- 6.5.3 Quality assurance initiatives of the institution include:1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements

  2. Collaborative quality initiatives with other institution(s)

  3. Participation in NIRF

  4. any other quality audit recognized by state, national or international agencies (ISO

- Certification, NBA)

Departme nt	Ye ar	Confernces, Seminars, Workshops on quality conducted	Academic Administrative Audit (AAA) and initiation of follow up action	Participa tion in NIRF along with Status.	ISO Certifica tion. and nature and validity period	NBA or any other certification received with program specifications.	Collaborative quality initiatives with other institution(s) (Provide name of the institution and activity)	Orientation programme on quality issues for teachers and students organised by the institution, Date (From-To) (DD-MM-YYYY)
Food Technolog y	20 22	Aicte Sponsored On Site International Conference	IQAC audit even Semester 2021	NA	NA		No	Future Challenging in Mobile App Devlopment (24-10-2021 to 01-11 2021)
Electronic and communic ation engineerin	20 22	Programmable Logic Controller Designing	IQAC audit even Semester 2021	NA	NA	Department of Computer science	No	Recent Advancement In Communication And Wireless Network(01-03-22 To 05- 03-22)
nt ar on quality of Technolog y Aicte Spon Internation  Electronic and communic ation engineerin g 20 Webinar Symp  petroche mical engineerin g 20 Symp  20 Webinar: 5 Computer	Webinar: Recent Treends In Waste Water Treatment Technologies	IQAC audit even Semester 2021	NA	NA	Engineering,)Departme nt of Electrical and Electronic Engineering,Departme nt of Petrochemical	No	Nil	
	National Level Technical Symposium: J-Finangles	IQAC audit even Semester 2021	NA	NA	Engineering and Department of Mechanical Engnineering (NBA	No	Nil	
		Webinar: Safety In Petrochemical Industry	IQAC audit even Semester 2021	NA	NA	Accredated in AY 2021-2022 (NBA Accredated in AY	No	Nil
computer science engineerin g	20 22	Mobile Development Application	IQAC audit even Semester 2021	NA	NA	2021-2022)	No	Nil
Petroleum engnieerin g	20 22	Outcome based education	IQAC audit even Semester 2021	NA	NA		No	Future challenges in hydrocarbon exploration as FDP (24-10-2021 to 01-112021)





#### **Department of Computer Science and Engineering**

#### 6.5.3 Quality assurance initiatives of the institution include:

Year	Confernces, Seminars, Workshops on quality conducted	Academic Administrative Audit (AAA) and initiation of follow up action	
2022	Mobile Development Application	IQAC audit even Semester 2021	

**PRINCIPAL** 

HOD/CSE





## Circular

#### **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CIRCULAR DATE:07/04/2022** 

**HOD/CSE** 

It is here by informed that the department of CSE is organizing five days Value added course on "Mobile Development Application" on 18-04-2022 to 22-04-2022 in the seminar hall. The students of Third year CSE are instructed to attend the course without fail.

#### To be noticed:

Third Year CSE

500

PRINCIPAL

#### Copy to:

- 1. Principal
- 2. All HOD's.
- 3. Department Notice Board

- 1.Introduction to mobile applications
- 2. History of mobile technology
- 3.Importance of mobile applications
- 4.Architecture of Android
- 5.User interface Layout, Controls
- 6.Event handling
- 7. Custom components in Android
- 8. Android content providers
- 9. Android notifications

### **Syllabus**

10.Location based services

HOD/CSE



#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms...PANNEER SELVAM K...
has successfully completed the certificate course
on "Mobile Application Development",
course code "CC 3601", duration 35 hours
at JCT College of Engineering and Technology, Coimbatore.

HOD

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JCT College of Engineering & Technolog
PICHANUR, COIMBATORE - 641 105.

HOD/CSE





& JCT CO	llege of I	Engineer	ing N3A	NAAC
Approved by ARTI. New Liells, Amiliated Pichanur, Chimbature - 641105 (in)	in Anna University, Cl.	onnai & Accredited	2 NAAC 23 144	Grado
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STOR	)ENT PER		Sex(M/F):	
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Department: Q.S Ema	il id:			
Mobile Number				
[Tick (√) in the relevant cell]				
Parameters	A Very good	B Good	C Satisfactory	Unsatisfactory
1.Knowledge based of the teacher(as				
perceived by you)			<b>(</b>	1
2.Communication skills (in terms of articulation and comprehensibility)				
3.Sincerity/Commitment of the teacher		1		
A Interest generated by the teacher				
5. Ability to integrate course material with environment/other issue to provide a broader perspective				
6. Ability to integrate content with other courses				
7. Accessibility of the teacher in and out of the class(includes availability of the teacher to motivate further study and discussion outside class)				
8. Ability to design quizzes/tests/assignment/examination and projects to evaluate students understanding of the course	2			
9. Provision of sufficient time for cedback	V			
0.Overall rating				

3

PRINCIPAL HOD/CSE

Marin



## STUDENT FEEDBACK

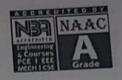
Name of the student:.	AKASH.	KUMAR	Sex(M/F):
Department:CSE	Email i	d:	
Mobile Number			
[Tick ( $\sqrt{\ }$ ) in the relevant	ant cell]		

Parameters	A Very good	B Good	C Satisfactory	D Unsatisfactory
1.Knowledge based of the teacher(as perceived by you)				
2.Communication skills (in terms of articulation and comprehensibility)	-		~	
3.Sincerity/Commitment of the teacher	/			
4.Interest generated by the teacher				
5.Ability to integrate course material with environment/other issue to provide a broader perspective	~			
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Accessibility of the teacher in and out of the class(includes availability of the teacher to motivate further tudy and discussion outside class)	~			
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77.00				
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Parameters	A Very good	B Good	C Satisfactory	Unsatisfactory
1. Knowledge based of the teacher(as perceived by you)				
2.Communication skills (in terms of articulation and comprehensibility)		/		
3.Sincerity/Commitment of the				
teacher				
4.Interest generated by the teacher	V			
5. Ability to integrate course material with environment/other issue to provide a broader perspective				
6. Ability to integrate content with	/			
7. Accessibility of the teacher in and out of the class(includes availability of the teacher to motivate further study and discussion outside class)	/			
8. Ability to design quizzes/tests/assignment/examination and projects to evaluate students understanding of the course				
). Provision of sufficient time for	/			
and bank	The second second			

10.Overall rating

**PRINCIPAL** HOD/CSE 6.5.3 Quality assurance initiatives of the institution include:

Year	Confernces, Seminars, Workshops on quality conducted	Academic Administrative Audit (AAA) and initiation of follow up action	Participation in NIRF along with Status.	Certification. and nature and validity period	 with other institution(s) (Provide name of	Orientation programme on quality issues for teachers and students organised by the institution, Date (From-To) (DD-MM- YYYY)
2022	Programmable Logic Controller Designing	Iqac Audit Even Semester 2021	NA	NA	NA	Recent Advancement In Communication And Wireless Network(01-03-22 To 05-03-22)



JCT Critical State Anna 641 105.



# JCT COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE 641 105



Department of Electronics and Communication Engineering

**CIRCULAR** 

02.11.2021

Sometie .

We are planning to conduct a five days value added course on "PROGRAMMABLE LOGIC CONTROLLER DESIGNING" from 20<sup>th</sup> November 2021 to 18<sup>th</sup> December 2021 (All Saturdays) in our department. So we kindly request all the students to participate in this course and update your technical knowledge.

JCT College of Engineering a 541 105.
PICHANUR, COIMBATORE 541 105.

HOD-ECE

## Circulation to:

• To be displayed on Notice Board.



# JCT COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE 641 105



# Department of Electronics and Communication Engineering

From,

Mr.M.Kannan

ECE department,

JCT college of Engineering and Technology,

Pichanur, Coimbatore.

To,

The principal,

JCT college of Engineering and Technology,

Pichanur, Coimbatore.

Respected sir,

Subject: Regard the permission for conducting an value added course

We are planning to conduct a five days value added course on "PROGRAMMABLE LOGIC CONTROLLER DESIGNING" from 20<sup>th</sup> November 2021 to 18<sup>th</sup> December 2021. So my humble request you to grant me permission to conduct the value added course.

Date: 02/11/2021

Place: Pichanur

Picharius CBE - 105 B

Yours sincerely,

Jos Jon

Mr.M.Kannan

AP/ECE

# PROGRAMMABLE LOGIC CONTROL

# COURSE CONTENT&ASSESSMENT

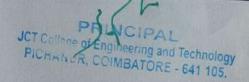
#### COURSE OUTCOMES 1.

The theory should be taught and practical should be carried out in such a manner that students are able to acquire different learning out comes in cognitive, psychomotor and affective domain to demonstrate following course outcomes. Operate PLC. i.

- Use PLC memory. ii.
- Use Boolean algebra to simplify designs. iii.
- iv. Use Ladder Logic Function and advance function for PLC programming.
- Select PLCs for relevant applications.

#### 2. COURSE CONTENT DETAILS

Unit	Major Learning Outcomes (in cognitive domain)	Topics and Sub-topics
Unit – I, PLC Overview	la. Describe principle of operation of PLC      lb. Differentiate between PLC and computer controlled systems      lc. Describe hardware components of PLC.      ld. Explain the block diagram of PLC.	Principles of operation of PLC PLC verses computer PLC hardware components Scan time of a cycle. Industrial PLC. Application of PLCs.
Unit- II PLC Memory and Logical Sensor	<ul> <li>2a. Explain different types of memories available for PLC.</li> <li>2b. Distinguish between various data files: User Bits Memory, Timer Counter Memory, PLC Status Bits, User Function Control Memory, Integer Memory, Floating Point Memory</li> <li>2c. Use addresses for locations in memory.</li> <li>2d.Distinguish between Switches, TTL, Sinking and sourcing, Connection of switch</li> <li>2e. Distinguish the various types of human/ product presence detection sensors</li> <li>2f. Select sensors for a given application.</li> </ul>	Memory Address. Program Files. Data files: User Bits Memory, Timer Counter Memory, PLC Status Bits, User Function Control Memory, Integer Memory, Floating Point Memory Sensor wiring: Switches, TTL, Sinking and sourcing, Connection of switch Human/ product Presence Detection Sensors: Reed Switch, Optical Sensor, Capacitive Sensor, Inductive Sensor





Unit- III Boolean Logic Design and Timers, Counter, Latch Concept	<ul> <li>3a. Explain logic design for a given application</li> <li>3b. Simplify designs with Boolean algebra.</li> <li>3c. Use timers, latch and counters in various designs</li> <li>3d. Use counter as per requirement Apply latch in ladder logic</li> </ul>	Boolean algebra: Rules of Boolean Algebra, Logic Design for a given application Common Logic Forms: Complex gate forms, Multiplexer. Timers: On-delay timer, Offdelay timer, Retentive timer. Counters: Up-Counters, Down-Counter, Up-Down Counter. Master Control Relay.
Unit- IV Ladder Logic Function and Advance Function	<ul> <li>4a. Explain various programme control instructions</li> <li>4b. Manipulate the data for various applications</li> <li>4c. Develop ladder logics for a particular design</li> <li>4d. Develop programmes for given applications.</li> </ul>	Data handling Function: Move Function, Mathematical Function, Conversion Function Logic Function: Comparison of Value, Boolean Function List Function: Shift registers, Stacks, Sequencer Program Control: Branching and looping.
Unit-V Selecting PLC	<ul> <li>5a. State the criteria for selection of PLC</li> <li>5b.Select right PLC for a given application.</li> <li>5c. Prepare the specifications of a PLC</li> </ul>	Analog Input – Output Module. Discrete Input – Output Module. PLC selection criteria. PLC specifications

