

KONGU ENGINEERING COLLEGE
PERUNDURAI ERODE-638060
(AUTONOMOUS)

DEPARTMENT OF COMPUTER APPLICATIONS

Date: 22.01.2021

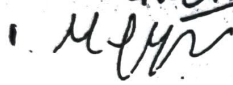
DETAILS OF ONE / TWO CREDIT COURSE

1.	Academic Year	:	2020-2021	Semester :	ODD/ EVEN		
2.	Course Title	:	CROSS PLATFORM APP DEVELOPMENT WITH FLUTTER				
3.	Type of Course	:	Already Offered Course / Updated Course / New Course				
	• If "Already offered course",	:	Course Code:	Version:			
4.	Course Coordinator(s)	:	1.Dr.M.PYINGKODI 2.Ms.K.NANTHINI				
5.	Course offered by	:	Internal faculty / External experts				
6.	Name and designation of external resource persons	:	1. Mohamed Abdul Kader, Senior Software Engineer 2. K.K Sridhar, Team Lead				
7.	Details about external organizaiaon	:	1. GAVS Technologies, No.11, Rajiv Gandhi IT Expy, Sholinganallur, Chennai, Tamil Nadu 600119 Chennai. 2. Orion Business Innovation No.1, Gandhi Layout, 2 nd Floor, SreeVeera's Tower, Marudhamalai Rd, Coimbatore, Tamil Nadu 641046 Details for choosing the external organization for offering the course: To update the latest technologies from Industry				
8.	Course fee for external experts		Max. number of students/Batch		Course fee / student		
	---		Batch I: 31		--		
	---		Batch II: 39		--		
9.	No. of days	Period		No. of hours		Venue	
		From	To	Lecture	Practical		Total
	15	30.01.2021	28.03.2021	10	20	30	Online Google Meet B1: https://meet.google.com/yut-dutx-kna

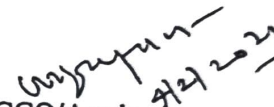
						B2:https://meet.google.com/ydy-mubx-cdp
10.	Pre-requisites for offering the course	:	Basic Programming Knowledge			
11.	Course offered to	:	Programme	Branch	Year/Semester	Regulations
			MCA	Computer Applications	I/I	2020
12.	Course Main Contents	:	Day-1(30.01.2021) 05.00PM – 7.00PM	Unit 1:DART PROGRAMMING LANGUAGE-INTRODUCTION		
			Day -2(30.01.2021) 04.00PM – 6.00PM	Set up an environment and working with simple programs using Dart Language		
			Day-3(06.02.2021) 05.00PM – 7.00PM	String Operation using Dart Language		
			Day -4(07.02.2021) 04.00PM – 6.00PM	Create a OOPS concept programs using Dart Language		
			Day-5(13.02.2021) 05.00PM – 7.00PM-	Create a Map object program using Dart		
			Day- 6(14.02.2021) 04.00PM – 6.00PM	Create a simple program using list and set objects		
			Day -7(20.02.2021) 05.00PM – 7.00PM	Assessment –I		
			Day -8(21.02.2021) 04.00PM – 6.00PM	Unit 2: FLUTTER FRAMEWORKS-INTRODUCTION		
			Day -9(27.02.2021) 05.00PM – 7.00PM	Set up an environment for the successful development of the flutter application.		
			Day- 10(28.02.2021) 04.00PM – 6.00PM	Create a simple application in android studio to understand the basics of the Flutter application		
			Day 10(28.02.2021) 04.00PM – 6.00PM	Create program using Flutter Layouts		
			Day -11(06.03.2021) 04.00PM – 6.00PM	Build simple application using UI Functionality and user management		
			Day -12(07.03.2021) 05.00PM – 7.00PM	Develop a Flutter App using Navigation and Routing		
			Day -13(13.03.2021) 04.00PM – 6.00PM	Simple login and sign in functionalities Create simple application using importing external libraries		
			Day -14(14.03.2021) 04.00PM – 6.00PM	Create simple application using importing external libraries		
			Day -15(20.03.2021) 04.00PM – 6.00PM	Demonstrate the data transfer using JSON and serialization		
			Day -16(21.03.2021) 04.00PM – 6.00PM-	Create simple photo album app-Fetching images from online/offline		
			Day -17(27.03.2021) 04.00PM – 6.00PM	Assessment –II		
			Assignment / Project / Case Study/Others: --			

13.	Course Outcomes	:	After completing the course the student will be able to: • Use various features in Dart Programming • Implement simple applications using various components in flutter framework • Build interactive mobile applications for iOS and Android devices.		
14.	Course Assessment (Min. 2)	:	S. No.	Type	Max. Marks
			1	Practical Exam	50
			2	Mini Project	50
				Total	100 Marks
15.	Any other details	:			

The above proposal may kindly be approved.

1. 

 2. 
 Course Coordinator 22/1/21


 HOD 22/01/2021


 CCO/Academic 21/2/2021

Unit - I	Dart Programming Language:	5
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Unit - II	Flutter Frameworks:	5
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List of Exercises / Experiments:

- Lecture: 10, Practical:20, Total**

1.	Alessandro Biessek, "Flutter for Beginners: An introductory guide to building cross-platform mobile applications with Flutter and Dart 2", 1 st Edition, Packt Publishing, 2019.
2.	Marco L. Napoli, "Beginning Flutter: A Hands On Guide to App Development", 1 st Edition, Wrox Publisher, 2019.

