

-(Approved by AICTE, Affiliated to MGU / APJ Abdul Kalam Technological University, NAAC Accredited & ISO Certified Institution)-

SI N	o Name of Program	Date & Duration	Agency Conducted	No of Students enrolled (without	No of Times held in an year	
	1 2D Drafting & Designing of Structures	28-01-2019, 30 hours	MLMCE	120	2	
	2 6 Day workshop on Etab& Revit architecture	23-07-2020, 30 hours	MLMCE	60	1	
5. 1	3 3-day workshop on structural drawing using AutoCAD	21-08-2020, 20 hours	MLMCE	60	1	
	4 Workshop on Data Science Machine Learning	30/8/2019, 3days	MLMCE	62	1	
	5 Workshop on IoT Challenge	26/9/2019,3days	MLMCE	140	1	
× X	6 Workshop on Cyber Disease Ethical Hacking	14/02/2019,4days		96	1	
	7 Workshop on Robotic Automation	14/11/20193days	MLMCE	35	1	
	8 Certification of Java	1/2/2020,30 hours	MLMCE	15	1	
!	9 Certificat ion of PHP	04/04/2020, 30 hours	MLMCE	20	1	
1() HDL Design	10-02-2020 & 30 HRS	MLMCE	42	`1	
11	2D to 3D IC-change in trends in semiconductor IC design	09-03-2020 & 30 HRS	MLMCE	68	1	
12	Workshop on Internet Of Things	20-01-2020 & 30 HRS	MLMCE	29	1	
13	E-TAP	08/02/2020 & 30 hours	MLMCE	43	1	
14	E-CAD	12/10/2019 & 30 hours	MLMCE	43	1	
15	Proteus PCB Designing	12/10/2019 & 30 10urs	MLMCE	41	1	
16	Latex for begineers	2/10/2019 & 30 Jours	MLMCE	18	1	
17	Foundation In Mechanical	9/11/2019,30 Iours	MLMCE	82	1	Marc
18	HVAC C	2/11/2019,30 Iours	MLMCE	107		OF ENGINEERIN
19	NPTEL-SWAYAM 1	/7/20198 weeks	MLMCE	117	AM CO	LEGE noor
20	DIGITAL MARKETING 3	0/9/20193 days	MLMCE	117	12MA	

CERTIFICATE PROGRAMS- ACADEMIC YEAR 2019-2020

Registered Office: Mangalam Complex, P.B No.3, S.H Mount, Kottayam, Kerala-686006, Ph:+91-481-2563024



2D DRAFTING & DESIGNING OF STRUCTURES

30 Hour Course

- Trusted by expert from building design industry
- ✓ Includes detailed lectures on software tools
- ✓ Available with updated course hand out
- ✓ Completion Certificate Will be provided
- Interaction with Domain Expert

Resource Person

MrAbin John Faculty SolidCADD

Date:

28-01-2019to01-02-2019



Coordinator: Mr. Sreerench Raghav, AP-CE



30 Hours Course (Certificate)

 Develop and construct accurate 2 D and 3D building view

Design and draw various structures

Be 1 among the trained Engineer

MANGALAM COLLEGE OF ENGINEERING

Mangalam Hills, Vettimukal P O Ettumanoor, Kottayam 686631

Time 9: 00 AM to 5 PM (9 Dave) PRINCIPAL PRINCIPAL Elturnanoor



MANGALAM COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering

1.	Academic Year	: 2019-20
2.	Tile of the Course	2D Drafting & Designing of Structures
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation drawing and designing of structures
4.	Prerequisite	: Nil
5.	Requirement	: Seminar Hall
6.	Beneficiary	: S1 Students
7.	Date and Duration of the Course	:28-01-2019to 01-02-2019
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 30 Hours
10.	Internal Resources	: Mr. Sreerench Raghav (CE)
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: CADD LAB

MANGALAM COLLEGE OF ENGINEERING

COURSE COORDINATOR

HOD



2D Drafting & Designing of Structures Syllabus

Sessions	Topics	L Hrs
1	Introduction to CAD	
	Industry Annotations & amp; Dimensions	
	Layers Drawing Settings	10
	Orthographic Drawings	10
	Isometric Drawings	
	Perspective Drawings Editing	
	The Drawings Selection Methods	
2	AUTO CAD 3D (CIVIL), 3D Modelling Concepts	
	3D Co-ordinates Systems	0
	Viewpoint & amp; UCS Wireframe	0
	Modeling & amp; Editing Solid, Mesh	
3	Surface (Modeling & amp; Editing) Materials, Lights & amp; Rendering	6
	Working with Images Import & amp; Export	
4	3D rendering of the model, photographic view of the structure, placing of interior elements, videoing the inside the structure, export of files to other drawing and designing formats.	6

Internal Quality Assurance Cell (IQAC) Mangalam C. flear of Loninocoung Kottayara, Inc.a - 686 631

EGE OF ENGINEERING

TOOMS

MANBALAM COL

From,

Dr. Vinodh P Vijayan

HOD-CSE

MLMCE

To,

The Principal

MLMCE

Sir,

We would like to conduct a worikshop on Robotic and Automation on 14th -16th November 2019 in association with stepz, India Ltd. The resources personal expected are Mr. Bruno Heuer(Senior Technical Expert, Germany) and Mr. Akhil B Arackal (Project Scientist. IIT Madras).

Expected Expenses					
SI No	Description	Amount in Rs			
1	Honorarium for experts	15000			
2	Refreshment for 50	2000			
	persons @ Rs 40				
3	Stationary	1000 .			
	Total	18000			
Expected Income					
	Registration fee @500	25000			
	from 50 students				

So I request you to grant the permission to conduct the same.

Thanking You,

HOD-CSE

31-10-2019 a

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Organizes a three day WORKSHOP ON

ROBOTICS AND AUTOMATION

14TH TO 16TH NOVEMBER, 2019
9.00AM-5.00PM

RESOURCE PERSON

Mr.Bruno Heuer

Mr.Akhil B

Germany





(Approved by AICTE, Affiliated to MGU / APJ Abdul Kalam Technological University, NAAC Accredited & ISO Certified Institution)

Dated: 26-7-2019

To, IoT Challenge 2020 Team i3indya Technologies

Subject: Confirmation for making our college as Zonal Center for IoT Challenge 2020 event

Dear Sir.

This is to bring to your kind notice that our college Mangalam College of Engineering confirms to organize Prelims of National Level Event IoT Challenge 2020 and 2 Days workshop on Internet of Things (IoT) on 26,27-09-2019 at Rs 600/- per head with 1 kit to group of 4 students for practice purpose only. Registration and payment will be done Online from IoT Challenge 2020 website only.

We will provide you with the following:

- 1. A Seminar Hall having seating capacity of 100-200 Students for 2 Days.
- 2. Projector (1), Collar Mike (1), Sound System and Cord for connecting Laptop with Speakers
- 3. High Speed Wifi- Internet for Speaker and participants
- 4. Workshop Coordinators/Organizers (3-4)
- 5. Arrangement of minimum 80 students for the workshop.
- 6. College will take 25% of the Revenue Collected from workshop fees for Event arrangements via NEFT.
- 7. Arrange Fooding & Lodging to i3indya Technologies team (2-3 Members) for delivering the workshop and conducting the Prelims Round of IoT Challenge 2020
- 8. Provide Pickup & Drop from Railway Station/Bus Stand
- 9. Invitation to students from colleges of neighboring cities.

