



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

Requisition letter

Date: 1.08.2020

**From**

Dr.Kaliyamurthy M.E.,PH.D,  
Professor & Head,  
Department of CSE,  
Bharath Institute of Higher Education and Research,  
Chennai.

**To**

Pro.VC Academics,  
Bharath Institute of Higher Education and Research,  
Chennai.

**Respected Sir**

**Sub:** Request of permission to conduct a value – added course on “Google Android Application Development Training” (online) - Reg

With reference to above subject, I would like to bring to your kind notice that , our department interested to organize value added course “Google Android Application Development Training” in our campus premises on 08.08.2020, students would be participating in this course. We request you kindly to give permission to organize this event.

**Timing:** 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

Submitted to principal for approval to organize this value-added course.

HOD

DEAN ENGINEERING  
DEAN (Engineering)  
Bharath Institute of Science & Technology  
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH  
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)  
Selaiyur, Chennai-600 073.



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
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## CIRCULAR

4.8.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Google Android Application Development Training** for the benefit of students. This course is scheduled from 08.08.2020 to 19.08.2020. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1-	Dr. C. Nalini	Professor
2-	Mrs. C. Kavitha	Assistant professor

**Head of Department**

Department of Computer Science  
Bharath Institute of Higher Education and Research  
(Declared as Deemed to be University under section 3 of UGC Act 1956)  
Chennai-600 073, INDIA

To

Copy to CSE

Copy to IT



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

## **CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING**

**Date of Introduction of the Course: 12.09.2020**

### **COURSE SYLLABUS**

#### **1. Creating Project Sunshine**

To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE

#### **2. Loading Data from the Internet**

To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app

#### **3. Recycler View**

To learn about the components that convert a list of data into visual UI elements

#### **4. Intents**

To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents. To learn how to create Intents that apps outside your control can respond.

#### **5. The Application Lifecycle**

To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes

#### **6. Preferences**

To allow users to customize some aspects of your app  
Consider when to omit or add a preference

#### **7. Content Providers**

To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.

#### **8. Android Architecture Components**

To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps

#### **9. Background Tasks**

To run jobs in the background of an app and create notifications and schedule long-running background processes



## 10. Completing the UI

To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different languages

## 11. Polishing the UI

To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors

### COURSE OBJECTIVES

This course blends theory and practice to help you build great apps the right way. In this course, you'll work with instructors step-by-step to build a cloud-connected Android app, and learn best practices of mobile development, and Android development in particular.

**Specifically, the course has the following objectives:**

**Students will learn**

1. Understanding data loading.
2. Understanding Recycler view.
3. Analyse and visualize data in application life cycle.
4. Create reproducible data analysis reports.
5. Run jobs in the background of an app.
6. Create apps that look great across multiple form factors.



**COURSE COORDINATOR**



**HEAD OF THE DEPARTMENT**

HEAD OF DEPARTMENT  
Department of Computer Sci.  
Shree Institute of Higher Education  
(Declared as Deemed to be University No. 3 of 1998)  
Chennai-600 073. INDIA



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

## CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

**Date of Introduction of the Course: 12.09.2020**

The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)  
Saturday (FN&AN).

### Time Table & Lesson plan

CLASS	DATE	TOPIC
1	08-08-2020(FN)	<b>1. Creating Project Sunshine</b> To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE
2	10-08-2020 (FN)	<b>2. Loading Data from the Internet</b> To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app
3	10-08-2020 (FN)	<b>3. Recycler View</b> To learn about the components that convert a list of data into visual UI elements
4, 5	11-08-2020 (FN & AN)	<b>4. Intents</b> To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents.
6	12-08-2020 (FN)	<b>5. Intents</b> To learn how to create Intents that apps outside your control can respond.
7	13-08-2020 (FN)	<b>6. The Application Lifecycle</b> To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes
8	14-08-2020 (FN)	<b>7. Preferences</b> To allow users to customize some aspects of your app Consider when to omit or add a preference
9	15-08-2020 (FN)	<b>8. Content Providers</b> To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.
10	17-08-2020 (AN)	<b>9. Android Architecture Components</b> To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps
11, 12	18-08-2020 (FN)	<b>10. Background Tasks</b> To run jobs in the background of an app

		Create notifications and schedule long-running background processes
13	18-08-2020 (AN)	<b>11. Completing the UI</b> To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different languages
14	19-08-2020 (FN)	<b>12. Polishing the UI</b> To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors

*G. Kati*  
COURSE COORDINATOR

*[Signature]*  
HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT  
Department of IT & I.T. Des.  
Bharath Institute of Higher Education & Research  
Chennai-600 073. India





# Bharath

## INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)  
(Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4<sup>th</sup> July 2002)

