



® Aptech Learning Darbhanga

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Smart Professional Android (OV-5010)				
Duration:	8 Months*	Fee:	LUMP SUM	INSTALLMENT
Eligibility:	Undergraduates/ graduates/ working professionals/ engineers			
Job opportunities:	On successfully completing the Smart Pro Android course, you will be ready to join top companies as Java Developer, Android App Developer.			
Evaluation Strategy:	Award of Grades			
	PASS	CREDIT	DISTINCTION	
	Overall Weighted Marks >= 40% but < 60% qualifies for PASS	Overall Weighted Marks >= 60% but < 75% qualifies for CREDIT	Overall Weighted Marks >= 75% but < 60% qualifies for DISTINCTION	
	Note: To attain a PASS/CREDIT/DISTINCTION grade, a student should achieve at least 40% in Final Examination; otherwise he/she will be declared as ‘Referred’.			
Learner’s Guide (eBook)	Course Content			
	Fundamentals of Java		Object oriented Programming with Java	
	<ul style="list-style-type: none">1. Develop classes and how declare classes2. Create a Java class3. Understand the benefits of using an IDE4. Declare and initialize variables5. List and understand the different data types6. Understand the major operators7. Understand the use of decision making and loop constructs8. Work with Arrays and String classes9. Understand the use of packages and access specifiers10. Use inheritance to declare and define a subclass for a superclass11. Understand nested class12. Describe error handling in a Java program13. Explain the new Date and Time API14. Explain the Functional programming features of Java 815. Explain the new Features of Java		<ul style="list-style-type: none">1. Explain Exceptions and Assertions2. Implement Java I/O operations3. Explain on how to build database applications with JDBC4. Describe Thread implementation in Java5. Explain the role of Lambdas in refactoring Java6. Explain Swing API7. Describe Concurrency and Parallelism in Java8. Define Class Design9. Describe Java Data Structures10. Understand Java Logging API and ResourceBundle11. Explain JavaDoc12. Describe how to work with Lambda	
	Modern Android Apps Development			
	<ul style="list-style-type: none">1. Identify different techniques to plan, design and prototype your mobile apps before writing any code2. Understand the App life cycle and its main components3. Learn to create a graphical user interface (GUI)4. Learn to implement a custom application theme5. Implement menu-based navigation6. Design and build a functional Android application7. Set up and understand your Android Development Environment8. Learn to program with Android 9 (Pie) and Notifications9. Implement display cutouts			

	UI/UX for Mobile Devices	
	<div><div>1. Define User Interface (UI) and User Interface design</div><div>2. List and explain the different elements of User Interface Design</div><div>3. Describe the principles of User Interface Design</div><div>4. Describe the types of User Interface Design</div><div>5. Explain the User Interface Design process</div><div>6. Describe the models in User Interface Design</div><div>7. Define User Experience (UX) and User Experience Design</div><div>8. Describe the difference between UI and UX</div><div>9. Describe the different elements of UX Design</div><div>10. Explain the significance of UX</div><div>11. List and explain the principles of User Experience Design</div><div>12. Describe the best practices in User Experience Design</div><div>13. Define Responsive UI design</div><div>14. Describe the evolution of RWD</div><div>15. Describe the importance of Progressive Enhancement</div><div>16. Outline the differences between Graceful Degradation and Progressive Enhancement</div><div>17. Explain the RWD Workflow</div><div>18. Describe the significance of RWD</div><div>19. Explain the strategies for RWD in mobile phones, Android based devices, and laptops</div><div>20. Describe the need for content strategy in RWD</div></div>	<div><div>21. Describe the importance of content audit</div><div>22. Explain the performance optimization for a mobile-friendly site</div><div>23. Explain the difference between responsive and adaptive Website designs</div><div>24. Define Breakpoints</div><div>25. Describe Navigation Drawers</div><div>26. Describe Stacked Pagination</div><div>27. Explain Fluid Images</div><div>28. Define Bottom Bar</div><div>29. Describe Top Bar</div><div>30. Define Front Action Calls</div><div>31. Explain Short and Simple Menus</div><div>32. Describe usability studies</div><div>33. Explain the importance of usability studies</div><div>34. List the steps for testing in usability studies</div><div>35. Describe usability studies for Responsive Web Design</div><div>36. Describe the mobile User Interface (UI)</div><div>37. Describe the mobile User Experience (UX)</div><div>38. Describe the application of mobile UI</div><div>39. Describe the application of mobile UX</div></div>
	Testing Apps using Android	Project-Android App Development
<div><div>1. Learn Software Testing</div><div>2. List Android Testing Framework</div><div>3. Understand Components Used for Creating Tests</div><div>4. Understanding Android Testing Environment</div><div>5. Learn Testing Android Projects</div><div>6. Learn Testing for Different Situations</div><div>7. Learn Auomation Testing and AWS device farm</div></div>		
Documents Required:	<div><div>1. All educational certificates</div><div>2. Age proof</div><div>3. Residential address proof (Permanent and Current)</div><div>4. Two Passport size Photograph</div></div>	
Pay your fee Offline as well as Online, For Online Payment Scan QR Code		