The workshop & event to be conducted will be taken care by the following Student/Faculty coordinators who will coordinate the entire event at our campus:

<u>S.N</u>	Name	Designation	Contact No.	Email ID
1	Prof Nimmymol M	Faculty	0406290516	
1.	1101. Telliniyindi lei	Tacuny	9490380310	nimmymol.manuel@mangalam.in
2.	Anandu N	Student	8893149830	anandu.net@gmail.com
3.	Jithu Biju	Student	9447697513	jithubiju007@gmail.com

Thanks and Regards

Yours Truly

Dr. Manoj George

Principal

RING **JANGALA**

About IoT Challenge 2020

loT Challenge 2020 is 4th Edition of National Level Event based on Internet of Things (IoT) organised and sponsored by i3indya Technologies whose Final Round will be held at Aakaar 2020 (Asia's Largest Technical Festival of IIT Bombay) in March 2020

6000 Students | INR 1 Lakh worth Prizes | 20+ Zonal Centers | 20 Cities

Event Flow Chart

- Prelims at 20+ Zonal Center across India
- 2 Days (100% Practical) Workshop on Internet of Things for students and professionals
- 45 Mins Competition at the end of workshop
- 5 Shortlisted Teams will be send to Next Round which have to send abstract for final round
- Final round in March 2020 at Aakaar 2020, IIT Bombay

For details visit: www.aakaariitb.in

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Nimmymol Manuel <nimmymol.manuel@mangalam.in>

Wed, Jan 8, 2020 at 11:30 PM

Fwd: Event Proposal | Aakaar IIT Bombay | MCE Ettumanoor

2 messages

Dr. Vinodh P Vijayan <vinodh.pvijayan@mangalam.in> To: Nimmy Manuel MLM Manuel <nimmymol.manuel@mangalam.in>

discuss with me Greetings, **Dr. Vinodh P Vijayan Ph.D I** Associate Professor & H O D Department of Computer Science & Engineering

Vettimukal P O, Mangalam Hills Ettumanoor, Kottayam-686631 Email: vinodh.pvijayan@mangalam.in vinodhpvijayan@yahoo.com Ph # +91 9961687007 From: Forwarded message ------From: Cyber Disease 2020 <cyberdisease2020@gmail.com> Date: Wed, Jan 8, 2020 at 2:43 PM Subject: Re: Event Proposal | Aakaar IIT Bombay | MCE Ettumanoor To: Dr. Vinodh P Vijayan <vinodh.pvijayan@mangalam.

Dear Sir / Mam

Greetings!

We are conducting 2 National Level Events which is going to be held at Aakaar IIT Bombay on 14th - 15th March 2020

We want to conduct the PRELIMS Round of the competition at your college

1. Cyber Disease CTF (Ethical Hacking)

2. IoT Challenge 2020 (Internet of Things)

Visit : www.aakaariitb.in/events/i3indya.html

Prizes worth INR 1 Lakh to be won !

The event can be hosted <u>before 15th February 2020</u> in your college. ^{Final Event at IIT} Bombay in March 2020

Kindly let us know your response for hosting the event Prelims round in your college

Option 1: Need time to finalize

Option 2 : Not Possible (Reason)

Option 3 : Not Interested

Check the list of other zonals finalised so far: http://www.i3indyatechnologies.com/cyberdisease/registration/zonal-center-details.html

Available to discuss on call / whatsapp at +91 – 781 493 8773

Thanks & Regards,

CHAMKAUR SINGH Cyber Disease 2020 Team

+91 - 781 493 8773







Ph :+91-481-2710120, +91-481-2537053 +91-481-2533711, Fax: +91-481-2533700 Web : www.mangalam.ac.in E-mail : info@mangalam.in

-(Approved by AICTE, Affiliated to MGU / APJ Abdul Kalam Technological University, NAAC Accredited & ISO Certified Institution } Dated: 09-01-2020

Τo,

Cyber Disease Team i3indya Technologies

Subject: Confirmation for making our college as Zonal Center for Cyber Disease event

Dear Sir,

This is to bring to your kind notice that our college Mangalam College of Engineering confirms to organize Prelims of National Level Event Cyber Disease and 2 Days workshop on Ethical Hacking and Cyber Security on 14th & 15th Feb 2020. at Rs 600/- per head. Registration and payment will be done Online from Cyber Disease 2020 website only.

We will provide you with the following:

- 1. A Seminar Hall having seating capacity of 100-200 Students for 2 Days.
- 2. Projector (1), Collar Mike (1), Sound System and Cord for connecting Laptop with Speakers
- 3. High Speed Wifi- Internet for Speaker and participants
- 4. Workshop Coordinators/Organizers (3-4)
- 5. Arrangement of minimum 80 students for the workshop.
- 6. College will take 25% of the Revenue Collected from workshop fees for Event arrangements via NEFT.
- 7. Arrange Fooding & Lodging to i3indya Technologies team (2-3 Members) for delivering the workshop and conducting the Prelims Round of Cyber Disease
- 8. Provide Pickup & Drop from Railway Station/Bus Stand
- 9. Invitation to students from colleges of neighboring cities.

The workshop & event to be conducted will be taken care by the following student coordinators who will coordinate the entire event at our campus:

Staff Coordinator: Ms. Nimmymol Manuel-Assistant Professor (9496380516)

Student Coordinators: Mr. Akhil M Anil

Mr. Muhammed Sabith

Thanks and Regards Yours Truly

(Signed and Seal of College) Dr. Manoj George Principal





Nimmymol Manuel <nimmymol.manuel@mangalam.in>

Material to bring at Cyber Disease Workshop : MCE Ettumanoor

1 message

Sat, Feb 15, 2020 at 9:33 AM Cyber Disease 2020 <cyberdisease2020@gmail.com> To: Vinodhyahoo <vinodhpvijayan@yahoo.com>, "Dr. Vinodh P Vijayan" <vinodh.pvijayan@mangalam.in>, Nimmy Manuel <nimmymol.manuel@mangalam.in>, akhilmanil0@gmail.com, sabithnadakkavil@gmail.com

Dear Sir / Mam

Kindly share the following email with all the registered participants

Dear Candidate

IMPORTANT INSTRUCTIONS

* Registration can be done on Individual Basis

* You can join this program if you have basic knowledge of Web & Internet

* Every individual must carry

1 Laptop (Windows OS),

Smartphone with 4G Internet,

1 Pen Drives

1 Charging Extension Board

* Only Online Registration is valid to participate in the event and NO on-spot registrations would be entertained



Before coming for the Cyber Disease Workshop:

The Aller

-> Kindly Download all the Ethical Hacking Workshop Software's from HERE

-> Student Should Install these Softwares before coming

1. Virtual Box - https://www.virtualbox.org/wiki/Downloads

2. Genymotion - https://www.genymotion.com/

3. Kali Linux - https://www.offensive-security.com/kali-linux-vm-vmware-virtualbox-image-download/

4. ADB Tools - https://developer.android.com/studio/releases/platform-tools

Date : 18 - 19 February 2020

Timings : 9:00 AM - 4:00 PM

Venue :

Seminar Hall, MCE Ettumanoor

All attendees will receive Certificate of Participation from Radiance IIT Bombay and i3indya Technologies





Ranju S Kartha <ranju.kartha@mangalam.in>

New Initiative for Women Students on Salesforce Fundamentals

1 message

sreekumar.kv@ictkerala.org <sreekumar.kv@ictkerala.org> To: Ranju S Kartha <ranju.kartha@mangalam.in> Cc: vinodh.pvijayan@mangalam.in

Fri, Mar 19, 2021 at 5:59 PM

Dear Ranju Ma'am,

We are extremely excited to bring you a women-centric program in association with Salesforce as part of Salesforce's Diversity and Inclusion program. It is a joint D&I initiative of Salesforce looking to skill and empower around 1k girl students in India. Please see below the key highlights of the program.

Key Highlights:

- Launch date April 2021.
- Duration: 12 weeks
- Time commitment from students: 4-6 hours a week
- Format: self-paced with guided help from instructors
- Mentorship and Job Connections

Thank you for recording your willingness to part of this program and we shared your willingness with Salesforce.

Audience: Only 2nd year (Technical / Non-Technical) colleges girl students.

More details of the program is attached for your perusal.

Feel free to let me know if you have any questions/ suggestions on implementing this program.

Thank you for your support.

Best Regards, Sreekumar K V Head - Academic Relations, ICT Academy of Kerala, Techno Park Campus, Trivandrum. www.ictkerala.org Mob: +91-81118 40022

HNGALIN



Trailblazer Connect India Course Details

What is Trailbazer Connect?

Trailblazer Connect is a program that connects students with their next opportunity in the Salesforce Ecosystem. Through Trailhead learning, expert-led webinars, career resources, a mentorship program, and classroom resources, Trailblazer Connect brings job seekers and employers together.

Vision: To deliver students programs in India, in a meaningful and impactful manner, with the values of Salesforce of trust, customer success, innovation and equality. Our programs empower Student Trailblazers to reach their goals to learn new skills, earn valuable credentials, connect within the Salesforce Ecosystem.



