1.2.2 Number of Add on /Certificate programs offered during the year

1.2.3 Number of students enrolled in Certificate/ Add-on programs as against the total number of students during the year

Dept	Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the year	Duration of course in Hours	Number of students enrolled in the year	Number of Students completing the course in the year
Civil	AutoCAD		2023-2024	1	14	25	25
Civil	Primevera		2023-2024	1	45	5	5
CSE	Phython with Machine Learning	IVA018	2023-2024	1	30	51	50
CSE	Cyber Security - Palo alto		2023-2024	1	14	89	89
ECE	IOT Using Arduino (ODD)	IVA067	2023-2024	1	40	25	23
ECE	Internet of Things (ODD)		2023-2024	1	40	26	13
ECE	Electric Vehicle (ODD)		2023-2024	1	40	1	1
EEE	Electric Vehicle (ODD)		2023-2024	1	40	12	12
EEE	Electric Vehicle (ODD)	EVA033	2023-2024	1	40	16	16
IT	VAC- AU-Advanced Phython with Machine	IVA018	2023-2024	1	30	53	53
MECH	MV022-Introduction to Multibody dynamics	MVA022	2023-2024	1	30	38	38
CSBS	IBM-COGNOS(EVEN)		2023-2024	1	40	19	19
AIDS	IBM-COGNOS(EVEN)		2023-2024	1	40	29	29
CSE	java		2023-2024	1	45	76	76
MECH	TANSEM		2023-2024	1	30	19	19
ECE	TVS		2023-2024	1	30	48	48
1st year	PYTHON		2023-2024	1&2	45	277	220
No of Course	15				Total No of Students	809	736

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Sipcot - IT Highway Egattur,
Chenai - 603103.

TO WHOMSOEVER IT MAY CONCERN

This is Certify that the number of course enrolled in subject related Certificates or Add-on programs during the academic year 2023-2024 is 15

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No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

From

Department of Training & Placement,

MSAJCE

To

The Principal,

MSAJCE

Respected Sir,

Permitted

Sub: Permission to conduct CAD Training Program- Reg

As we have planned for CAD training program by Petricore Technologies on (20.12.23 & 21.12.23) for the Second year students of Mechanical, Civil and EEE Department, so in this regard we need to make some arrangements for the training, they are

- Tea to be provided in college at 10:30 AM

- Centre for CAD/CAM.

So kindly provide the necessaries for the same

Thank You

Date: 18.12.23

Place: Chennai

Yours faithfully

Head Training and Placement

Head - Placement
Mohamed Sathak A.J. College of Engineering
Siruseri IT Park, Chennai - 603 103.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING

DEPARTMENT OF TRAINING & PLACEMENT

PETRICORE CAD TRAINING [20.12.23-21.12.23]

S.No	REG.NO	NAME	DEPT	20.12.23		21.12.23	
				FN	AN	FN	AN
1	311822114001	K.ABDUL RAHUMAN	MECH				
2	311822114002	AHAMED SUHAIB A	MECH		AB		
3	311822114007	BUHARI NAVEETH.M	MECH				
4	311822114008	DINESH KUMAR.S	MECH	AB	AB	AB	AB
5	311822114009	FAISAL .M	MECH				
6	311822114013	MOHAMED IRFAN.J	MECH				
7	311822114014	MOHAMMED SARHAN. K	MECH				
8	311822114015	MOHAMED UBAIS. J	MECH				
9	311822114017	MOHANA SUNDARESHWAR.A	MECH				
10	311822114019	G.SULTHAN MASHUD	MECH	AB	AB	AB	AB
11	311822114022	NIYAZ AHAMED. M	MECH				
12	LE	MANOHAR.C	MECH				
13	LE	MOHAMED AATHIF.R	MECH				
14	311822105001	M.HARISHADHITYA	EEE		AB		
15	311822105002	A.MOHAMED HALITH	EEE				
16	311822105003	A.MOHAMED HARIS	EEE				
17	311822105004	B.MOHAMED SUBAIR	EEE	AB	AB		
18	311822105005	J MOHAMED SUHAIL	EEE				
19	311822105007	M A UMAR FARUK	EEE				
20	311822105301	MOHAMED JAFFAR M	EEE				
21	311822105302	MOHAMED NADEEM M	EEE				
22	311822103001	KAMALESH.J	CIVIL				
23	311822103002	MOHAMED NIYAS.A	CIVIL				
24	311822103003	RAHMAN KHAN.R	CIVIL				
25	311822103004	SYED MASTHAN.S.A	CIVIL				