## 3. SUGGESTED SPECIFICATION TABLE WITH HOURS AND MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours
I	PLC Overview	3
П	PLC Memory Logic Sensor	10
Ш	Boolean Logic Design and Timers, Counter, Latch Concept.	10
IV	Ladder logic function and Advance Function	9
V	Selecting PLC	3
	Total	35

**Legends:** R = Remember U = Understand; A = Apply and above levels (Bloom's revised taxonomy) **Note:** This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

JCT Chilege of Engineering and Technology PICHANUR, COIMLATORE - 641 105. CBEL 105 34

# 4. SUGGESTED LIST OF EXERCISES/PRACTICALS

The practical/exercises should be properly designed and implemented with an attempt to develop different types of skills (outcomes in psychomotor and affective domain) so that practical exercises for guidance.

S. No.	Unit No.	Practical Exercises (outcomes in Psychomotor Domain)	Approx
1	I	Demonstrate Step 7- Migro/Wings	Hours. required
2	V	Demonstrate Step 7- Micro/Win 32 and the S7-200 PLC Exposure to programming examines the function of Bit Logic Instructions.	1
3	V	Exposure to programming and it	2
4	IV	SEQUENCER.  Test and Identify different types of TIMER.  Test and Identify different types of TIMER.	2
5	IV	Test and Identify different types of TIMER.  Explore programming the country of the country different types COUNTER.	1
6	V	Explore programming examines of the Program Control Instructions.	2
7	V	Explore programming aversi	2
8	III	Identify Different types of LADDED	1
9	IV		2
9		5 sec of bulb1 on and test	2
10	IV	Develop ladder programming for a given statement -To on the bulb after 5sec of switch off. Turn the bulb2 off after the 5 sec of bulb1 on and test.	2
11	IV	Develop ladder programming for a given statement - To	2
12	IV	Develop ladder program:	
13	V	Develop ladder programming 6	2
14	IV	Develop ladder programming 6	2
15	; IV	Develop ladder programming 6	1
16	5 IV	operate three floor elevators and test.  Design a ladder to operate bottler filling plan and test  Total Hours	1
_		Total Hours	1
			26



### 5. SUGGESTED LIST OF STUDENT ACTIVITIES

Following is the list of proposed student activities such as:

- i. Prepare journals based on practical performed in laboratory.
- ii. Assignments on solving Boolean algebra.
- iii. Prepare/Download a dynamic animation to illustrate the following:
  - a) Working principle of Timer
  - b) Working principle of Counter
  - c) Working of different types Ladder logic.
- iv. Carry out a market survey of local dealers for PLC and compare them on mentioned points: (a) Rating (b) Memory (c) Cost (d) Programming language and (e) Performance
- v. Download the catalogue of PLC from websites of reputed manufacturers such as SIEMENS, FATEK, DELTA, ABB, and OMRON etc. to learn the latest developments.

#### A. List of Software/Learning Websites

- i. www.plcs.net
- ii. www.automation.siemens.com
- iii. www.abb.co.in
- iv. www.ia.omron.com

JCT College of Engineering and Technology PICHANUR, COIMBATORE - 641 105. Pichanur CUE - 105 CH

JCT

# JCT COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE-105



# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING PROGRAMMABLE LOGIC CONTROLLER DESIGNING ATTENDANCE REPORT"

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13 720	20919106006	SARANRAJ S	1	1	1	1	1	1	1	1	1	1	1	11	1/	1	1	1	1	1	1	1	11	,	1	1	11	1	1	,	1	1	1	1	1
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22 720	0918106007	DHILSHIYA M	1	1	1	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	1	1	,	1	1	1	,	1	1	7	7	1	1	1	
23 720	0918106009	GOPIKA ANAND K	1	1	1	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	1	,	-	1	1	1	7	7	1	1	1	1	1	1	Ħ
24 720	0918106010	GOPINATH L	1	1	1	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	1	7	1	7	1	1	1	1	7	1	71	1	1	1	11
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# JCT COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE-105 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



		TAY AND THE CEST OWNER.
S.N0	REGISTER No	NAME
1	720920106001	BARATH P
2	720920106002	DHANUJNAI N A
3	720920106003	JAGAMSETTY SAIKIRAN
4	720920106004	NANDHAKUMAR Y
5	720920106006	T SATHISHKUMAR
6	720920106007	STEPHEN ROY S
7	720920106009	YARRA BHANU PRAKASH
8	720920106303	SIDDARTH G
9	720919106001	FENISHA PRINCES B
10	720919106003	MALAVIKA KP
11	720919106004	MRIDULA M
12	720919106005	RAJASUBHISKSHA P
13	720919106006	SARANRAJ S
14	720919106007	VARUN N
15	720919106008	VISHNU KM
16	720919106301	ARUN.M
17	720919106302	PRAVEEN KUMAR.K
18	720918106001	ABISHA F
19	720918106003	ANOOP.R
20	720918106004	ARIF.S
21	720918106005	ARUNKUMAR S
22	720918106007	DHILSHIYA M
23	720918106009	GOPIKA ANAND K
24	720918106010	GOPINATH L
25	720918106012	JAYABHARATHI.A
26	720918106013	JERBY J J
27	720918106014	KARTHIKESWARAN R P
28	720918106015	KOYLATH ATHUL PREMARAJAN
29	720918106016	MALARKODI.R
30	720918106017	MATHEESH M
31	720918106020	MUHAMMED ANSHID.K
32	720918106021	PRIYANKA.K
33	720918106022	RAJALAKSHMI.G
34	720918106023	REJIL KRISHNAN.N.R
35	720918106024	SIVA G
36	720918106025	SREE KAVINAYA S
37	720918106026	SUBALAKSHMI.R
38	720918106027	SURIYA PRIYA.M
39	720918106028	SUSMA J V
40	720918106030	YUVARAJ M







PICHANUR | COIMBATORE | TAMILNADU

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### CERTIFICATE OF COMPLETION

This is to certify that

## **BARATH P**

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

COORDINATOR

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JCT College of Engineering and Technology



PICHANUR | COIMBATORE | TAMILNADU

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### CERTIFICATE OF COMPLETION

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## DHANUJNAI A

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COORDINATOR

JCT College of Engineering and Technology
PIGHANUR: COMBATORE: 641 105.

