

**TECNIA INSTITUTE OF ADVANCED STUDIES**  
**NAAC ACCREDITED GRADE "A" INSTITUTE**  
**Master of Computer Applications**

TIAS/MCA/VAC/2018-19/11

Dated: 29/09/2018

Academic Session: 2018-19

Status on Date 29/09/2018

This is to certify that the course module for Value Added Course, entitled Certificate Course in Android Development Learning scheduled from 20.08.2018 to 29.09.2018 comprising of 30 hours deliverance has been completed by the resource person Mr. Mohit, Faculty in Department of Computer Applications with the module contents as under:

S.No.	Contents Deliverance	Learning Outcomes
1	Introduction to Android Development (1 Hrs)	Understand the basic architecture of the Android operating system and the key components of Android applications.
2	Java Programming for Android (4 Hrs)	Develop Android applications using Java or Kotlin programming languages.
3	User Interface Design and Layouts (3 Hrs)	Design user interfaces (UI) for Android applications using XML layouts and the Android Studio visual editor.
4	Activities and Intents (2 Hrs)	Implement different types of user interactions, including button clicks, gestures, and input validation.
5	Fragments (1 Hrs)	Utilize various Android components such as activities, fragments, services, and content providers to build functional and interactive applications.
6	Persistence and Data Storage (3 Hrs)	Access and manipulate data from external sources such as databases, web services, and content providers.
7	Networking and Web Services (3 Hrs)	Incorporate multimedia elements such as images, audio, and video into Android applications.
8	Background Processing and Multithreading (3 Hrs)	Understand and implement the principles of responsive design, supporting multiple screen sizes and device orientations.

9	Notifications and Broadcasts (3 Hrs)	Handle background processing and multitasking efficiently using threading and asynchronous programming techniques.
10	Advanced Topics (3 Hrs)	Utilize Android's notification system to deliver timely updates and alerts to users.
11	Testing and Deployment (4 Hrs)	Integrate device hardware features such as camera, sensors, GPS, and Bluetooth into Android applications.

All the above contents are delivered to the best of my knowledge and belief and nothing is withheld.

*mohit*

**Signature of Faculty**

**Name of Faculty: Mr. Mohit**

**Dated: 29/09/2018**

**Submitted to HoD-MCA, Department of Computer Applications**

*Students' Declaration*

We would like to declare, that the course module for Value Added Course, entitled Certificate Course in Android Development, scheduled from 20.08.2018 to 29.09.2018 comprising of 30 hours, has been completed by the resource person Mr. Mohit, Faculty in Department of Computer Applications to our satisfaction and is able to help in developing our domain knowledge and capacity building.

S.No.	Enrollment No.	Student's Name	Signature
1	00117004418	ABHISHEK KUMAR	Abhishek
2	00117024418	AASHNA CHOUDHARY	A Choudhary
3	00217004418	HIMANSHI RATHI	Himanshi
4	00317004418	MANIK BHARDWAJ	Manik
5	00317024418	KARTIK SANG	Kartik
6	00417004418	PRABAL SETHI	PRABAL
7	00517004418	PRATEEK MITTAL	P. Mittal
8	00517024418	ANKIT SHARMA	Ankit
9	00617024418	PRATEEK CHHITORIA	Prateek
10	00817024418	ANJALI DOGRA	Anjali
11	35117004418	ANKITA BAJPAI	Ankita
12	35217004418	ASHIKA KARIWAL	Ashika
13	35317004418	GAURAV KRISHAN	Gaurav
14	35417004418	RASHMI	Rashmi
15	35517004418	UTKARSH AWASTHI	U Awasthi
16	90117004418	SUSHMITA	Sushmita
17	00617004418	PRIYA	Priya
18	00521324418	SAJAL TRIPATHI	Sajal
19	00621324418	ARJAN SINGH	A Singh
20	00721324418	PRIYAM MONDAL	Priyam Mondal
21	00821324418	ANJALI GUPTA	Anjali
22	00921324418	PULKIT GUPTA	Pulkit
23	40117004418	RIJO ABRAHIM ROY	Rijo

24	00117004417	ABHISHEK GUPTA	Abhishek
25	00217004417	AJAY MAJI	Ajay
26	00317004417	DEEPAWALI SHARMA	Deepawali
27	00417004417	LAKSHIKA ADHIKARI	Lakshika
28	00517004417	MONALISHA SINGH	Monalisha
29	00617004417	PRABHAT	Prabhat
30	00717004417	RAJAT BANSAL	Rajat
31	00817004417	SAGAR PANCHAL	Sagar
32	00917004417	SIMRAN SHARMA	Simran
33	35117004417	AASHU SINGH	Aashu