MOHAMED SATHAK
A.J. COLLEGE OF ENGINEERING
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.
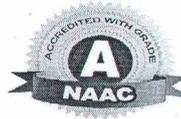
Department of Training and Placement

Training Programs conducted AY2023-24 Odd Semester

2D Modelling using CAD – Petricore Technologies

Siruseri, Tamil Nadu, India
IT Park Road, OMR, 34, SH 49A, Siruseri, Tamil Nadu 603103, India
Lat 12.83569°
Long 80.219116°
20/12/23 10:42 AM GMT +05:30

Siruseri, Tamil Nadu, India
Mohamed Sathak Campus Rd, Siruseri, Tamil Nadu 603103, India
Lat 12.835779°
Long 80.218541°
21/12/23 12:41 PM GMT +05:30

Siruseri, Tamil Nadu, India
Mohamed Sathak Campus Rd, Siruseri, Tamil Nadu 603103, India
Lat 12.835779°
Long 80.218541°
21/12/23 12:40 PM GMT +05:30

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

From,

Department of Training and Placement,

MSAJCE,

To,

The Principal,

MSAJCE

Respected Sir,

Sub: Permission to conduct a Placement Training – Reg

    As we planned to conduct the placement training on PRIMEVERA by Petricore Technologies Powered by AUTODESK at the Office at Velachery for our college Third Year CIVIL Placement Registered students from April 10/04/2024 – 27/04/2024. Kindly provide permission to conduct the training and Usage of CAD LAB and do the needful.
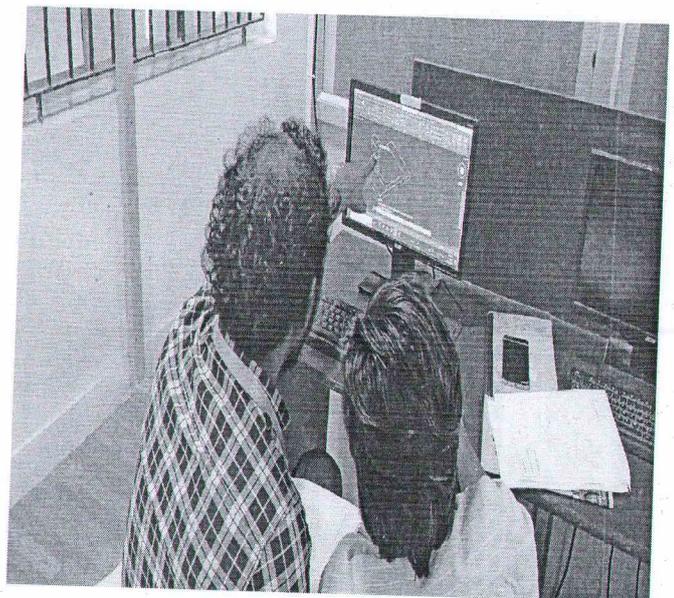
Thanking You

