%
Final Assessment	40.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Assignment	Progressive Assessment - 60% • Research -20% • Process of visual research / materials-20% • Ideation process - 20%	60%	CLO1 , CLO2 , CLO3

Reading List	Reference Book Resources
	<ul style="list-style-type: none"> • Anastasia, Y. 2010, <i>The Workbench guide to Jewellery Techniques</i>, London: Thames & Hudson • Carles, C. 2006, <i>Complete Book of Jewelry Making: A Full-color Introduction To The Jeweler's Art</i>, N.Y : Sterling Publishing Co. Inc • David, W. 2008, <i>Artist in Jewellery, London</i>, ARNOLDSCHE Art Publisher, Stuttgrat, • Jim, M. 2007, <i>Wire Wrapping: The Basic and Beyond</i> • Joanna, G. 2006, <i>Making Metal Jewellery: Projects, Techniques, Inspiration</i> • Sulaiman, S. 2004, <i>Research Methods for the Social Sciences, Malaysia: made simple</i>, DSS publishing enterprise,. • Tim, Mc. C. 2005, <i>Jewelry Making Techniques for Metal</i>, Dove Publications
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources