Report On the Android App Development Course

Session 2017

The short term add-on course on Android App Programming for the session 2017 was conducted by the the Department of Computer Science And Applications for a duration of 3 months June- August 2017.

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

The Course introduced students to mobile application development for the Android platform. Students learnt the skills for creating and deploying Android applications.

Session 2017 catered, mostly to students of the Department, the aim, of which, was to give our students an edge over up to date technology With this in mind, no publicity was made for the course

Enrolment : Forty seven students enrolled, out of which two are not from the College and employed.

Course Completion: Twenty one students completed the course successfully and gave their project viva. Fifteen students discontinued the course early on because lab timing did not suit their schedule and adjustment for this could not be made as regular courses are also running in parallel. Eleven students did not appear for the project viva.

Twenty one certificates were handed out to successful students .

Problems Faced and Future Plans:

Conducting the course in the odd semester had been difficult because there was so much contention for the lab, to the point that a break of one month had to be given to

the students before their projects. This was also one of the reasons why some students discontinued the course.

In the coming session, as a trial, the Department decides to conduct the course in the even semester rather than the odd semester as the number of practical papers is lesser in the odd semester, hence prospecting that lab timings will be a little more flexible for adjustments.

In the future, the Department also plans to invite Resource Persons from outside , having expertise on the field , for some classes.

Further, all transactions involving cash will no longer be handled by the Department but will be taken care of by the College Management .

Resource Persons:

- 1. Shri D Thabah: BE, MTech
- 2. Shri R. Hoojon: MCA
- 3. Shri T.Warjri: MSc(Computer Science)

(A. M. M. L.).

Course Coord

		Shill Department Of Comp	ong College uter Science And	Application	S		
45		Certificate Course or	Android App De	evelopment			
Project Viva						Date: 17.09	2.2018
il. No Name	Class	APP Title	Presentation - 10 C	omplexity - 10	Completeness - 10	otal(30 marks) %	Grade
Jamestar Kurbah	BCA 6s	Cool Wallpaper	10	9	4	28	Þ
2 Donaban Kharmawphlang	BCA Es	Quiz App	9	10	2.	27	Þ
3 Kermiki Suchiang	BCA Es	Picture Match Memory Game	10	0	6	1-3 CQ)]>
4 Khlain Kupar Nongrang	BCA Es	Roulette	9	ŝ	10	БЛ Г	2
5 Kmenlang Phanjoy	BCA és	Rock paper scissors	10	0.	101	2.0	Þ
6 Gifty Grace Nongdhar	BCA Es	White board app	0.E	2	01	29	34°
Äkansha	BCA 4s	order a pizza	9	5	10	27	301
S Jaihunlang Lyngdoh Nonglait	BCA Es	spin the bottle	201	CO	00	52	j.»
DaeBiang	BCA 4s	Quiz App	0	0	2	50	
10 Sapana Fullel	BCA 45	Spin the Bottle	-0-	(à	00	t-U Un	30
11 Ribadme Jeengaphs	BCA 45	Coin flip		00	(54)	52	A
12 Deivica Dhar	BCA 6s	TIC TAC TOP	10	6	101	<u>k-1</u> 00	25
15 Ibanaris Nongbsap	BCA 65	Cein flip	50	00	60.	2[5]	A
14 Rajdeep Koch	BCA 4s	Spelling Checker App	10	60	LC	4-3 00	1>
15 Pynkhrawbok Mawlong	BCA 6s	speed click	10	60	9	27	Þ
16 Garolius Shadap	BCA 6s	Drumpad	-9	0	60	25	Þ
17 Banteilang	employed	NEIGHRMS Guest house	10	10	10	30	Þ
18 Wandarisha Sohtun	BCA 6s	Multiplication table	.00	6	<u>_</u> 0	26	A
19 Elvis Lyngkhoi	BCA 4s	Dictionary	9	00	8	2 5	A
20 Dipadehun Khonglah	BCA 4s	AReport Report Subjection on a	k.) 0	9	8	2/5	A
21 Ofiliality suchiang	BCA 4s	* Include Report Salaris via and	00	9	9	26	A
Co-ordinator:					π	ixaminers	
(A.M. Mulli					=: -:) R Hoojon } A Mitri	

Department of Computer Science And Applications Shillong College

Add-on course on Android App Development

Teachers' Attendance

Sr. No	Name of Teacher	Date	Day (2:00 -4:00 PM)	Signature
1	T.S. Warjri	13-Jun-17	Tuesday	in the second
2	T.S. Warjri	14-Jun-17	wednesday	12 11
3	T.S. Warjri	15-Jun-17	Thurday	N. J.C
4	T.S. Warjri	16-Jun-17	Friday	1
5	T.S. Warjri	19-Jun-17	Monday	the second
6	T.S. Warjri	20-Jun-17	Tuesday	10. : IE
7	T.S. Warjri	21-Jun 17	wednesday	No alt
8	D.Thabah	22-Jun-17	Thurday	Flabal
9	D.Thabah	23-Jun-17	Friday	Thab ale
10	D.Thabah	27-Jam-17	Luesday	Ellow ab
11	D.Thabah	28-Jun-17	wednesday	That
12	D.Thabah	29-Jun=17	Thurday	Alabach -
13	D.Thabah	30-Jun=17	Friday	Ghabada.
14	D.Thabah	3-Jul-17	Monday	Glabrad.
15	D.Thabah	4-Jul-17	Tuesday	Ellate at .
16	D.Thabah	5-Jul-17	wednesday	gilabal.
17	D.Thabah	6-Jul-17	Thurday	Entab . A.
18	D.Thabah	7-Jul-17	Friday	That.
19	D.Thabah	10-Jul-17	Monday	Ethal sale
20	D.Thabah	11-Jul-17	Tuesday	All ala ala
21	D.Thabah	12-Jul-17	wednesday	Shapal .
22	R.Hoojon	13-Jul-17	Thurday	Durch
23	R.Hoojon	18-Jul-17	Tuesday	24- Car
24	R.Hoojon	19-Jul-17	wednesday	21- ·
25	R.Hoojon	20-Jul-17	Thurday	21 ich

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R.Hoojon	21-Jul-17	Friday	24-5-1
R.Hoojon	24-Jul-17	Monday	24-1
R.Hoojon	25-Jul-17	Tuesday	21-7-12
R.Hoojon	26-Jul-17	wednesday	24-1-0-1-1
R.Hoojon	27-Jul-17	Thurday	21-2-14
R.Hoojon	28-Jul-17	Friday	21-2-12
D.Thabah	31-Jul-17	Monday	allala .
D.Thabah	1-Aug-17	Tuesday	Alalada
D.Thabah	2-Aug-17	wednesday	Altabad
D.Thabah	3-Aug-17	Thurday	2 Dalashi
D.Thabah	4-Aug-17	Friday	0. d. 10
D.Thabah	7-Aug-17	Monday	Ghad h
D.Thabah	8-Aug-17	Tuesday	Stlo A.
D.Thabah	9-Aug-17	wednesday	AL-D-D
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Department Of Computer Science And Applications

Android App Development Course 2017

SI. No	Name	Class
1	Jamestar Kurbah	BCA 6s
2	Donaban Kharmawphlang	BCA 6s
3	Kermiki Suchiang	BCA 6s
4	Khlain Kupar Nongrang	BCA 6s
5	Kmenlang Phanjoy	BCA 6s
6	Gifty Grace Nongdhar	BCA 6s
7	Akansha	BCA 4s
8	Jaihunlang Lyngdoh Nonglait	BCA 6s
9	DaeBiang khansati	BCA 4s
10	Sapana Fullel	BCA 4s
11	Ribadme Jeengaphs	BCA 4s
12	Deivica Dhar	BCA 6s
13	Ibanaris Nongbsap	BCA 6s
14	Rajdeep Koch	BCA 1s
15	Pynkhrawbok Mawlong	BCA 6s
16	Garolius Shadap	BCA 65
17	Banteilang Mongrum	employed
18	Wandarisha Sohtun	BCA 65
19	Elvis Lyngkhoi	BCA 45
20	Dipadehun Khonglah	BCA 4s
21	Ofiliality suchiang	BCA 4s

List of Students awarded certicates

Al 27/1/18 Course Londration

	NI				
	Name	Current Address	Permanent Address	Email ID	Phone No
	Mina I S aprin	Jalaw Langshing Block 1			857522365
	Oshorn N Sviem				8258090439
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цэ.	Drivingwell Rani				
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<u>.</u>	Bandara Pohtam	1	standing but 132211		8258817998
10	Aquilme Lamo				
10	Jerry Lyngkhoi	Mawlai Umjaiur Shillong -8			J 3 3 3 3
11	Aishwamitre Tympuin	mawpun golflink shilong	mawoun golflink chillong		/628865446
52	Banpynroibha Lyngdoh			See in a thread with the second second	TOFZSSTAG
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100 254	Naphisabet				
(m	Yuchiba Sylemlieh	Lummawbah Upper Shiltong			
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00 	Ravi Deka	Lummarboh Nongrah shiliong 6			
10	Dimanstar Kharbani	c		1 12 10 10 10 10 10 10 10 10 10 10 10 10 10	8575906487
20	Deivica Dhar				
21	Rejust Kupar Sylemlieh	Mawlai Umjaiur Shillong -8	Nonzspunz		
22	Rikipaul Lyngdoh		0-7		9862360872
23	Kmenlang Lyngdoh Nonclait				
24	Jaihunlang Lyngdoh Nonglait				
25	Gifty Grace Nongdhar				
26	Wandarisha Sohtun				

Android App Development Course -2017 Students Details

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			Khlainkupar Nongrang	46
			Kithorlang Skhembill	45
			Mahgkara Kharumnuid	44
			Garolius Shadap	43
			Alaric Osbert Kharpuri	42
7308932137	Aprovinsishing to make the second stands	Demthring Shillong - 21	Kermiki Suchiang	41
			Donoban Kharmawphlang	40
			Akanksha	39
			Maitshaphrang Wahlang	38
			Skybanles Kharlyngdoh	37
			Banteilang Nongrum	36
9615910866		Visitation Convent Arbuthnot Laitumkhral Umden Mission Umroi	Ibaharis Nongbsap	35
			Risha dondor	34
			Pyrkhrawbok Mawlong	33
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			Giftly Grace Nongdhar	31
			Jamles star Kurbah	30
			Elvis Lyngkhoi	29
			Sapana Fullel	28
			Rajdeep Koch	27

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Android App Development Course -2017

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Fee Payment Details

SI No.	Name	Class	Fee Payment	Balance
1	Ribad Jeengaphs	ЗВСА	Cleared	
2	Milda S Lamin	ЗВСА	Cleared	
3	Osborn N Sylem	ЗВСА	Cleared	
4	Wanridahun Marbaniang	ЗВСА		1000
5	Drivingwell Rani	ЗВСА	Cleared	
6	Ofeliality Suchiang	ЗВСА	Cleared	
7	Dipadehun Khonglah	ЗВСА	Cleared	
8	Bandara Pohtam	ЗВСА	Cleared	
9	Aquiline Lamo	ЗВСА	Cleared	
10	Jerry	ЗВСА	Cleared	
11	Aishwamitre Tympuin	ЗВСА	Cleared	
12	Banpynroibha Lyngdoh	ЗВСА	Cleared	
13	Saphisabet	ЗВСА		1500
1,4	Naphisabet	ЗВСА		1500
15	Yuchiba Syiemlieh	ЗВСА	Cleared	
16	Balarisha Myrthong	ЗВСА		1500
17	Daebiangme	ЗВСА		1000
18	Ravi Deka	ЗВСА	Cleared	
19	Dimanstar Kharbani	3BCA	Cleared	
20	Deivica Dhar	ЗВСА	Cleared	
21	Rejust Kupar Sylemlieh	ЗВСА	Cleared	
22	Rikipaul Lyngdoh	ЗВСА	Cleared	
23	Kmenlang Lyngdoh Nonglait	5BCA	Cleared	
24	Jaihunlang Lyngdoh Nonglait	SBCA	Cleared	
25	Gifty Grace Nongdhar	5BCA	Cleared	
26	Wandarisha Sohtun	5BCA	Cleared	
27	Rajdeep Koch	3BCA	Cleared	
28	Sapana Fullel	3BCA		1500
29	Elvis Lyngkhoi	ЗВСА	Cleared	
30	James star Kurbah	5BCA	Cleared	
31	Gifty Grace Nongdhar	5BCA	Cleared	
32	lahunlang Marwein	5BCA		1000
33	Pynkhrawbok Mawlong	5BCA	Cleared	
34	Risha dondor	5BCA	cleared	
35	Ibanaris Nongbsap	5BCA	Cleared	
36	Banteilang Nongrum	Employed	Cleared	
37	skybanles Kharlyngdoh	3BCA	Cleared	
38	Maitshaphrang Wahlang	Employed	Cleared	
39	Akanksha	3BCA	Cleared	
40	Donoban Kharmawphlang	5BCA	Cleared	

