

DEPARTMENT OF CSE-ADD-ON COURSE-Attendance List

COURSE NAME: Programming Python (InfyTQ)

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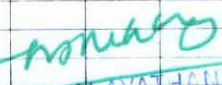
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126	JEC17ME106	Siljo Simon						a
127	JEC17ME069	Jose Joseph						
128	JEC17ME105	Shobin V Babu						
129	JEC17ME061	Jiffin Joshy						
130	JEC17ME112	Sudheesh S						
131	JEC17ME085	N Binurenj						
132	JEC17ME082	Mohammed Salih K Jaleel	a					
133	JEC17ME079	Mathews Sebastian						a

~~Dr. Sunny~~
Dr. SUNNY JOSEPH KALAYATHAKKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College,
Changanassery, PO. 690533



ADD-ON COURSE FEEDBACK FORM

Topic Title:

PROGRAMMING PYTHON IN PYTHON

Participant's Name (optional):

ANILA MARIA NELSON

THE DESIGN OF THE COURSE

	strongly agree	Agree	Neutral	Disagree	Strongly Disagree
1 Whether objectives of the course clear to you ?	✓				
2 Does the course content meet to your expectations?	✓				
3 Was the lecture sequence well planned?	✓				
4 Whether the level of the course was satisfactory?	✓				
5 Did the course exposed you to new knowledge and practices?	✓				
6 Will you recommend this course to your classmates?	✓				

CONDUCT OF THE COURSE

1 Was the lecture clear and easy to understand?	✓				
2 Were the teaching aids used effectively ?	✓				
3 Whether the course materials handed over was adequate?		✓			
4 Whether the instructors encouraged interactions and was helpful?	✓				

Are you satisfied with the timing & schedule followed for the course ?

Y N

Any other comments to improve the course :

Please give overall rating for the course (OUT OF 5)

4.5

* We appreciate your help in evaluating this program

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NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronic Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programmes in Civil Engineering valid for the academic years 2019-2022.

DEPARTMENT OF CSE -ADD-ON COURSE SCHEDULE

ADD-ON COURSE	DATE & DAY	HOURS ALLOTTED	VENUE
Programming Pyhon InfyTQ, Full Stack developer – Phase I, Basics of Programming	Wednesday	7th Hour	EAB 106,EAB105,EAB 205

Staff In-Charge
Sobha Xavier P

Total Hours

30

HOD, CSE

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Certificate of Appreciation

This is to certify that...Ms. Amala K S.... has successfully completed an ADD-ON

Course on "Programming Python (InfyTQ)" conducted from22/1/2020.....to

.....25/4/2020. (32 Hrs) with ... A.... Grade

90% (A - 80% (80-90) / B - 70% (70-79) / C - 60% (60-69) / D - Fail

Jyothi Engineering College
Cheruthuruthy
Ph.D (Computer Science)
M.Tech (MCA, M.Sc. In: Phil. (Mass))
Dr. SUNNY JOSEPH
PRINCIPAL

Ms. Sobha Xavier P
COORDINATOR

Dr. Fr. A K George
HOD CSE

Dr. Jaison Paul
PRINCIPAL

Fr. Roy Joseph Vadakkan
CAMPUS HEAD



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NBA Accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering

Department of Computer Science and Engineering Add-On Course - Python Programming

Course Outline

Hour	Topics	COs
1	Installing Python; basic syntax, interactive shell, editing, saving, and running a script.	CO1
2	The concept of data types; variables.	CO1
3	Conditions, Boolean logic, logical operators; ranges	CO1
4	Control statements: if-else, loops (for, while).	CO1
5	String manipulations.	CO2
6	Lists and Tuples.	CO3
7	Dictionaries.	CO3
8	Concept of function. Function calls.	CO2
9	File concepts-Operations.	CO4
10	Classes and OOP: classes, objects, attributes and methods.	CO5
11	OOP continued: inheritance, polymorphism.	CO5
12	Numerical Computations with Python.	CO6
13	Matplotlib Introduction.	CO6
14	Introduction to pyplot.	CO6
15	Python CSV.	CO4, CO6
16	Creating and Viewing HTML Files with Python.	CO6
17	Python MySQL.	CO6
18	Web Development using FLASK framework.	CO6
19	Micro project-1	CO1-CO6
20	Micro project-2	CO1-CO6

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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY AT THE CLUSTERS OF UNIVERSITIES

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Course objectives:


1. Describe the core syntax and semantics of Python programming language.
2. Discover the need for working with the strings and functions.
3. Illustrate the process of structuring the data using lists, dictionaries and tuples
4. Infer the Object-oriented Programming concepts in Python.
5. To handling with data and information processing techniques.
6. To solve problems, explore real-world software development challenges, and create practical applications.

Course Outcomes:

COs	Statements
CO1	Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.
CO2	Express proficiency in the handling of strings and functions.
CO3	Determine the methods to create and manipulate Python programs by utilizing the data structures like lists, dictionaries and Tuples.
CO4	Identify the commonly used operations involving file systems.
CO5	Articulate the Object-Oriented Programming concepts such as encapsulation, inheritance and polymorphism as used in Python.
CO6	Express proficiency in the handling data and information processing techniques and web development

Proposed By:

Bineesh M, AP CSE Dept.
Sobha Xavier P, AP CSE Dept.


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 M.Tech in ...
 Ph.D (Computer Science) PE D (Maths)
 Jyothi Engineering College
 Cheruthuruthy

From

Roshni Rajan K

AP,ECE Dept.

ADD-ON COURSE COORDINATOR

To

The Principal

JECC

Sir,

Sub: Request for conducting meeting for add-on courses.

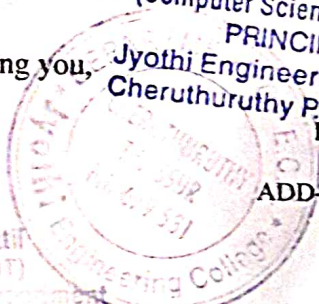
We would like to conduct a meeting on 18/09/2019 with the add-on course registered students and the concerned course coordinators to discuss about the course execution. I kindly request you to grant us permission for the same.

ADD-ON COURSE	STAFF-IN-CHARGE	HOUR & VENUE
WATER QUALITY MANAGEMENT OF DOMESTIC SOURCES	Mr. M G CYRIAC Dr.AGNES ANTO C	6 th Hour ENVIRONMENTAL ALB
INTRODUCTION TO VHDL	Mr.AKHILBALAKRISHNAN Mr.KAPIL DAS	4 th Hour EEE SEMINAR HALL
COMPUTER AIDED DESIGN	Mr.CHRISTY V V Mr.NIKHIL N S	3 rd Hour CAM LAB
IMAGE PROCESSING	Mr. FEPSLIN ATHISH MON	4 th Hour CSE LIBRARY
CCTV INSTALLATION	Ms.SHINY M I Mr.BINOJ V J	3 rd Hour ECE SEMINAR HALL
EMBEDDED SYSTEMS DESIGN WITH 8051	Mr.JINESH K J	3 rd Hour VLSI LAB
WORKSHOP ON 3-D DESIGN & 3-D PRINTING (FABLAB)	Dr. SUNNY JOSEPH KALAYATHANKAL Mr. SHIBU M.Tech, MCA, M.Sc, M.Phil, B.Ed Ph.D (Computer Science), Ph.D (Maths) PRINCIPAL Jyothi Engineering College Cheruthuruthy P.O. - 679 562 ROSHNI RAJAN K	6 th Hour FABLAB

Thanking you,

Forwarded to Principal
[Signature]

Dr. Jore P. Therattil
M.Tech, Ph.D (IIT)
Professor, AP, ECE Department



ADD-ON COURSE COORDINATOR

[Signature]
Approved
P. R. Rahman, P. P. Palakkal



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www.jyoce.ac.in Email: info@jyoce.ac.in

DEPARTMENT OF ECE-ADD ON COURSE

CCTV Installation

Closed-circuit television (CCTV), also known as video surveillance, is the use of video cameras to transmit a signal to a specific place, on a limited set of monitors. In industrial plants, CCTV equipment may be used to observe parts of a process from a central control room, for example when the environment is not suitable for humans. Through this Add on course students will be able to know different types of CCTV system, how to decide which system to use for a specific application, and about its transmission, connections, DVR and networking.