Chennai,

02/04/2024

Yours Faithfully,

Head Training

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
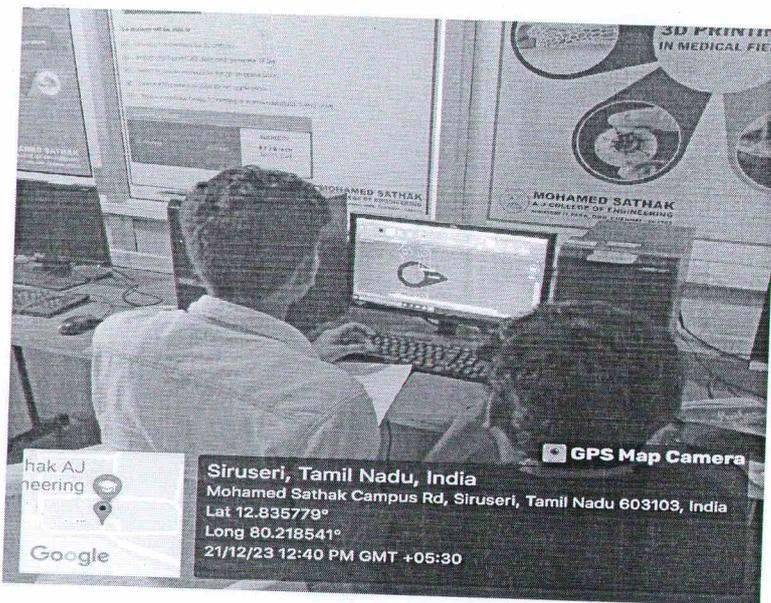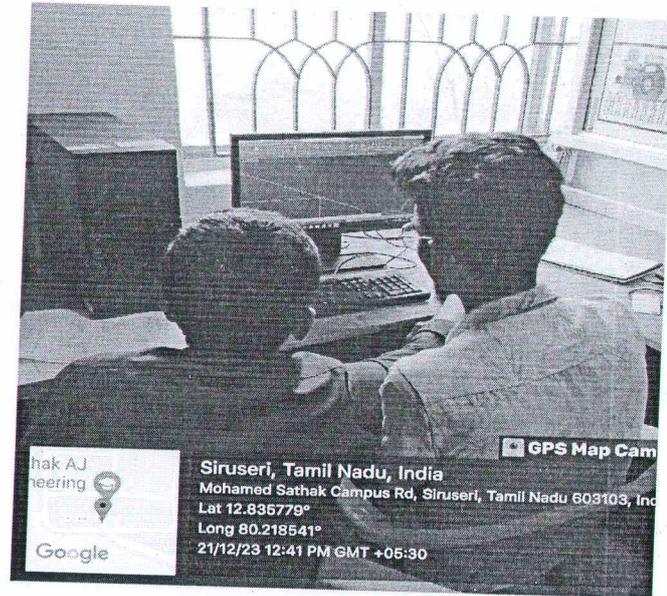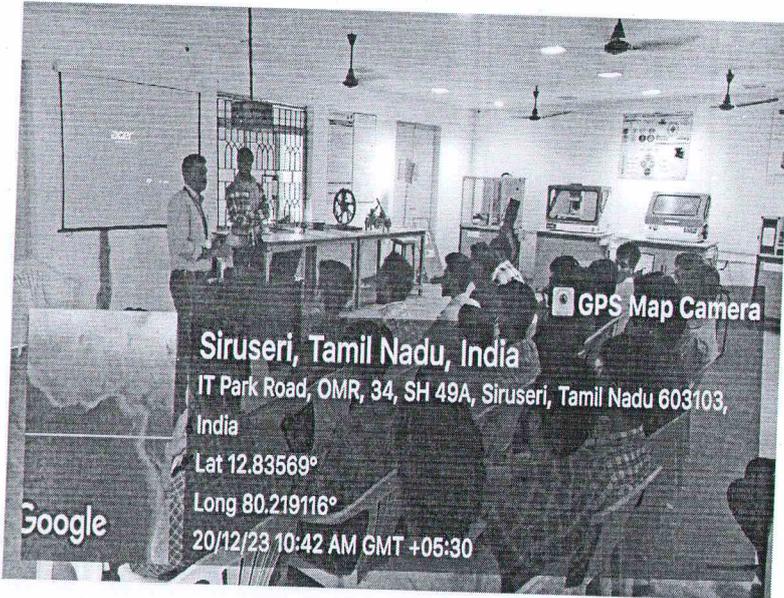Sipcot - IT Highway Egattur,
Chennai - 603103.