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 12.09.2020

B.Tech Computer Science and Engineering

Google Android Application Development Training

S. No	REG.NO	NAME OF THE CANDIDATE
1	U15CS001	ABHIJEET KUMAR
2	U15CS002	ABHIJIT KUMAR GUPTA
3	U15CS003	ABHISHEK KUMAR SINGH
4	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
5	U15CS005	AMBIKE KUMAR SINGH
6	U15CS006	ANBUMANI S
7	U15CS007	ANJAR ALI
8	U15CS008	ANKAM MANJUNATH
9	U15CS009	ANNADI DHANUSH
10	U15CS010	ANNAVARAPU DIVYA
11	U15CS011	ANUMOLU YESWANTH
12	U15CS012	ARAVAPALLI SIVA VINAYA
13	U15CS013	ARAVINDHAN K R
14	U15CS014	ARVIND KUMAR YADAV
15	U15CS015	ARYAN SAHU
16	U15CS016	ASHISH AGARWAL
17	U15CS017	ASHISH RANJAN
18	U15CS018	ATTANTI RAVIKANTH
19	U15CS019	BANAVATH SUNIL NAIK
20	U15CS020	BANDARU RAMESH
21	U15CS021	BATTA SIVA PRASAD
22	U15CS022	BHARATH K
23	U15CS023	BHARATHI V
24	U15CS024	BIKKI KUMAR SHA
25	U15CS025	BINGEWAR SAISHARAN
26	U15CS026	BIRADAVOLU SUCHARITHA
27	U15CS027	BODA AKHIL WESLEY
28	U15CS028	BONALA SRIDHAR RAO
29	U15CS029	BRYAN STEVE PUSHPARAJ I
30	U15CS030	CHAKKA KSHITHIJA
31	U15CS031	CHAMARTHI LAKSHMI NARAYANA AVINASH
32	U15CS032	CHANDRA KANT CHOUDHARY
33	U15CS033	CHAPPIDI LAKSHMIKANTH REDDY

34	U15CS034	CHIDIPOTHU PRATHYUSHA
35	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA
36	U15CS036	CHOWDHARY PRASANNA KUMAR
37	U15CS037	CHUNDI VENKATA SESHASAI RAMANAPATANJALI
38	U15CS038	CILLA SAI KISHORE
39	U15CS039	D N S HRUDAY BHARADWAJ
40	U15CS040	DADAM CHAITHRA
41	U15CS041	DEEPAK KUMAR SINGH
42	U15CS042	DILLIGANESH V
43	U15CS043	DIVAKAR M
44	U15CS044	DIVYA VANI T
45	U15CS045	DODDI PUJITHA
46	U15CS046	DOOLIGANTI AKHIL REDDY
47	U15CS047	DUPUGUNTLA BHANU SIVA KASINADH
48	U15CS048	GANDLUR REDDY GREESHMA
49	U15CS049	GANESH BAG
50	U15CS050	GANGARAJU RAHUL
51	U15CS051	GANGARAPU UKESH
52	U15CS052	GANGU BHAGYA
53	U15CS053	GLADSON J
54	U15CS054	GOLI SUDEEP KRISHNA
55	U15CS055	GOLLAPUDI KALYAN KUMAR
56	U15CS056	GORRE THIRUPATHI REDDY
57	U15CS057	GUJJETI MAHESH

*G. Ketr*  
COURSE COORDINATOR

*K. K. K.*  
Head of the Department

HEAD OF DEPARTMENT  
Department of Computer Sci.  
Christ the King College of Education  
K. K. K. 0534  
0973. INI



# COURSE FEEDBACK FORM

Academic Year		2020 - 2021							
Term									
Course Number									
Course Title		Google Android Application Development Training							
Number of Credits									
Type of Course	Regular		Elective		Add-on				✓
<b>I. Information on the Respondent: (Tick (✓) Appropriately)</b>									
<b>1. Percentage of classes attended</b>									
0-20		20-40		40-60		60-80		80-100	✓
<b>2. Number of hours per week spent on the course (Other than lecture hours)</b>									
0-2		2-4		4-6		6-8		8-10	✓
<b>3. Preparation for the course by the student:</b>									
(i)	Have done part of this course earlier								NO
(ii)	Has adequate prior exposure to the prerequisites								NO
(iii)	Had to pickup relevant additional topics through concurrent study								yes
(iv)	Have no exposure to the background material								yes
<b>4. The expectations for taking the course by the student are:</b>									
(a)	Enhance by skill base in the area of specializations								yes
(b)	Get exposed to a relevant subject								yes
(c)	Curiosity								NO
(d)	Better Employment Opportunity								yes
(e)	Complete Course requirements								NO
(f)	To Improve CGPA								yes
<b>About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)</b>									
		A	B	C	D	E			
1.	Pace of the Teaching/lecture	✓							
2.	Content of the Subject	✓							
3.	Clarity of expression	✓							
4.	Level of preparation	✓							
5.	Level of interaction		✓						
6.	Accessibility outside the class		✓						
7.	Others (please specify)		✓						
A: Excellent		B: Very Good		C: Good		D: Satisfactory		E: Poor	