What are the Student Courses under Trailbazer Connect?

Salesforce Developer Catalyst
 Become Job Ready Admin

2. Become Job Ready Admin

Who Can Apply to the Program?

1. Salesforce Developer Catalyst Track

Students in the final year pursuing Technical education with basic concepts of OOPs and Java. Preferred streams: B.E. / B.Tech / B.C.A. / M.C.A. / M.Tech

AC)

Salesforce Developer Catalyst

5 Weeks Program:



Who is a Salesforce Administrator?

You bring innovation to life, bridging the gap between business requirements and technology. For your company, this means automating complex business processes, creating reports and dashboards, and training users on Salesforce. For your team, it means helping them stay efficient and on top of things while keeping an eye on their successes and customer relationships.

Course Name: Become Job Ready Admin

We use the power of our free learning platform - Trailhead - to teach you everything from the fundamentals of the Salesforce platform, security features, power of Sales Cloud and Service Cloud in Salesforce, explore Reports and Dashboards. Discover the features of Community Cloud, Marketing Cloud and power of Einstein Analytics in Salesforce. ssurance Cell (IQA

Skills Covered:

- Supplement your education with Salesforce skills and differentiate yourself in the job market.
- Benefit from the knowledge and experience of our Trailblazer Community.
- Build your skills and personal brand in the Salesforce ecosystem.
- · Prepare for interviews with job-readiness activities and mentorship opportunities.

Duration : ~ 47 hours (5 weeks)

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India - 686 r

Mode of Learning : Self Paced Online Learning on Trailhead, Ask Me Amything Sessions, Events

Benefits for students :

ANCALL

• Earn 31 badges

More Questions?

View our Frequently Asked Questions document. Is your question not among the above list? Write to us at trailblazerconnect@salesforce.com

Where do Students go for Help?

Step by Step Help article for students on Trailhead modules: Trailblazer Student Help Help on Trails - https://trailblazers.salesforce.com/answers Help on Trailhead issues - https://trailhead.salesforce.com/help

What are the Faculty Courses under Trailbazer Connect?

1. Salesforce Developer Catalyst FDP

4 days FDP Faculty in a Technical Institute with basic concepts of OOPs and Java. Preferred streams: B.E. / B.Tech / BCA / MCA / M.Tech

2. Salesforce Admin FDP

3 days FDP Any faculty can learn the Salesforce Admin track Preferred streams: M.B.A. /B.B.A. /B.Com / B.A. / B.Sc. or any other non-technical streams

Gain an Educator Badge :- Criteria

- Register 50 students from your college
- Complete FDP with all the 10 badges
- 🗇 20 students complete any trailmix

Stay tuned for dates!



ell (ICAC)

ICTAK : "W	omen-centric prog	tram in associatio	n with Salesforce as part of Salacforce's
Diversit	y and Inclusion pre	ogram" - Mangala	am College of Engineering(MLMCE),
SI.No	Participant Name	Email ID	or Mabile No
1	Riya Baby	riyamariyababy@	7510381283
2	Rimil Joseph	rimiljoy@gmail.c	8606082595
£	Preejamol Prasa	preejanprasad@	8281659074
4	Sandra Omanaku	Sandraomanakut	7306814777
S	Anaha Babu	anahababu02@p	2124180001
9	Aniu Babu	aniuhmalavil@gr	010202020
7	Anjana Prakash	aniananrakash20	949/059653
80	Ann Therese Jos	annthereseinsen	0CT/CO0/00
		2222	

First name	Last name	City	College name	Gender	Email ID (used for Trailhead Signup)
Sandra	Omanakuttan	Kottayam	Mangalam College of Engineering, Ettumanoor	Female	Sandraomanakuttan 183@gmail
RIYA	BABY.	KOTTAYAM	Mangalam College of Engineering, Ettumanoor	Female	riyababy@mangalamcollege co
Anjana	Prakash	Kottayam	Mangalam College of Engineering, Ettumanoor	Female	m anjanaprakash2018@qmail.com
Anju	Babu	Kottayam	Mangalam College of Engineering, Ettumanoor	Female	anjubmalayil@qmail.com
naha	Babu	Kaduthiruthy	Mangalam College of Engineering, Ettumanoor	Female	anahababu@gmail com
un Therese	Joseph	Kaduthuruthy	Mangalam College of Engineering, Ettumanoor	Female	anntheresejoseph2001@gmail c om

AMP



CERTIFICATION ON JAVA

30 Hour Course

- ✓ Trusted by Recruiters of Software Industry
- ✓ Includes detailed Java Programming
- ✓ Available with Updated Short Study Material
- ✓ Completion Certificate Will be provided
- ✓ Interaction with Domain Expert

Resource Person

Ms. Divya S.B, AP, CSE DEPT Ms. Jinu P Sainudeen, AP, CSE DEPT Ms. Nimmymol Manuel, AP, CSE DEPT

Date: 01-02-2020 to 29-02-2020



Coordinator: Ms.Divya S.B, AP, CSE DEPT

30 Hours Course (Certificate)

Needed to become a Verified Java Programmer

Learn the fundamentals of Java

> Become 1 among the trained Engineer

MANGALAM COLLEGE OF ENGINEERING

Mangalam Hills, Vettimukal P O Ettumanoor, Kottayam 686631

Time 9: 00 AM to 5 PM (5 Days)

MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Date: 22/1/2020

Ref: MLM/CSE/CC/2019-2020/ 02

Submitted to the Principal approval

We have proposed to conduct the certificate course on "Basics of java" for our UG CSE students during this semester (2019-20). Tentative timings and course fees details are mentioned below. Hence, we kindly request you to give approval for the same.

Course Explanation:

This free Java course is designed to provide a solid foundation and work-ready skills in Java development.

	Course Schedule :- 1/2	se Schedule :- 1/2/ 20 to 29/2/2019	
10	Name of the course	Course instructors	Course

S.No.	Name of the course	Course instructors	Course duration	Approx. Course fee	(year/branch)
1		Ms Divya SB			
2	Certification on java	. Mis.Jinu P Sainudeen	30 hrs	Free	
3		Ms.Nimmymol Manuel			

Thanking You,

Course I

Copy to:

- 1. CSE Department file
- 2. Notice board
- 3. IQAC

500 Principal

PRINCIPAL MANGALAM COLLEGE OF ENGINEERING

Internal Quality Assurance Cell (IQAC) Mangalam College of Engineering Kottayam, India - 686 631

MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Department of Computer Science and Engineering

Academic year 2019-20

DETAILED SYLLABUS

1. Java Fundamentals

- 1.1 Features of Java
- 1.2 OOPs concepts
- 1.3 Java virtual machine
- 1.4 Reflection byte codes
- 1.5 Byte code interpretation
- 1.6 Data types, variable, arrays, expressions, operators, and control structures
- 1.7 Objects and classes

2. Java Classes

- 2.1 Abstract classes
- 2.2 Static classes
- 2.3 Inner classes
- 2.4 Packages
- 2.5 Wrapper classes
- 2.6 Interfaces
- 2.7 This
- 2.8 Super
- 2.9 Access control

3. Exception handling

- 3.1 Exception as objects
- 3.2 Exception hierarchy
- 3.3 Try catch finally
- 3.4 Throw, throws

4. 10 package & Multi threading

- 4.1 Input streams
- 4.2 Output streams
- 4.3 Object serialization
- 4.4 Deserialization
- 4.5 Sample programs on IO files
- 4.6 Filter and pipe streams
- 4.7 Thread Life cycle
- 4.8 Multi threading advantages and issues
- 4.9 Simple thread program
- 4.10 Thread synchronization

5. GUI & Database Connectivity

5.1 Introduction to AWT programming

5.2 Layout and component managers

5.3 Event handling

- 5.4 Applet class Applet life-cycle
- 5.5 Swing components JApplet, JButton, JFrame, etc
- 5.6 JDBC architecture
- 5.7 Establishing connectivity and working with connection interface
- 5.8 Working with statements
- 5.9 Creating and executing SQL statements
- 5.10 Working with Result Set

Prepared By Ms. Divya S B

Approved by



Internal Quality Assurance Cell (IQAC) Mangalam College of Engineering

Kottayam, Ilidia - 656 C31



CERTIFICATION ON PHP

30 Hour Course

- ✓ Trusted by Recruiters of software Industry
- ✓ Includes detailed PHP Programming
- ✓ Available with updated Short Study Material
- ✓ Completion Certificate Will be provided
- ✓ Interaction with Domain Expert

Resource Person

Ms.Tinu Thomas, AP, CSE DEPT Ms.Sruthy Emmanuel, AP, CSE DEPT Ms.Divya S.B, AP, CSE DEPT

Date: 04-04-2020 to 27-04-2020



Coordinator: Ms. Tinu Thomas, AP, CSE DEPT

30 HoursCourse (Certificate)

Needed to become a Verified PHP Programmer

Learn the fundamentals of PHP

Become 1 among the trained Engineer

MANGALAM COLLEGE OF ENGINEERING

Mangalam Hills, Vettimukal P O Ettumanoor, Kottayam 686631

MANGALAN

Time 9: 00 AM to 5 PM (5 Days)

MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Ref: MLM/CSE/CC/2019-2020/ 03

Date) /3/03/2020

Submitted to the Principal approval

We have proposed to conduct the certificate course on "**PHP**" for our UG CSE students during this semester (2019-20). Tentative timings and course fees details are mentioned below. Hence, we kindly request you to give approval for the same.

