



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



**BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY**

No. 173, Agharam Road, Selaiyur, Chennai . T.N - 600 073.

## Requisition Letter

From  
Dr. K.P.Kaliyamurthie,  
Professor & Head,  
Department of CSE,  
Bharath Institute of Higher Education and Research,  
Chennai

Date: 05.07.2021

To  
The Dean Engineering,  
Bharath Institute of Higher Education and Research,  
Chennai

Respected sir

Subject: Request of Permission to conduct a value added course on **“Windows 10 Mobile Application development and training”** -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **“Windows 10 Mobile Application development and training”** in our campus premises on **11/07/2021**.

52 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **CSE Smart Room**

Timing : **9 am to 4.30 pm**

Submitted to Principal for approval to organize this value added course.

**HOD/CSE**

**DEAN ENGINEERING**

HEAD OF DEPARTMENT  
Department of Computer Science & Engg.,  
Bharath Institute of Higher Education & Research  
(Declared as Deemed to be University U/S 3 of MCO Act, 1956)  
Chennai-600 073, INDIA



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## CIRCULAR

09.07.2021

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Windows 10 Mobile Application Development & Training** for the benefit of II, III and IV year students. This course is scheduled from 11.07.2021 for 30hours which includes theory and practical. The timings are 1:30 PM to 4:30 PM :

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	Mrs.C.Anuradha	Assistant.Professor
2	Dr.C.Rajabhushanam	Professor

**Head of Department**

HEAD OF DEPARTMENT  
Department of Computer Sci. & Engg.,  
Bharath Institute of Higher Education & Research  
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)  
Chennai-600 073, INDIA

To

Copy to CSE

Copy to IT



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## **CERTIFICATE COURSE ON WINDOWS 10 MOBILE APPLICATION DEVELOPMENT AND TRAINING**

**Date of Introduction of the Course:11.07.2021**


**The timings are 1:30 PM to 4:30 PM**

### **Time Table& Lesson plan**

<b>CLASS</b>	<b>DATE</b>	<b>TOPIC</b>
<b>1,2</b>	<b>11.07.2021(AN)</b>	1. Introduction - Course Welcome, Introduction to the Universal Windows10 Platform
<b>3,4</b>	<b>15.07.2021(AN)</b>	2.Windows Phone 10 Application Lifecycle
<b>5,6</b>	<b>16.07.2021(FN)</b>	3.Planning Application - UI Basics, Responsive vs. Adaptive UI.
<b>7,8</b>	<b>16.07.2021(AN)</b>	4.Designing Application - for Different Form Factors
<b>9,10</b>	<b>22.07.2021(AN)</b>	5.Data Binding - Data Entry and Local Data Storage, Introduction to XAML Data Binding.
<b>11,12</b>	<b>23.07.2021(FN)</b>	6.Application Lifecycle Management - Suspension, Resume and Termination, Storing and, Retrieving App Data, Splash Screens, Alternative Launch Scenarios.
<b>13,14</b>	<b>23.07.2021(AN)</b>	7.MVVM - Intro to MVVM, Creating Models, Views and ViewModels, Implementing MVVM Class Interactions.
<b>15,16</b>	<b>29.07.2021(AN)</b>	8.Commands - Navigation, and User Interaction Design, Navigation Commands and CommandBars, Context Menus and ContextDialog Controls.
<b>17,18</b>	<b>30.07.2021(FN)</b>	9.File Storage - Adding File Access Controls, Implementing File Pickers.
<b>19,20</b>	<b>30.07.2021(AN)</b>	10.Publishing Your App - App Testing and the WACK, Monetization, Creating an App Package and Deploying an App.