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Shillong College Department Of Computer Science And Applications Certificate Course on Android App Development 2017

Course Objective :This course introduces mobile application development for the Android platform.Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

Students will learn skills for creating and deploying Android applications, with particular emphasis on software engineering topics including software architecture, software process, usability, and deployment.

Detailed Syllabus

Chapter 1: JAVA Concepts

- o OOPs Concepts
- o Inheritance in detail

o Exception handling

o Packages & interfaces

o JVM & .jar file extension

o Multi threading (Thread class & Runnable Interface)

Chapter 2: SQL (Using SQLite)

o DML & DDL Queries in brief

Chapter 3: Introduction to Android

o What is Android?

o Setting up development environment

o Dalvik Virtual Machine & .apk file extension

o Fundamentals:

a. Basic Building blocks - Activities, Services, Broadcast Receivers & Content providers

b. UI Components - Views & notifications

c. Components for communication -Intents & Intent Filters

o Android API levels (versions & version names)

Chapter 4: Application Structure (in detail)

o AndroidManifest.xml

o uses-permission & uses-sdk

o Resources & R.java

o Assets

o Layouts & Drawable Resources

o Activities and Activity lifecycle

o First sample Application

Chapter 5: Emulator-Android Virtual Device

o Launching emulator

o Editing emulator settings

- o Emulator shortcuts
- o Logcat usage
- o Introduction to DDMS

o Second App:- (switching between activities)

Develop an app for demonstrating the communication between Intents **Chapter 6: Basic UI design** o Form widgets o Text Fields o Layouts o [dip, dp, sip, sp] versus px o Examples **Chapter 7: Preferences** o SharedPreferences o Preferences from xml o Examples Chapter 8: Menu o Option menu o Context menu o Sub menu o menu from xml o menu via code o Examples **Chapter 9: Intents (in detail)** o Explicit Intents o Implicit intents o Examples Chapter 10: UI design o Time and Date o Images and media o Composite o AlertDialogs & Toast o Popup o Examples **Chapter 11: Tabs and Tab Activity** o Examples **Chapter 12: Styles & Themes** o styles.xml o drawable resources for shapes, gradients (selectors) o style attribute in layout file o Applying themes via code and manifest file o Examples **Chapter 13: Content Providers** o SQLite Programming o SQLiteOpenHelper o SOLiteDatabse o Cursor o Reading and updating Contacts o Reading bookmarks o Example : Develop an App to demonstrate database usage. CRUD operations must be implemented. Final details should be viewed in GridView as well as in ListView. Chapter 14: Android Debug Bridge (adb) tool

Chapter 15: Linkify o Web URLs, Email address, text, map address, phone numbers o MatchFilter & TransformFilter o Examples **Chapter 16: Adapters andWidgtes** o Adapters:a. ArrayAdapters b. BaseAdapters o ListView and ListActivity o Custom listview o GridView using adapters o Gallery using adapters o Examples **Chapter 17: Notifications** o Broadcast Receivers o Services and notifications o Toast o Alarms o Examples **Chapter 18: Custom components** o Custom Tabs o Custom animated popup panels o Other components o Examples **Chapter 19: Threads** o Threads running on UI thread (runOnUiThread) o Worker thread o Handlers & Runnable o AsynTask (in detail)

o Examples

Chapters	No of Class Hours
Chapter 1: JAVA	10
Chapter 2: SQLite	10
Chapter 3 - Chapter 19	80
Mini Project	40
Total	150

Teachers involved in the design of the Syllabus:

- Shri B Mukhim (MCA, NET), Assistant Professor, Department of Computer Science & Applications Shillong, College.
- Shri D. N Thabah (BTech, NET, GATE) Lecturer, Department of Computer

Science & Applications Shillong College.
Shri R Hoojon (MCA, NET with JRF), Lecturer, Department of Computer Science & Applications, Shillong College.

