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Every Good Work

SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

Resi : (04179) 220103

College : (04179) 220553

Fax : (04179) 226423

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

6.5.3 Inplant Training 2019-2020

SACRED HEART COLLEGE (Autonomous), Tirupattur

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

S.NO	REGNO	NAME	Technology	First Name	Last Name	Aadhar No.	Mobile Number	Email ID
1	BP190501	JAYADURGA J	Android	JAYADURGA	J	874217707205	9442070661	jayadurga506@gmail.com
2	BP190502	SOWNDARYA M	Android	SOWNDARYA	M	313011879202	9344177387	soundaryamurali24@gmail.com
3	BP190503	REMIGIUS ANTHONY ROSE A	Android	REMIGIUS ANTHONY ROSE	A	910857115529	8838718215	remigius506@gmail.com
4	BP190504	HARIPRASATH V	Android	HARIPRASATH	V	588320614093	8682876305	cbe.hariprasanth@gmail.com
5	BP190505	SUBASH S	Android	SUBASH	S	791253348559	9655422424	sivasubaash96@gmail.com
6	BP190506	VAITHEESWARI M	Android	VAITHEESWARI	M	297058668626	6379098186	vaitheeswari2k@gmail.com
7	BP190507	MOHANRAJ R	Android	MOHANRAJ	R	225252467186	9626254161	mohanrajrameshc@gmail.com
8	BP190508	MONISHA M	Android	MONISHA	M	857342335785	7639939706	monishajesus02@gmail.com
9	BP190509	VERONIKA K	Android	VERONIKA	K	835824580325	6384210710	veronika4k5@gmail.com
10	BP190510	AAISHA FARHEEN G N	Android	AAISHA FARHEEN	G N	741512206997	9597520958	aaishafarheen30@gmail.com
11	BP190511	PRAVEENA K	Android	PRAVEENA	K	483003435562	9600309332	praveena2977@gmail.com
12	BP190512	FRANKLIN JOSEPH J	Android	FRANKLIN JOSEPH	J	414832268051	9655687115	franklinjosephgrace@gmail.com
13	BP190513	ARUNKUMAR S	Android	ARUNKUMAR	S	451273904439	9080199122	arunesh.uth@gmail.com
14	BP190514	EDWIN A	Android	EDWIN	A	317270183855	7339095057	edwinfrancis732@gmail.com
15	BP190515	PAVITHRA S M	Android	PAVITHRA	S M	900057645389	9500858643	smpavithra8@gmail.com
16	BP190516	ARIVUKODI C	Android	ARIVUKODI	C	409608066649	8825686413	arivukodi231998@gmail.com
17	BP190517	PAVITHRA S	Android	PAVITHRA	S	361232423634	6374403441	pavisankar02@gmail.com
18	BP190518	SOWMINI S	Android	SOWMINI	S	231664984183	9486099266	sowminichandu@gmail.com
19	BP190519	VIKRAM I	Android	VIKRAM	I	466617812005	6379144094	vikramvik860@gmail.com
20	BP190520	PRAVEENKUMAR V	Android	PRAVEENKUMAR	V	911249167910	6382052335	praveenkumarvina@gmail.com
21	BP190521	GEETHASHREE S	Android	GEETHASHREE	S	911052959299	9003680809	geethashrishekar@gmail.com
22	BP190522	KAVYA V	Android	KAVYA	V	951342800332	8667304052	kaviv553@gmail.com
23	BP190523	KIRUTHIGA S	Android	KIRUTHIGA	S	844160308104	6369122779	kiruthigakiruthiga789@gmail.com
24	BP190524	VENGATESAN K	Android	VENGATESAN	K	493657851996	9597652887	vengatesan12253@gmail.com
25	BP190525	KEERTHI M	Android	KEERTH	M	510805665678	9585662119	mkeerthimani16@gmail.com
26	BP190526	PRIYADHARSHINI S	Android	PRIYADHARSHINI	S	726928246749	9843453661	priyasanjeevi526@gmail.com

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

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

Timings		DAY 1 24/08	DAY 2 25/08	DAY 3 26/08	DAY 4 27/08	DAY 5 28/08	DAY 6 31/08	DAY 7 01/09	DAY 8 02/09	DAY 9 03/09	DAY 10 07/09	DAY 11 08/09	DAY 12 09/09	
Session 1	Starts	Inauguration	2.30 pm	3.00 pm	2.25 pm	2.20 pm	2.15 pm	2.20 pm	2.30 pm	2.15 pm	No Class	3.00 pm	2.00 pm	
	Ends		3.30 pm	3.55 pm	3.30 pm	4.15 pm	3.20 pm	4.05 pm	4.00 pm	4.00 pm		4.00 pm	4.00 pm	3.35 pm
Session 2	Starts		5.00 pm	5.15 pm	5.15 pm	5.05 pm	5.00 pm	5.00 pm	5.00 pm	5.00 pm	5.15 pm	5.05 pm	5.10 pm	5.00 pm
	Ends		6.00 pm	6.10 pm	6.15 pm	6.20 pm	6.10 pm	6.10 pm	6.10 pm	6.10 pm	6.10 pm	6.00 pm	6.00 pm	5.30 pm
					DAY 13 10/09	DAY 14 11/09	DAY 15 14/09	DAY 16 15/09	DAY 17 16/09	DAY 18 17/09	DAY 19 18/09	DAY 20 21/09		
					2.00 pm	1.45 pm	2.00 pm	2.00 pm	2.00 pm	2.00 pm	No Class	No Class	2.15 pm	
					4.00 pm	4.10 pm	3.20 pm	3.15 pm	3.00 pm	3.00 pm			3.15 pm	
					5.00 pm	5.05 pm	5.10 pm	5.10 pm	5.00 pm	5.10 pm	5.10 pm	5.10 pm	5.10 pm	
					6.00 pm	6.05 pm	6.05 pm	6.10 pm	6.00 pm	5.50 pm	5.50 pm	6.00 pm	6.00 pm	

Timings		DAY 21 22/09	DAY 22 23/09	DAY 23 24/09	DAY 24 25/09
Session 1	Starts	2.00 pm	2.15 pm	2.15 pm	2.10 pm
	Ends	3.00 pm	3.15 pm	3.10 pm	3.25 pm
Session 2	Starts	5.00 pm	5.10 pm	No Class	5.10 pm
	Ends	5.30 pm	5.20 pm		6.00 pm