

Mr. MSH

CDC-04A, Rev.3, 01.04.2021



CONFORME A LA NORME ISO 9001

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE - 638 060

(AUTONOMOUS)

BOARD OF EEE

Approval for Value Added Course (One / Two Credits) - (Consolidated)

Date: 07.09.2021

List of Value Added Course (One / Two credit) in the academic Year 2021-2022 Odd Semester

Sl. No	Regulations	Course Name	Course code (for Repeated Course) / New Course	Name of the Coordinators (Max.2)	Experts details from Industry (if any)	Whether Expert(s) is/are Alumni/ Alumnae (yes/no)	Lecture Hours	Practical Hours	Total Hours	Specify Fee/Pr Btc./ Fee/Per Student	Fee Amount (Fee/Pr Btc./ Fee/Per Student)	Course Duration From To	Offered to (Year/Sem/ Branch of the student)
1	2020	FPGA Design for signal and Image Processing	New Course	Dr. S. Maheswari Mr. S. K. Logath	NIL	No	15	15	30	Nil	Nil	25.09.2021 31.10.2021	III / III / EEE EIE ECE, CSE, IT, MTS
2	2018	Illumination and Lighting Design	Repeated Course	Dr. A. Sheela Dr. R. Meenakumari	Sekakumar S. Power Projects, Chennai	No	10	20	30	236/Student	236/Student	30.10.2021 31.10.2021 06.11.2021 07.11.2021	III / V / EEE
3	2020	SPICE based Simulation and analysis of Electronic Circuits using Multisim- Level 1	New Course	K. Ranjithkumar K. Kavirumalai	Nil	NO	10	20	30	Nil	Nil	25.09.2021 24.10.2021	III / III / EEE
4	2018	Electrical CAD	Repeated Course	Dr. R. Meenakumari Dr. N. Prithvishankar Dr. S. Albert Alexander	C. Cuihe Technologies Enthu Technology Solutions India Pvt Ltd	No	10	20	30	1770/Student	1770/Student	06.12.2021 22.12.2021	III / IV / EEE EIE
5	2020	Introduction to IOT & its real time applications	New Course	Mr. D. Sarathkumar Dr. M. Srinivasan Mr. M. Suresh	Revolve india Pvt Limited	No	10	20	30	500/Student	500/Student	01.10.2021 31.10.2021	III / III / EEE EIE, CSE, IT
6	2020	Electric Vehicle and Battery Management System	New Course	Dr. M. Srinivasan Mr. M. Suresh	Revolve india Pvt Limited	No	10	20	30	350/Student	350/Student	14.10.2021 15.11.2021	III / III / EEE EIE, CSE, EIE
7	2018	Electric Vehicle and Battery Management System	New Course	Dr. M. Srinivasan Mr. M. Suresh	Revolve india Pvt Limited	No	10	20	30	350/Student	350/Student	04.10.2021 05.11.2021	III / IV / V / VII / EEE EIE, CSE, MTS EIE
8	2018	Real Time Embedded System Development using High Performance Arm CORTEX M4 Processor	Repeated Course	Dr. M. Karthik Dr. S. Usha	Enthu Technology Solutions India Pvt Ltd	No	0	30	30	700/Student (Approx)	700/Student (Approx)	25.09.2021 27.10.2021	III / VI / EEE

These courses shall be approved/ratified in the BOS meeting.

16/9/21
Faculty in-charge
Mr. SURESH

16/9/21
CCO Academic

16/9/21
Principal

- Encl:
- Minutes of Internal BOS for approval of the above courses
 - Details of each course mentioned above as per the given format.
 - Copy of the Syllabus of the courses

L	T	P	Credit
2	0	2	1

Preamble This course imparts knowledge about the design of schematic layout and panel layout of electrical components for various applications

Unit - I AutoCAD for Electrical Engineers

Introduction to Electrical Drawings-Layer Management-Symbol builder and circuit builder-Schematic components-wires and wire numbers-Connectors-conversion tools-Panel Layout. Co- Ordinate Systems-Units-Limits- Design Environment & Basic Workflow, Project Manager, the Project Drawing List, Moving Through Projects, Activating And Copying Projects

Unit - II Panel Layouts AND PLC Modules

Creating Panel Layouts from Schematic Lists- Using the DIN Rail Utility- Using the Terminal Strip Editor- Panel Layout Annotation and Reports-Electrical Auditing and Drawing Auditing- Using PLC I/O Modules-Using the PLC Database File Editor-PLC I/O Address-Based Tagging-Using the Spread Sheet to PLC I/O Utility-Building Wiring, Single Line Diagram