Department of Training and Placement

Ref NO: MSAJCE/P&T/02/04

Date: 02/04/2024

CIRCULAR

This is to inform to placement registered students As we planned to conduct the placement training on PRIMEVERA by Petricore Technologies Powered by AUTODESK at the Office at Velachery for our college Third Year CIVIL Placement Registered students from April 10/04/2024 – 27/04/2024. All are advised to attend the training properly without fail attendance is mandatory.

Copy To,

The Principal

All HOD

IQAC

Yours faithfully

Head Training

PRINCIPAL

Mohamed Sathak A.J. College of Engineering

No.34, Rajiv Gandhi Salai (OMR)

Sipcot - IT Highway Egattur,

Chenai - 603103.

Curriculum for
PRIMAVERA 6.0 (Foundation)
(2hrs Theory & 2hrs Practical per day)

Duration: 40 hrs

DAY 1	4 Hrs	Theory	Practical
Introduction: About Projects , Manual Solving CPM & PERT, Program, Portfolio, Project Management ,Project management Process, Project planning software's. About Primavera. Primavera Project management, Features in Primavera.			

DAY 2	4 Hrs	Theory	Practical
Customer Care PPT. **Organizational Breakdown Structure(OBS):** Different views TO create new OBS, Restrictions **Enterprise Project Structure (EPS):** Different views. To create new, Assigning the new Project manager, Difference between EPS&OBS. **Projects:** Overview of the Project, Creation of new Project through wizard, Creation of new project through details.			

DAY 3	4 Hrs	Theory	Practical
Calendar: Types of calendars (Global, Resource, Project), New calendar, Modification, Copying holyday from global calendar, Making a Project or Resource Calendar as global, Assigning a calendar as default calendar for the projects. **Work Breakdown Structure (WBS):** Defining Structure, Applying WBS for tasks. **Activities:** Entering activity through wizard, Entering activities through details, Explore the use of duration format including subunit. **Columns:** Inserting a new column, Moving the Columns.			

DAY 4	4 Hrs	Theory	Practical
Scheduling a Project: Different kind of relationship between tasks, Different methods of linking , estimating the Project finish date, Identifying the project critical path, Editing the task links. Applying different calendars to activities & Estimating the finish date. Relationship Types, Lag & Lead, Time scale adjustments, Gantt chart, Activity Network Diagram, Trace logic, **Activity Codes:** Code definition, Assigning Code and Organizing . **Project Codes:** Code definition, Assigning code and Organizing.			

DAY 5	4 Hrs	Theory	Practical
Activity types, Activity Steps. **Constraints:** constraints in a Project. Different types of Constraints, Use of Secondary Constraint. **Work Products & Documents:** Defining Wps & Docs. Assigning it for activities. **Currency:** To change the currency ,To Create new currency , Setting exchange rate, To find the rate of project in another currency value			

DAY 6	4Hrs	Theory	Practical
Roles: Importance of Roles, Defining the roles, Giving rates for the roles. **Resource Sheet Preparation:** Defining Resource through Wizard, Defining Resource through detail,To create New unit of measure for materials. **Resource Assigning:** Through add roles, Through add resources, Giving different rate which has mentioned either in resource or role. **Check students Registration status.**			

DAY 7	4Hrs	Theory	Practical
Rate Types, Rate Source, Expenses. **Resource Analysis:** Resource Usage Profile & Resource Usage Spread Sheet. **Resource Curves, Resource Leveling:** Concepts of Stretching, Crunching & Splitting – Manual, Automatic Leveling.			