HOD

Pichanur CBE -105.



PICHANUR | COIMBATORE | TAMILNADU

#### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### CERTIFICATE OF COMPLETION

This is to certify that

## JANGAMSETTY SAIKIRAN

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

COORDINATOR

JCT College of Engineering and Technology
PICHANUR, COMBATORE - 641 105

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Pichanur S OBE-105



PICHANUR | COIMBATORE | TAMILNADU

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that

## NANDHAKUMAR Y

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

COORDINATOR

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PICHANUR | COIMBATORE | TAMILNADU

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CERTIFICATE OF COMPLETION

This is to certify that

# SATHISH KUMAR T

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

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PICHANUR | COIMBATORE | TAMILNADU

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that

## STEPHEN ROY S

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

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PICHANUR | COIMBATORE | TAMILNADU

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CERTIFICATE OF COMPLETION

This is to certify that

## YARRA BHANU PRAKASH

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

COORDINATOR

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Pichanur CBE - 105



PICHANUR | COIMBATORE | TAMILNADU

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### CERTIFICATE OF COMPLETION

This is to certify that

## SIDDARTH G

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

COORDINATOR

JCT College of Engineering and Jechnology.
PICHANUR, COMBATORE - 641 105

Pichanur CBE - 105



PICHANUR | COIMBATORE | TAMILNADU

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that

## FENISHA PRINCES B

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

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JCT College of Engineering and Technology PICHANUR, COIMBATORE - 641 105



PICHANUR | COIMBATORE | TAMILNADU

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

#### CERTIFICATE OF COMPLETION

This is to certify that

## MALAVIKA K P

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

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JCT College of Engineering and Technology PICHANUR, COIMBATORE - 641 105.



PICHANUR | COIMBATORE | TAMILNADU

# DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that

# **MRIDULA M**

has participated in the Value added course on "PROGRAMMABLE LOGIC CONTROLER DESIGN" at JCT College of Engineering and Technology, Coimbatore during 20.11.2021 to 18.12.2021 (5 days).

COORDINATOR

Pichanur CBE - 105

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JCT College of Engineering and Technology

JCT College of Engineering and Technology

# PROGRAMMABLE LOGIC CONTROLLER DESIGNING









# JCT COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE 641 105



# Department of Electronics and Communication Engineering

## Student Feedback

Name of the Student: DHANUJNAI - N.A Sex	(M/F):
Department: BE-ECF E-mail Changinaior agr	
Address: Muttimampallam, Kozhinjampara, Palakkadobile	8547736428
Students are required to rate the courses	
Name of the Trainer: My. Kannan	
[Tick (✓) in the relevant cell]	

	Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
1.	Knowledge base of the teacher (as perceived by you)	<i>✓</i>			
2.	Communication Skills (in terms of articulation and comprehensibility)		~		3
3.	Sincerity / Commitment of the teacher				
4.	Interest generated by the teacher				
5.	Ability to integrate course material with environment/other issues, to provide a broader perspective	~			
6.	Ability to integrate content with other courses	~		-	
7.	Accessibility of the teacher in and out of the class (includes availability of the teacher to motivate further study and discussion outside class)		V		
8.	Ability to design quizzes /tests/assignments / examinations and projects to evaluate students understanding of the course	✓ ·			
9.	Provision of sufficient time for feedback		~		
10.	Overall rating	/			





# JCT COLLEGE OF ENGINEERING AND TECHNOLOGY COIMBATORE 641 105



# **Department of Electronics and Communication Engineering**

Student Feedback

Name of the Student: Skephen Roys	South Male.
Department: -JS.E. ECE E-mail You you	999585 Domay Da
Address: Pambuppara, walayar	Mobile -7736817214
Students are required to rate the courses	
Name of the Trainer: - Mx kannan - M.	
[Tick (✓) in the relevant cell]	

Parameters	A Very Good	B Good	C Satisfactory	D Unsatisfactory
Knowledge base of the teacher (as perceived by you)	Good	~		(1)
Communication Skills (in terms of articulation and comprehensibility)	~			
3. Sincerity / Commitment of the teacher		4.0	6 1- 10	
4. Interest generated by the teacher				
with environment/other issues, to provide a broader perspective	V			
6. Ability to integrate content with other courses				
7. Accessibility of the teacher in and out of the class (includes availability of the teacher to motivate further study and discussion outside class)	~			
/tests/assignments / examinations and projects to evaluate students understanding of the course				
Provision of sufficient time for feedback		V		
. Overall rating	V			100



JCT

Pichanur Colmbatore-641105



Department of Petroleum Engineering

Date: 17-10-2021

#### **CIRCULAR**

It is hereby informed that the department of Petroleum engineering is organizing workshop on "Outcome Based Education" for all the faculty members on 21-10-2021. All faculties are instructed to attend.