List of Exercises / Experiments:

1. Ro Plant Wiring Diagram with Panel Board
2. Power Generation to Utilization Single Line Diagram (assume any power station)
3. Make House Wiring which uses 1500 units per month
4. Create Wiring diagram of a Substation
5. Temporary Power Supply diagram for a Shopping Mall under Construction
6. Make a wiring System for Dairy Production Company
7. Wiring System for Stadium with Equal Phase Distribution

Lecture:10, Practical:20, Total: 30

REFERENCES:

1. S.K.Bhattacharya, "Electrical Engineering Drawing", Second Edition, New Age International (P) Limited Publishers, India, 2005.
2. Learn about AutoCAD –An Introduction to AutoCAD Beginners, Autodesk User Manual, Autodesk Official Press, Wiley-India, 2016
3. George Omura, "Mastering AutoCAD 2016 and AutoCAD LT 2016", Autodesk Official Press, Wiley-India, 2015.

COURSE OUTCOMES:

On completion of the course, the students will be able to

CO1 Design a schematic layout of electrical components.

CO2 Design a panel layout for various applications.

CO3 Create projects using ECAD with knowhow of interfacing with real time system.

BT Mapped
(Highest Level)

Applying (K3), Precision (S3)

Applying (K3), Precision (S3)

Creating (K6), Articulation (S4)

Mapping of COs with POs and PSOs

COs/POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1										2	
CO2	2	2	1										2	
CO3		1	2			3							1	

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 %
Assignment (40 marks)	10	10	20				100
Test (30 marks)	10	10	10				100
Project (30 marks)		10	10			10	100

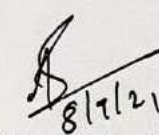
 Estd : 1984	KONGU ENGINEERING COLLEGE (Autonomous) PERUNDURAI – 638060 INTERNAL QUALITY ASSURANCE CELL	 CERT No.:99-100-20788 ISO 9001 : 2015
	Approval for Value Added Course (One Credit)	

Academic Year: 2021 - 2022 ODD Semester

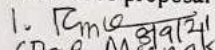
DEPARTMENT OF EEE

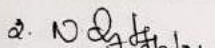
Date: 07.09.2021

1.	Academic Year	:	2021-2022	Semester : ODD		
2.	Course Title	:	ELECTRICAL CAD	Credit(s): One ✓		
3.	Type of Course	:	Already Offered Course			
	• If "Already offered course",	:	Course Code: 18VAC42	Version: 2		
4.	Course Coordinator(s)	:	1) Dr R.Meenakumari, Professor / EEE 2) Dr.N.Priyadharshini, Assistant Professor (Sr.G)/ EEE			
5.	Course offered by	:	External experts			
6.	Name and designation of external resource persons	:	Mr. N.Kumaresan, Business Development Manager, C CUBE TECHNOLOGIES			
7.	Details about external organization	:	C CUBE TECHNOLOGIES 49C, Amman Complex, Opp.Abirami Theatre Road, Erode - 638011, TN, INDIA. +(91)-424-2255076			
8.	Course fee for external experts		Max. number of students/Batch	Course fee / student		
	Rs.1500+18% tax(online)		30	Rs.1770.00 ✓		
9.	No. of days	Period	No. of hours			Venue/ Meet ID
		From To	Lecture	Practical	Total	
	15	06.12.2021 22.12.2021	10	20	30 ✓	
10.	Pre-requisites for offering the course	:	Engineering Drawing			
11.	Course offered to	:	Programme	Branch	Year/Semester	
			BE	EEE/EIE	III year/ 5 th sem	

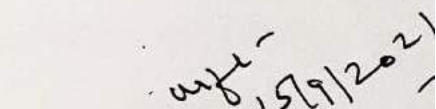
12.	Course Main Contents	:	Syllabus Attached		
			Assignment will be given in parallel with the topic.		
13.	Course Outcomes	:	After completing the course the student will be able to: • Design a schematic layout of electrical components. • Design a panel layout for various applications. • Create projects using ECAD with knowhow of interfacing with real time system.		
14.	Course Assessment (Min. 2)	:	S. No.	Type	Max. Marks
			1)	Assignment	40
			2)	Test	30
			3)	Project	30
			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.