DAY 8	4 Hrs	Theory	Practical
Resource Codes: Code Definition, Assigning Code and Organizing. **Cost Accounts, Updating Progress:** Entering Actual Start & Actual Finish date for Tasks, Updating through Duration, Updating through Physical, Updating through Units, Cost Updating. **Calculating Earned Value Analysis, Formatting Bars, Tracking.**			

DAY 9	4 Hrs	Theory	Practical
Filter, Global Change, Layouts, Page Setup, User Defined Fields. **Thresholds:** Adding a Threshold, Monitor the Threshold. **Issues:** Adding Issues. **Risks:** Adding risks, Calculate Risk Impact.			

DAY 10	4 Hrs	Theory	Practical
Reports: Tabular, Graphical. **Import / Export, Methodology Management.**			

Date	Student Name	Topic	Student Signature	Trainer Signature
16.4.2024	SANDESH KUMAR. K MD. HAROON S. SHANMUGAM.	Day 1	K. sandesh N. null B. ghott	P. Bot
17.04.2024	SANDESH KUMAR. K. MD. HAROON S. SHANMUGAM	Day 2	K. samy N. md S. Sh	P. Bot
18.09.2024	SANDESH KUMAR. K S. SHANMUGAM. MD. HAROON	Day 3	K. both. S. sh N. mld	P. Bot
23.04.2024	SANDESH KUMAR. K MD. HAROON S. SHANMUGAM.	Day 4	K. sandi N. mld S. sh	P. Bot
25.04.2024	SANDESH KUMAR. K MD. HAROON S. SHANMUGAM	Day 5	K. Sandesh N. Mohd S. S	P. Bot
26.04.2024	SANDESH KUMAR. K MD. HAROON S. SHANMUGAM.	Day 6	K. sandy N. mld	P. Bot
29.04.2024	SANDESH KUMAR. K MD. HAROON S. SHANMUGAM.	Day 7	K. Sandy N. mohd S. sh	P. Bot

Date	Student Name	Topic	Student Signature	Trainer Signature
16.4.2024	Mohomed Kaif.n A Mohamed Faizal	Day 1		P. Bof
17.04.2024	Mohomed kaif.m A. Mohamed Faizal	Day 2		P. Bof
18.04.2024	mohamed kaif.m A. Mohamed Faizal	Day 3.		P. Bof
23.04.2024	Mohomed kaif.M A. MOHAMED FAIZAL	Day 4		P. Bof
25.04.2024	Mohamed kaif.m A Mohamed Faizal	Day 5		P. Bof
26.04.2024	mohamed kaif.m A. Mohamed Faizal	Day 6		P. Bof
27.04.2024	mohamed kaif.m A. Mohamed Faizal	Day 7		P. Bof
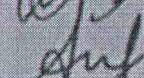
MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

VALUE ADDED COURSE - COURSE CONTENT

Department of Computer Science and Engineering

Class : IV/VII

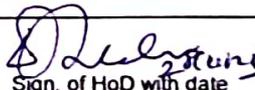Academic Year 2023-24

Name of the Value Added Course	Advanced Python and Introduction to Machine Learning	Name of the handling Faculty	Mr Mohsideen AbdulKader M

