



UNIVERSITI TEKNOLOGI MARA

EAD434: JEWELLERY CASTING

Course Name (English)	JEWELLERY CASTING APPROVED
Course Code	EAD434
MQF Credit	2
Course Description	This course will give you an introduction into casting metal for jewellery and small objects making process. The focus will be on exploring the physical properties of a range of materials and processes used in small scale metal casting. Processes covered will include lost wax, cuttlefish, multiple and ingot casting. Through practical demonstrations, students will learn how to duplicate an existing object and also create a wax pattern for jewellery artworks.
Transferable Skills	Metal Production method skill
Teaching Methodologies	Lectures, Blended Learning, Demonstrations, Practical Classes, Tutorial, Discussion, Workshop
CLO	CLO1 Describe and apply specific occupational, health and safety measures when making works using metal, processes. CLO2 Explain basic knowledge of metalsmithing terminology and technique. CLO3 Practicing the acquired theoretical knowledge through workshop practices.
Pre-Requisite Courses	No course recommendations
Topics	
1. Overview of the course. 1.1) 1.1. Introduction to Casting Technique 1.2) 1.2. Objective of the course	
2. Introduction to studio and workshop: 2.1) 2.1 Safety precautions? 2.2) 2.2 Rules and regulation in the workshop	
3. Casting 3.1) 3.1 DDefinitions?and history 3.2) 3.2 The introduction of casting technique 3.3) 3.2.1 Expendable casting 3.4) 3.2.2 Non-expendable casting 3.5) 3.3 Types of casting and process 3.6) 3.3.1 Cuttlefish Casting 3.7) 3.3.2 Investment/lost wax casting	
4. Tools, equipment and function 4.1) The introduction of tools and equipment involved in casting technique.	
5. Casting processes 5.1) 5.1 Master Pattern/ Wax curving 5.2) 5.2 Wax Pattern/ Ingate system 5.3) 5.3 Mould making 5.4) 5.4 Dewaxing/ lost wax 5.5) 5.5 Pouring 5.6) 5.6 Finishing	
6. Casting Defect 6.1) 6.1 Advantages 6.2) 6.2 Disadvantages 6.3) 6.3 The solution	

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO
	Final Project	Casting	60%	CLO3
	Individual Project	Project Practice The students will practice cuttlefish bone casting technique for the basic casting knowledge.	20%	CLO2
	Written Report	Project Report	20%	CLO1

Reading List	Recommended Text	Anastasia Young 2010, <i>The Workbench Guide to Jewelry Techniques</i> , Thames & Hudson United Kingdom
	Reference Book Resources	<ul style="list-style-type: none"> • C.W. Ammen 2006, <i>Metal Casting, Craft Master</i> • Erhard Brepohl, Tim McCreight & Charles Lewto 2001, <i>Theory and</i> , Brynmorgen Press • Tim McCreight 2004, <i>Complete Metalsmith: Professional Edition</i>, Brynmorgen Press • Jinks McGrath 2007, <i>The Complete Jewellery Making Course; Princip</i>, Page One Publishing Private Limite • Bruce G. Knuth 2001, <i>Jewelers Resource: A Reference of Gems, Me</i>, Jewelers Press
Article/Paper List	This Course does not have any article/paper resources	
Other References	This Course does not have any other resources	