

Diploma Program in 'Mobile App Development (Android)'

Duration: 52 weeks

Sr.	Name of the		
No.	Programme	Details About the Programme	Remarks
1.	Diploma Certificate course in 'Mobile App Development (Android)'	 Mission of AIIITS: The mission of AIIITS is to advance knowledge and educate students in information Technology and other areas that will best serve the nation. Vision of AIIITS: To position AIIITS as a premier institute responsive to emerging needs of industry. To produce high skilled graduates and contribute towards sustainable development of the industry and nation. 	
		 Introduction to the Programme: An Android app is a software application running on the Android platform. Because the Android platform is built for mobile devices, a typical Android app is designed for a smartphone or a tablet PC running on the Android OS. This Diploma programme has been designed keeping mind the rising demand of mobile applications. Every organizations are having their own mobile app, which facilitates and makes their services easy to deliver and also can expect commitments from their clients. So every companies are now investing in developing their own mobile App which leads to the rise in the employability in mobile app development. In India the widely developed mobile App is done using Android platform so this diploma program is developed keeping Android in mind. This Diploma program will be especially useful for the beginners who want to learn Mobile application 2. Objectives of the Programme: The course aims at developing logics and algorithms, imparting relevant programming abilities and develop mobile application, this program also develop capabilities to manage database and integrate database with the applications and to deploy it in Google play store. Objectives: the objectives of the proposed course are to impart knowledge on the following: Developing logics and algorithms and programming skills to develop mobile applications and its connectivity with database. Developing skills to develop websites. 	

3. Learn skills which can give a very promising
career.
3. Target Group of Learners:
Diploma in Mobile App development is meant for
anyone who want to make their career in IT and
mobile app development or to start a business in
mobile app development. Career options will be there
for website development or as software developer or
as a Android App developer. Any students after
completion of this program can get placed in industry
as Mobile App developer or software developer and
with experience they can grow in their career path. It
also helps to build a promising career in every aspects.
4. Instructional Design:
The course will consist of live lectures, videos and
assignments for every modules. After every module
doubt-clearing sessions will be arranged where
students will be free to clear their doubts. After the
completion of all the modules projects will be allotted
to students.
5. Instructional Design:
1. Duration of the Programme: 12 months
n. <u>Course delivery</u>
The course will be entirely delivered <i>online</i> . There are
five modules of the course which will be shared by
sending a link to the participants each week. Each
week's menu will cover the following:
1. Interactive Online lectures: This online
sessions will be conducted either on Microsoft
team or Google meet or Zoom. The session
link will be shared with the students.
2. <u>Video(s)</u> : The recording of the live sessions
will be there in the drive which students can
access any time.
3. <u>Lecture(s):</u> the theoretical and applied parts
of the topic will be covered in lectures.
4. <u>Exercises and data:</u> Assignments will be
allocated to the participants which they need
to complete and submit and assessments on
any particular module will be done based on
5 Doubt algoring: There will be an interaction
5. Doubt-clearing: There will be an interactive
and with the resource persons. Here the

participants can discuss their difficulties, can	
ask questions and get the doubts clarified.	
 6. Eligibility: Students with any bachelor's/Master's degree in Science/ Information Technology/ Computer Science/ Engineering/ from any recognized universities in India or other countries. 7. Procedure for admission, Curriculum transaction and evaluation: Admission is based on prerequisite degree of any recognized universities in India. The Course is affiliated to the Jain University. It is coupled with SLM study material plus personal contact programmes at various places convenient to the learners. 	
8. <u>Fee structure:</u>	
 8. Fee structure: The fees should be paid in one installment only, before the commencement of the course*. Rs. 58,000/- *Installment options can be provided with additional 8% on the course fees. The students can pay it in 4 easy installments <u>10. Syllabus:</u> <u>Topic 1: Java-</u> Java as a Programming Tool Advantages of Java The Java "White Paper" Buzzwords Java and the Internet A Short History of Java Common Misconceptions About Java The Java Programming Environment Installing the Java Software Development Kit Development Environments Using the Command Line Tools Using an Integrated Development Environment Commiling and Running Programs from a Text Editor 	
Graphical Applications Applets Fundamental Programming Structures in Java A Simple Java Program Comments Data Types Variables Assignments and Initializations Operators Strings	







GCM Notifications Content Provider Content Provider Fundamental Contact Content Provider Other Built-in Content Providers Creating Custom Content Provider Understanding Content URI Content Resolver Sharing Information from custom content provider Android Web Services Soap Vs Restful web service Android Restful web service example with java servlet Storing data into external database (**Duration-4 Weeks**)

<u>Topic 4:</u> Web Development-HTML-

Introduction, Understanding & using HTML, HTML headings, HTML Comment, HTML Paragraphs, HTML Line Breaks & Rules, HTML Tags, HTML Tables, HTML Nesting, HTML Forms

DHTML-

Introduction to DHTML, DHTML JavaScript, DHTML, HTML DOM, DHTML Events, DHTML CSS, DHTML Examples

CSS-

What is CSS? CSS Comments, Three Ways to Insert CSS, Multiple Style Sheets, CSS properties used for background effects, Text, CSS Font Families, CSS Links, CSS Lists, Table Borders, CSS Padding

JavaScript-

Introduction to JavaScript, Statements and Variables, Operators, Conditional Statements, Popup Boxes, Arrays, Events and Functions, JavaScript Form, Validation, JavaScript

(Duration-10 weeks)

Topic 5: Angular-X-

Components, Using Custom Components, Creating Components with the CLI & Nesting Components, Working with Component Templates, Working with Component Style, Practicing Components, What is Databinding, String Interpolation, Property Binding, Property Binding vs String Interpolation, Event Binding, Bindable Properties and Events, Passing and Using Data with Event Binding, Two-Way-Databinding, Important: FormsModule is Required for Two-Way-Binding,