#### Copy to:

- 1. Principal
- 2. All HOD's
- 3. Department Notice Board

}\_

HOD/Petroleum



#### Pichanur Colmbatore 641105

**Department of Petroleum Engineering** 



Punit 1 STEP

Date: 15-10-2021

#### From

Dr.S.VenkateshBabu

HOD of Petroleum Engineering department

JCT College of Engineering and Technology

Pichanur

Coimbatore - 641105

То

THE PRINCIPAL

JCT College of Engineering and Technology

Pichanur

Coimbatore - 641105

Respected Sir,

SUB: Requisition for organizing one day workshop -Reg.

We would like to organized one day workshop program tilted: Outcome based Education (OBE) on 21-10-2021. This program will be helpful for faculties to understand the key areas of OBE for effective teaching and preparing students for exams.

Thankyou

Yours sincerely

Dr.S.VenkateshBabu

31



#### Pichanur Colmbatore-641105

#### **Department of Petroleum Engineering**



### **Attendance sheet**

Name of the Events: Outcome Based Education

Venue: Seminar Hall

Date: 21.10.2021

SI.No.	Name of the faculty	Designation	Signatures
1	Dr.S.VenkateshBabu	Professor	A Newwite
2	Dr.K.Kumaraswamy	Associate professor	KunDard
3	Mr.K.Janardhanan	Assistant Professor	4.70000
4	Mr.V.Purushothaman	Assistant Professor	ma day
5	Miss. Kiruba M	Assistant Professor	Tall.
6	Mrs.MM Kalyani	Assistant Professor	Rang
7	Mrs. Rani V	Assistant Professor	Kers
8	Mr.Sasikumar P	Assistant Professor	Sacilla
9	Mrs.Jhansi rani V	Assistant Professor	Lun
10	Dr. V Murugesh	Associate professor	DT V CAUTE IS
11	Gnanavel G	Assistant Professor	Gune
12	Dr. M Sabrigiriraj	Associate professor	M. Bombais
13	Dr. S . Kavitha	Associate professor	Kaustla.
14	Dr. A. Kumar	Associate professor	X. Kuns
15	Dr. Issac Prem	Associate professor	Dane





#### Pichanur Coimbatore-641105



**Department of Petroleum Engineering** 

## Workshop on Outcome based education

### Feedback

Name of the participant: <u>Gasikumax</u> p	Sex(M/F):
Department: PETROLEUM ENGINEERING	E.mail: Sasikumax p 934 gmail·com
Name of the resource person: Dr. Venkata ramana	·
Rating according to:	

1. Very good 2. Good 3. Satisfactory 4. Average 5. Poor

SI.No.	Parameters	Rate
1	Quality of Presentation	9
2	Relevancy toward content	1
3	Clarity in explanation	1
4	Interaction with participants	2_
5	Concept real time applicability	2

Signature of the participant



#### ACT COLLEGE OF ENGINEERING AND TECHNOLOGY



Phonomer, Commercero - 641 105

#### TOAC - ACADEMIC AUDIT

# (File the Copperson through the starting of Secretary) DEPARMENT OF PETROLEUM ENGINEERING

Date: 12 . 41 . 241 L

	Even Semester 2021	Da		-
Aud	HOOL DA CHUENMIESH DABO AU	attorn 1	34.5	.Kamiti
-	Academic Audit (Department) Before Commenceme	nt of Same	oster	
SNa		Yes/	Me/	Remarks
1	Is Department Faculty Proble Fee updated?	Y	1	
	Is Department Non Teaching Staff Profile File updated?	N	•	
	Is Owned Own and Sullabi Available?	_ \ Y•	4_	
-	ERP entry for Class, Student, Subject, Time Table, Faculty Man	-		
4	Is Department Academic Colendar Avadable?	- Yc		
5	Is Subject Allocation Completed for Laboratory and Theory ?	×	_ك	
6	Is All Laboratory Equipments are in working condition?	Y •	1	
•	Whather all furniture evadable?(Students & Faculties)		1	
	Whether All Stationeries received from stores?	Ys	13-	
•	Is Department Budget submitted for the Current Academic Year?	_ X.a	_	
10	Whether all required consumables available for (aboratory)	Yes		
••	te Department Type Table available?			
17	to the manufactured for the Current Academic Year Sulmitted	7 3765		
-	Whether Industrial Voits/ Guest Lecture/ Workshop/ Asso. Activities and incorporated in the department calendar or not?	Y.		
14	Is Floring Int Subrutted to Exam Cell or Not?	79	1	
-	The standard of the principal ?	У.	11.5	
15	Whether Vision & Mission of college and Dept, PEO, PO,	P50 Ye	3	
17	at faculties Submitted Course Files , Log Book and re- Notebook?(If not advise the faculty to submit immediately and V	-	,	
-	U Faculties have 5 Units of Lecture Notes, Question Bank? (If	not y-	, !	2 mir

Remarks	•
Land 44 ten.	•

Suggestions by Auditori

Signature of HoD

Signature of audito

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### JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

Pirhanus, Calmbulare - 641 100

### IQAC - ACADEMIC AUDIT

(For each lasty mander in the Englandment at the post of the semester)

#### DEPARMENT OF PETROLEUM ENGINEERING

#### EVEN SEMESTER 2021

Date: 5 (4)1 1

Yea/Ho/ Remarks Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
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22	Is the sample lab record written properly?	
23	conducted experiments?	1 -
24	Is equipment available for all the experiments written in the	
25	Is the readings and model calculation checked and corrected by the staff?	-
26	is the % of error allowed verified & approved by staff expert?	
27	calculation for ready reference?	-
28	Is the staff member has previous experience in conducting the laboratory course?	-
29	is the staff member maintaining the student leave record properly and signed by the student, parent and HoD?	-
30	is the progress of the student sent to the parent?	7-3
31	entry match with individual class attendance?	YOU
32	Is the class log sheet file maintained by the class advisor?	705
33	is the tutor ward meeting held periodically?	
34	Is student counseling record available?	7-1
35	Is class committee meeting held periodically?	701
36	is class committee meeting minutes available, signed and filed?	Yes
37	Is student feedback available?	701
38	Is the staff member published any research paper?	
19	Conference etc.?	YEA
Ю	is the staff member applied any funding proposal / project?	100
	is any rab experiment designed and implemented by the crass	
2	you?	Yes
3 [	On you have specialization to handle the subjects?	Yel
4/	whether you mapped these to the courses handled?	ye,