21,22	05.08.2021(AN)	11. Maps and Location (H/W Drives) in Windows 10
23,24	06.08.2021(FN)	12. Network Communication, Push Notifications, Background Agents
25,26	06.08.2021(AN)	13. Tiles and Lock Screen Notifications
27,28	12.08.2021(AN)	14. Windows 10 Mobile App to App Communication.
29,30	13.08.2021(FN)	15. A Glimpse at the Future

  
**COURSE COORDINATOR**

  
**HEAD OF THE DEPARTMENT**  
 HEAD OF DEPARTMENT  
 Department of Computer Science & Engg.,  
 Bharath Institute of Higher Education & Research  
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 Chennai-600 073, INDIA



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## **CERTIFICATE COURSE ON WINDOWS 10 MOBILE APPLICATION DEVELOPMENT AND TRAINING**

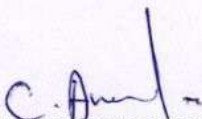
**Date of Introduction of the Course: 11.07.2021**


### **COURSE SYLLABUS**

1. Introduction - Course Welcome, Introduction to the Universal Windows 10 Platform
2. Windows Phone 10 Application Lifecycle
3. Planning Application - UI Basics, Responsive vs. Adaptive UI
4. Designing Application - for Different Form Factors.
5. Data Binding - Data Entry and Local Data Storage, Introduction to XAML Data Binding
6. Application Lifecycle Management - Suspension, Resume and Termination, Storing and Retrieving App Data, Splash Screens, Alternative Launch Scenarios
7. MVVM - Intro to MVVM, Creating Models, Views and ViewModels, Implementing MVVM Class Interactions
8. Commands - Navigation, and User Interaction Design, Navigation Commands and CommandBars, Context Menus and ContextDialog Controls
9. File Storage - Adding File Access Controls, Implementing File Pickers
10. Publishing Your App - App Testing and the WACK, Monetization, Creating an App Package and Deploying an App.
11. Maps and Location (H/W Drives) in Windows 10
12. Network Communication, Push Notifications, Background Agents
13. Tiles and Lock Screen Notifications
14. Windows 10 Mobile App to App Communication.
15. A Glimpse at the Future

### COURSE OBJECTIVES

1. Describe those aspects of mobile programming that make it unique from programming for other platforms,
2. Critique mobile applications on their design pros and cons,
3. Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces,
4. Program mobile applications for the Android operating system that use basic and advanced phone features, and
5. Deploy applications to the Android marketplace for distribution.

  
**COURSE COORDINATOR**

  
**HEAD OF THE DEPARTMENT**  
Department of Computer Sci & Engg.,  
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**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
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**CERTIFICATE COURSE ON Windows 10 Mobile Application Development & Training**

**Date of Introduction of the Course: 11.07.2021**

**School of Computing**

**Registered Students Name List**

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS048	DIVYA RUPINI.B
2	U14CS049	EVELIN JUGL.R
3	U14CS050	FAZIL AHAMED.J
4	U14CS051	GANESH RAJ .L
5	U14CS052	GARLAPATI HEMA SAI KRISHNA
6	U14CS053	GODJSELA SRINATH
7	U14CS054	GONTLA KARTHIK
8	U14CS055	GOTTIPATI KARTHIK
9	U14CS702	S.KUMARAN
10	U14CS709	RAGUL TIGER
11	U14CS220	KARTHIKEYAN SURESH
12	U14CS231	GYANA PRASANNA
13	U14CS235	SATHISH RAJ
14	U14CS105	MOOTHI LAKSHMI PRASANNA
15	U14CS106	MUGANTH.R.
16	U14CS107	MUGUNTHANATHAN.G
17	U14CS108	MURALI .S
18	U14CS109	N.UMA VENKATA MAHESHWARA SWAMY
19	U14CS110	NAGA TEJA.K
20	U14CS148	RAMYA.B