Key Objectives of the Course:

1. To understanding the customer's requirements
2. To installing the camera and CCTV hardware equipment
3. To configure the system for surveillance function
4. Coordinate the work with colleagues and coworkers

Course outcomes:

CO1: Students Will be able to Interact with customer and supervisor and understand customers requirements

CO2: Students Will be able to Procuring CCTV hardware and test before installation

CO3: Students Will be able to Connecting cables and Setting up the camera using tools, Setting CCTV camera and DVR with the system

SYLLABUS

Module I: CCTV Introduction (12 hours)

To understand the import ants of surveillance,

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To study different types of CCTV cameras, monitors and installation tools in brief

To familiar with different lighting conditions

To study about power supplies and different types needed for CCTV

To familiar with Different display system

To understand the site condition

Suggest solution based on the site condition and requirement

Deciding the CCTV system to be installed

To understand about the ambient light setting

Module II: CCTV CAMERA AND LENS (12 hours)

To acquire knowledge about different types of cameras and the latest technologies,

To study about cameras in depth,

To study about sophisticated equipments related with CCTV

Understand different Lenses

Understand the importance of focusing

To procure CCTV hardware

To test hardware before installation

To understand the focusing concept and calibration of camera

Deciding the CCTV system to be installed

Module III: Transmission and Connections (6 hours)

To study different types of cable, switches and other technologies to fulfill the system for Transmission

Understand the concept of splitter, multiplexer and switcher

Understand the wiring schemes

To correct the different problem related to CCTV

Understand the cable laying methods

Understand the connection establishment

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Module IV: DVR and Networking (5 hours)

- To familiar with CCTV recording equipment.
- To understand the networking information schemes
- Understand networking equipments
- Study about IP camera
- To connect CCTV camera and DVR with the system
- Setting up CCTV system
- To check the functioning of CCTV system
- To understand about different DVR related issues

COURSE OUTCOMES VS PO MAPPING:

SLNo	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	3	3	1	1	2	2	2	1	2
CO2	3	2	2	2	2	2	-	2	2	2	2	3
CO3	3	3	2	3	2	1	2	1	1	1	-	2
Avg	2.6	2.4	2.6	2.6	2.2	1.6	1.67	1.8	2	1.8	1.5	2.4

Dr. Jyoti F. Thareani

Professor, Department

C.E.










JYOTHI ADD-ON COURSES

Jyothi Engineering College is offering the following add-on courses for our students:

1. WATER QUALITY MANAGEMENT OF DOMESTIC SOURCES
2. INTRODUCTION TO VHDL
3. COMPUTER AIDED DESIGN
4. INTRODUCTION TO IMAGE PROCESSING USING MATLAB
5. CCTV INSTALLATION
6. EMBEDDED SYSTEMS DESIGN WITH 8051
7. WORKSHOP ON 3-D DESIGN & 3-D PRINTING (FABLAB)

The maximum seats available for each add-on course is 20. Students can log on to the [link courses.jyothiengg.com](http://www.courses.jyothiengg.com) for registration and the course details. Registration will be on first come-first serve basis.

JYOTHI ADD-ON COURSES

			
<p>WATER QUALITY MANAGEMENT OF DOMESTIC SOURCES</p> <p>SUMMARY Semester: 3rd SF Department: EE Department</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. M. S. Jayaraman, EE Department Dr. Agnes Anil, EE Department</p> <p style="text-align: center;">Register</p>	<p>INTRODUCTION TO VHDL</p> <p>SUMMARY Semester: 3rd SF Department: ECE Department</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. Anil Subrahmanyan, EE Department Dr. Raju, EE Department</p> <p style="text-align: center;">Register</p>	<p>COMPUTER AIDED DESIGN</p> <p>SUMMARY Semester: 3rd SF Department: EE</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. Chandu V V, EE Department Dr. Anil, EE Department</p> <p style="text-align: center;">Register</p>	<p>INTRODUCTION TO IMAGE PROCESSING USING MATLAB</p> <p>SUMMARY Semester: 3rd SF Department: EE, CSE</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. Chandu Anil, EE Department Dr. Chandu Anil, EE Department</p> <p style="text-align: center;">Register</p>
			
<p>CCTV INSTALLATION</p> <p>SUMMARY Semester: 3rd SF Department: ECE, EEE, IIR</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. Chandu V V, ECE Department Dr. Anil, ECE Department</p> <p style="text-align: center;">Register</p>	<p>EMBEDDED SYSTEMS DESIGN WITH 8051</p> <p>SUMMARY Semester: 3rd SF Department: ECE, EEE, IIR, CSE</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. Anil, ECE Department Dr. Anil, ECE Department</p> <p style="text-align: center;">Register</p>	<p>WORKSHOP ON 3-D DESIGN & 3-D PRINTING (FABLAB)</p> <p>SUMMARY Semester: 3rd SF Department: EE</p> <p>FEE DETAILS Payment: Rs 500 Refund: Rs 200</p> <p>CONTACT Dr. Chandu V V, EE Department</p> <p style="text-align: center;">Register</p>	

Sunny

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Cheruvuoruthy

Sunny

Dr. J. J. Therattil
Department
College
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CHERUTHURUTHY, TRISSUR - 679 531

DEPARTMENT OF ECE- ADD-ON COURSE SCHEDULE

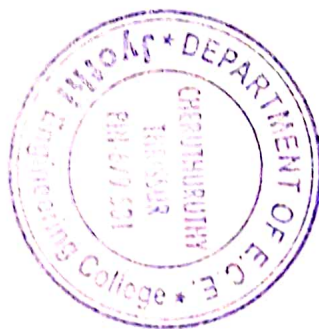
ADD-ON COURSE	DATE & DAY	HOURS ALLOTTED	VENUE
CCTV INSTALLATION	23/09/2019(MONDAY)	6th Hour	MP & MC LAB
	24/09/2019(TUESDAY)	4th Hour	
	26/09/2019(THURSDAY)	7th Hour	
	27/09/2019(FRIDAY)	7th Hour	
	30/09/2019(MONDAY)	5th Hour	
	01/10/2019(TUESDAY)	2nd Hour	
	03/10/2019(THURSDAY)	4th Hour	
	04/10/2019(FRIDAY)	6th Hour	
	05/10/2019(SATURDAY)	1 to 7 Hours	
	10/10/2019(THURSDAY)	7th Hour	
	11/10/2019(FRIDAY)	7th Hour	
	19/10/2019(SATURDAY)	1 to 7 Hours	
	26/10/2019(SATURDAY)	1 to 7 Hours	

Total Hours

31

Staff In-Charge

Shri M.I



J. Joseph
HOD, ECE

Dr. Jose P. Therattil
M.Tech, Ph.D. (NIT)
Professor & HOD, ECE Department
Jyothi Engineering College
Cheruthuruthy, Trissur - 679 531

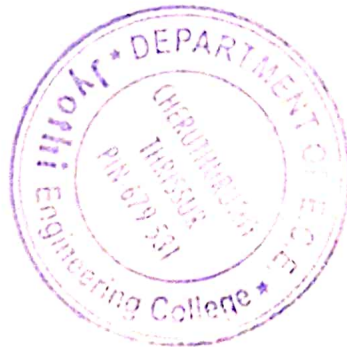
Sunny Joseph
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Cheruthuruthy P.O.- 679 531