Course Schedule :- 4/04/2020 to 27 4/2020

S.No.	Name of the course	Course instructors	Course duration	Approx. Course fee	Target students (year/branch)
2	Certification on PHP	Ms. Tinu Thomas Ms. Sruthy Emmanuel	30 hrs	Free	II&III CSE
3		Ms.Divya S B			Dept,

Thanking You,



Copy to:

- 1. CSE Department file
- 2. Notice Board
- 3. IQAC



Principal

PRINCIPAL MANGALAM COLLEGE OF ENGINEEDING

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Internal Course of Coursering Kottayam, India - 686 631



1



Department of Computer Science and Engineering

Academic year 2019-20

DETAILED SYLLABUS

1. Introduction to PHP

1.1PHP Intro

1.2 PHP Install

1.3 PHP Syntax

1.4 PHP Variables

1.5 PHP Echo / Print

1.6 PHP Data Types

1.7 PHP Strings

1.8 PHP Constants & Operators

2. Handling Html Form with PHP

2.1 PHP Form Handling

2.2 PHP Form Validation

2.3 PHP Form Required

2.4 PHP Form URL/E-mail

2.5 PHP Form Complete

3. Decisions and loop

3.1 Making Decisions

3.2 Doing Repetitive task with looping

3.3 Mixing Decisions and looping with Html

3.4 PHP If...Else...Elseif

3.5 PHP Switch

3.6 PHP While Loop and For Loops

4.Array

4.1 Creating index based and Associative array

4.2 Accessing array Element

4.3 Looping with Index based array

4.4 Looping with associative array using each() and foreach()

4.5 Some useful Library function

5. Database Connectivity with MySql

5.1 Introduction to RDBMS

5.2 Connection with MySql Database

5.3 Performing basic database operation(DML) (Insert, Delete, Update, Select)

5.4 Join (Cross joins, Inner joins, Outer Joins, Self joins.)Framework- Codelgnite

Prepared By 🦾 Ms. Tinu Thomas

rub

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Intervence Cell (IQAC) Mangalam College of Engineering Kottayam, India - 686 631



ANGALAM



Ph :+91-481-2710120, +91-481-2537053 +91-481-2533711, Fax: +91-481-2533700 Web : www.mangalam.ac.in E-mail : info@mangalam.in

(Approved by AICTE, Alfiliated to MGU / APJ Abdul Kalam Technological University, NAAC Accredited & ISO Certified Institution)-

Date:26/07/2019

To,

The Manager, TECHVRIDDHI'19 (A National level event organized by Technospecies Global Solution In association with E-Cell, IIT Kharagpur)

Sub.: Confirmation letter to organize TECHVRIDDHI'19 workshop at our campus premises.

Dear Sir/Madam,

Refer to your proposal; we confirm that we would like to participate in TECHVRIDDHI'19 (A National level championship). The steps forward, you can conduct 1st level workshop at our Institute Mangalam College of Engineering, Ettumanoor, Kottayam (Name of Institute/University) campus premises. We will ensure to provide you all required infra support as per proposal received by us. The confirmation details are as follows.

Workshop Dates: 30, 31/08-2019 Workshop Topic: AI and Machine learning Fee per participants: 900/-

We are also nominating 2 students and 1 faculty to coordinate entire event and making it successful. Details for the same are as follows.

<u>S.</u>	Name	Designatio	Contact No.	<u>Email ID</u>
No		<u>n</u>		
- i				
1	Prof. Chris	Faculty	7907094061	chris.chettissery@mangalam
1.	Chettissery			
2	Mr. Midhun	Student	0047235533	midhunmahesan910mm@amail.com
2.	Maheesan	Student		indiminanciality formalignan.com
2	Mr. Benjamin A	Student	0005061700	heniikattavam Damail com
5.	Jacob	Student	9775001700	bennkonayanna ginan.com

Thanks & regards,

Dr. Manoj George (Name, Signature & Stamp) Designation: Principal



CERTIFICATE COURSE IN FOUNDATION IN MECHANICAL

CAD

30 Hour Course

- Includes detailed technologies in CAD
- Available with updated Short Study Material
- ✓ Completion Certificate Will be provided
- Interaction with Domain Expert

Resource Person

Mr. Aneesh K S APME MANGALAM COLLEGE OF ENGINEERING

Date: 19/11/2019 to 28/11/2019



Learn the fundamentals of MECHANICAL CAD

30 HoursCourse

Mangalam College of Engineering

Mangalam Hills, Vettimukal P O

Ettumanoor, Kottayam

686631

SYLLABUS (Add-on Course) Subject Name: Foundation in Mechanical CAD Subject Code: SCADM0075

Total hours: 30

MODULE 1: (8 hours)

Engineering Graphics – Industrial Overview, Codes &Standards, Projection, Industrial projects, AutoCAD Interface Line, Circle, Trim, Inquiry-Distance, Rectangle, Copy, Move, Rotate, Poly The Mirror, polygon, Stretch, Fillet, Chamfer, Elipse arc, Region Array, Splines, Practice Sessions

MODULE 2: (12 hours)

Single Line Text, Multiline Text, Explode, Hatch & Gradient, Drafting settings, Properties Tool Bar, Block (Make Block, Insert Block), Dimension style, Table Style, Isometric Drawings, Company Layout Designing, Drawings in Layer-International projects, Properties, Multi leader

MODULE 3: (10 hours)

Design centre. Attribute, Inquiry – Area, Distance etc, Quick select, Filter, Draw order, Multi one style. Multi Line, Drawing Limits, Raster Image Reference, Hyper link, External References. Model-Title Block, Lay out ,Scaling, Scale List, View port, Plot Style manager

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HoD

Internal Quality Assurance Cell (IQAC) Mangalam College of Engineering Kottayam, India - 686 631

MANGALAM COLLEGE OF ENGINEERING



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MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING

Department of Mechanical Engineering

Ι.	Academic Year	: 2019-20
)	Tiloofil G	. 2019-20
	The of the Course	: Foundation in Mechanical CAD
3.	Objective of the Course	:
4.	Prerequisite	: Nil
5.,	Requirement	: Seminar Hall, CAD LAB
6.	Beneficiary	: S1 Students
7.	Date and Duration of the Course	:19.11.2019 to 28.11.2019(30 Hours)
- 8.	Proposed Timing	: 2:00 PM to 05:00 PM(3 hours per
	rioposed rinning	day)
9.	No of Hours Required	: 30 Hours
10.	Internal Resources	: Mr. Aneesh K S AP (ME)
11.	Course Registration Fees	:Nil
12.	Contents of Courses	:Enclosed Separately
		: Those who have 80 % of Attendance
13.	Credits and Certification	and scored 60 % in internal exam
1		evaluation
14.	Venue	:Mechanical Seminar Hall, CAD Lab

Anust

COURSE COORDINATOR

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PRINCIPAL PRINCIPAL PRINCIPAL ENUMANOOT HOD



CERTIFICATE COURSE IN HVAC

30 Hour Course

- ✓ Includes detailed technologies in HVAC
- Available with updated Short Study Material
- ✓ Completion Certificate Will be provided
- ✓ Interaction with Domain Expert