1. 
 (Dr. R. Meenakumari)

2. 
 (Dr. N. Prasadharshini)
 Course co-ordinator(s)


 HOD


 Chief Coordinator/Academic

Encl:

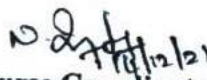
1. Copy of the syllabus of the course
2. Financial proposal from the external organization (if any)

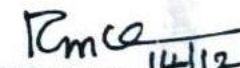
KONGU ENGINEERING COLLEGE, PERUNDURAI, 638060
DEPARTMENT OF EEE-In collaboration with C CUBE TECHNOLOGIES
One credit course on "18VAC42- Electrical CAD"
(25.10.2021 to 30.11.2021-15 days)
Attendance percentage list

Total conducted hours = 30 hours

Sl.No	Roll No.	Name Of The Students	Year / Section	Semester	Absent hours	Present hours	Attendance Percentage
1	19EER001	ABHISHEK ASHOK PILLAI	III EEE A	5	2	28	93.33
2	19EER003	AKASH KUMAR C	III EEE A	5	4	26	86.66
3	19EER006	ASHWATH RAKHAV K R	III EEE A	5	0	30	100
4	19EER008	BALAHAREESH K	III EEE A	5	0	30	100
5	19EER009	BAVADHARSHINI J M	III EEE A	5	0	30	100
6	19EER010	BAVYA S	III EEE A	5	0	30	100
7	19EER011	BHARATH P	III EEE A	5	0	30	100
8	19EER013	BUJASRI C	III EEE A	5	0	30	100
9	19EER016	DEEPIKA R K	III EEE A	5	0	30	100
10	19EER018	DHARSHINI T	III EEE A	5	0	30	100
11	19EER019	GIRIANANDH K	III EEE A	5	0	30	100
12	19EER023	GOWTHAM R	III EEE A	5	2	28	93.33
13	19EER025	GUHAN P	III EEE A	5	2	28	93.33
14	19EER028	HARIHARAN G	III EEE A	5	4	26	86.66
15	19EER029	HARIHARAN S P	III EEE A	5	2	28	93.33
16	19EER030	HARIHARAN G	III EEE A	5	0	30	100
17	19EER031	HARISH V	III EEE A	5	0	30	100
18	19EER032	HEMALATHA S	III EEE A	5	0	30	100
19	19EER033	JASHWINKUMAR R S	III EEE A	5	0	30	100
20	19EER035	JOHITHA B	III EEE A	5	0	30	100
21	19EER036	JYOTHIPRABHA D	III EEE A	5	0	30	100
22	19EER037	KABI BALA S	III EEE A	5	0	30	100
23	19EER038	KARTHIKA S	III EEE A	5	0	30	100
24	19EER042	KAVIN V	III EEE A	5	0	30	100
25	19EER044	KAVIYA S	III EEE A	5	0	30	100
26	19EER046	KISHOREPRIYAN R	III EEE A	5	0	30	100
27	19EER047	KOWSIK S	III EEE A	5	0	30	100
28	19EER049	LOGASANTHOSH.B	III EEE A	5	4	26	86.66
29	19EER050	LOGESH M	III EEE A	5	0	30	100
30	19EER051	MADHANKUMAR R M	III EEE A	5	0	30	100
31	19EER052	MAHENDRA PRASAD R	III EEE A	5	4	26	86.66
32	19EER053	MANIKANDAN M	III EEE A	5	2	28	93.33
33	19EER054	MUGESH KUMAR M	III EEE A	5	0	30	100
34	19EEL119	RAGU G	III EEE A	5	0	30	100

35	19EEL121	SUGANESHWARAN S	III EEE A	5	0	30	100
36	19EER056	NALINI K R	III EEE B	5	2	28	93.33
37	19EER058	NIRANJAN R S	III EEE B	5	2	28	93.33
38	19EER059	NISHANTHI R	III EEE B	5	0	30	100
39	19EER060	NISHANTHKUMAR K S	III EEE B	5	0	30	100
40	19EER064	PRABAKARAN S	III EEE B	5	0	30	100
41	19EER071	PUGAZHAZHAGAN T A	III EEE B	5	0	30	100
42	19EER076	ROSHNA RITHI K	III EEE B	5	2	28	93.33
43	19EER084	SARAVANA KUMAR R	III EEE B	5	0	30	100
44	19EER087	SIBIKKRISHNA N	III EEE B	5	4	26	86.66
45	19EER093	SRI ARVIND S N	III EEE B	5	0	30	100
46	19EER094	SRIKANTH S	III EEE B	5	0	30	100
47	19EER098	SUDHARSAN L	III EEE B	5	2	28	93.33
48	19EER099	SUJEET P	III EEE B	5	0	30	100
49	19EER111	WASIEM FAIROSE M	III EEE B	5	0	30	100
50	18EER066	RAAJESHKUMARAN R	IV EEE B	7	2	28	93.33
51	18EER102	VIGNESH K	IV EEE B	7	2	28	93.33
52	18EER103	VIJAY RAJ M	IV EEE B	7	0	30	100
53	18EEL114	DHINESH N	IV EEE B	7	0	30	100