A. HOD, CSA

Department of Computer Science And Applications Shillong College Proposal For an Add-on course

Android App Programming Course

The Android App Programming Course is an addon course of the Department of Computer Science And Applications. The course will be of 3 months duration.On completion of the course , students will be awarded a certificate.

Aim : Developing Mobile Applications with Google Android Platform

Career Oppurtunities : The demand for new and innovative mobile apps continues to grow. Because of this rapid growth there are plenty of opportunities for developers to work either as part of a company or on a freelance basis. The unique advantage of learning Android app development is that learners can choose to work or freelance. A developer can develop a new app , upload it on google playstore and get his business going.

Course Description :This course introduces mobile application development for the Android platform.Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

Students will learn skills for creating and deploying Android applications, with particular emphasis on software engineering topics including software architecture, software process, usability, and deployment.

Pre-Requisites

- Basic Knowledge in Programming
- Knowledge in XML format

Examination And Award of Certificate:

- There shall be no exam on this course.
- The grades awarded to students will be based solely on the Project viva that will be conducted at the end of course.
- Certificates will be awarded to all students on successful completion of the course

Target students : Open to all BCA and BSc(CS)/BSc(IT) students No. Of Seats : 50 No of Hours : 2 Hours per Day Total Course Hours: 150 Hours Time : 2.00 PM - 4.00 PM Duration : 3 months (June – August) Fee : Rs.2000/-Fee for Resource Person(s): @ Rs.200 per hour Course Coordinator : Mrs. A Mitri Fee For Course Coordinator : Lumpsump amount of Rs.3000/-

Android App Development

- 1. Ribad
- 2. Milda
- Nevermid
 Forever
- 5. Osborn
- 6. Badaniewkor
- 7. Wanridahun
- 8. Aminobel
- 9. Drivingwell
- 10. Ofeliality
- 11. Dipadehun
- 12. Bashisha
- 13. Bandara Pohtam
- 14. Mebanshan
- 15. Aquiline
- 16. Shalenstar
- 17. Jerry
- 18. Yarlinda
- 19. Aishwamitre
- 20. Banpynroi
- 21. Faryll
- 22. Saphisabet
- 23. Naphisabet
- 24. Yuchiba
- 25. Balarisha
- 26. Daebiangme
- 27. Ravi Deka
- 28. Daman
- 29. Adesh Thappa
- 30. Deivica Dhar
- 31. Rejust Kupar
- 32. Rikipaul
- 33. Kmenlang
- 34. Jaihun
- 35. Gifty
- 36. Wanda
- 37. Rajdeep
- 38. Elvis Lyngkhoi
- 39. James star
- 40. Mercylyne
- 41. Chingmeh
- 42. Aishwa
- 43. Modera
- 44. Aiban Thabah
- 45. Iahunlang
- 46. Pynkhraw
- 47. Risha dondor
- 48. Skybanles Lyngdoh

Report On the Android App Development Course Session 2018

The short term add-on course on Android App Programming for the session 2018 was conducted by the the Department of Computer Science And Applications for a duration of 3 months May- July 2018.

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

The Course introduced students to mobile application development for the Android platform. Students learnt the skills for creating and deploying Android applications.

Session 2018 catered to students of the Department, the aim, of which , was to give our students an edge over up to date technology.

Enrolment : Thirty seven students applied for the course, which was scheduled to start on the 1st of May 2018, but only twelve enrolled because of NEHU's rescheduling of Semester exam dates .

Course Completion : The course is not yet completed as students are yet to complete their minor project . As end semester exams are ensuing, the project viva for the course is delayed until after their semester exam is completed.

Problems Faced and Future Plans:

Java is a comprehensive language and its complete understanding requires one full semester. Java is a prerequisite in Android app and has been incorporated partly in the course. But it is not sufficient as students need more time. To solve the issue, the Department decided to conduct the course only for 6th semester students as these must have already learnt Java in their 5th semester.