DEPARTMENT OF ECE-ADD-ON COURSE-Registration List

CCTV INSTALLATION

Sl No	Register Number	Name	Semester	Department
1	JEC16EE003	AKHIL JAMES K	S7	Electrical and Electronics Engineering
2	JEC16EE009	ALWIN STEPHEN	S7	Electrical and Electronics Engineering
3	JEC16EE015	ARJUN S	S7	Electrical and Electronics Engineering
4	JEC16EE021	DHEERAJ K J	S7	Electrical and Electronics Engineering
5	JEC16EE032	JERIN M S	S7	Electrical and Electronics Engineering
6	JEC16EE038	JOSEPH P K	S7	Electrical and Electronics Engineering
7	JEC17EE017	BENHUR K BABU	S5	Electrical and Electronics Engineering
8	JEC17EE018	DHEERAJ P M	S5	Electrical and Electronics Engineering
9	JEC17EE025	K U MANSOOR	S5	Electrical and Electronics Engineering
10	JEC17MC008	ALPHIN FRANCIS	S5	Mechatronics Engineering
11	JEC17MC009	ALWIN THOMAS PAUL	S5	Mechatronics Engineering
12	JEC17MC010	AMAL M PAULY	S5	Mechatronics Engineering
13	JEC17MC017	ELWIN SHAJU	S5	Mechatronics Engineering
14	JEC17MC020	HAMRAS MOHAMMED	S5	Mechatronics Engineering
15	JEC17MC029	ROHITH T S	S5	Mechatronics Engineering
16	JEC17MC030	SAISANKAR	S5	Mechatronics Engineering
17	JEC17MC038	SREEKANTH M P	S5	Mechatronics Engineering
18	JEC17MC039	SREERAJ M	S5	Mechatronics Engineering
19	JEC18MC013	BASITH ALI	S3	Mechatronics Engineering
20	JEC18MC015	EDWIN K BABU	S3	Mechatronics Engineering
21	JEC18MC016	EVIN B THAIKKATTIL	S3	Mechatronics Engineering
22	JEC18MC030	NOEL SAJAN	S3	Mechatronics Engineering
23	JEC18MC031	RAHUL K. A	S3	Mechatronics Engineering
24	JEC18MC035	SIJO JOSE	S3	Mechatronics Engineering
25	JEC18MC039	THOMSON DAVIS	S3	Mechatronics Engineering

TOTAL REGISTERED STUDENTS : 25



Jose P. Therattil

Dr. Jose P. Therattil
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Professor & HOD, ECE Department
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Cheruthuruthy, Thrissur - 679 531

Sunny Joseph Kalayathankal
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Jyothi Engineering College
Cheruthuruthy, Thrissur - 679 531

DEPARTMENT OF ECE-ADD-ON COURSE-Attendance List
COURSE NAME: CCTV INSTALLATION

Sl No.	Register Number	Name	Signature													
			Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	
1	JEC18EE003	ANKIL JAMES K	A	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
2	JEC18EE009	ALVIN STEPHEN	✓	A	A	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
3	JEC18EE015	ARJUN S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	JEC18EE021	DHEERAJ K J	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	JEC18EE032	JERIN M S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	JEC18EE038	JOSEPH P K	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	JEC17EE017	BENHUR K BARU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	JEC17EE018	DHEERAJ P M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	JEC17EE025	K U MANSOOR	✓	A	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	JEC17MC008	ALPHIN FRANCIS	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	JEC17MC009	ALVIN THOMAS PAUL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	JEC17MC010	AMAL M PAULY	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
13	JEC17MC017	ELWIN SHAJU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14	JEC17MC020	HAMRAS MOHAMMED	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15	JEC17MC029	ROHITH S	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
16	JEC17MC030	SAISANKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17	JEC17MC035	SREEKANTH M P	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18	JEC17MC039	SREERAJ M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
19	JEC18MC013	BASITH ALI	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
20	JEC18MC015	EDWIN K BABU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
21	JEC18MC016	EVIN B THAIKATTIL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
22	JEC18MC030	NOEL SAJAN	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
23	JEC18MC031	RAHUL K. A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
24	JEC18MC035	SJO JOSE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25	JEC18MC039	THOMSON DAVIS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

TOTAL REGISTERED STUDENTS : 25

Staff In-Charge

Joseph

Dr. Jose P. Therattil
M.Tech., Ph.D. (NIT)
Professor & HOD, ECE Department
Jyothi Engineering College,
Cheruthuruthy, Thrissur - 679 531



Prin

Dr. SUNNY JOSEPH KALAYATHANKAL
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Jyothi Engineering College
Cheruthuruthy P.O. - 679 531

Mr. Rajan K

1001/2020

1001/2020

1001/2020

1001/2020

Respected Sir,

The add-on- course for this academic year is scheduled from 18th January 2020 to 22nd Feb 2020. As per the instruction from the principal and management, every Saturday will be utilized for the same.

I kindly request you grant us the permission for conducting the add-on-courses.

Thanking you.

Yours faithfully

[Signature]

Roshni Rajan K

1001/2020

1001/2020

[Signature]
THE U. PAF
LECT
ENGINEERING COLLEGE
CHERUTHURUTHY, TRUSSUR - 679 531

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Approval

[Signature]
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[Signature]
Professor Club Coordinator



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DEPARTMENT OF EEE - ADD-ON COURSE SCHEDULE

ADD-ON COURSE	DATE & DAY	HOURS ALLOTTED	VENUE
Introduction to VHDL	18-01-2020(SATURDAY)	1 to 7th Hour	System Simulation Lab EEESeminar Hall
	25-01-2020(SATURDAY)	1 to 7th Hour	
	01-02-2020(SATURDAY)	1 to 7th Hour	
	15-02-2020(SATURDAY)	1 to 7th Hour	
	22-02-2020(SATURDAY)	1 to 7th Hour	

Total Hours

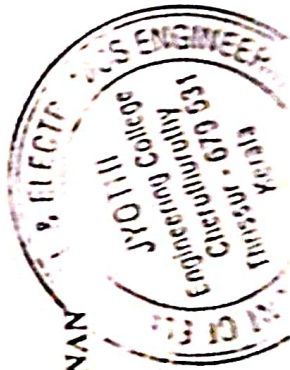
35

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Staff In-Charge

Dr. SUNNY DAS, M. Tech, MCA, M. Sc. M. Phil, Ph.D
Ph.D (Computer Science), Ph.D (Maths)MR. KARTHICK, MR. AKINATHAN, MR. KRISHNAN

Dr. SEPH KALANATHANKAL
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(Signature)

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Principal



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DEPARTMENT OF ECE-ADD ON COURSE

INTRODUCTION TO VHDL

Eligible for: CSE,ECE,EEE (S4 or higher semester STUDENTS)

This course will provide you with an overview of the VHDL language and its use in logic design. By this course, you will understand the basic parts of VHDL structure and its usage and basic VHDL Constructs Used in the Simulation. You will also be able to build simple digital Logic Structures for specific purpose and connect entire models together to create hierarchical Designs.

