



KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE – 638060



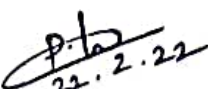
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

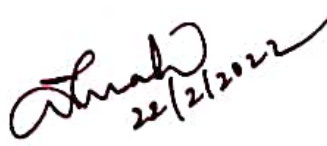
Date: 22.02.2022

CIRCULAR

The following courses are approved by Curriculum and Development Cell (CDC) for this semester (2021-2022 even). The students may enroll themselves based on their willingness to attend the course. The courses will start from March 2022 onwards.

S.No.	Course Code	Name of the One credit course
1.	18VAC81	ASIC design using Cadence
2.	18VAC69	Real time project development using Image Processing and Machine Learning
3.	20VC015	Modeling and deployment Onto SoC using MATLAB and SIMULINK
4.	20VC024	Biomedical Systems and Wearable Medical Services
5.	18VAC88	System Design using MSP430 microcontroller and Code Composer Studio
6.	18VAC89	Industrial communication standards and measurements
7.	18VAC90	Long range technology for IoT application using LORA WAN
8.	20VC025	Long range technology for IoT application using LORA WAN
9.	18VAC91	QCA design for digital Electronics


22.2.22
Faculty Incharge


22/2/2022
HOD / ECE

 Estd : 1984	KONGU ENGINEERING COLLEGE (Autonomous) PERUNDURAI – 638060 INTERNAL QUALITY ASSURANCE CELL		 CERT No.:99-100-20788 ISO 9001 : 2015
	Approval for Value Added Course (One / Two Credits)		

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Academic Year: 2021-2022

ODD/EVEN Semester

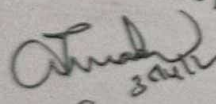
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

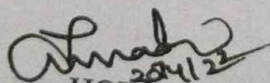
Date:29.04.2022

1.	Academic Year	:	2021-2022	Semester: EVEN			
2.	Course Title	:	Modeling and Deployment Onto Soc Using MATLAB and Simulink	Credit(s): One			
3.	Type of Course	:	Already Offered Course / Updated Course / New Course				
	• If “Already offered course”,	:	Course Code: 20VC015	Version: -			
4.	Course Coordinator(s)	:	1. Dr.T.Meeradevi 2. Dr.S.Sasikala				
5.	Course offered by	:	Internal faculty / External experts				
6.	Name and designation of external resource persons	:	Not Applicable				
7.	Details about external organization	:	Not Applicable				
8.	Course fee for external experts		Max. number of students/Batch		Course fee / student		
	NA		50		300		
9.	No. of days	Period		No. of hours		Venue/ Meet ID	
		From	To	Lecture	Practical		Total
	15	09.05.2022	31.05.2022	18	12		30
			ECE (OFFLINE MODE)				
10.	Pre-requisites for offering the course	:	Not Needed				
11.	Course offered to	:	Programme	Branch	Year/Semester		
		:	B.E.,	ECE	II/IV		
12.	Course Main Contents	:	Day 1	Basics of Simulink, Creation and simulation of Simulink model			
		:	Day 2	Building a model and its analysis			
		:	Day 3	Modeling Discrete Dynamic Systems			
		:	Day 4	Modeling Logical Constructs			

		Day 5	Mixed Signal Models												
		Day 6	Subsystem Creation												
		Day 7	Filter Design and Spectral Analysis												
		Day 8	Design of Filter using Retiming												
		Day 9	Design of Filter using Pipelining												
		Day 10	Design of Filter using Systolic Filter												
		Day 11	HDL code generation based on Simulink												
		Day 12													
		Day 13	Design of Signal Processing Applications using System generator												
		Day 14	Implementation of adaptive filter in FPGA for ECG denoising application												
		Day 15													
13.	Course Outcomes	:	After completing the course the student will be able to: • Demonstrate modeling concepts using Simulink • Develop models for various signal processing Applications • Deploy the models on FPGA Processor												
14.	Course Assessment (Min. 2)	:	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Type</th> <th>Max. Marks</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>MCQs</td> <td>50</td> </tr> <tr> <td>2.</td> <td>Laboratory Assignment</td> <td>50</td> </tr> <tr> <td colspan="2">Total</td> <td>100 Marks</td> </tr> </tbody> </table>	S. No.	Type	Max. Marks	1.	MCQs	50	2.	Laboratory Assignment	50	Total		100 Marks
S. No.	Type	Max. Marks													
1.	MCQs	50													
2.	Laboratory Assignment	50													
Total		100 Marks													
15.	Verified that the content of this course is not offered to students partially/fully in regular curriculum of respective programme of the student. Certify that the course content, credits and grade are approved in the BOS meeting or approved by internal BOS members and will be ratified in the next BOS meeting		(Signature of the HoD after verification)												
16.	Any other details	:													

The above proposal may kindly be approved.