Further, although it was decided at the end of the 2017 session that

all transactions involving cash will be handled by the College Management, yet it never materialised as the office staff assigned for this task was burdened with his office work. As such the course co-ordinator handled payment of fees and bills.

Resource Persons:

- 1. Shri R. Hoojon: MCA
- 2. Shri B Mukhim: MCA

A. M. Nuli co rodralin A. M. Vuli co rodralin Course

Students Enrolled in the Android App Development Course :Session 2018

SI No.	Name	Fee Payment	Remarks
1	Eleazer Shylla	2500	Cash Payment
2	Ram Shadap	2500	Bank Payment
3	Zachary Mitri	2500	Cash Payment
4	Devooshka Mitri	2500	Cash Payment
5	Feleen Rani	2500	Cash Payment
6	John Bosco Kharsnar	2500	Cash Payment
7	Badapbor Kharkongor	2500	Cash Payment
8	Symbolstar Nongbri	2500	Cash Payment
9	Andrew Kharshiing	2500	Cash Payment
10	Nathaniel Kurbah	2500	Cash Payment
	Sapana Fullel(2017 batch)	1500	Cash payment of the balance amount of 2017
	Total	26500	

Expenditure

R Hoojon	10000	50 Hours @ 200 per hour
B Mukhim	2000	10 hours @ 200 per hour
A. Mitri	3000	Course Co-ordinator
Total	15000	
Balance Amount	11500	

Note: Certificates were printed in the College

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Department of Computer Science And Applications Android App Development Add on Course Syllabus-2018

Objective: The aim of this course is to build a skill on mobile app development starting from basics . This course will help students with great ideas and some mobile development skills to use it as a career choice as Android is on the rise and almost every industry in India uses Android apps.

Module -1:

OOPs Concepts ,Classes and Objects, Encapsulation, Constructors, Inheritance, Method Overriding, Polymorphism, Abstract methods and classes, Interface, Packaging, Exception Handling, Multi-threading (Thread class & Runnable Interface).

Module-2:

Introduction to android, features, architecture, application components, Manifest XML file, activity life cycle, toast, life cycle methods, android hello world program.

Module-3:

Android UI layout, creating layout, UI attributes, linear layout, relative layout and absolute layout. android list view, grid view, web view.

Module-4:

UI controls, creating UI controls, text view, edit view, button, checkbox, toggle button, radio button, radio group, date picker, progress bar and spinner.

Module-5:

Android event handling, services, broadcast receiver, fragment, intent, intent filter, custom components, location, publishing applications.

Module-6:

SQLite/MySQL, Creating table, Insert, Select, Update and Delete operations.

Module-7:

Mini Project

****** Module-1 to Module-6 is to be completed within a period of Two months.

****** Module-7 (Mini project) is to be completed within a period of One month.

Teachers involved in the design of the Syllabus:

- Shri B Mukhim (MCA, NET), Assistant Professor, Department of Computer Science & Applications Shillong, College.
- Shri D. N Thabah (BTech, NET, GATE) Lecturer, Department of Computer Science & Applications Shillong College.
- Shri R Hoojon (MCA, NET with JRF), Lecturer, Department of Computer Science & Applications, Shillong College.

HOD, Department of Computer Science And Applications ,Shillong College

Department of Computer Science and Applications Shillong College Add-On Course on Android App Development Teacher's Attendance

Sl.No	Name of Teacher	Date	Timing	Signature
1	R. Hoojon	13/6/18	2:00-4:00 pm	2terin
2	// //	14/6/18	11	2000i
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Attendance