Course Objective

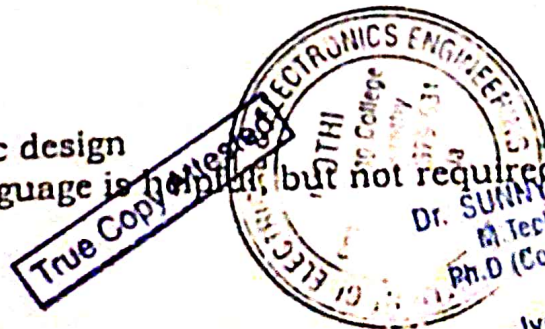
To familiarise the integration of industry standard hardware description language VHDL into the digital design process

Course Outcome

1. You will be able to write VHDL code for simple digital hardware designs
2. You will be able to design and implement various combinational and sequential digital circuits using different styles of modelling of VHDL.
3. You will be able to simulate and validate a digital design/logic using VHDL with the help of ModelSim/ Xilinx Software

Skills Required

1. Background in digital logic design
2. Prior knowledge of "C" language is helpful, but not required



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SYLLABUS

Introduction

(2 Hours)

About VHDL- VHDL Versions-Design Flow- EDA Tools-Translation of VHDL code into a Circuit-Circuit Simulation- VHDL Syntax-Number and Character Representations in VHDL

Code Structure

(6 Hours)

Fundamental VHDL Units- VHDL Libraries and Packages-Library/Package Declarations- ENTITY- ARCHITECTURE- GENERIC -Coding Guidelines

Data Types

(6 Hours)

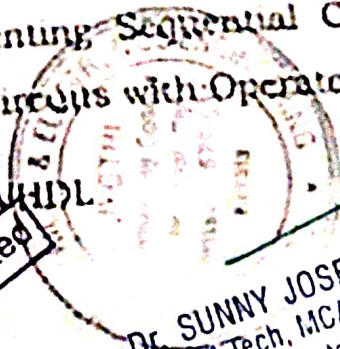
Introduction- VHDL Objects-Data-Type Libraries and Packages -Type Classifications-Standard Data Types-Standard-Logic Data Types-Unsigned and Signed Data Types-Fixed- and Floating-Point Types-Predefined Data Types Summary- User-Defined Scalar Types-User-Defined Array Types-Subtypes - Type Conversion-Legal versus Illegal Assignments

(8 Hours)

Concurrent Code

Introduction -Using Operators-The WHEN Statement-The SELECT Statement- The GENERATE Statement-Implementing Sequential Circuits with Concurrent Code-Implementing Arithmetic Circuits with Operators
Implementation of Combinational Circuits using VHDL

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Sequential Code

(8 Hours)

Introduction- PROCESS -The IF Statement -The WAIT Statement- The LOOP Statement - The CASE Statement -Implementing Combinational Circuits with Sequential Code-SIGNAL and VARIABLE

Implementation of sequential Circuits using VHDL

Synchronous Sequential Design (10 Hours)

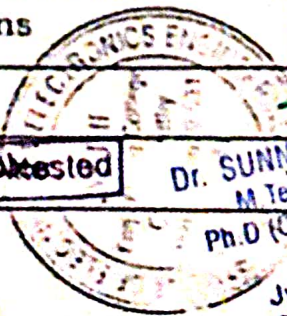
Synchronous Sequential Systems , Models of Synchronous Sequential Systems, Algorithmic State Machines ,Synthesis from ASM chart , State Machines in VHDL

Reference: Volnei A. Pedroni "Circuit Design and Simulation with VHDL",second edition, The MIT press

COURSE PLAN (30 HOURS MANDATORY)

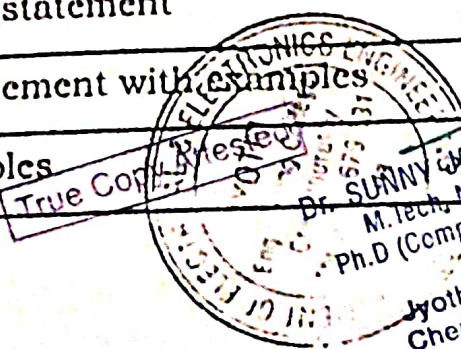
Sl. No.	Topics to be covered	Planned Date & Hour
1	About VHDL- VHDL Versions-Design Flow- EDA Tools-Translation of VHDL Code into a Circuit	1
2	-Circuit Simulation- VHDL Syntax-Number and Character Representations in VHDL	2
3	Fundamental VHDL Units- VHDL Libraries and Packages-Library/Package Declarations	3
4	Entity	
5	Architecture and its types	


The Copy Requested



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6	Architecture and its types with examples	6
7	Architecture and its types with examples	7
8	GENERIC -Coding Guidelines	8
9	VHDL Objects-Data-Type Libraries and Packages	9
10	Type Classifications-Standard Data Types	10
11	Standard-Logic Data Types-Unsigned and Signed Data Types-Fixed- and Floating-Point Types-Predefined Data Types Summary	11
12	User-Defined Scalar Types-User-Defined Array Types	12
13	Subtypes, Type Conversion	13
14	Legal versus Illegal Assignments with examples	14
15	Concurrent code	15
16	Using Operators-The WHEN Statement-The SELECT Statement with examples	16
17	Using Operators-The WHEN Statement-The SELECT Statement with examples	17
18	The GENERATE Statement with examples	18
19	The GENERATE Statement with examples	19
20	VHDL Code for Combinational Circuits	20
21	VHDL Code for Combinational Circuits	21
22	VHDL Code for Combinational Circuits	22
23	Sequential Code: PROCESS statement	23
24	IF Statement -The WAIT Statement with examples	
25	CASE Statement with examples	




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1	The LOOP Statement with examples	26
2	Implementation of sequential Circuits using VHDL	27
3	Implementation of sequential Circuits using VHDL	28
9	Implementation of sequential Circuits using VHDL	28
0	Implementing Combinational Circuits with Sequential Code	30
1	Synchronous Sequential Systems , Models of Synchronous Sequential Systems	31
2	Algorithmic State Machines	32
3	Algorithmic State Machines with examples	33
4	Algorithmic State Machines with examples	34
5	Synthesis from ASM chart	35
6	Synthesis from ASM chart with examples	36
7	State Machines in VHDL	37
8	State Machines in VHDL with examples	38
9	State Machines in VHDL with examples	39
40	State Machines in VHDL with examples	40

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SKILL OUTCOMES VS PO MAPPING:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
S1	1		1									
S2	1	1	2									
S3	1				2							1
S4												
S5	1	1	1		1							1



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DEPARTMENT OF EEE-ADD-ON COURSE-Registration List

Introduction to VHDL

Sl No:	Register Number	Name	Semester	Department
1	JEC17EE025	K U MANSOOR	S6	Electrical and Electronics Engineering
2	JEC17EE023	KAPILDEV M K	S6	Electrical and Electronics Engineering
3	JEC17EE024	KIRANRAJ L R	S6	Electrical and Electronics Engineering
4	JEC17EE026	KUNNATH RAHUL	S6	Electrical and Electronics Engineering
5	JEC17EE027	LIJO BYJU	S6	Electrical and Electronics Engineering
	JEC17EE028	MANEESH M	S6	Electrical and Electronics Engineering
	JEC17EE029	MEGHA MOHANDAS	S6	Electrical and Electronics Engineering
	JEC17EE030	NAVEEN TO	S6	Electrical and Electronics Engineering
	JEC17EE022	JYOTHI LAKSHMIS.	S6	Electrical and Electronics Engineering

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11	JEC17EE042	SVETUA E. J.	S6	Electrical and Electronics Engineering
12	JEC17EE015	ARTHANA P.	S6	Electrical and Electronics Engineering
13	JEC17EE019	HENSA MERIN BABU	S6	Electrical and Electronics Engineering
14	JEC18EE001	ABHINANDH V B	S4	Electrical and Electronics Engineering
15	JEC18EE002	AJAY MJ	S4	Electrical and Electronics Engineering
16	JEC18EE003	AJIL GEORGE	S4	Electrical and Electronics Engineering
17	JEC18EE004	AKHIL GILBERT	S4	Electrical and Electronics Engineering
18	JEC18EE005	AKSHAY P	S4	Electrical and Electronics Engineering
19	JEC18EE006	ALBIN LORANCE	S4	Electrical and Electronics Engineering
20	JEC18EE007	ANFAZ M A	S4	Electrical and Electronics Engineering
	JEC18EE008	ANLEYA ANTO	S4	Electrical and Electronics Engineering
	JEC18EE021	PARVATHY.V.P	S4	Electrical and Electronics Engineering
	JEC18EE014	JACKSON PAUL	S4	Electrical and Electronics Engineering
	JEC18EE002	AJAY M J	S4	Electrical and Electronics Engineering