21	U14CS177	K.SIVA SUBRAMANIAN
22	U14CS222	M.GANESH RAJAN
23	U14CS225	ARJHUN KUMAR.K
24	U14CS229	INDHU GOPALAKRISHNAN
25	U14CS703	VASANTHAN.N
26	U14CS705	SHABEEK ABUTHAHIR.S
27	U14CS710	SHOPMINISTER
28	U14CS160	SANDEEP INGUVA
29	U14CS161	SANJAY KUMAR YADAV
30	U14CS162	SANTHOSH KUMAR.N
31	U14CS163	SASHAANK.S
32	U14CS164	SAURAV KUMAR
33	U14CS165	SAURAV SINGH
34	U14CS224	R.SINDHU
35	U14CS228	ELACATI JAGANNADHA HARSHITHA
36	U14CS230	MARAM REDDY RAJASEKHAR
37	U14CS234	DANDU MOHAN RAJENDRA VARMA
38	U14CS706	RAFTEN WANCHU
39	U14CS707	ARNISHA DAS
40	U14CS708	SUSMITA MOG
41	U14CS213	AKULA MOHITH
42	U14CS214	PRASANTH KUMAR .P
43	U14CS215	PRANJAL BHASHKAR
44	U14CS216	SUNDAR.V.
45	U14CS217	CHILLIMUNTA VENKATESH
46	U14CS218	MAKKAPTI SIDDHARDHA
47	U14CS223	ARUN
48	U14CS226	SARAVANAN.B
49	U14CS227	I.SUKAPATLA AVINASH
50	U14CS237	CHARAN KUMAR
51	U14CS701	BALAJI
52	U14CS232	B.BALAKUMARAN

C. Anand  
COORDINATOR

HEAD OF THE DEPARTMENT

Department of Computer Sci. & Engg.,  
Bharath Institute of Higher Education & Research  
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Chennai-600 073. INDIA