*[Signature]*  
**HEAD OF THE DEPARTMENT**

HEAD OF DEPARTMENT  
 Deptt. of Computer Science & Information Technology  
 Sharada Institute of Professional Studies  
 (Benaras) 221005, India. Ph: 91-522-2311111  
 Email: info@sharada.edu.in

# COURSE FEEDBACK FORM

Academic Year		2020 - 2021					
Term							
Course Number							
Course Title		Google Android Application Development Training					
Number of Credits							
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>	
<b>I. Information on the Respondent: (Tick (✓) Appropriately)</b>							
<b>1. Percentage of classes attended</b>							
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>
<b>2. Number of hours per week spent on the course (Other than lecture hours)</b>							
0-2		2-4		4-6		6-8	<input checked="" type="checkbox"/>
<b>3. Preparation for the course by the student:</b>							
(i)	Have done part of this course earlier					yes	
(ii)	Has adequate prior exposure to the prerequisites					NO	
(iii)	Had to pickup relevant additional topics through concurrent study					NO	
(iv)	Have no exposure to the background material					yes	
<b>4. The expectations for taking the course by the student are:</b>							
(a)	Enhance by skill base in the area of specializations					yes	
(b)	Get exposed to a relevant subject					yes	
(c)	Curiosity					yes	
(d)	Better Employment Opportunity					yes	
(e)	Complete Course requirements					yes	
(f)	To Improve CGPA					yes	
<b>About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)</b>							
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>					
2.	Content of the Subject	<input checked="" type="checkbox"/>					
3.	Clarity of expression	<input checked="" type="checkbox"/>					
4.	Level of preparation	<input checked="" type="checkbox"/>					
5.	Level of interaction	<input checked="" type="checkbox"/>					
6.	Accessibility outside the class	<input checked="" type="checkbox"/>					
7.	Others (please specify)	<input checked="" type="checkbox"/>					
<b>A: Excellent</b>		<b>B: Very Good</b>		<b>C: Good</b>		<b>D: Satisfactory</b>	
						<b>E: Poor</b>	

**HEAD OF THE DEPARTMENT**



# COURSE FEEDBACK FORM

Academic Year		2020 - 2021			
Term					
Course Number					
Course Title		Google Android Application Development Training			
Number of Credits					
Type of Course	Regular	Elective	Add-on	<input checked="" type="checkbox"/>	

**I. Information on the Respondent: (Tick (✓) Appropriately)**

1. **Percentage of classes attended**

0-20	20-40	40-60	60-80	80-100
			<input checked="" type="checkbox"/>	

2. **Number of hours per week spent on the course (Other than lecture hours)**

0-2	2-4	4-6	6-8	8-10
				<input checked="" type="checkbox"/>

3. **Preparation for the course by the student:**

(i)	Have done part of this course earlier	NO
(ii)	Has adequate prior exposure to the prerequisites	NO
(iii)	Had to pickup relevant additional topics through concurrent study	NO
(iv)	Have no exposure to the background material	Yes


4. **The expectations for taking the course by the student are:**

(a)	Enhance by skill base in the area of specializations	Yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	NO
		Yes

**About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)**

		A	B	C	D	E
1.	Pace of the Teaching/lecture		<input checked="" type="checkbox"/>			
2.	Content of the Subject		<input checked="" type="checkbox"/>			
3.	Clarity of expression		<input checked="" type="checkbox"/>			
4.	Level of preparation	<input checked="" type="checkbox"/>				
5.	Level of interaction	<input checked="" type="checkbox"/>				
6.	Accessibility outside the class		<input checked="" type="checkbox"/>			
7.	Others (please specify)	<input checked="" type="checkbox"/>				

A: Excellent	B: Very Good	<input checked="" type="checkbox"/>	C: Good	D: Satisfactory	E: Poor
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**HEAD OF THE DEPARTMENT**

HEAD OF THE DEPARTMENT





# Bharath UNIVERSITY

பாரத் பல்கலைக்கழகம்

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)



## CERTIFICATE OF PARTICIPATION



### Mr. GANESH BAG

For actively participating in the value added course “**Google Android Application Development Training**” Conducted by School of Computing, BIHER from 08-08-2020 to 19.08.2020 .

  
Course Coordinator

  
Head of the Department

  
Director