Resource Person

Mr. Hariprasad K S APME MANGALAM COLLEGE OF ENGINEERING

Date: 02/11/2019 to 04/01/2020



Needed to become

Learn the fundamentals of HVAC

Engineer

Mangalam Hills, Vettimukal P O Ettumanoor, Kottayam 686631



Course on Heat Ventilation &Air Conditioning (HVAC) Syllabus

se Code: MEAC20HVAC				
Pre-requisite: NIL	Course on HVAC		T P J C 0 0 0 0 0	
	Topics		L	
Introduction to HVAC, Fu RAC. Refrigerants in HVAC Process	ndamental of Heat Transfer, Fundamentals for , Fundamental of Psychrometric, Psychrometric		6	
Classification of AC, Non- Unit. Chiller Water System	-Centralized&Centralized AC, Air Handling n, Package System, VRV & VRF System		6	
Introduction to Heat Load, Load Calculation forHoste Introduction to Hourly An HAP	Introduction to Heat Load, Heat Load Calculation for Bedroom, Heat Load Calculation forHostel, Heat Load Calculation for Dinning, Introduction to Hourly Analysis Program, Heat Load Calculation for HAP		6	
Introduction about Ducting Diagram. Double Line Dia	g, Duct Fittings, Duct Annotation, Single Line agram. Duct Design		6	
Introduction to Hydronic S Pipe Loss Calculation and Circulation. Clean Room	System. Pipe Design, Fittings, Types of Valves, Pump Selection, Ventilation, Fresh Air		6	
- Tot	al Hours			
ode: Flipped Class Room [Lect crent types of equipment's, Lectus	ure to be videotaped], Industrial visit to see ares by Experts from Industry (two or more essions)		30	

Neeba

Internal Quality Assurance Cell (IQAC) Mangalam College of Engineering Kottayam, India - 686 631

NANGALAW COLLEGE OF ENGINEERING



MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING

L.	Academic Year	: 2019-20
2.	Tile of the Course	: Heat Ventilation & Air Conditioning
3	Objective of the Course	: To provide an overlook on the various aspects of HVAC
4.	Prerequisite	: Nil
Ĵ	Requirement	: Seminar Hall
6.	Beneficiary	: S7 Students
7.	Date and Duration of the Course	: 2.11.2019 - 4.01.2020 (30 Hours)
8. •	Proposed Timing	: 9:00 AM – 12:00 PM (3 hours per day)
9.	No of Hours Required	: 30 Hours
10.	Internal Resources	: Mr. Hariprasad K S AP (ME)
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.		: Those who have 80 % of Attendance
	Credits and Certification	and scored 60 % in internal exam
		evaluation
14.	Venue	: Mechanical Seminar Hall

Department of Mechanical Engineering

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COURSE COORDINATOR

PRINCIPAL ENGINEERING VICILIZED



Department of Electronics and Communication Engineering

Date: 5/08/2020

<u>Circular</u>

The faculty members along with IQAC Coordinator and Placement Officer are requested to assemble for a meeting at 10:00 am on 06/08/2020 in Department Library ECE.

Agenda:

- 1. Review of KTU university Curriculum and Syllabus
- 2. Review of gaps identified
- 3. Suggestions for Certificate course during academic Year 2019-2020
- 4. Suggestions to the bridge the gap

Copy to:

- 1. Principal
- 2. ECE Department faculty members
- 3. Placement Officer
- 4. IQAC Coordinator

HoD / ECE



Minutes of Meeting

All the faculty members of ECE, IQAC coordinator and Placement officer were present in the meeting conducted on 16/01/2020 at Department Library to finalize the Certificate course to be offered for the current academic year to bridge the gap identified in the Curriculum.

After analyzing the feedback received from various stakeholders like students, faculty, Alumni and Employers, the gap in the Curriculum prescribed by KTU is identified. Further the discussion is held on selection of Certificate course on par with the Standards of premier institutes and Industry expectations. Finalized the following Certificate course and guest lectures for the Academic Year 2019-2020.

Details of Certificate course:

S. N	Name of Certificate Course	Year/ Semester	Total No of Hours	Date of Commencement	Faculty Coordinator
0 1	HDL Design	S6 & S4	30	10-02-2020	Prof Jyothisree K RAssoc.Prof/EC E
2	2D to 3D IC-change in trends in semiconductor IC design	S6 & S4	30	09-03-2020	Thomas, Ap/ECE Prof Ivothisree K
3	Workshop on Internet of Things	S2	30	20-01-2020	R, Assoc Prof,ECE

The faculty members will be initiated at the earliest to design the curriculum for the specified Certificate course after getting approval from the Principal.

ECE

PRINCIPAL PRINCIPAL Education Education

From

Head of the Department, Electronics and Communication Engineering. Mangalam College of Engineering, Ettumanoor,

.To

The Principal, Mangalam College of Engineering, Ettumanoor,

Respected Sir,

SUB: Permission for allocating faculty members for Certificate Course-Reg.

The department meeting is convened on 16/01/2020 for finalizing the Certificate Courses for the academic year 2019-2020. We along with IQAC coordinator and Placement Officer framed the following Certificate Courses:

S. No	Name of Certificate Course	Year/ Semester	Total No of Hours	Faculty Coordinator
1	HDL Design	S6 & S4	30	Prof Jyothisree K RAssoc.Prof/ECE
2	2D to 3D IC-change in trends in semiconductor IC design	S6 & S4	30	Prof Simi P Thomas, Ap/ECE
3	Workshop on Internet of Things	S2	30	Prof Jyothisree K R, Assoc Prof,ECE

I request you kindly to nominate the faculty members for designing the curriculum for the above-mentioned Certificate Courses.

Thanking You,

Yours faithfully,

HoD-ECE

WITH MALTUN VYLLEDE UF ENGIN------

FPGA Design Flow



HDL DESIGN

30 Hour Course

- Trusted by Recruiters of VLSI Industry
- ✓ Includes detailed VHDL and Verilog Programme
- ✓ Available with Updated Short Study Material
- ✓ Completion Certificate Will be provided
- ✓ Interaction with Domain Expert

Resource Person

Mr Abraham C G Researcher AnnaUniversity, Chennai

Date: 10-02-2020 to 14-02-2020



Coordinator: Prof JyothiSree K R, AP-ECE

30 Hours Course (Certificate)

Needed to become a Verification Engineer

Learn the fundamentals of VHDL and Verilog

Become 1 among the trained Engineer

MANGALAM COLLEGE OF ENGINEERING

Mangalam Hills, Vettimukal P O Ettumanoor, Kottayam 686631

'Time 9: 00 AM to 5 PM (5 Days)

Wailing Collector or a

ENGINEERING



MANGALAM COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

1.	Academic Year	: 2019-2020
2.	Tile of the Course	: HDL Design
3.	Objective of the Course	:To develop the skill for HDL Design
4.	Prerequisite	: Basic Programming
5.	Requirement	: Online Google meet for theory class : Project Lab for practical class
6.	Beneficiary	: S6 and S4 Students
7.	Date and Duration of the Course	: 10-02-2020 to 14-02-2020
8.	Proposed Timing	: 09.00 AM to 04.00 PM
9.	No of Hours Required	: 30 Hours
10.	Resource Person	: Mr Abraham C G
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: Online

COURSE COORDINATOR

HOD/ECE

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OF ENGINEERING DAL MANGA' M COL Ettumanoor

CERTIFICATE COURSE

HDL Design

Course Objective:

- > To expose the students to the basic fundamentals of HDL
- > To discuss VHDL in detail
- > To discuss Verilog in detail

Course Outcomes:

- Student knows and how to install and write coding for HDL
- Student learns to write programmes for various Digital logic circuits