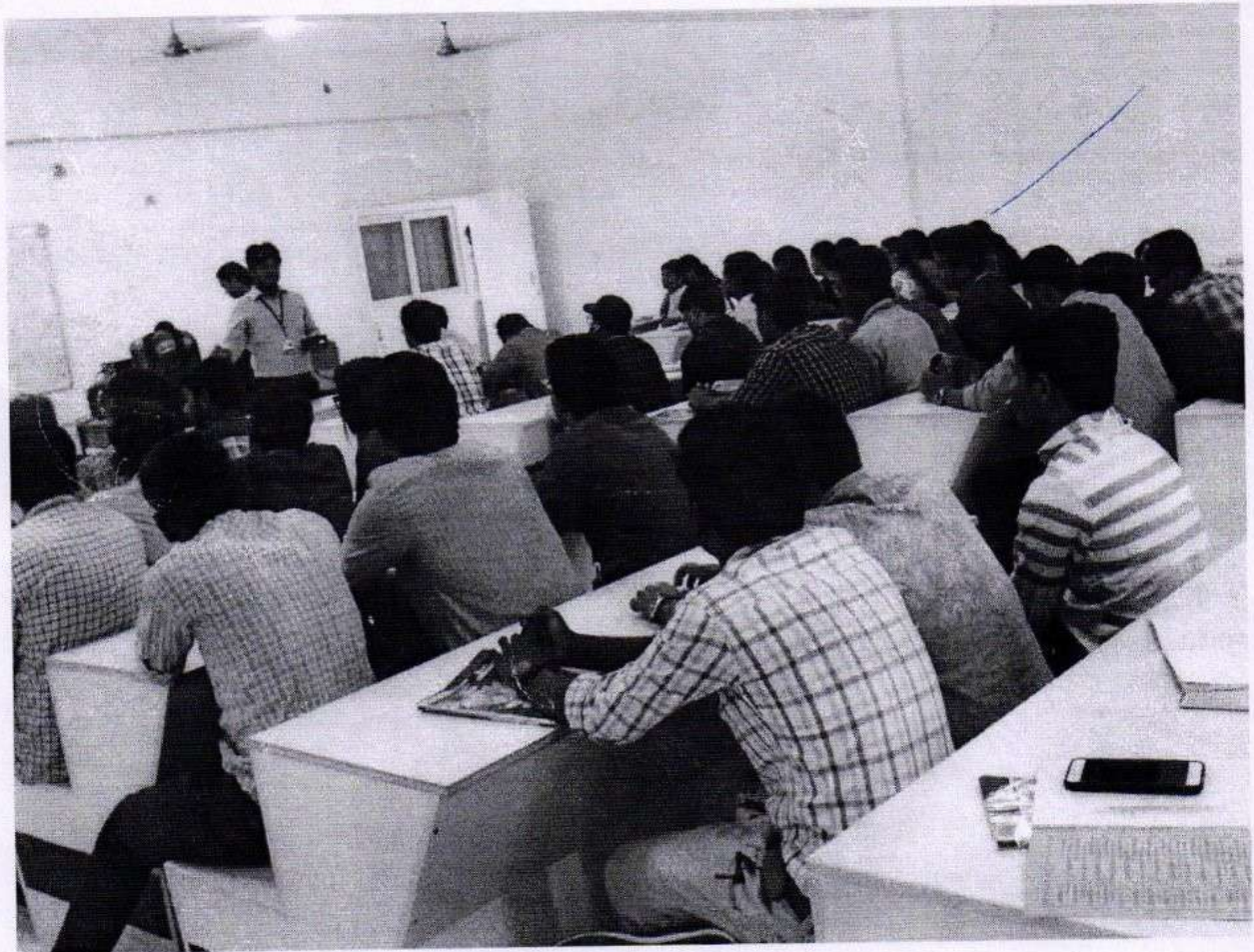


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## CERTIFICATE COURSE ON SOFTWARE PROJECT MANAGEMENT



*Jr. Aringed*  
COURSE COORDINATOR

*K. R. H.*  
HEAD OF THE DEPARTMENT



**Bharath**  
INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
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**CERTIFICATE OF PARTICIPATION**

**This certificate is presented to**

S.KUMARAN

For actively participating in the value added course "Windows 10 Mobile Application Development & Training"  
Conducted by School of Computing, BIHER from 11.07.2021 to 13.08.2021.

  
COURSE COORDINATORS

  
HEAD OF THE DEPARTMENT

  
DIRECTOR

## COURSE FEEDBACK FORM

Academic Year		2021-2022					
Term		Odd sem					
Course Number							
Course Title		Windows 10 Mobile Application <sup>Development</sup> and 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						yes
(ii)	Has adequate prior exposure to the prerequisites						yes
(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						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>							
		A	B	C	D	E	
1.	Pace of the Teaching/lecture		✓				
2.	Comment of the Subject		✓				
3.	Clarity of expression		✓				
4.	Level of preparation		✓				
5.	Level of interaction		✓				
6.	Accessibility outside the class		✓				
7.	Others (please specify)		✓				
<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**

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Department of Computer Science & Engg.,  
Bharath Institute of Higher Education & Research  
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Chennai-600 073, INDIA

# COURSE FEEDBACK FORM

Academic Year		2021 - 2022			
Term		odd sem			
Course Number					
Course Title		Windows 10 Mobile Application Development & Training			
Number of Credits					
Type of Course	Regular		Elective		Add-on

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

**1. Percentage of classes attended**

0-20		20-40		40-60		60-80	✓	80-100
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**2. Number of hours per week spent on the course (Other than lecture hours)**

0-2		2-4		4-6		6-8	✓	8-10
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**3. Preparation for the course by the student:**

(i)	Have done part of this course earlier	yes
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	yes
(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	yes

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

		A	B	C	D	E
1.	Pace of the Teaching/lecture		✓			
2.	Comment 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
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**HEAD OF THE DEPARTMENT**

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 Department of Computer Sci & Engg.,  
 Bharath Institute of Higher Education & Research  
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 Chennai-600 073, INDIA