Signalure of faculty member

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### JCT COLLEGE OF ENGINEERING AND TECHNOLOGY



#### Pichanur, Enimbatare - 643 185

#### IQAC - ACADEMIC AUDIT

(FOI each Inury member in the Department at the and of the annuated

### DEPARMENT OF PETROLEUM ENGINEERING

#### EVEN SEMESTER 2021

Date: 5/8/22

	bject Handled	Number of LOP : (2021-'22)		with the same of t		
	boratory Handled		2. 20	observious els		
		Check List for Academic Aud	1	3		
SN	•	Particulars		Yes/No/	Remarks	
1	Syllabus, Cours	n of college and Dept, PEO, PO, PSO, dividual Time Table, Students name li se data sheet, Lesson plan available?	st,	701	15.7	
₹2	Is Log book updat	ted for all the courses handled by the	Staff?	YES		
3	Is the staff adhere	es with the time table?		703		
4	is the test mark e	intered in the log book?		Yel		
5	is the portion cov	ered detailed entered in the log book	7	yes		
5	is the portion cov	ered details match with the lesson of	fn:	Act		
7	is 5 units of the si	yllabus completed with planned time		VOI		
8	Is the tutorial class problems?	ses conducted for practically solving	the	407		
9	Is content beyond taught?	syllabus details entered in log book :	end	403		
10	book?	hes & lab attendance entered in the L	4.5			
11	Is Students Lab Er properly?	ntry Register maintained and entered		-		
12	Is log book is perie	odically submitted to HoD and Princip	at?	34-3		
13	is QP with answer available?	key for internal I, II and Model tests		Ae7		
14	Is Question bank a	and previous year QP available?		,		
15	Are sample answer	r scripts (Low, Medium & High) availa	ble?	101		
16	is the answer scrip	its valued property?		7-1	_	
17	Is result analysis fo	or all the tests available?		7=1		
18	Is the test marks a matches with loc	warded – including sample answer p		10X		
-	Is the questions as completion?	ked for each test covers the syllabus		701		
177.1	available?	pment and cycle of experiment in lab				
1	Are the sample lab all the experimen	record and lab manual available inch ets?	uding	_		

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33	Is the sample lab record written properly?	154-1
23	Is there any deviation in the cycle of experiments and actually conducted experiments?	1 701
24	Is equipment available for all the experiments written in the sample record?	701
25	by the staff?	401
26	The state of the district Actilies of September 15 state of the state	
27	calculation for ready reference?	763
28	is the staff member has previous experience in conducting the	705
29	Is the staff member maintaining the student leave record properly and signed by the student, parent and HoD?	703
30	is the progress of the student sent to the narrot?	
31	entry match with individual class attendance	yoj Yoj
32	is the class log sheet file maintained by the class advises?	
22	is the tutor ward meeting held pariodically?	Yel
34	is student counseling record available?	701
<u> 35</u>	Is dass committee meeting held periodically	701
36	filed?	xel
37	Is student feedback available?	Yol
38	Is the staff member published any meant	701
39	The season member attended any EDD / Wester	
Z 🗟 🖯		-
40	Is the staff member applied any funding proposal / project?	_
41		
+2	you? You?	701
43	Do you have specialization to handle the subjects?	701
44	Are you aware of PO, PEO and PSO of the programme and whether you mapped these to the courses handled?	Yel
	to the courses handled?	70)

FIX. 7. 11 | Signature of faculty member

1/0/201

Signature of auditor

Principal

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## JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

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Dubanus, Colmbetoro - 041 101

### IQAC - ACADEMIC AUDIT

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## DEPARMENT OF PETROLEUM ENGINEERING

### EVEN SEMESTER 2021

Date: 518112

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20p	oratory Handled 1. MASS TYPER IN 2.	(1-)		
Lab	Check List for Academic Audit			
SNo	Particulars		Yes/No/ N.A.	Remark
1	Is Vision & Mission of college and Dept, PEO, PO, PSO, Cla Time Table, Individual Time Table, Students name list, Englisher, Course data short, Jesson plan available?		Yes	
2	is Log book updated for all the courses handled by the sta	7716	YES	
3	Is the staff adheres with the time table?		YEA	
4	is the test mark entered in the log book?		Yes	
-	te the partion covered detailed entered in the log book?		Yes	
~	Is the portion covered details match with the lesson plan?		Yes	
7	Is 5 units of the syllabus completed with planned time		Yes	
•	Is the tutorial classes conducted for practically solving the		Yes	
7	is content beyond syllabus details entered in log book and		Yes	
10	Is number of batches & lab attendance entered in the Log		Yes	
11	Is Students Lab Entry Register maintained and entered		Yes	
12	is ing book is periodically submitted to HoD and Principal?		Y23	
13	Is QP with answer key for internal I, II and Model tests available?		Yes	
14	Is Question bank and previous year QP available?		Vec	
15	Are sample answer scripts (Low, Medium & High) available	7	VES	
16	Is the answer scripts valued properly?		Yes	
17	is result analysis for all the tests evailable?		YES	
18	is the test marks awarded – including sample answer pape matches with log book and ERP?	rs -	Yes	
13	is the questions asked for each test covers the syllabus		Yes	
20	are the list of equipment and cycle of experiment in lab cou available?		Yes	
21	we the sample lab record and lab manual available including all the experiments?	ng	Yes	