S.NO.	CONTENT	INSTRUCTIONAL			
0		HOURS			
	Section 1				
1	VHDL's history. Benefits of VHDL. Concepts of VHDL.	4			
	Entity and Architecture. Behavioral,				
	data flow and structural specifications. Mixed structural-				
	behavioral models. Syntax of VHDL.	-			
2	Basic elements of VHDL. Timing model. Delay types: delta,	6			
	transport and inertial delays. Data				
	types. Scalar data types: numerical, physical (operations with				
	physical types, time description),				
	enumerated. Attributes of scalar data types. Conversion of				
	scalar data types. Subtypes.				
3	Verilog Modeling concepts- Levels of abstraction. Design	6			
	methodologies. Basic concepts - Module. Data				
	types: nets, registers, vectors, arrays. Parameter types.				
	Operators. Operator types, precedence.				
	Sequential and parallel blocks. Comparison of sequential and				
	parallel blocks. Basic compiler				
	directives. Behavioral modeling.				
	Section 2				
10	Verilog Behavioral modeling blocks: always block, event-	6			
	based timing control, branch statements, case.				
	Procedural assignments: blocking and non-blocking. Data				
	flow modeling. Assign statements.				
	Delays. Implicit net declaration. Gate level modeling. Gate				
	types: and/or, buf/not gates,				
	bufif/notif gates. Gate:truth tables. Gate,delays. Specify				
	block. UDP. Ports. Port connection				
	rules: by order and name.				
11	Verilog Switch level modeling. Primitives. Use of tri-reg.	8			
	Test-bench creation. Initial block. Delay-based				
	timing control. System tasks. Monitoring a simulation				
Marine Chu	Looping constructs: while loop, for loop,				

repeat, forever loop. VCS simulation examples. VCD file fragment. Tasks and functions. Differences between tasks and functions.	
Total Hours	=30

Recommended Text Books:

- 1. Palnitkar, Samir. Verilog HDL: a guide to digital design and synthesis. Vol. 1. Prentice Hall Professional, 2003.
- 2. Minns, P. D., & Elliott, I. (2008). FSM-based digital design using Verilog HDL. John Wiley & Sons.

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2D TO 3D IC CHANGE IN TRENDS IN SEMICONDUCTOR IC DESIGN

30 Hour Course

- Trusted by Recruiters of Semiconductor Industry
- ✓ Includes detailed IC Design Flow
- ✓ Available with updated Short Study Material
- ✓ Completion Certificate Will be provided
- ✓ Interaction with Domain Expert

Resource Person

Prof Radeep Krishna R Centre for VLSI Design KARE , Madurai Date: 09-03-2020 to 13-03-2020



Coordinator: Prof Simi P Thomas, AP/ECE

30 Hours Course (Certificate)

Needed to become an Physical Design Engineer

Learn the fundamentals of VLSI Physical Design

Become 1 among the trained Engineer

MANGALAM COLLEGE OF ENGINEERING

Mangalam Hills, Vettimukal P O Ettumanoor, Kottayam 686631

Time 9: 00 AM to 5 PM (5 Days)





MANGALAM COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

1.	Academic Year	: 2019-2020
2.	Tile of the Course	: 2D to 3D IC-change in trends in semiconductor IC design
3.	Objective of the Course	:To develop the skill for VLSI Physical Design
4.	Prerequisite	: Basic VLSI
5.	Requirement	: Online Google meet for theory class : Project Lab for practical class
6.	Beneficiary	: S4 and S6 Students
7.	Date and Duration of the Course	: 09-03-2020 to 13-03-2020
8.	Proposed Timing	: 09.00 AM to 04.00 PM
9.	No of Hours Required	: 30 Hours
10.	Resource Person	: Prof Radeep Krishna R
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: Online

COURSE COORDINATOR

HOD/ECE

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FIRIT OF AN MANGALAMI COLLEGE OF ENGINEERING

CERTIFICATE COURSE

2D to 3D IC-change in trends in semiconductor IC design

Course Objective:

- To expose the students to the basic fundamentals of VLSI Physical Design
- > To understand the 2D IC Design
- To understand the 3D IC Design

Course Outcomes:

- Student knows and how to develop optimisation algorithms for different VLSI Physical Design Flows
- Student learns to do optimisation in 2D IC and 3D IC Designs

		THE TRANSPORTED NAT	
S.NO. CONTENT	CONTENT	INSTRUCTIONAL	
	CONTENT	HOURS	
	Section 1		
1	Introduction to VLSI Physical Design	2	
2	2D IC Design	2	
3	3D IC Design	2	
4	VLSI Partitioning	4	
5	VLSI Floor planning	4	
6	VLSI Placement	4	
7	VLSI Routing	4	
8	Clock Tree Synthesis	4	
Section 2			
10	Example's	4	
	Total Hours	=30	

- Recommended Text Books:
 - 1. Todri-Sanial, Aida, and Chuan Seng Tan, eds. *Physical Design for 3D Integrated Circuits*. CRC Press, 2017.
 - 2. Kahng, A. B., Lienig, J., Markov, I. L., & Hu, J. (2011). VLSI physical design: from graph partitioning to timing closure. Springer Science & Business Media.

OF ENGINEERING MANGALAM COLI Ettumanooi



MANGALAM COLLEGE OF ENGINEERING Mangalam Hills, Vettimukal p.o Ettumanoor, Kottayam 686631

PROTEUS PCB DESIGNING

Date: 12/10/2019

(30 hour course)

(certificate)

Organized by : Department Of Electrical And Electronics Engineering

Speaker: Neeba Sabu

(Assistant Proffesor Department of Electrical And Electronics Engineering)





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and a strain a strain	5019-2020
Contraction of the second	review rest being along
Care the of the Classes	to understand designing of PCB using software, to designing an integral part of each electronics products
" Mariage	XX class for theory class Computer tab for practical class
1. No North N	x s students
and the second the course	12 10.2019 to 09.11 2019(30 Hours)
	08.00 ANI to 04.00 PMgs hours per
a north laterating	every Saturday)
C. S. Con Keymond	to theme
Com Barrella	Mrs. Noobe Sabe, AP \$15
and foreign anon been	" :Nit
CONTRACTOR AND	Enclosed Separately
	These who have \$0 % of Attendance
and the state of t	and secret of % in practical evaluation
	Department of Electrical and
N. C. C.	Electronics Engineering
	 2015 State in research Processing



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CERTIFICATE COURSE

Proteus PCB Designing

Char & Dujerine:

resultation of build course for designing of PCB using software. PCB (Printed Circuit Board) an integral part of each electronics products and this program is designed to processed and the second secon

Course Ontcomes:

- a Statent knows PCB designing and how to install Proteus software.
- Station learn to design electronic circuits.
- > Stadea, leads to simulate the circuit with Proteus softwaare.

550		INSTRUCTIONAL
12 401		HOURS
	Section 1	
	Introduction and Application	1
-	A B. Types of PCBs: Single Sided (Single Layer),	2 .
_	Multi-Laver (Double Layer), PCB Materials	
3	Creating a Project	2
4	Planning, Keyboard shortcuts, display options etc	2
5	Components selection and connection in Proteus	3
6	Selection of Controllers	2
7	Source meters and measurement equipment	1
X	Desirection and connections	3
	Section 2	
	Protection for basic simpler circuits	2
	Single Phase Half controlled converter with R load	2
	single Phase fully controlled bridge converter with R and	2
1.4	Shipter hase thirty to a second se	
-	half controlled bridge converter with R load	2
	AC Voltage Controller with R and RL Loads	2
1.	Single Thise Are Toring PWM control	1
1.	Single phase series inverter with R and RL loads	1
1.	Shight must series inverter	2
16.	Bacit and Boost converter Total Hou	rs =30

Recommence : Books:

L. Protects (Design Software) by Lambert M. Surhone, Miriam T. Timpledon, Susan F. VErseican, VDM Publishing, 2010.

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MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Department of Electrical and Electronics Engineering

1.	Academic Year	: 2018-2020
2.	Tile of the Course	: Electrical CAD for Beginners
3.	Objective of the Course	: To create understanding of the Electrical Cadd,
4.	Prerequisite	: Computer lab for practical class
5.	Beneficiary	: S7 Students
6.	Date and Duration of the Course	: 12/10/2019 to 02/11/2019 (30 Hours)
7.	Proposed Timing	: 09.00 AM to 04.00 PM (6 hours per every saturday)
8.	No of Hours Required	: 30 Hours
9.	Internal Resources	: Ms. Rahumath K Beeby, AP/EEE
10.	Course Registration Fees	: Nil
11.	Contents of Courses	: Enclosed Separately
12.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in practical evaluation
13.	Venue	: MANGALAM COLLEGE OF ENGINEERING

ØURSE COORDINATOR

20 HOD/ECE

Head of Department Electrical and Electronics

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PRINCIPAL MANGALAM COLLEGE OF ENGINEERING

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MANGALAM COLLEGE OF ENGINEERING Elitumencor

CERTIFICATE COURSE

Electrical CAD for Beginners

Course Objective:

- To expose the students to the basic concepts of using the powerful electrical drawing creation tools in the AutoCAD Electrical software.
- To give Working knowledge of Electrical cad.
- Student should use Electrical CAD software for Electrical project.

