



UNIVERSITI TEKNOLOGI MARA

JMD245: GEMMOLOGY - GEM IDENTIFICATION

Course Name (English)	GEMMOLOGY - GEM IDENTIFICATION APPROVED		
Course Code	JMD245		
MQF Credit	3		
Course Description	This is an introductory level in gemology course as it is important to jewellery. This course offers a board overview of gemstone study including its visual observation, physical properties and optical properties. Students will learn about gemstones theoretically and practically throughout series of lab test sessions using basic gemology instruments including loupe, tweezers, microscope, polariscope, refractometer, dichroscope, spectroscope, chelsea color filter, fluorescence and hydrostatic weight.		
Transferable Skills	Life-Long Learning and Information management		
Teaching Methodologies	Lectures, Lab Work, Demonstrations		
CLO	CLO1 Identify various species, characteristics, and trade name of gemstones CLO2 Displays skills in handling gemology lab instrument and equipment according to procedure. CLO3 Demonstrate a self-reliant attitude in performing all gemmology tasks.		
Pre-Requisite Courses	No course recommendations		
Reading List	<table border="1"> <tr> <td>Recommended Text</td> <td> <ul style="list-style-type: none"> • 2006, <i>Gem Identification</i>, Asian Institute of Gemological Sciences (AIGS) Bangkok, Thailand • Peter G. Read 2005, <i>Gemmology</i>, Butterworth-Heinemann [ISBN: 0750664495] • Walter Schumann 1992, <i>Minerals of the World</i>, Sterling Publishing (NY) [ISBN: 0806985704] • B. Anderson 2010, <i>Gem Testing</i>, Sutton Press [ISBN: 1445512424] • Judith Crowe 2006, <i>The Jeweler's Directory of Gemstones</i>, Richmond Hill, Ont. : Firefly Books [ISBN: 9781554071661] • David D. 1976, <i>Rocks</i>, William Collin Son & Ltd. Glasgow Graet Britain [ISBN: 978-0-586-043] • R. F. Symes 2004, <i>Rocks and Minerals</i>, Dk Pub [ISBN: 0756607183] • Kraus, E. H. Hunt, W. F. Ramsdell, L. S. 1959, <i>Mineralogy an Introduction to the Study of Mineral and Crystals</i>, Mcgraw-Hil Book Company New York • Peter G. Read 2008, <i>Gemmology</i>, Robert Hale [ISBN: 0719803616] </td> </tr> </table>	Recommended Text	<ul style="list-style-type: none"> • 2006, <i>Gem Identification</i>, Asian Institute of Gemological Sciences (AIGS) Bangkok, Thailand • Peter G. Read 2005, <i>Gemmology</i>, Butterworth-Heinemann [ISBN: 0750664495] • Walter Schumann 1992, <i>Minerals of the World</i>, Sterling Publishing (NY) [ISBN: 0806985704] • B. Anderson 2010, <i>Gem Testing</i>, Sutton Press [ISBN: 1445512424] • Judith Crowe 2006, <i>The Jeweler's Directory of Gemstones</i>, Richmond Hill, Ont. : Firefly Books [ISBN: 9781554071661] • David D. 1976, <i>Rocks</i>, William Collin Son & Ltd. Glasgow Graet Britain [ISBN: 978-0-586-043] • R. F. Symes 2004, <i>Rocks and Minerals</i>, Dk Pub [ISBN: 0756607183] • Kraus, E. H. Hunt, W. F. Ramsdell, L. S. 1959, <i>Mineralogy an Introduction to the Study of Mineral and Crystals</i>, Mcgraw-Hil Book Company New York • Peter G. Read 2008, <i>Gemmology</i>, Robert Hale [ISBN: 0719803616]
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Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		