	The short of the state of the s		
22	Is the sample lab record written properly?	Yes	
23	Is there any deviation in the cycle of experiments and actuary	You	
	Is equipment available for all the experiments written in the	Jos	
	is the readings and model calculation checked and corrected	YOJ	
26	to the % of error allowed verified & approved by stall expert	701	
e (e. "	Te the staff member has his own set of readings and	Yos	-
28	Is the staff member has previous experience in consulting	MO	
29	Is the staff member maintaining the student leave record	Yel	
30	and of the student sent to the parent	761	
31	Are the master attendance maintained and the attendance?	70)	
27	Is the class log sheet file maintained by the class advisor?	Yes	
32	Is the tutor ward meeting held periodically?	101	
33	Is student counseling record available?	Yol	_
		tut	
36	Is class committee meeting neid periodically?  Is class committee meeting minutes available, signed and filed?	Yel	
	Is student feedback available?	Yes	
3/	Is the staff member published any research paper?	no_	
39	Is the staff member attended any FDP / Workshop /	No	
40	Is the staff member applied any funding proposal / project?	NO	
41	Is any lab experiment designed and implemented by the staff?	No	
42	Is any internal experimental project for students guided by you?	40)	
-	Do you have specialization to handle the subjects?	Yol	

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Suggestions by Auditor:

Signature of faculty member

HoD

Signature of auditor

Principal



### JCT COLLEGE OF ENGINEERING AND TECHNOLOGY

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Pichanur, Colmbators - 641 105

#### TOAC - ACADEMIC AUDIT

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#### DEPARMENT OF PETROLEUM ENGINEERING

### EVEN SEMESTER 2021

Date:5|1|22

	ject Handled	Number of LOP 1 (2021-	2. (00	17 racing	9
Lab	oratory Handled	The state of the s	2.		
		Check List for Academic	Audit		4.4
SNo		Particulars	- 10/15	Yes/No/	Remarks
1	Time Table, Ind	of college and Dept, PEO, PO, I ividual Time Table, Students nat e data sheet, Lesson plan avalla	ble?	A0)	
2	Is Log book update	ed for all the courses handled by	the staff?	701	Q. (Q.)
3	is the staff adhere	s with the time table?		201	
4	is the test mark e	ntered in the log book?		701	
5	Is the portion cove	red detailed entered in the log i	oock?	Yest	
5	Is the portion cave	red details match with the lesso	u braus	YES	Љ I
7	Is 5 units of the sy	liabus completed with planned t	ime	40)	
8	Is the tutorial class	ses conducted for practically sol	-	Yest	
9	Is content beyond	syllabus details entered in log b		yes	Constitution of
10	Is number of batch	nes & lab attendance entered in		YOJ	
11	Is Students Lab En	itry Register maintained and ent		70	
12	is log book is perio	dically submitted to HoD and Pr	incipal?	401	
13	Is QP with answer	key for internal I, II and Model	rjesta .	וסך	
14	Le Question bank a	nd previous year QP available?		701	
15	Are sample agswer	scripts (Low, Medium & High)	vallable?	701	
16	te the answer serio	ts valued properly?		701	
17	te ment analysis fo	or all the tests available?		YO	v .
18	Is the test marks a	worded - including sample answ book and ERP?		YOU	
17	is the questions as	ked for each test covers the syll		Yel	
2U I	Are the list of equip	oment and cycle of experiment i		Lak	
21	Are the sample lab	record and lab manual available	Including	لعر	



35	Is the sample lab record written properly?	-	-
	Is there any deviation in the	ray	
23	conducted experiments?	A A GI	
14	sample record?	70,	
5	Is the readings and model calculation checked and corrected by the staff?		-
26	is the % of error allowed verified & approved by staff	107	+
27	calculation for mady reference?	1	+
28	is the staff member has previous experience in conducting the	701	-
29	is the staff member maintaining the student leave record properly and signed by the student, parent and HoD?	761	-
30	THE PLOYIESS OF THE STUMENT COMP TO THE TITLE	-	-
31	The title master attendance maintained and the	Ael	-
32	entry match with individual class attendance?  Is the class log sheet file maintained by the class advisor?	707	
33	Is the tutor ward meeting held periodically?	150	
34	Is student counseling record available?	701	
35	Is dass committee months but able?	701	
16	Is class committee meeting held periodically?  Is class committee meeting minutes available, signed and filed?	Lex	
		, 1	
7	Is student feedback available?	401	
8	Is the staff member published any array	701	
9	The state of the s	_	
		-	
1	Is the staff member applied any funding proposal / project?	_	
2	you? guided by	701	
	Do you have specialization to handle the subjects?	Yes	
4	Are you aware of PO, PEO and PSO of the programme and whether you mapped these to the courses handled?	70)	

Signature of faculty member

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Signature of auditor

Principal

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#### JET COLLEGE OF ENGINEERING AND TECHNOLOGY



Pakame, Carribatura - 641 509

### IQAC - ACADEMIC AUDIT

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### DEPARMENT OF PETROLEUM ENGINEERING

EVEN SEMESTER 2021

Date:5/1/22

5ub	The transfer of the Art of the Ar	7	-
.ab	oratory Handled 12. paracleson Televis July 4		
	Check List for Academic Audit		
SNo	Particulate	Yes/No/ N.A.	Remarks
1	Soliabne Conten duta suddi Passou bidd sasiustrati	Y=1	
2	is Log book updated for all the courses handled by the staff?	7-1	
3	Is the staff adheres with the time table?	'y=)	
	Is the test mark entered in the log book?	701	
3	is the portion covered detailed entered in the lag book?	401	
6	Is the portion covered details match with the lesson plan?	Yes	1
7	is 5 unes of the syllabus completed with planned time	765	
8	Is the tutorial classes conducted for practically solving the	79	
7	is content seyond syllabus details elitered in top book and taught?	70	
Ι¢ι	is number of batthes b. isb attendance entered in the Log	70	
11	Je Students Lab Entry Register maintained and antered property?	رمزر	
12	the terretainment of the state	101	
13	(s QP with answer key for internal I, II and Model tests available?	70)	
4	Is Opestion bank and previous year QP available?	Vel.	
5	Are sample answer scripts (Low, Medium & High) available?	70	
6	is the answer scripts valued properly?	Yes	
u w	Totale II and the same of the	100	
21	Is the test marks awarded - including sample enswer papers -	74)	
1.1	is the questions asked for each test covers the syllabus	7-1	
UΙ	Are the list of equipment and cycle of experiment in tab course	Je;	
1	Are the sample lab record and lab manual available including all the experiments?	γo	3



