

<b>Program</b>	Vocational							
<b>Year</b>	II			<b>Semester</b>	IV			
<b>Course Name</b>	Mobile Application Development							
<b>Code</b>	NVC14231							
<b>Course Type</b>	VC		<b>L</b>	<b>T</b>	<b>P</b>	<b>Credit</b>		
<b>Pre-Requisite</b>			2	0	0	2		
<b>Course Objectives</b>	To facilitate students to understand android SDK and gain a basic understanding of Android application development with working knowledge of Android Studio development tool							
<b>Course Outcomes</b>								
<b>CO1</b>	Understanding of mobile computing and anatomy of android application.							
<b>CO2</b>	Design basic user interface using common API.							
<b>Module</b>	<b>Course Contents</b>					<b>Contact Hrs.</b>	<b>Mapped CO</b>	
1	<b>Introduction to Mobile Computing</b> – Applications of Mobile Computing- Generations of Mobile Communication Technologies- Multiplexing – Spread spectrum -MAC Protocols – SDMA- TDMA- FDMA- CDMA. <b>Introduction to Android:</b> The Android Platform, Android SDK, Eclipse Installation, Android Installation, Understanding Anatomy of Android Application, Anatomy of an Android applications, Android terminologies, Application Context, Activities, Services, Intents, Receiving and Broadcasting Intents, Android Manifest file and its common settings, Using Intent Filter, Permissions.						15	CO1
2	<b>Android User Interface Design Essentials:</b> User Interface Screen elements, Designing User Interfaces with Layouts, Drawing and Working with Animation. <b>Using Common Android APIs:</b> Using Android Data and Storage APIs, Sharing Data between Applications with Content Providers, Using Android Networking APIs, Using Android Web APIs, Using Android Telephony APIs, Deploying Android Application to the World, Publishing Android application.						15	CO2

#### Suggested Readings

1. Hortan, John "Android Programming for Beginners" Packet Publication,2015.
2. Dixit, Prasanna Kumar "Android" Vikash Publication New Delhi 2014.
3. Dr. Madhu Goel, Chetna Sharma, ER. SHOBHIT "Mobile Application Development" ISHAN PUBLICATIONS 2020.
4. Dr. P. Rizwan Ahmed" Mobile Applications Development" Margham Publication 2020.
5. V.S. Bagad "Mobile Application Development" Technical Publications 2023.

#### Online Resources

1. <https://archive.nptel.ac.in/courses/106/106/106106156/>
2. [https://onlinecourses.swayam2.ac.in/nou21\\_ge41/preview](https://onlinecourses.swayam2.ac.in/nou21_ge41/preview)

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
<b>CO1</b>	2	1			2	1	2						1	1
<b>CO2</b>	2	1	2	2	3	2	2		1	1			2	1