Course Objective

1 To expose students with the basics of managing the Numpy

2 To explore the various analysis of Pandas

3 To examine the basic of Plotting and Visualization

4 To understand the overview of Object Oriented Programming Concepts

5 To understand the Machine Learning concepts

Course Outcome

1 Explain the different Numpy functions

2 Build the applion on Pandas functions

3 show the Plotting and Visualization

4 Devlop the Object Oriented Programming

5 judge the Machine Learning concepts

Lesson Plan for VAC

Sl. No.	Topic	T / R* Book	Periods Required	Mode of Teaching
1	Creating Arrays-Numpy Data Types	T1	1	PPT
2	Array Mathematics-Array Manipulation	T1	1	PPT
3	Subsetting, slicing , Indexing-boolean	T1	1	PPT
4	Indexing-Array Manipulation	T1	1	PPT
5	Reshaping,Transposing	T1	1	PPT
6	Splitting and combining arrays	T1	1	PPT
7	Inspecting Array and aggregation array.	T1	1	PPT
8	Series-Dataframe	T1	1	PPT
9	Importing pandas- Dictionary into data frames	T1	1	PPT
10	Read and write to CSV and excel	T1	1	PPT
11	Selecting boolean indexing	T1	1	PPT
12	Setting, dropping,soring,filling missing values	T1	1	PPT
13	Getting dataframe information and retrieving series.	T1	1	PPT
14	Summary and applying lambda function	T1	1	PPT
15	Figures-Subplot-Colors _ markers	T1	1	PPT

			T1	1	PPT
16	Line styles-ticks-Labels		T1	1	PPT
17	legends -drawing subplots		T1	1	PPT
18	Line Plotbarplot -Scatter plot		T1	1	PPT
19	histograms		T1	1	PPT
20	OOPS concepts		T1	1	PPT
21	creating class-Object		T1	1	PPT
22	accessing class members		T1	1	PPT
23	inheritance		T1	1	PPT
24	Abstract class		T1	1	PPT
25	Introduction to Machine Learning		T2	1	PPT
26	Kmeans Clustering		T2	1	PPT
27	Types of learning		T2	1	PPT
28	Supervised		T2	1	PPT
29	unsupervised		T2	1	PPT
30	Hierarchical Clustering.		T2	1	PPT

Quiz / Mini Projects / Model Develpoed if any

Text / Reference Books

1	Python Crash Course: A Hands-On, Project-Based Introduction to Programming (2nd Edition)
2	Kevin Night and Elaine Rich, Nair B., "Artificial Intelligence (SIE)", McGraw Hill- 2008
3	

Website / URL References

1	Peter Jackson, "Introduction to Expert Systems", 3rd Edition, Pearson Education, 2007.
2	Stuart Russel and Peter Norvig "AI – A Modern Approach", 2nd Edition, Pearson Education 2007
3	

Sign. of Course Coordinator

Sign. of HoD with date   Head-TC

MOHAMED SATHAK A J COLLEGE OF ENGINEERING
Department of Computer Science and Engineering
VALUE ADDED COURSE
IVA018 Advanced Pyhton and Introduction to Machine Learning
TIMETABLE

Sno	Date & Hr	Topic Covered
1	27.07.23 (3,4)	Creating Arrays-Numpy Data Types
2	27.07.23 (3,4)	Array Mathematics-Array Manipulation
3	03.08.23 (3,4)	Subsetting, slicing , Indexing-boolean
4	03.08.23 (3,4)	Indexing-Array Manipulation
5	10.08.23 (3,4)	Reshaping,Transposing
6	10.08.23 (3,4)	Splitting and combining arrays
7	17.08.23 (3,4)	Inspecting Array and aggregation array
8	17.08.23 (3,4)	Series-Dataframe
9	24.08.23 (3,4)	Importing pandas- Dictionary into data frames
10	24.08.23 (3,4)	Read and write to CSV and excel
11	02.09.23 (3,4)	Selecting, boolean indexing
12	02.09.23 (3,4)	Setting, dropping,soring,filling missing values
13	07.09.23 (3,4)	Getting dataframe information and retrieving series
14	07.09.23 (3,4)	Summary and applying lambda function
15	14.09.23 (3,4)	Figures-Subplot-Colors _ markers
16	14.09.23 (3,4)	Line styles-ticks-Labels
17	14.09.23 (3,4)	legends -drawing subplots,Line Plotbarplot -Scatter plot
18	21.09.23 (3,4)	Assessment I
19	28.09.23 (3,4)	Histograms
20	28.09.23 (3,4)	OOPS concepts
21	05.10.23 (3,4)	creating class-Object
22	05.10.23 (3,4)	accessing class members
23	05.10.23 (3,4)	Inheritance
24	12.10.23 (3,4)	abstract class
25	12.10.23 (3,4)	Introduction to Machine Learning
26	19.10.23 (3,4)	types of learning
27	19.10.23 (3,4)	Supervised
28	19.10.23 (3,4)	unsupervised
29	19.10.23 (3,4)	Kmeans Clustering,Hierarchical Clustering
30	26.10.23 (3,4)	Assessment II