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18/07/2018

Dr. SUNNY JOSHI
Ph.D (Computer Science)
MCA, M.Tech, M.Sc
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25	JEC18EE019	LIA JOHNSON	S4	Electrical and Electronics Engineering
26	JEC18EE009	ARJUN M	S4	Electrical and Electronics Engineering
27	JEC16EC068	POOJA P	S4	Electronics and Communication Engineering
28	JEC18EC025	P K SARATH SANKAR	S4	Electronics and Communication Engineering
29	JEC18EC041	SNEHA A B	S4	Electronics and Communication Engineering
30	JEC18EC044	YADU ARAVIND	S4	Electronics and Communication Engineering

TOTAL REGISTERED STUDENTS :

[Handwritten Signature]
 DR. JOSEPH J. KALAYATHANKAL
 PRINCIPAL
 JYOTHI ENGINEERING COLLEGE
 CHERUTHURUTHY, TRISSUR - 679 531

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DEPARTMENT OF ELECTRONICS ENGINEERING
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MEMORANDUM FOR THE ATTENDING FACULTY Attendance List

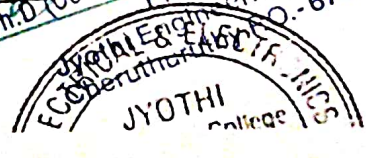
Introduction to A1111

Register Number	Name	Mon	Tue	Wed	Thu	Fri	Sat	Sun	10	11	12	13
EC11E001	ATANASSOS	X	X	X	X	X	X	X	X	X	X	X
EC11E002	AMITESH AKA	X	X	X	X	X	X	X	X	X	X	X
EC11E003	ANANKEATH R	X	X	X	X	X	X	X	X	X	X	X
EC11E004	ANANTHARAJU	X	X	X	X	X	X	X	X	X	X	X
EC11E005	ANSHU	X	X	X	X	X	X	X	X	X	X	X
EC11E006	ANUSHAM	X	X	X	X	X	X	X	X	X	X	X
EC11E007	ANURAG ANANTHAN	X	X	X	X	X	X	X	X	X	X	X
EC11E008	ANVITA C	X	X	X	X	X	X	X	X	X	X	X
EC11E009	ANURAG AKSHAY	X	X	X	X	X	X	X	X	X	X	X
EC11E010	ANURAG	X	X	X	X	X	X	X	X	X	X	X
EC11E011	ANUSHA MERIN RABU	X	X	X	X	X	X	X	X	X	X	X
EC11E012	ARJUN ANAND V B	X	X	X	X	X	X	X	X	X	X	X
EC11E013	ARJUN	X	X	X	X	X	X	X	X	X	X	X
EC11E014	ARI GEORGE	X	X	X	X	X	X	X	X	X	X	X
EC11E015	ARJUN GILBERT	X	X	X	X	X	X	X	X	X	X	X
EC11E016	AKSHAY P	X	X	X	X	X	X	X	X	X	X	X
EC11E017	ALVIN LORANCE	X	X	X	X	X	X	X	X	X	X	X
EC11E018	ANFAZ M A	X	X	X	X	X	X	X	X	X	X	X
EC11E019	ANLEYA ANTO	X	X	X	X	X	X	X	X	X	X	X
EC11E020	PARVATHY V P	a	a	a	a	a	a	a	X	X	X	X
EC11E021	JACKSON PAUL	X	X	X	X	X	X	X	X	X	X	X
EC11E022	AJAY M J	X	X	X	X	X	X	X	X	X	X	X
EC11E023	ILIA JOHNSON	X	X	X	X	X	X	X	X	X	X	X
EC11E024	ARJUN M	X	X	X	X	X	X	X	X	X	X	X
EC11E025	POOJA P	X	X	X	X	X	X	X	X	X	X	X
EC11E026	P K SARATH SANKAR	X	X	X	X	X	X	X	X	X	X	X
EC11E027	SNEHA A B	X	X	X	X	X	X	X	X	X	X	X
EC11E028	YADU ARAVIND	X	X	X	X	X	X	X	X	X	X	X

TOTAL REGISTERED STUDENTS : 30

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Cheruthuruthy P.O.-679 531



ADD-ON COURSE FEEDBACK FORM

Topic Title: Introduction to VHDL

Participant's Name (optional): Arbaz M.A

THE DESIGN OF THE COURSE		strongly agree	Agree	Neutral	Disagree	Strongly Disagree
1	Whether objectives of the course clear to you ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
2	Does the course content meet to your expectations?	<input checked="" type="checkbox"/>				
3	Was the lecture sequence well planned?		<input checked="" type="checkbox"/>			
4	Whether the level of the course was satisfactory?					
5	Did the course exposed you to new knowledge and practices?	<input checked="" type="checkbox"/>				
6	Will you recommend this course to your classmates?	<input checked="" type="checkbox"/>				
CONDUCT OF THE COURSE						
1	Was the lecture clear and easy to understand?		<input checked="" type="checkbox"/>			
2	Were the teaching aids used effectively ?	<input checked="" type="checkbox"/>				
3	Whether the course materials handed over was adequate?	<input checked="" type="checkbox"/>				
4	Whether the instructors encouraged interactions and was helpful?		<input checked="" type="checkbox"/>			

Are you satisfied with the timing & schedule followed for the course ?

Y N

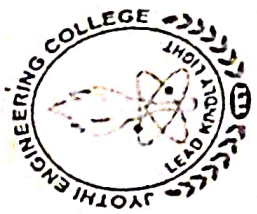
Any other comments to improve the course

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Please give overall rating for the course (OUT OF 5)

'We appreciate your help in evaluating this program'

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Certificate of Appreciation

This is to certify that.....**H.E.N.S.A.MERIN...BABU**.....has successfully completed an ADD-ON Course on "Introduction to VHDL" conducted from 18/01/20 to

22/01/20 (35 Hrs) with Grade

99-1100-90) / A - 80% (89-80) / B - 70% (79-70) / C - 60% (69-60) / D - Fail

Dr. SUNNY JOSE
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HOD EE

Dr. Janin T. MBA, MSW, ME, PhD
HEAD OF THE DEPARTMENT
ELECTRICAL & ELECTRONICS ENGG.
JYOTHI ENGINEERING COLLEGE
CHERUTHURUTHY, THRISSUR - 679 531

PRINCIPAL

COORDINATOR

From

Christy V Vazhappilly
Assistant professor/ME
JECC

Cheruthuruthy
8th Mar. 2016

Submitted

Association of Mechanical Engineering Students (AMES) and SAEINDIA collegiate club of Jyothi Engineering Collegiate, Cheruthuruthy is interested to organize an Add on Course on Solid Works Training during 4.35pm to 5.35pm on regular working days from 15th March to 29th April 2016. Course details along with schedule of the programme are attached herewith. I humbly request you to grant permission for the same

Thanking You

Yours faithfully

Christy V Vazhappilly
SAEINDIA -Staff Advisor

Indra to AA

This may be permitted
for the schedule. Course
fee split up seems to
be reasonable

Prof. Varughese Job K
SAEINDIA -Staff Advisor

AMES (M.A.S. Kumar student charge)
AMES

J.K.
09/03/16 HOD ME

||
.. 9/3

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Approval may be given.