Course Outcomes:

- Student should Know methods of customizing AutoCAD Electrical symbols, circuits, and databases. Other topics covered include title block linking, reporting tools, templates, and project file.
- Student should Know methods of customizing AutoCAD Electrical symbols, circuits, and databases

SNO	CONTENT	INSTRUCTIONAL HOURS
3.110.	Introduction to CAD	3
1	BASIC DIAGRAM	3
2	XI PE CABLE	3
3		3
4	DC LAP WINDING	3
2	DC WAVE WINDING	3
0	DOL STARTER	3
1	CTAP DELTA STARTER	3
8	AC LAR WINDING	3
9	AC LAP WINDING	3
10 PROJECT Total Hours =30		

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MANGALAM COLLEGE OF ENGINEERING Mangalam Hills, Vettimukal p.o

Ettumanoor, Kottayam 686631

BEGINEERS

* cross platform compatibility

* easy to make templates

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Date: 12/10/2019 (30 hour course) (certificate) Organized by : Department Of Electrical

Speaker: PRIYA THOMAS

And Electronics Engineering

(Assistant Proffesor Department of Electrical And Electronics Engineering)



MANGALAM COLLEGE OF ENGINEERING DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Department of Electrical and Electronics Engineering

1.	Academic Year	: 2019-2020
2.	Tile of the Course	: LaTex for Beginners
3.	Objective of the Course	:To create understanding of the LaTeX, To understand the fundamentals of Scilab and Utilization, Development of Proficiency in English and Communication skills
4.	Prerequisite	: Nil
5.	Requirement	: S3 Class room and Computer lab lor practical class
6.	Beneficiary	: S3 Students
7.	Date and Duration of the Course	: 12.10.2019 to 09.11.2019 (30 Hours)
8.	Proposed Timing	: 09.00 AM to 04.00 PM (6 hours per every Saturday)
9.	No of Hours Required	: 30 Hours
10.	Internal Resources	: Mrs. Priya Thomas / AP (EEE)
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: S3 Classroom

COURSE COORDINATOR

OB/EEE 0

Head Of Department Electrical and Electronic

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ANGALAM COLLEGE OF ENGINEERING

MANGALAM COLLEGE OF ENGINEERING



CERTIFICATE COURSE

LaTex for Beginners

Course Objective:

- Fo expose the students to the basic concepts documentation and its importance
- To give Working knowledge of Latex typesetting language.
- Student should use Latex file to define document class and layout options.
- > Student should use various methods to either create or import graphics into Latex document
- Student should use tabular and array environments within Latex documents.

Course Outcomes:

- Student knows and how to install Latex software.
- Student learns to write equations, matrix and tables.
- Student learn to quote the references, equation references, citations.
- Student lists the figures, tables and generating index.

S.NO.	CONTENT	INSTRUCTIONAL HOURS
	Section 1	
1.	Introduction and Application	1
2.	Installation of the software LaTeX and basic MITEX	2
3.	Understanding Latex compilation Basic Syntax	2
4.	Page Layout - Titles, Abstract Chapters, Sections,	3
	References, Equation references, citation.	
5.	Classes: article, book, report, beamer, slides, IEEE tran.	2
6.	List making environments	2
	Table of contents, Generating new commands	
7.	Errors and Error handling	1
8.	Font Effects: Coloured Text, Font Sizes, Lists, Comments &	2
	Spacing, Special Characters	
	Section 2	
9.	Figure handling numbering and List of figures with Practical examples	2
10.	Tables with Practical examples	3
11.	Writing equations, Matrix, Mathematical Equations and numbering methods	4
12.	Practical on numbering and without numbering format	1
13.	Inserting References: Introduction. The BibTeX le	1
14.	Inserting the bibliography	
15.	Practical examples	2
		2
D	Total Hours	s = 30

Recommended Books:

- 1. Diller, Latex Line by Line, published by Wiley.
- 2. Introduction to Latex by Tobias Oetiker.
- 3. Patrick Daly. Natural Sciences Citations and References, 2006
- 4. Michael Doenes. Short Math Guide for Latex.

MANGALAM COLLEGE OF ENGINEERING

Course on DIGITAL MARKETING 2019 - 20



Starting on **30-08-2019**

Cordinator Mr. Siby James



DEPARTMENT OF MANAGEMENT STUDIES

PRINCIPAL IANGALAM COLLEGE OF ENGINEERING Ettumanoor

Syllabus

DIGITAL MARKETING		
MODULE 1	History of internet, concept of digital marketing, importance and benefits of digital marketing, domain name and domain extensions, digital marketing management, functioning of digital marketing in an organisation, CRM in digital marketing, paid owned and earned media.	9 hours
MODULE 2	Concept of web hosting, Fundamentals of search engines, working of search engines, paid and organic search engines, Search engine optimisation, types of SEO, meta tags and best practices.	8 hours
MODULE 3	Meaning and concept of search engine marketing, google Adwords, types of search ads, google ads structure.	6 hours
MODULE 4	Different Ad pricing models, landing pages and its type, retargeting landing pages, quality score and importance, A/B Testing.	7 hours
-		

PRINCIPAL PRINCIPAL OF ENGINEERING ANGALAM COLLEGE OF ENGINEERING Ethumanoor



Ph :+91-481-2710120, +91-481-2537053 +91-481-2533711, Fax: +91-481-2533700 Web : www.mangalam.ac.in E-mail : info@mangalam.in

-{ Approved by AICTE, Affiliated to MGU / APJ Abdul Kalam Technological University, NAAC Accredited & ISO Certified Institution)-

Consolidated Report for the Certificate Course - ETAP FAMILIARISATION

Academic Year: 2019-2020

Batch 2016-2020

Year: IV/VIII Semester

Name of the Activity	: Certificate Course
Title of the Activity	: ETAP FAMILIARISATION
Staff Incharges	: Mrs.Shoma Mani, AP/EEE
Place of the Activity	: Dept. of EEE
	Mangalam College of
	Engineering.Ettumanoor.
	PG Simulation Lab
No. of Participants	: 43
No. of Qualified	: 40
Name & Designation of Expert	: Mrs.Shoma Mani, AP/EEE
Objective of the Activity	To perform load flow analysis and short circuit analysis on given power system network using ETAP.
Outcome of the Activity	: Students understood how to do load flow analysis, short circuit on a given bus system.

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Consolidated Report for the Certificate Course - Proteus PCB Designing

Academic Year:2019-2020

Batch 2017-2021

Year: III/V Semester

Name of the Activity	: Certificate Course
Title of the Activity	: Proteus PCB Designing
Staff Incharges	: Ms. NeebaSabu, AP/EEE
Place of the Activity	: Dept. of EEE, S3 class room
	Mangalam College of
	Engineering.Ettumanoor.
No. of Participants	: 41
No. of Qualified	: 41
Name & Designation of Expert	: Ms. NeebaSabu, AP/EEE
Objective of the Activity	:This program is designed to make students capable to design their own projects PCB up to industrial grade
Outcome of the Activity	: Students were able to design basic converters and their controlling networks in Proteus

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Consolidated Report for the Certificate Course - LaTex for Beginners

Academic Year: 2019-2020

Batch 2018-2022

Year: II/III Semester

Name of the Activity	: Certificate Course
Title of the Activity	: LaTex for Beginners
Place of the Activity	: Dept. of EEE (S3 Class room)
	Mangalam College of
	Engineering.Ettumanoor.
No. of Participants	: 18
No. of Qualified	: 18
Name & Designation of Expert	: Ms. Priya Thomas, AP/EEE
Objective of the Activity	To expose the students to the basic concepts documentation and its importance andto give Working knowledge of Latex typesetting language.
Outcome of the Activity	: Students understood how to frame report and thesis, Improved their proficiency in English and communication skill

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Consolidated Report for the Certificate Course -Electrical CAD for Beginners