Faculty In-Charge

HOD

MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Department of Computer Science and Engineering

VALUE ADDED COURSE

IVA018 Advanced Pyhton and Introduction to Machine Learning

TIMETABLE

Sno	Date & Hr	Topic Covered
1	27.07.23 (3,4)	Creating Arrays-Numpy Data Types
2	27.07.23 (3,4)	Array Mathematics-Array Manipulation
3	03.08.23 (3,4)	Subsetting, slicing , Indexing-boolean
4	03.08.23 (3,4)	Indexing-Array Manipulation
5	10.08.23 (3,4)	Reshaping,Transposing
6	10.08.23 (3,4)	Splitting and combining arrays
7	17.08.23 (3,4)	Inspecting Array and aggregation array
8	17.08.23 (3,4)	Series-Dataframe
9	24.08.23 (3,4)	Importing pandas- Dictionary into data frames
10	24.08.23 (3,4)	Read and write to CSV and excel
11	02.09.23 (3,4)	Selecting, boolean indexing
12	02.09.23 (3,4)	Setting, dropping,soring,filling missing values
13	07.09.23 (3,4)	Getting dataframe information and retrieving series
14	07.09.23 (3,4)	Summary and applying lambda function
15	14.09.23 (3,4)	Figures-Subplot-Colors _ markers
16	14.09.23 (3,4)	Line styles-ticks-Labels
17	14.09.23 (3,4)	legends -drawing subplots,Line Plotbarplot -Scatter plot
18	21.09.23 (3,4)	Assessment I
19	28.09.23 (3,4)	Histograms
20	28.09.23 (3,4)	OOPS concepts
21	05.10.23 (3,4)	creating class-Object
22	05.10.23 (3,4)	accessing class members
23	05.10.23 (3,4)	Inheritance
24	12.10.23 (3,4)	abstract class
25	12.10.23 (3,4)	Introduction to Machine Learning
26	19.10.23 (3,4)	types of learning
27	19.10.23 (3,4)	Supervised
28	19.10.23 (3,4)	unsupervised
29	19.10.23 (3,4)	Kmeans Clustering,Hierarchical Clustering
30	26.10.23 (3,4)	Assessment II

Faculty In-Charge

HOD

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Department of Computer Science and Engineering