J.K.
9/3/16

AMES
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PRINCIPAL
Jyothi Engineering College
Cheruthuruthy P.O. - 679 531

Approved -
Discussed with Mr Christy. Cost sharing is
changed as 30% to SAE India & 10% to College.
No change in remaining items.
AK
9/3/16

J.K.



Jyothi Engineering College

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ORDER

Sub S4 ME - ADD ON Training Programme on SolidWorks
Ref Proposal dt 08 03 2016 submitted by Mechanical Engineering Department

The Mechanical Engineering Department has submitted a proposal to conduct ADD ON Training Programme on SolidWorks jointly with Association of the Mechanical Engineers, students and SAEINDIA Collegiate Club

The programme is very useful to the students and outside agencies charge Rs. 30,000/- per student. The college has facilities for this training and a team of faculty members have come forward to conduct this programme on a nominal fees of Rs. 1000/- for SAEINDIA Collegiate members and Rs. 2500/- for Non-SAE members.

Since this is a very advantageous proposal for the students it has been decided to grant permission for conducting the ADD ON Course by the Mechanical Engineering Department with co-sponsorship of AMES & SAEINDIA Collegiate club. The details of the course are appended as Annexure

The fee may be collected in the Department by the SAEINDIA Collegiate Club and accounted in their account. The shares to different stake holders including the college will be disbursed under proper acknowledgement. Prof. Varughese Job, K. S. Staff College, is entrusted with the proper accounting of the Fees & Expenditure & Auditing of the Accounts.

The Resource Person shall be responsible for closing the Lab and handing over the keys to the Office Attenders

End Annexure

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P. R. Varughese
Assistant Manager (Admin & Accounts)

To: The Principal

- 1. The Head, ME Department
- 2. Prof. Varughese Job, K. S. Staff College
- 3. Prof. Vinny V. Vazhangal, Programme Co-ordinator
- 4. Prof. Manoj Kumar, Programme Co-ordinator
- 5. Prof. Lippin Pady, Resource person
- 6. The Assistant Manager (Finance)
- 7. The Administrator
- 8. The Asst. Administrator

Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cherthalur P.O - 679 531



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JYOTHIBHARATHIPATTUR P.O. CHERUTHURUTHY TRICHUR DIST. PIN - 676 531
WWW.JYOTHIENG.CE

COURSE FEE UTILIZATION

Faculty- (Resource person)	40%
SAEINDIA Collegiate Club	30%
Department of Mechanical Engineering AMES	15%
Jyothi Engineering College	10%
Course certificates, material etc.	5%

Resource Person: Mr.Lippin Pauly
Assistant Professor/ME
Mr.Christy V.Vazhappilly
Assistant Professor/ME

Program Coordinators

SAEINDIA Collegiate Club Staff Advisor	Prof.Varughese Job K Professor/ME
	Mr.Christy V.Vazhappilly Assistant Professor/ME
AMES Staff Advisor	Mr.Manoj Kumar V K Assistant Professor/ME

Fr. Roy J Vadakkan
Assistant Manager (Admin & Academics)

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Jyothi Engineering College

ADD ON COURSE – SHEET METAL DESIGNING

Organized by

**DEPARTMENT OF MECHANICAL ENGINEERING
(AMES)**



SHEET METAL DESIGN USING SOLIDWORKS

OVERVIEW:

SolidWorks is a 2D/3D CAD software tool that transports all tasks involved in product development into the visual and electronic 3D world for better collaboration. With its intuitive interface, and a wide range of specialized and compatible products to support all design and engineering functions, SolidWorks promises

- Shortened design cycle
- Increased productivity of engineers and designers
- Faster delivery of innovative products

WHY SHOULD YOU LEARN?

3D modeling is being preferred not only by customers, but also by engineers and designers because they offer many advantages over the traditional 2D design. So, you need to learn 3D CAD, and SolidWorks is one of the widely used 3D CAD tools in the industry.

SolidWorks can help you convert your ideas into product designs quickly, and effectively. Even without having any prior experience in animation, you as an engineer or designer can produce an animated movie of your 3D product design almost instantly. This will help you communicate your product ideas better to a non-technical person.

SolidWorks comes with libraries of over one million pre-built or pre-designed components, so you don't have to re-design industry standard components - like screws, nuts, bearings, etc. SolidWorks is focusing on growing a community of designers/engineers who are actively publishing their drawings online. There are millions of 3D drawings available for you to use or get inspirations.

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Dr. SUNNY JOSEPH KALAYATHAN
 M. Tech. MCA. M. Ed. M. Eng. & I.T.
 Ph.D. (Computer Science) - IIT Madras
 Assistant Professor, Jyothi Engineering College
 Chennai - 600 096



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SAEINDIA COLLEGE ASSOCIATION OF INDIAN ENGINEERS (SAEINDIA) - A SOCIETY OF ENGINEERS

COURSE OBJECTIVES:

We help you master the following capabilities of SolidWorks

- **Sheet Metal Design:** Design of Sheet Metal Parts
- **CAD Animation:** How to create a 3D, animated movie of your product design
- **Product Data Management:** How to keep, reuse, repurpose all design data in a secure way
- **Part and Assembly:** How to design parts and assemblies of parts
- **Tolerance Analysis:** How to analyze the tolerance levels of each individual part separately as well as all that of parts when functioning collectively
- **CAD Library:** How to increase productivity by making use of CAD library
- **Interference Check:** How to check the way all parts fit among themselves, and operate as intended
- **Drafting:** How to prepare a General assembly drawing and detailed drawing sheet

COURSE OUTCOME:

- You will quickly design product concepts because you can use scanned 3D data, imported images, or simple sketches to demonstrate the initial concept
- You will create an electronic workflow that will cover all tasks right from conception of design, to prototyping to testing for the manufacturability of your design
- You will keep all your design data and design intellectual property in multiple file formats and manage them in a safe, centralized place. You can let your team collaborate with you at any stage of product development
- You will be a productive, innovative, and communicative designer/engineer, with an ability to work with people spanning different disciplines

TRAINING PROGRAMME DETAILS:

Course Name	SHEET METAL DESIGN USING SOLIDWORKS
Training Duration	30 hours
Training Location	CAD LAB Department of Mechanical Engineering Jyothi Engineering College
Timings	4.35 pm - 5.35 pm (Monday, Tuesday, Wednesday, Thursday)
Course fee	Rs 1500/- (SAEINDIA Collegiate Club members) Rs 2500/- (Non-SAEINDIA Collegiate Club members)
Last date for apply	11 th March 2016
Commencement of training from	16 th March 2016
Batch Size	Maximum 30 students
Selection criteria	First come first serve

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Dr. SURESH K. S. (HOD) TRAINING
At Jyothi Engineering College
Mechanical Engineering Department
Jyothi Engineering College
Channarayana P.O., 576 201



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UNIVERSITY OF APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
www.jyothi.ac.in

Resource Person: Mr.Lippin Pauly
Assistant Professor/ME
Mr.Christy V.Vazhappilly
Assistant Professor/ME

Program Coordinators	
SAEINDIA Collegiate Club Staff Advisor	Prof.Varughese Job K Professor/ME
	Mr.Christy V.Vazhappilly Assistant Professor/ME
AMES Staff Advisor	Mr.Manoj Kumar V K Assistant Professor/ME

Prof. K.C.John
Head of the department
Department of Mechanical Engineering



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ADD ON COURSE – MODELING SOFTWARE

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

(AMES)

&

SAEINDIA

SAEINDIA COLLEGE FOR ENGINEERING STUDENTS

TRAINING ON SOLIDWORKS

Resource Person: Mr.Lippin Pauly
Assistant Professor/ME
Mr.Christy V.Vazhappilly
Assistant Professor/ME