 Course Coordinator
 (Dr. N. Priyadharshini)


 HOD/EEE 14/12

KONGU ENGINEERING COLLEGE, PERUNDURAI, 638060
DEPARTMENT OF EEE-In collaboration with C CUBE TECHNOLOGIES
One credit course on "18VAC42- Electrical CAD"
(25.10.2021 to 30.11.2021-15 days)

Assessment marks

Assessment marks									
Sl.No	Roll No.	Name Of The Students	Year / Section	Semester	Test		Assignment	Project	Total
					30 marks	40 marks			
1	19EER001	ABHISHEK ASHOK PILLAI	III EEE A	5	26	35	25	86	
2	19EER003	AKASH KUMAR C	III EEE A	5	25	30	25	80	
3	19EER006	ASHWATH RAKHAV K R	III EEE A	5	26	35	25	86	
4	19EER008	BALAHAREESH K	III EEE A	5	20	30	25	75	
5	19EER009	BAVADHARSHINI J M	III EEE A	5	24	30	25	79	
6	19EER010	BAVYA S	III EEE A	5	28	30	25	83	
7	19EER011	BHARATH P	III EEE A	5	19	30	25	74	
8	19EER013	BUJASRI C	III EEE A	5	26	35	25	86	
9	19EER016	DEEPIKA R K	III EEE A	5	28	35	25	88	
10	19EER018	DHARSHINI T	III EEE A	5	26	35	25	86	
11	19EER019	GIRIANANDH K	III EEE A	5	27	35	25	87	
12	19EER023	GOWTHAM R	III EEE A	5	25	35	25	85	
13	19EER025	GUHAN P	III EEE A	5	26	35	25	86	
14	19EER028	HARIHARAN G	III EEE A	5	21	30	25	76	
15	19EER029	HARIHARAN S P	III EEE A	5	25	30	25	80	
16	19EER030	HARIHARAN G	III EEE A	5	27	30	25	82	
17	19EER031	HARISH V	III EEE A	5	23	35	25	83	
18	19EER032	HEMALATHA S	III EEE A	5	26	30	25	81	
19	19EER033	JASHWINKUMAR R S	III EEE A	5	21	30	25	76	
20	19EER035	JOHITHA B	III EEE A	5	27	35	30	92	
21	19EER036	JYOTHIPRABHA D	III EEE A	5	26	35	25	86	
22	19EER037	KABI BALA S	III EEE A	5	27	30	25	82	
23	19EER038	KARTHIKA S	III EEE A	5	26	35	25	86	
24	19EER042	KAVIN V	III EEE A	5	21	30	25	76	
25	19EER044	KAVIYA S	III EEE A	5	19	35	25	79	
26	19EER046	KISHOREPRIYAN R	III EEE A	5	22	30	25	77	