Academic Year:2019-2020

Batch 2016-2020

Year: IV/VII Semester

Name of the Activity	: Certificate Course
Title of the Activity	: Electrical CAD for Beginners
Staff In charges	: MsRahumathBeeby K, AP/EEE
Place of the Activity	:Mangalam College of
	Engineering.Ettumanoor.
No. of Participants	: 43
No. of Qualified	: 41
Name & Designation of Expert	: Ms. RahumathBeeby K, AP/EEE
Objective of the Activity	To expose the students to the basic concepts of Electrical drawing using Electrical CAD
Outcome of the Activity	: Students were able to understand and draw electrical diagrams using Electrical CAD

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Consolidated Report for the Certificate Course - HDL Design

Academic Year: 2019-2020 Year: II & III

Batch S4 and S6-ECE

NI- Cal A state	
Name of the Activity	: Certificate Course
Title of the Activity	: HDL Design
Staff In charges	: Prof Jyothisree K R, Assoc, Prof, ECE
Place of the Activity	: Dept. of ECE (Online)
	Mangalam College of Engineering. Ettumanoor.
	Link: Department Link
	https://meet.google.com/tpn-kdxq-ewz
	Or dial: (US) +1 337-359-2878 PIN: 489 799 733#
No. of Participants	: 47+37
No. of Qualified	: 47+37
Name & Designation of Expert	: Mr Abraham C G, Researcher, AnnaUniversity, Chennai
Objective of the Activity	Learn the fundamentals of HDL Designs
Outcome of the Activity	Participants learned theory and practiced the development of VHDL and Verilog

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Consolidated Report for the Certificate Course – 2D to 3D IC-change in trends in semiconductor IC design

Academic Year: 2019-2020 ECE Year: II and III

Batch S4 and S6-

Name of the Activity	: Certificate Course
Title of the Activity	: 2D to 3D IC-change in trends in semiconductor IC design
Staff In charges	: Prof Simi P Thomas
Place of the Activity	: Dept. of ECE (Online)
	Mangalam College of Engineering. Ettumanoor.
	Link: Department Link
	https://meet.google.com/tpn-kdxg-ewz
	Or dial: (US) +1 337-359-2878 PIN: 489 799 733#
No. of Participants	: 47+35
No. of Qualified	: 47+35
Name & Designation of Expert	: Prof Radeep Krishna R, Centre for VLSI Design, KARE
Objective of the Activity	Learn the fundamentals of VLSI Physical Design
Outcome of the Activity	Participants learned theory and practiced the development of VLSI Physical Design

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Department of Computer Science And Engineering

1.	Academic Year	: 2019-20
2.	Tile of the Course	Certification of PHP
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in PHP.
4.	Prerequisite	: Nil
5.	Requirement	: Online
6.	Beneficiary	: S4 Students
7.	Date and Duration of the Course	: 04-04-2020 to 27-4-2020
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 30 hours
10.	Internal Resources	: Ms Tinu Thomas
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: Online

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Department of Computer Science And Engineering

1.	Academic Year	: 2019-20
2.	Tile of the Course	Certificat ion of JAVA
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in JAVA.
4.	Prerequisite	: Nil
5.	Requirement	: PAN LAB
6.	Beneficiary	: S4 Students
7.	Date and Duration of the Course	: 01-02-2020 to 29-2-2020
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 30 hours
10.	Internal Resources	: Ms Divya Sb
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: PAN LAB

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Department of Computer Science And Engincering

1.	Academic Year	: 2019-20
2.	Tile of the Course	Workshop on Cyber Disease Ethical Hacking
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in Cyber Disease Ethical Hacking
4.	Prerequisite	: Nil
5.	Requirement	: Mechanical Semina Hall
6.	Beneficiary	: S8 Students
7.	Date and Duration of the Course	: 14-02-2019 to 15-02-2019
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 4 days
10.	Internal Resources	: IIT Mumbai
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: Mechanical Semina Hall

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1.	Academic Year	: 2019-20
2.	Tile of the Course	Workshop on Robotic Automation
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in Robotic Automation.
4.	Prerequisite	: Nil
5.	Requirement	: Mechanical Seminar Hall
6.	Beneficiary	: S5 Students
7.	Date and Duration of the Course	: 14-11-2019 to 16-11-2019
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	:3 days
10.	Internal Resources	: Mr Bruno Heuer/Mr Akhil B Arackal
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: Mechanical Seminar Hall

Department of Computer Science And Engineering

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Department of Computer Science And Engineering

1.	Academic Year	: 2019-20
2.	Tile of the Course	Workshop on IoT Challenge
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in IoT Challenge.
4.	Prerequisite	: Nil
5.	Requirement	: CBSE HALL
6.	Beneficiary	: S5/S7 Students
7.	Date and Duration of the Course	: 26-09-2019 to 27-09-2019
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 3 days
10.	Internal Resources	: IIT Mumbai
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
		: Those who have 80 % of Attendance
13.	Credits and Certification	and scored 60 % in internal exam
		evaluation
14.	Venue	: CBSE HALL

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Department of Computer Science And Engineering

1.	Academic Year	: 2019-20
2.	Tile of the Course	Workshop on Data Science Machine Learning
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in Data Science Machine Learning.
4.	Prerequisite	: Nil
5.	Requirement	: Mechanical Seminar hall
6.	Beneficiary	: S7 Students
7.	Date and Duration of the Course	: 30-08-2019 to 31-8-2019
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 3 days
10.	Internal Resources	: Enterpreneurship Cell, IIT Kanpur
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: Mechanical Seminar hall



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Certificate course: Heating, ventilation and Air-conditioning

Detailed Explanation of Course

Academic Year: 2019-2020

Batch: 2016-2020

Year: IV/VII Semester

The main objective of the course is to provide the students with a solid foundation in heat ventilation and air condition and make them understand the calculation for heat loss and also about duct design.

The course was offered for finalyear mechanical students of Mangalam college of engineering. The course was designed with five modules and course was conducted from 2.11.2019 to 4.01 2020.Certificate was provided with students those who have 80 % of Attendance and scored 60 % in internal exam evaluation

No of students Registered	No of Students participated	No of Students Passed	No of students Eligible for Certificate
107	107	107	107

Course Coordinator

Midhish

HOD/ME



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1.	Academic Year	: 2019-20
2.	Tile of the Course	2D Drafting & Designing of Structures
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation drawing and designing of structures
4.	Prerequisite	: Nil
5.	Requirement	: Seminar Hall
6.	Beneficiary	: S1 Students
7.	Date and Duration of the Course	:28-01-2019to 01-02-2019
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 30 Hours
10.	Internal Resources	: Mr. Sreerench Raghav (CE)
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: CADD LAB

Department of Civil Engineering

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1.	Academic Year	: 2019-20
2.	Tile of the Course	6 Day workshop on Etab& Revit architecture
3.	Objective of the Course	The main objective of the course is to provide the students with a concrete foundation in building the hierarchy of Organization and Enterprise, Scheduling the project in software, Assigning the resource and responsible to the activity.
4.	Prerequisite	: Nil
5.	Requirement	: Seminar Hall
6.	Beneficiary	: S3 Students
7.	Date and Duration of the Course	:23-07-2020to 27-03-2020
8.	Proposed Timing	9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	30 Hours
10.	Internal Resources	Ms. Aswathy Soman (CE)
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: CADD LAB

Department of Civil Engineering



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1.	Academic Year	: 2019-20
2.	Tile of the Course	3-day workshop on structural drawing using AutoCAD
3.	Objective of the Course	The main objective of the course was to provide the students with a solid foundation in advanced technologies in transportation planning and traffic system planning
4.	Prerequisite	: Nil
5.	Requirement	: Seminar Hall
6.	Beneficiary	: S3 Students
7	Date and Duration of the Course	:21-08-2020to 25-08-2020
8.	Proposed Timing	: 9.00 AM to 05.00 PM (6 hours per day)
9.	No of Hours Required	: 30 Hours
10.	Internal Resources	: Mr. Sreerench Raghav (CE)
11.	Course Registration Fees	: Nil
12.	Contents of Courses	: Enclosed Separately
13.	Credits and Certification	: Those who have 80 % of Attendance and scored 60 % in internal exam evaluation
14.	Venue	: CADD LAB

Department of Civil Engineering

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