Program Coordinators	
SAEINDIA Collegiate Club Staff Advisor	Prof.Varughese Job K Professor/ME Mr.Christy V.Vazhappilly Assistant Professor/ME
AMES Staff Advisor	Mr.Manoj Kumar V K Assistant Professor/ME

S.No	Name of the student	Sem./Dept.	SAE Member	Signature
1	VARON MENON NALLUR	S6 /ME	YES	
2	NIKHIL CHACKO	S6 /ME-A	YES	
3	DINAY K.P	S6 /ME-A	Yes	
4	ARAVIND.M.S	S6 /ME-A	Yes	
5	FRANCO R.CHIRANLI	S6 /ME-A	Yes	
6	Mr Joseph	S6 /ME A	No	
7	ANEESH.K.	S6 /ME A	NO	
8	GEO JOHN	S6 /ME A	NO	
9	Jerin Joseph John	S6 /ME .A	NO	



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From

Dr. SUNNY JOSEPH KAYATHANKAL
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Ph.D (Computer Science), Ph.D (Maths)
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Jyothi Engineering College
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 www.jecce.ac.in | E-mail: info@jecce.ac.in

S.No	Name of the student	Sem./Dept.	SAE Member	Signature
10	RIZWAN	SG ME-B	✓	
11	SACHIN MP	SG ME-B	✓	
12	Joseph Charles	SG ME-B	✓	
13	JOMIN JOHNSON	SG ME-B	✓	
14	JOSE P KURIAN	SG ME-B	✓	
15	STAN THOMAS	SG ME-B	✓	
16	LLOYD LAWRENCE	SG ME-B	✓	
17	AKSHAYKUMAR-KIT	SG ME-A	✓	
18	MEBIN BABU P	SG ME-B	✓	
19	VASYAN K.S	SG ME-B	✓	
20	SHAM JOSEPH SHAMMY	SG ME-B	✓	
21	NITIN NAIR	SG ME-B	✓	
22	LINUS.C.LAWRANCE	SG ME-B	✓	
23	ALBERT V.X	SG MEA	No	
24	KRISHNAPRASADTS	SG MEB	✓	
25	JAISON ELIAS	SG MEB	No	
26	BINIO SEBASTIAN.T	SG MEA	No	
27	Remith MK	SG MEB	Yes	
28	Nibin F Bennan	SG MEB	No	
29	VIGIL ROYV	SG MEB	YES	
30	RAMAKRISHNANCP	SG MEIS	Yes	

10 AKSHAY MADHAV SG ME - A YES



Dr. Sunny Joseph
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Course Material - Issuing Register

No.	Name	R.No.	Sam/Dept	Dated Sign.
1	Sam Thomas	108	SG ME	<i>[Signature]</i> 21/3/16
2	Joseph Charles	78	SG ME	<i>[Signature]</i> 21/3/16
3	NITIN NAIR	95	SG ME	<i>[Signature]</i> 21/3/16
4	Jerin Joseph John	64	SG ME A	<i>[Signature]</i> 21/3/16
5	ANEESH.K.	17	SG ME.1	<i>[Signature]</i> 21/3/16
6	Ajn Joseph	05	SG ME A	<i>[Signature]</i> 21/3/16
7	Albert vx	12	SG ME A	<i>[Signature]</i> 21/3/16
8	JAISON ELIAS	59	SG ME A	<i>[Signature]</i> 21/3/16
9	BINTO SEBASTIAN.T	32	SG ME A	<i>[Signature]</i> 21/3/16
10	Arshay Kumar. K. 7	08	SG ME A	<i>[Signature]</i> 21-3-16
11	JOMIN JOHNSON.	77	SG ME B	<i>[Signature]</i> 21-3-16
12	JOSE P KURIAN	79	SG ME B	<i>[Signature]</i> 21-3-16
13	DINAY K.P	42	SG ME A	<i>[Signature]</i> 21-3-16
14	LLOYD LAWRENCE	85	SG ME B	<i>[Signature]</i> 21/3/16
15	ARAVIND.M.S	22	SG ME-A	<i>[Signature]</i> 21/3/16
16	LINUS.C.LAWRANCE	84	SG ME-B	<i>[Signature]</i> 21/3/16
17	REMITH-MK	99	SG ME-B	<i>[Signature]</i> 21/3/16
18	NIBIN F BENNIAN	92	SG ME B	<i>[Signature]</i> 21/3/16
19	FRANCO R CHIRAMEL	50	SG ME B	<i>[Signature]</i> 21/03/16
20	VARUN MENON	117.	SG ME-B	<i>[Signature]</i> 21/3/16
21	SACHIN.M.P	105	SG ME-B	<i>[Signature]</i> 21/3/16
22	KRISHNAPRASAD.T.S	82	SG ME B	<i>[Signature]</i> 21/3/16
23	GEO JOHN	52	SG ME.A	<i>[Signature]</i> 21/3/16
24	VIGIL ROY V	119	SG ME B	<i>[Signature]</i> 30/3/16
25	RAMAKRISHNAN C.P	98	SG ME-B	<i>[Signature]</i> 30/3/16
26	AKSHAY MADHU	09	SG ME-A	<i>[Signature]</i> 31/4/16
27				
28				
29				
30				

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[Signature]
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JRW

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1st year of course
Practicals

Sr No	Name	System No	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
1	SPM	CA004												
2	SACHIN R P	CA004												
3		CA001												
4		CA001												
5		CA001												
6		CA007												
7		CA007												
8		CA009												
9		CA004												
10		CA005												
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29		CA006												
30		CA006												

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DR. SUNIL K. JOSHI, M.A., M.Tech., Ph.D. (MATHS)
 PRINCIPAL
 Jyothi Engineering College
 Cheruthuruthy P.O.-679 531



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DEPARTMENT OF MECHANICAL ENGINEERING



Certificate

This is certify that
..... has successfully completed a short term course on "SHEET METAL DESIGN USING SOLIDWORKS" conducted from 16.03.2016 to 14.10.2016 (40 Hrs) with Grade

- S 90% - 100-90
- A 80% - 89-80
- B 70% - 79-70
- C 60% - 69-60
- D Fail

Mr.Christy V Vazhappilly
Co-cordinator

Prof.Varughese Job K
Hod ME Dept.

Fr.Roy Joseph Vadakkan
Asst.Manager (A&A)

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Arund
Dr. K.K Babu
Dr. SUNNY JOSEPH PHILIP
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy P.O. - 679531

From

Soumya C

AP ,MR Dept.

Add-On-Course in Charge

To

Principal

JECC

Sub : Request to get sanction to conduct add-on course

Respected Sir,

The add-on- course in Android With MIT App Inventor for this academic year is scheduled from 8thSep 2018 to 20th Oct 2018. The Resource person for the course is Mr. Jinesh K J .As per the instruction from the principal and management, every Saturday will be utilized for the same.

I kindly request you grant us the permission for conducting the add-on-courses.

Thanking you,

Yours faithfully

01/09/2018

Cheruthuruthy

Soumya
Soumya C

Sunny
Dr. SUNNY JOSEPH KALAYATHANKAL
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Prof. Rahman. P
[Signature]



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DEPARTMENT OF MR-ADD ON COURSE

Android with MIT App Inventor

Eligibility

MR,ECE, EEE

Course Objective

The course will give students hands-on experience in developing interesting Android applications. No previous experience in programming is needed, and the course is suitable for students with any level of computing experience. MIT App Inventor will be used in the course. It is a blocks-based programming tool that allows everyone, even novices, to start programming and build fully functional apps for Android devices.