 30/11/22
 Course co-ordinator(s) [Dr. S. SASIKALA]


 30/11/22
 HOD

Chief Coordinator/Academic

Encl:

1. Copy of the syllabus of the course
2. Financial proposal from the external organization (if any)

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KONGU ENGINEERING COLLEGE, PERUNDURAI – 638060
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

2021-22 EVEN SEMESTER
ONE CREDIT COURSE ON “20VC015 - Modeling and Deployment Onto Soc Using MATLAB and Simulink”

Course Schedule

S.No.	Date	Time	Topics	Faculty	
1.	18.05.2022	4.30 PM To 6.30 PM	Basics of Simulink, Creation and simulation of Simulink model	Dr.S.Sasikala	
2.	19.05.2022		Building a model and its analysis		
3.	20.05.2022		Modeling Discrete Dynamic Systems		
4.	21.05.2022	8.45 AM To 10.45 AM	Modeling Logical Constructs		
5.	21.05.2022	11.00 AM To 01.00 PM	Mixed Signal Models		
6.	21.05.2022	2.00 PM To 4.00 PM	Subsystem Creation	Dr.T.Meeradevi	
7.	23.05.2022	4.30 PM To 6.30 PM	Filter Design and Spectral Analysis		
8.	24.05.2022		Design of Filter using Retiming		
9.	25.05.2022		Design of Filter using Pipelining		
10.	26.05.2022		Design of Filter using Systolic Filter		
11.	27.05.2022		HDL code generation based on Simulink		
12.	30.05.2022		Design of Signal Processing Applications using System generator		
13.	31.05.2022				
14.	01.06.2022		Implementation of adaptive filter in FPGA for ECG denoising application		
15.	02.06.2022				

[Signature]
 30/5/22
 Co-ordinator 29/4/2022

[Signature]
 30/5/22
 HOD/ECE

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638 060
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
One Credit Course on "Modeling and Deployment onto SoC using MATLAB and Simulink"

ATTENDANCE SHEET

S. No	Roll no	Name	Percentage Attendance
1	20ECR009	ARTHIKA J	80
2	20ECR014	ASHIKA K	86.67
3	20ECR016	ASRITHA S	86.67
4	20ECR022	BOOMIKA A	86.67
5	20ECR026	DEVADHARSHINI P D	100
6	20ECR029	DHANUSHUYA P	86.67
7	20ECR036	DHESIKA S	100
8	20ECR050	HARINI R	66.67
9	20ECR052	HARIPRIYA J	80
10	20ECR065	JOSIKA N T	80
11	20ECR070	KANISHA V	86.67
12	20ECR071	KARTHEESWAR K P	86.67
13	20ECR073	KARTHIGA K	86.67
14	20ECR074	KAUSIKA S	86.67
15	20ECR079	KAVYA T	93.33
16	20ECR084	KEERHI P	86.67
17	20ECR088	LATHIKA M V	73.33
18	20ECR096	MEGHASHRI M	80
19	20ECR101	MOHANRAJ K	66.67
20	20ECR103	MOURISSH B M	93.33
21	20ECR112	NITHISH S	100
22	20ECR113	NIVETHITHA M	100
23	20ECR116	PONKAVIN D	86.67
24	20ECR119	PRADEEPA V	93.33
25	20ECR121	PRASANNA G	100
26	20ECR123	PRAVEEN N	100
27	20ECR126	PREETHA K	86.67
28	20ECR129	RANJITH S	100
29	20ECR132	RUDHRANANTH N	100
30	20ECR133	SABARI U P	73.33
31	20ECR135	SANGAMITHRA V	86.67
32	20ECR136	SANGAVI S	73.33
33	20ECR143	SANTHOSH SHIVAA S	60
34	20ECR145	SARJUNAHMAD K	100
35	20ECR146	SASTHIKA S	100
36	20ECR147	SATHISH KUMAR G	93.33

Course Co-ordinator

(Dr. S. SasiKala)

HOD/EC

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
One Credit Course on “Modeling and Deployment onto SoC using MATLAB and Simulink”

Consolidated Mark sheet

S.No.	Roll No.	Name of the Student	Marks (MCQs out of 50)	Marks (Laboratory Assessment out of 50)	Total Marks (out of 100)
1.	20ECR009	ARTHIKA J	37	45	82
2.	20ECR014	ASHIKA K	37	45	82
3.	20ECR016	ASRITHA S	33	40	73
4.	20ECR022	BOOMIKA A	37	44	81
5.	20ECR026	DEVADHARSHINI P D	37	45	82
6.	20ECR029	DHANUSHUYA P	33	41	74
7.	20ECR036	DHESIKA S	33	38	71
8.	20ECR050	HARINI R	33	38	71
9.	20ECR052	HARIPRIYA J	30	35	65
10.	20ECR065	JOSIKA N T	33	39	72
11.	20ECR070	KANISHA V	37	46	83
12.	20ECR071	KARTHEESWAR K P	37	46	83
13.	20ECR073	KARTHIGA K	30	35	65
14.	20ECR074	KAUSIKA S	40	48	88
15.	20ECR079	KAVYA T	33	37	70
16.	20ECR084	KEERHI P	33	38	71
17.	20ECR088	LATHIKA M V	33	38	71
18.	20ECR096	MEGHASHRI M	33	40	73
19.	20ECR101	MOHANRAJ K	33	38	71
20.	20ECR103	MOURISSH B M	37	45	82
21.	20ECR112	NITHISH S	30	38	68
22.	20ECR113	NIVETHITHA M	30	36	66
23.	20ECR116	PONKAVIN D	33	39	72
24.	20ECR119	PRADEEPA V	33	38	71
25.	20ECR121	PRASANNA G	40	47	87
26.	20ECR123	PRAVEEN N	40	46	86
27.	20ECR126	PREETHA K	30	36	66
28.	20ECR129	RANJITH S	33	38	71
29.	20ECR132	RUDHRANANTH N	43	48	91
30.	20ECR133	SABARI U P	37	46	83
31.	20ECR135	SANGAMITHRA V	33	38	71
32.	20ECR136	SANGAVI S	33	40	73
33.	20ECR143	SANTHOSH SHIVAA S	33	38	71
34.	20ECR145	SARJUNAHMAD K	40	48	88
35.	20ECR146	SASTHIKA S	30	35	65
36.	20ECR147	SATHISH KUMAR G	33	37	70

Course Co-ordinator

HOD/ECE 24/6/22