On completion of the course, the students will be able to		(Highest Level)
CO1	use various features in Dart Programming Language	Applying (K3)
CO2	implement simple applications using various components in Flutter Framework	Applying (K3), Precision (S3)
CO3	build interactive mobile applications for iOS and Android devices	Applying (K3) Precision (S3)



(P. G. K. K.)

M. L. W. (Dr. M. Pyingood)
J. B. Duthie (J. B. Duthie)

De la Torre

Signature of the Chairman
Board of Studies - MCA

Mapping of COs with POs and PSOs

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	3	2										2
CO2	2	2	3	2									3	2
CO3	3	2	3	2									3	3

1 - Slight, 2 - Moderate, 3 - Substantial, BT- Bloom's Taxonomy

ASSESSMENT PATTERN

Test / Bloom's Category*	Remembering (K1) %	Understanding (K2) %	Applying (K3) %	Analyzing (K4) %	Evaluating (K5) %	Creating (K6) %	Total %
Assessment1 (50 marks)		60	40				100
Assessment 2 (50 marks)		30	70				100



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Cf. Karthi

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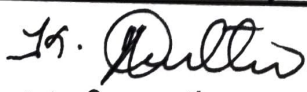
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Signature of the Chairman
Board of Studies -

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638060

DEPARTMENT OF COMPUTER APPLICATIONS

18VAC59 & CROSS PLATFORM APP DEVELOPMENT WITH FLUTTER

S. No	Roll No	Name of the Student	Conducted Hours	Absent Hours	Present Hours	Attendance Percentage
1	20MCR003	Ajai krishna A	32	4	28	87.5
2	20MCR008	Ashlam Mohaidheen P	32	2	30	93.75
3	20MCR011	Bhuvaneshwaran T	32	2	30	93.75
4	20MCR012	Dinesh M	32	2	30	93.75
5	20MCR013	Deepak P V	32	2	30	93.75
6	20MCR015	David raja R	32	0	32	100
7	20MCR019	Erajavignesh V	32	2	30	93.75
8	20MCR025	Janani S	32	2	30	93.75
9	20MCR040	Manikanda Prabu P	32	0	32	100
10	20MCR044	Mohanapriya G	32	4	28	87.5
11	20MCR045	Mownika S	32	0	32	100
12	20MCR046	Munish M	32	2	30	93.75
13	20MCR049	Nataraj T	32	4	28	87.5
14	20MCR056	Pavithra A N	32	4	28	87.5
15	20MCR057	Pragadhesh S	32	6	26	81.25
16	20MCR060	Ranjith Kumar M	32	2	30	93.75
17	20MCR063	Sanjeev S	32	2	30	93.75
18	20MCR064	Santhosh Shiva	32	6	26	81.25
19	20MCR065	Saravana Kumar R	32	2	30	93.75
20	20MCR066	Sathish Kumar	32	2	30	93.75
21	20MCR067	Sathya D	32	2	30	93.75
22	20MCR068	Shubham Kumar D	32	0	32	100
23	20MCR075	Sunny Bhushan	32	2	30	93.75
24	20MCR078	Vairamuthu G	32	4	28	87.5
25	20MCR079	Vasanth G N	32	0	32	100
26	20MCR080	Vigashini J K	32	0	32	100
27	20MCR081	Vishal Kumar	32	2	30	93.75
28	20MCR083	Kamali D	32	0	32	100
29	20MCR084	Priya Dharshini M B	32	2	30	93.75



 Course Coordinator(s)
 (Dr. M. pyinglcudi)
 (K. Nanthini)


 HoD

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE – 638 060
DEPARTMENT OF COMPUTER APPLICATIONS
18VAC59 & CROSS PLATFORM APP DEVELOPMENT WITH FLUTTER

S. No	Roll No	Name of the Student	Assignment - Application Demo(CAT-I)	Online Assessment(CAT-II)	Total Mark
1	20MCR003	Ajai krishna A	AB	AB	AB
2	20MCR008	Ashlam Mohaidheen P	45	48	93
3	20MCR011	Bhuvaneshwaran T	48	48	96
4	20MCR012	Dinesh M	AB	AB	AB
5	20MCR013	Deepak P V	48	45	93
6	20MCR015	David raja R	AB	AB	AB
7	20MCR019	Erajavignesh V	49	48	97
8	20MCR025	Janani S	46	43	89
9	20MCR040	Manikanda Prabu P	45	48	93
10	20MCR044	Mohanapriya G	47	48	95
11	20MCR045	Mownika S	43	50	93
12	20MCR046	Munish M	48	45	93
13	20MCR049	Nataraj T	45	50	95
14	20MCR056	Pavithra A N	43	47	90
15	20MCR057	Pragadhesh S	40	AB	40
16	20MCR060	Ranjith Kumar M	44	49	93
17	20MCR063	Sanjeev S	AB	AB	AB
18	20MCR064	Santhosh Shiva	42	47	89
19	20MCR065	Saravana Kumar R	49	48	97
20	20MCR066	Sathish Kumar	43	47	90
21	20MCR067	Sathya D	45	47	92
22	20MCR068	Shubham Kumar D	49	50	99
23	20MCR075	Sunny Bhushan	48	50	98
24	20MCR078	Vairamuthu G	47	49	96
25	20MCR079	Vasanth G N	45	40	85
26	20MCR080	Vigashini J K	43	50	93
27	20MCR081	Vishal Kumar	45	50	95
28	20MCR083	Kamali D	AB	AB	AB
29	20MCR084	Priya Dharshini M B	45	50	95

Y. S. Puthu

M. L. V.
Course Coordinator(s)

(Dr. M. Pyinglodi)

(K. Nanthini)

HoD

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