Android Attendance Sheet			
SI.No	Name of Teacher	Date	Timing
1	B.Mukhim	15-05-18	2:00 PM – 4:00PM
2	B.Mukhim	17-05-18	2:00 PM – 4:00PM
3	B.Mukhim	22-05-18	2:00 PM - 4:00PM
4	B.Mukhim	23-05-18	2:00 PM - 4:00PM
5	B.Mukhim	24-05-18	2:00 PM - 4:00PM
6	R.Hoojon	13-06-18	2:00 PM - 4:00PM
7	R.Hoojon	14-06-18	2:00 PM – 4:00PM
8	R.Hoojon	15-06-18	2:00 PM – 4:00PM
9	R.Hoojon	18-06-18	2:00 PM – 4:00PM
10	R.Hoojon	19-06-18	2:00 PM – 4:00PM
11	R.Hoojon	20-06-18	2:00 PM – 4:00PM
12	R.Hoojon	21-06-18	2:00 PM – 4:00PM
13	R.Hoojon	26-06-18	2:00 PM – 4:00PM
14	R.Hoojon	28-06-18	2:00 PM - 4:00PM
15	R.Hoojon	29-06-18	2:00 PM - 4:00PM
16	R.Hoojon	02-07-18	2:00 PM - 4:00PM
17	R.Hoojon	04-07-18	2:00 PM - 4:00PM
18	R.Hoojon	05-07-18	2:00 PM - 4:00PM
19	R.Hoojon	11-07-18	2:00 PM - 4:00PM
20	R.Hoojon	12-07-18	2:00 PM - 4:00PM
21	R.Hoojon	13-07-18	2:00 PM – 4:00PM
22	R.Hoojon	16-07-18	2:00 PM - 4:00PM
23	R.Hoojon	18-07-18	2:00 PM - 4:00PM
24	R.Hoojon	19-07-18	2:00 PM – 4:00PM
25	R.Hoojon	20-07-18	2:00 PM – 4:00PM
26	R.Hoojon	23-07-18	2:00 PM – 4:00PM
27	R.Hoojon	24-07-18	2:00 PM - 4:00PM
28	R.Hoojon	25-07-18	2:00 PM - 4:00PM
29	R.Hoojon	26-07-18	2:00 PM – 4:00PM

<u>Report On the Android App Development Course</u> <u>Session 2019</u>

The short term add-on course on Android App Programming for the session 2019 was conducted by the Department of Computer Science And Applications for a duration of , supposedly, 3 months November 2019 - March 2020 (considering January as vacation). However, because of the law and order situation in the stale , the classes continued only until November 21st 2019 and classes resumed only on the 10th of February 2020 .Again , with the onset of the pandemic, classes continued only until mid of March 2020. Online classes were taken during the lockdown period, however ,actual hands-on practicals had to be put on hold until offline classes were allowed.There was a break in the classes in between during the 2021 lockdown until offline classes were officially allowed to be held by the Government. The course was finally completed in

Android is a software stack for mobile devices that includes an operating system, middleware and key applications. The Android SDK provides the tools and APIs necessary to begin developing applications on the Android platform using the Java programming language.

The Course introduces students to mobile application development for the Android platform. Students learnt the skills for creating and deploying Android applications.

Session 2019 catered to students of the Department, the aim, of which , was to give our students skills in developing apps.

Si No.	Name
1	Bapynshngain Nongkynrih
2	Inshan Kharmon
3	Meban Shangpliang
4	Vince N Kharbuki
5	Dajied Khongbuh
6	Albinius Dkhar
7	Protectson Byrsaw
8	KhlurTynsong
9	Geoffery Marwein
10	Warrence Oliver

Enrolment :

Course Completion : The course is finally completed but students could not be given projects because of the situation that prevailed. Certificates to students who completed the course are prepared and yet to be distributed.

Resource Persons:

- 1. Shri T. Warjri: MSc(CS)
- 2. Shri J Kharkrang: MCA

Subvilled by (Arry) 12/2/ A-M-Mile HOD & Course HOD & Course

Department of Computer Science And Applications Android App Development Add on Course Syllabus-2018

Objective: The aim of this course is to build a skill on mobile app development starting from basics . This course will help students with great ideas and some mobile development skills to use it as a career choice as Android is on the rise and almost every industry in India uses Android apps.

Module -1:

OOPs Concepts ,Classes and Objects, Encapsulation, Constructors, Inheritance, Method Overriding, Polymorphism, Abstract methods and classes, Interface, Packaging, Exception Handling, Multi-threading (Thread class & Runnable Interface).

Module-2:

Introduction to android, features, architecture, application components, Manifest XML file, activity life cycle, toast, life cycle methods, android hello world program.

Module-3:

Android UI layout, creating layout, UI attributes, linear layout, relative layout and absolute layout. android list view, grid view, web view.