22	Is the sample lab record written properly?	Y03
23	Is there any deviation in the cycle of experiments and actually conducted experiments?	Yes
24	Is equipment available for all the experiments written in the	108
25	Is the readings and model calculation checked and corrected by the staff?	703
26	is the % of error allowed verified & approved by staff expert?	705
27	is the staff member has his own set of readings and	YES
28	is the staff member has previous experience in conducting the	Yes
29	is the staff member maintaining the student leave record properly and signed by the student, parent and HoD?	Yes
30	its the progress of the student sent to the parent?	Yes
31	Are the master attendance maintained and the attendance entry match with individual class attendance?	405
32	Is the class log sheet file maintained by the class advisor?	Yes
33	Is the tutor ward meeting held periodically?	463
34	Is student counseling record available?	Yes
35	Is class committee meeting held periodically?	Yes
35	its class committee meeting minutes available, signed and	Yes
37	Is student feedback available?	Yes .
38	Is the staff member published any research paper?	A10
39	Is the staff member attended any FDP / Workshop / Conference etc.?	Yes
40	Is the staff member applied any funding proposal / project?	<b>~</b> 0
41	Is any lab experiment designed and implemented by the staff?	A10
42	is any internal experimental project for students guided by you?	YES
43	Do you have specialization to handle the subjects?	No
44	Are you aware of PO. PEO and PSO of the programme and	Yes

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Signature of audit

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Date: 5/8/21

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#### IQAC - ACADEMIC AUDIT

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#### DEPARMENT OF PETROLEUM ENGINEERING

Nun	ulty FN PAIRS, 1410 THA SAM abor of CL I & Number of LOP I (2021-'22) Audi	lori Dr S k	
ab.	ject Handled 1. Well Completion to the American Section of the Complete Sectin	-	det galle
	Check List for Academic Audit	A CONTRACTOR OF STREET	
SNo	Particulars	Yes/No/	Remarks
1	Is Vision & Mission of college and Dept, PEO, PO, PSO, Class Time Table, Individual Time Table, Students name list. Syllabus, Course data sheet, Lesson plan available?	7*1	
2	Is Log book updated for all the courses handled by the staff?	701	1
)	Is the staff adheres with the time table?	101	* 100-1-100-100-100-100-100-1
4	Is the test mark entered in the kig book?	70.7	
5	Is the portion covered detailed entered in the kig book?	500	
6	Is the partion covered details match with the lesson plan?	701	
7	Is 5 units of the synabus completed with planned time distribution?	1/10	
	is the tutorial classes conducted for practically solving the		

Is content beyond syllabus details entered in log book and

Is number of batches & lab attendance entered in the Log

Is Students Lab Entry Register maintained and entered

12 Is log book is periodically submitted to HoD and Principal?

13 Is QP with answer key for internal 1, II and Model tests

15 Are sample answer scripts (Low, Medium & High) available?

18 Is the test marks awarded - including sample answer papers

20 Are the list of equipment and cycle of experiment in lab course

21 Are the sample tab record and lab manual available including

Is the questions asked for each test covers the syllabus

14 Is Question bank and previous year QP available?

16 is the answer scripts valued properly?

17 Is result analysis for all the tests available?

matches with log book and ERP?



problems?

taught?

book?

property?

available?

completion?

Suldalinua?

all the experiments?

19

2	The second to the second written property	_		
2	Is there any deviation in the cycle of experiments and actually conducted experiments?			
	conducted experiments?	Y	_	
3	is equipment available for all the experiments written in the sample record?	-	-	
2	by the stam?	1 -		
20	the work of the district of the state of the	-	-	
27	calculation for ready references			
28	ls the staff member has previous experience in conducting the laboratory course?	-		
29	Is the staff member maintaining the student leave record properly and signed by the student, parent and the Da	y • 3	-	
30	is the progress of the student sent to the parties?	-	-	
31	are the master attendance maintained and the attendance entry match with individual class attendance?	107		
33	is the class log sheet file maintained by the class address	1,07	-	
33	is the futor ward meeting held periodically?	201	-	
34	is student counseling record available?	AEI		
35	Is class committee meeting held periodically?	70		
36	Is class committee meeting minutes available, signed and flied?	701		
37	The standard desired the standard of the stand	101		
38	Is the staff member published any research name.	1.00		
39	Conference etc.?	-		
40	Is the staff member applied any function proposal ( and )			
-	and the experiment designed and implemented by he			
12	The state of the s	-		
-		101		
13	Do you have specialization to handle the subjects?	-	-	
4	Are you aware of PO, PEO and PSO of the programme and whether you mapped these to the courses handled?	Yes		

Signature of faculty member

MARGO TINION

Signature of autom

Krincipal

- 6.5.3 Quality assurance initiatives of the institution include:
- 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements
- 2. Collaborative quality intitiatives with other institution(s)
- 3. Participation in NIRF
- 4 .any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

Academic Administra tive Audit (AAA) and initiation of follow	Participation in NIRF along with Status.	ISO Certification. and nature and validity period	NBAor any other quality
up action			
yes	yes	yes	yes