27	19EER047	KOWSIK S	III EEE A	5	23	30	25	78
28	19EER049	LOGASANTHOSH.B	III EEE A	5	20	35	25	80
29	19EER050	LOGESH M	III EEE A	5	20	30	25	75
30	19EER051	MADHANKUMAR R M	III EEE A	5	25	30	25	80
31	19EER052	MAHENDRA PRASAD R	III EEE A	5	23	30	25	78
32	19EER053	MANIKANDAN M	III EEE A	5	22	30	25	77
33	19EER054	MUGESH KUMAR M	III EEE A	5	23	35	25	83
34	19EEL119	RAGU G	III EEE A	5	27	35	25	87
35	19EEL121	SUGANESHWARAN S	III EEE A	5	22	35	25	82
36	19EER056	NALINI K R	III EEE B	5	23	30	25	78
37	19EER058	NIRANJAN R S	III EEE B	5	27	30	25	82
38	19EER059	NISHANTHI R	III EEE B	5	25	30	25	80
39	19EER060	NISHANTHKUMAR K S	III EEE B	5	26	35	25	86
40	19EER064	PRABAKARAN S	III EEE B	5	26	30	25	81
41	19EER071	PUGAZHAZHAGANT A	III EEE B	5	27	35	25	87
42	19EER076	ROSHNA RITHI K	III EEE B	5	26	30	25	81
43	19EER084	SARAVANA KUMAR R	III EEE B	5	27	30	25	82
44	19EER087	SIBIKKRISHNA N	III EEE B	5	27	30	25	82
45	19EER093	SRI ARVIND S N	III EEE B	5	27	30	25	86
46	19EER094	SRIKANTH S	III EEE B	5	26	35	25	82
47	19EER098	SUDHARSAN L	III EEE B	5	27	30	25	82
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50	18EER066	RAAJESHKUMARAN R	IV EEE B	7	27	35	25	82
51	18EER102	VIGNESH K	IV EEE B	7	22	35	25	86
52	18EER103	VIJAY RAJ M	IV EEE B	7	26	35	25	86
53	18EEL114	DHINESH N	IV EEE B	7	26	35	25	86

19/04/2021
Course Coordinator
(Dr. N. Prasadharshini)

Rm 14/12/21
HOD/EEE

Above
₹. 20,000/-

KONGU ENGINEERING COLLEGE, PERUNDURAI, ERODE-638 080

PROGRAMME APPROVAL FORM

AD - 12 - PC
REV 1
01 04 2021

Proposal Tracking No. **EE/2021-2022/2 - KEC/EE/2021-2022/10/0040.**

Dept. Ref. No. : _____

Date: **25.10.2021**

1. Department:	EEE				
2. a). Name of the Programme	One Credit Course on Electrical CAD				
b). Norms under which it is proposed	One credit				
3. Dates:	From :	25-10-21	TO:	13-11-21	No. of Days 15
4. Programme for:	Faculty		Students	Others (Specify)	
5. Level:	State / National / International		Association	Institution / Dept. / Cell / General	
6. Highlights of the Programme:	To impart knowledge of electrical system design using ECAD.				

1. Proposed Invitees:

S.No.	Purpose	Chief Guest	Speakers / Jury	Trust Member Invitees
1	One credit course		Expert from	
2			C-cube technology	

2. Agenda: Programme Agenda / Schedule Enclosed : Yes / No

3. Expenditure:

S.No.	Purpose	Proposed	Revised	Actual	Remarks
1	Remuneration to C-cube	64,900			
2					
3					
4					
5					
6					
Total		64,900			

4. Source fee collected from students (55 x 1180 = 64900)

	Proposed	Actual
Budget Allotment		
Balance Amt. Available		
Expenses Proposed		
Balance		

25/10/21
2.10.21
Faculty In-charge
(Dr. N. Prasad)

H.O.D
25/10/21
CCO(A)

PRINCIPAL
26.10.21

CORRESPONDENT

**KONGU ENGINEERING COLLEGE, THOPPUPALAYAM,
PERUNDURAI, ERODE - 638 060**

ACCOUNT SETTLEMENT FORM

(Function / Events Conducted @ KEC)

Association	Value Added Course	IIPC	Others:
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DATE: 14.12.2021

Department	: FEE		
Name of the Function / Event	: One credit course on BVA042- Electrical CAD		
Function In-charge	: Dr. N. Priyadharshini		
Date of Function / Event	: 25-10-21 to 30-11-21 (15 days)		
Date of proposal	: 25-10-21		
Amount sanctioned	: ₹. 64,900		
Amount Collected from Participants (if any)	Amount (A) ₹.	Service Tax (B) ₹.	Total (A + B) ₹. 62,540
	Receipt No. & Date		
Advance amount Received & Date	: ₹. -	Date: -	
Total expenses	: ₹. 62,540		
Balance amount Remitted	₹. -	Receipt No.	Receipt Date
Amount Claimed (if any)	: ₹. 62,540		
Amount to KEC / IIPC	₹. -	Percentage (%)	

10/12/21
FACULTY INCHARGE
(WITH NAME)
Dr. N. Priyadharshini

14/12/21
HOD

CCO

For Office use only

SUPERINTENDENT

A.R.

REGISTRAR