Course Objective

- To familiarize the android development using MIT app inventor
- To familiarize the app building and publishing procedure w

Course Outcome

- CO1: Student will be able to design simple android apps
CO2: Student will be able to test apps using their own mobile phone
CO3: Student will be able to manage data base with android apps

Syllabus

Introduction of MIT App Inventor

Programming Basics & Dialog

Alarm Clock Application

Audio & Video

Web Browsing

Data Base

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COURSE OUTCOMES VS PO MAPPING:

Sl.No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	3	3	3	1	1	2	1	1	1	3
CO2	3	2	3	3	2	2	2	1	1	2	2	3
CO3	3	3	3	2	2	1	1	1	1	1	2	3
Avg	3	2.4	3	2.6	2.2	1.6	1.3	1.3	1	1.3	1.6	3

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 Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016 to 2022
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DEPARTMENT OF MR-ADD-ON COURSE SCHEDULE

ADD-ON COURSE	DATE & DAY	HOURS ALLOTTED	VENUE
Android With MIT App Inventor	15/09/2018(SATURDAY)	1 to 7th Hour	System Simulation Lab/Project Lab
	22/09/2018(SATURDAY)	1 to 7th Hour	
	29/09/2018(SATURDAY)	1 to 7th Hour	
	18/10/2018(THURSDAY)	1 to 7th Hour	
	27/10/2018(SATURDAY)	1 to 7th Hour	

Total Hours 35

Soumya
 Add-On Coordinator
 Ms. Soumya C

HOD, MR

Joseph

Sunny
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 Cheruthuruthy P.O. - 679 531

DEPARTMENT OF MR-ADD-ON COURSE-Attendance List

COURSE NAME: Android With MIT App Inventor

Sl No:	Register Number	Name	Signature				
			Day 1	Day 2	Day 3	Day 4	Day 5
1	JEC17MC001	ABHISHEK N	P	P	P	P	P
2	JEC17MC003	AJAY O U	P	P	P	P	P
3	JEC17MC004	AJIN JASTIN O	P	P	P	P	P
4	JEC17MC005	AJIN M G	P	P	P	P	P
5	JEC17MC006	AKHILESH K S	P	P	P	P	P
6	JEC17MC007	ALLEN JOSE JAMES	P	P	P	P	P
7	JEC17MC011	ANNA MARIYA ROCKY	P	P	P	P	P
8	JEC17MC012	ANSON C JOSE	P	P	P	P	P
9	JEC17MC013	ARJUN V S	P	P	P	P	P
10	JEC17MC017	ELWIN SHAJU	P	P	P	P	P
11	JEC17MC018	GODWIN VADAKKAN DAVIS	P	P	P	P	P
12	JEC17MC019	GREESHMA JOHN	P	P	P	P	P
13	JEC17MC020	HAMRAS MOHAMMED	P	P	P	P	P
14	JEC17MC022	LEEN DAVID P B	P	P	P	P	P
15	JEC17MC025	NIKHIL SAJAN	P	P	P	P	P
16	JEC17MC027	NITHINRAJ C	P	P	P	P	P
17	JEC17MC028	RIJU T R	P	P	P	P	P
18	JEC17MC038	SREEKANTH M P	P	P	P	P	P
19	JEC17MC039	SREERAJ M	P	P	P	P	P
20	JEC17MC040	VAISAKH N S	P	P	P	P	P
21	JEC17EE001	ABDUL HASEEB	P	P	P	P	P
22	JEC17EE002	ABHIJITH M P	P	P	P	P	P
23	JEC17EE003	ABHIJITH T	P	P	P	P	P
24	JEC17EE004	AJIL JAISON C	P	P	P	P	P
25	JEC17EE005	ALEN MATHEWS	P	P	P	P	P
26	JEC17EE006	ALEX ALBERT	P	P	P	P	P
27	JEC17EE007	AMRITHA ASHOK K	P	P	P	P	P
28	JEC17EE008	ANITTA SAVY	P	P	P	P	P
29	JEC17EE009	ANJANA A	P	P	P	P	P
30	JEC17EE013	ARJUN A R	P	P	P	P	P
31	JEC17EE015	ARTHANA P	P	P	P	P	P
32	JEC17EE019	HENSA MERIN BABU	P	P	P	P	P
33	JEC17EE023	KAPILDEV M K	P	P	P	P	P
35	JEC17EE025	K U MANSOOR	P	P	P	P	P
36	JEC17EE026	KUNNATH RAHUL	P	P	P	P	P
37	JEC17EE036	SAHAL K H	P	P	P	P	P
38	JEC17EE037	SANDRA S	P	P	P	P	P
39	JEC17EE038	SANIL M LAZAR	P	P	P	P	P
40	JEC17EE039	SIJO DAVIS	P	P	P	P	P
41	JEC17EC001	ABHIJITH SURESHKUMAR MENON	P	P	P	P	P
42	JEC17EC002	AKHILA V	P	P	P	P	P
43	JEC17EC003	ALBIN FREDY	P	P	P	P	P
44	JEC17EC004	ALIN ROS DAVID	P	P	P	P	P
45	JEC17EC005	AMMUMOL JOSEPH	P	P	P	P	P
47	JEC17EC007	ANITTA MARIYA V S	P	P	P	P	P

Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc., M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)

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Jyothi Engineering College
Cheruthuruthy P.O.- 679 531

Handwritten signature

Sl No:	Register Number	Name	Signature					
48	JEC17EC008	ANJANA SIVAPRAKASH N A	P	P	P	P	P	
49	JEC17EC009	ANJU SIMON E	P	P	P	P	P	
50	JEC17EC010	ANSA KURIAKOSE	P	P	P	P	P	
51	JEC17EC012	ARUN A S	P	P	P	P	P	
52	JEC17EC016	ATHIRA MANIKANDAN	P	P	P	P	P	
53	JEC17EC021	DRISYA RAJ B R	P	P	P	P	P	
54	JEC17EC022	EDWIN JOHN	P	P	P	P	P	
55	JEC17EC024	GANGA NANDAKUMAR	P	P	P	P	P	
56	JEC17EC033	JOSHWA TONY	P	P	P	P	P	
57	JEC17EC034	J PREETHI	P	P	P	P	P	
58	JEC17EC043	PADMA PRIYA	P	P	P	P	P	
59	JEC17EC045	RAMSANKAR A	P	P	P	P	P	
60	JEC17EC047	ROHITH P V	P	P	P	P	P	

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This certifies that

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ADD-ON COURSE FEEDBACK FORM

Topic Title: *Android with MIT app inventor*

Participant's Name (optional):

THE DESIGN OF THE COURSE

	strongly agree	Agree	Neutral	Disagree	Strongly Disagree
1 Whether objectives of the course clear to you ?	<input checked="" type="checkbox"/>				
2 Does the course content meet to your expectations?	<input checked="" type="checkbox"/>				
3 Was the lecture sequence well planned?			<input checked="" type="checkbox"/>		
4 Whether the level of the course was satisfactory?					
5 Did the course exposed you to new knowledge and practices?	<input checked="" type="checkbox"/>				
6 Will you recommend this course to your classmates?		<input checked="" type="checkbox"/>			

CONDUCT OF THE COURSE

1 Was the lecture clear and easy to understand?	<input checked="" type="checkbox"/>				
2 Were the teaching aids used effectively ?	<input checked="" type="checkbox"/>				
3 Whether the course materials handed over was adequate?		<input checked="" type="checkbox"/>			
4 Whether the instructors encouraged interactions and was helpful?		<input checked="" type="checkbox"/>			

Are you satisfied with the timing & schedule followed for the course ?

Y N

Any other comments to improve the course :

Sunny

Dr. SUNNY JOSEPH KALAYATHANKAL
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Please give overall rating for the course (OUT OF 5)

' We appreciate your help in evaluating this program '