Module-4:

UI controls, creating UI controls, text view, edit view, button, checkbox, toggle button, radio button, radio group, date picker, progress bar and spinner.

Module-5:

Android event handling, services, broadcast receiver, fragment, intent, intent filter, custom components, location, publishing applications.

Module-6:

SQLite/MySQL, Creating table, Insert, Select, Update and Delete operations.

Module-7:

Mini Project

****** Module-1 to Module-6 is to be completed within a period of Two months.

****** Module-7 (Mini project) is to be completed within a period of One month.

Teachers involved in the design of the Syllabus:

- Shri B Mukhim (MCA, NET), Assistant Professor, Department of Computer Science & Applications Shillong, College.
- Shri D. N Thabah (BTech, NET, GATE) Lecturer, Department of Computer Science & Applications Shillong College.
- Shri R Hoojon (MCA, NET with JRF), Lecturer, Department of Computer Science & Applications, Shillong College.

HOD, Department of Computer Science And Applications ,Shillong College

Android Attendance Sheet				
SI.No Name of Teacher Date Timing				
1 J Kharkrang 04/11/19 2:00 PM – 4:	00PM			
2 J Kharkrang 05/11/19 2:00 PM – 4:	00PM			
3 J Kharkrang 06/11/19 2:00 PM – 4:	00PM			
4 J Kharkrang 07/11/19 2:00 PM – 4:	00PM			
5 J Kharkrang 08/11/19 2:00 PM – 4:	00PM			
6 J Kharkrang 11/11/19 2:00 PM – 4:	:00PM			
7 J Kharkrang 13/11/19 2:00 PM – 4:	:00PM			
8 J Kharkrang 15/11/19 2:00 PM – 4	:00PM			
9 J Kharkrang 18/11/19 2:00 PM – 4	:00PM			
10 J Kharkrang 20/11/19 2:00 PM – 4	:00PM			
11 Kharkrang 21/11/19 2:00 PM - 4	:00PM			
12 J Kharkrang 10/02/20 2:00 PM – 4	:00PM			
13 J Kharkrang 11/02/20 2:00 PM – 4	:00PM			
14 J Kharkrang 12/02/20 2:00 PM – 4	:00PM			
15 J Kharkrang 13/02/20 2:00 PM – 4	:00PM			
16 T S Warjri 14/02/20 2:00 PM – 4	:00PM			
17 T S Warjri 17/02/20 2:00 PM – 4	:00PM			
18 T S Warjri 19/02/20 2:00 PM – 4	:00PM			
19 T S Warjri 20/02/20 2:00 PM – 4	:00PM			
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22 T S Warjri 27/02/21 2:00 PM – 4	:00PM			
23 T S Warjri 28/02/21 2:00 PM – 4	1:00PM			
24 T S Warjri 02/03/21 2:00 PM - 4	1:00PM			
25 T S Wariri 04/03/21 2:00 PM - 4	1:00PM			
26 T S Wariri 05/03/21 2:00 PM - 4	4:00PM			
27 T S Warjri 09/03/21 2:00 PM - 4	4:00PM			
28 T S Warjri 10/02/21 2:00 PM - 4	4:00PM			
29 T S Warjri 11/02/21 2:00 PM - 4	4:00PM			
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31 T S Warjri 04/08/21 online mod	е			
32 T S Warjri 05/08/21 online mod	e			
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34 T S Warjri 07/08/21 online mod	e			
35 T S Warjri 08/08/21 online mod	е			
36 T S Warjri 24/08/21 online mod	е			
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39 T S Wariri 27/08/21 online mod	e			
40 I Kharkrang 28/08/21 online mod	le			
41 T S Wariri 21/10/21 1:00 PM- 3	:00PM			
41 T S Wariri 22/10/21 2:00 PM- 3	:00PM			
43 T S Wariri 23/10/21 3:00 PM- 3	:00PM			

Ar 5/12/21

Department of Computer Science And Applications

Android App Development Add on Course

Syllabus

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- Shri R Hoojon (MCA, NET with JRF), Lecturer, Department of Computer Science & Applications, Shillong College.

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Department of Computer Science And Applications ,Shillong College

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