

## SACRED HEART COLLEGE (Autonomous), Tirupattur

### II M.Sc., Computer Science- In Plant Training (2020-2021)

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### Course plan for Industrial Plant Training 2020

#	Topic	Incharge
1	Mobile App Development Introduction with IoT enabled	Joe Nishanth
2	Basic Java Introduction and need for Android app development	Edwin Louis
3	Android Sessions	Satheesh & Livingston Antony

### Prerequisites

1	All should know the basis of Core Java.
2	All must bring the laptop for the practical session.

### Duration and Additional Information

1	It is a 1-month program(21 days)/4hrs per Day and extends up to 8hrs each.
2	The format is 40% theory, 60% Hands-on.
3	Online classes will be held through BoscoLMS

Week	Title	Overview
1	Introduction to Android	<ul style="list-style-type: none"> <li>• Overview of Android and Android SDK</li> <li>• History of Android</li> <li>• Android features</li> </ul>
1	Android Architecture overview	<ul style="list-style-type: none"> <li>• Introduction to OS layers</li> <li>• Linux kernel</li> <li>• Libraries</li> <li>• Android Runtime</li> <li>• Application framework</li> </ul>
1	Setup of Android Development environment	<ul style="list-style-type: none"> <li>• System requirements</li> <li>• Eclipse and SDK installation, AVD creation</li> <li>• Creating first Android application</li> <li>• Project Structure</li> </ul>
		<ul style="list-style-type: none"> <li>• Android application building blocks</li> <li>• Activating components</li> </ul>

2	<b>Android Application Fundamentals</b>	<ul style="list-style-type: none"> <li>· Shutting down components</li> <li>· Life Cycle of Application</li> <li>· Development tools, Manifest File</li> <li>· Life Cycle of Activity</li> </ul>
2	<b>User Interface</b>	<ul style="list-style-type: none"> <li>· View Hierarchy and Layouts</li> <li>· UI Events</li> <li>· Building Menus</li> <li>· Notifying users</li> <li>· Creating dialogs</li> </ul>
3	<b>Main Building Blocks</b>	<ul style="list-style-type: none"> <li>· Activity</li> <li>· Services</li> <li>· Content Providers</li> <li>· Broadcast Receivers</li> </ul>
3	<b>Resources</b>	<ul style="list-style-type: none"> <li>· Overview of Android Resources</li> <li>· Creating Resources</li> <li>· Using Resources</li> <li>· Drawable Resources</li> </ul>
4	<b>Data Storage</b>	<ul style="list-style-type: none"> <li>· Shared Preferences</li> <li>· Internal Storage (Files)</li> <li>· External Storage(SD Card)</li> <li>· SQLite Databases</li> </ul>
4	<b>Android Media API</b>	<ul style="list-style-type: none"> <li>· Playing audio/video</li> <li>· Media recording</li> <li>· Camera</li> <li>· Google Maps</li> </ul>
4	<b>Sample App</b>	<ul style="list-style-type: none"> <li>· Deploying Android Application on Device</li> <li>· Publish the App in Google play store.</li> </ul>

