

# MAHARISHI UNIVERSITY OF MANAGEMENT

## CS-401 Modern Programming Practices

The Field of All Possibilities is the Source of All Solutions

### Course Overview Chart

WEEK		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
WEEK ONE  THEME I OOAD	AM	<b>Lesson 1:</b> <b>The OO Paradigm for Building Software Solutions</b>  <i>Unlocking the Blueprint of Creation</i>	<b>Lesson 2:</b> <b>[Lab 1 due 10 AM] Associations among Objects and Classes</b>  <i>Diversifying Self-Referral relationship to the world of objects</i>	<b>Lesson 3:</b> <b>[Lab 2 due 10 AM] Inheritance and Composition</b>  <i>Reflecting the Whole in the Part</i>	<b>Quiz – 1</b> <b>Lesson 4:</b> <b>[Lab 3 due 10 AM] Interaction Diagrams</b>  <i>Appreciating Dynamism in Silence</i>	<b>Lesson 5:</b> <b>[Lab 4 due 10 AM] Interfaces and Abstractions</b>  <i>Engaging Abstract Levels to Enrich Life</i>	<b>Midterm Review</b>
	PM	Lab 1: Discussion	Lab 2:  Lab 1 Solution & Lab 2 Discussion	Lab 3:  Lab 2 Solution & Lab 3 Discussion	Lab 4:  Lab 3 Solution & Lab 4 Discussion	Lab 5: Mid Term Review Lab 4 Solution & Lab 5 Discussion	
	Eve	Study of Lesson 1 and homework completion	Study of Lesson 2 and homework completion	Study of Lesson 3 and homework completion	Study of Lesson 4 and homework completion	Study of Lesson 5 and homework completion	Study and practice week1 topics
WEEK TWO  THEME II OOAD	AM	<b>Midterm Examination</b>	<b>Lesson 6</b> <b>Advanced Swing</b>	<b>Project</b>	<b>Project</b>	<b>Project</b>	<b>Project Presentation</b>
	PM		<b>Design Workshop and Project</b>	<b>Project</b>	<b>Project</b>	<b>Project</b>	
	Eve		<b>Project Work</b>	<b>Project Work</b>	<b>Project Work</b>	<b>Project Work</b>	

WEEK		MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
<b>WEEK THREE</b>  <b>THEME III</b>  <b>Functional Programming</b>	AM	<b>Lesson 7:</b> <b>Interfaces in Java 8 and the Object Superclass</b> <i>Object as the Superclass of All</i>	<b>Lesson 8:</b> <b>[Lab 7 due 10 AM] Functional Programming in Java</b> <i>Commanding All the Laws of Nature from the Source</i>	<b>Lesson 9:</b> <b>[Lab 8 due 10 AM] The Stream API</b> <i>Solving Problems by Engaging Deeper Values of Intelligence</i>	<b>Lesson 9:</b> <b>(continued)</b>	<b>Lesson 10</b> <b>[Lab 9 due 10 AM] Generic Programming</b> <i>Weaving the Universal into the Fabric of the Particular</i>	<b>[Lab 10 due 10 AM]</b>  <b>Lab 10 solutions</b>  <b>Review</b>  <b>Quiz – 2</b>
	PM	Lab 7 : Discussion	Lab 8:  Lab 7 Solution & Lab 8 Discussion	Lab 9:  Lab 8 Solution & Lab 9 Discussion	Lab 9: Some Lab 9 solutions, The Rest of Lab 9	Lab 10:  Lab 9 Solution & Lab 10 Discussion	
	Eve	Study of Lesson 7 and homework completion	Study of Lesson 8 and homework completion	Study of Lesson 9 and homework completion	Study of Lesson 9 and homework completion	Study of Lesson 10 and homework completion	Study and practice week3 topics
<b>WEEK FOUR</b>  <b>THEME IV</b>  <b>Functional Programming Best Practices</b>	AM	<b>Lesson 11</b> <b>Best Programming Practices with Java 8</b> <i>Progress through Purification of the Path</i>	<b>Review points for final</b>  <b>Lab 11 solutions</b>		<b>Final Examination</b>		
	PM	Lab 11 : Discussion					
	Eve	Study of Lesson 11 and homework completion	Study for Final	Study for Final			