VALUE ADDED COURSE

IVA018 Advanced Pyhton and Introduction to Machine Learning

S.No	Registration Number	Name of the Student	Assessment 1 (50)	Assessment 2 (50)	Mini Project (20)
1	311820205001	ABDULLAH	26	26	15
2	311820205002	ABDUL SHUKOOR NAFEES. M	40	39	15
3	311820205003	ABIRAMI V	43	38	16
4	311820205005	AISHWARYA. R	45	42	16
5	311820205006	ANAS AHAMED. A	30	30	16
6	311820205007	ARUNKUMAR	29	36	16
7	311820205008	BOOBALAN V	28	32	14
8	311820205010	IMAAM JAFFAR J	42	28	18
9	311820205011	JAASIR AHAMED AJ	38	36	18
10	311820205012	JAMEERUDEEN .F	39	41	18
11	311820205014	KEERTHANA S	38	35	16
12	311820205015	LAVANYA.S	36	38	18
13	311820205016	MANISH KUMAR.A	40	41	16
14	311820205017	MOHAMED AFSAR.M	38	38	16
15	311820205018	MOHAMED ASIF. H	30	31	16
16	311820205019	MOHAMED GHAZALI. P	30	34	14
17	311820205020	MOHAMED SIDIQ.I	30	30	14
18	311820205021	MOHAMMED AFRITH .R	39	38	18
19	311820205022	MOHAMMED FARHAN S M	35	40	18
20	311820205023	MOHAMMED FUYUJUR RAHMAN	30	29	16
21	311820205024	MOHAMMED HASHIR HASAN K	45	42	16
22	311820205025	MUBARAK ALI.J	39	41	15
23	311820205026	MUHAMMED MIDLAJ A.C	32	38	15
24	311820205027	NANDHINI.R	28	38	18
25	311820205028	PACKEER MOIHDEEN FAHEEM . S	28	38	18
26	311820205029	PAVITHRAA S	38	29	16
27	311820205030	POOVARASAN R	35	35	16
28	311820205031	PRABHA. M	35	32	15
29	311820205032	PRAMOTH M	32	36	15
30	311820205033	PUNNIYAKOTTI. S	48	45	18
31	311820205034	RAFIQ SHERIFF S	40	35	18
32	311820205035	RAHIMUNNISA S	38	38	14
33	311820205036	RAJESH. R	42	31	14
34	311820205037	REVATHI.U	35	36	18
35	311820205040	SALAAHUDDEEN FAKHRUDDIN ISMAIL	28	34	13
36	311820205041	SEYED MOHAMED BUHARY M.H	30	30	13
37	311820205042	SHALINI.M	30	34	16
38	311820205043	SIVAPRAKASAM. N	25	31	16

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Department of Computer Science and Engineering

VALUE ADDED COURSE

IVA018 Advanced Pyhton and Introduction to Machine Learning

S.No	Registration Number	Name of the Student	Assessment 1 (50)	Assessment 2 (50)	Mini Project (20)
1	311820205001	ABDULLAH	26	26	15
2	311820205002	ABDUL SHUKOOR NAFEES. M	40	39	15
3	311820205003	ABIRAMI V	43	38	16
4	311820205005	AISHWARYA. R	45	42	16
5	311820205006	ANAS AHAMED. A	30	30	16
6	311820205007	ARUNKUMAR	29	36	16
7	311820205008	BOOBALAN V	28	32	14
8	311820205010	IMAAM JAFFAR J	42	28	18
9	311820205011	JAASIR AHAMED AJ	38	36	18
10	311820205012	JAMEERUDEEN .F	39	41	18
11	311820205014	KEERTHANA S	38	35	16
12	311820205015	LAVANYA.S	36	38	18
13	311820205016	MANISH KUMAR.A	40	41	16
14	311820205017	MOHAMED AFSAR.M	38	38	16
15	311820205018	MOHAMED ASIF. H	30	31	16
16	311820205019	MOHAMED GHAZALI. P	30	34	14
17	311820205020	MOHAMED SIDIQ.I	30	30	14
18	311820205021	MOHAMMED AFRITH .R	39	38	18
19	311820205022	MOHAMMED FARHAN S M	35	40	18
20	311820205023	MOHAMMED FUYUJUR RAHMAN	30	29	16
21	311820205024	MOHAMMED HASHIR HASAN K	45	42	16
22	311820205025	MUBARAK ALI.J	39	41	15
23	311820205026	MUHAMMED MIDLAJ A.C	32	38	15
24	311820205027	NANDHINI.R	28	38	18
25	311820205028	PACKEER MOIHDEEN FAHEEM . S	28	38	18
26	311820205029	PAVITHRAA S	38	29	16
27	311820205030	POOVARASAN R	35	35	16
28	311820205031	PRABHA. M	35	32	15
29	311820205032	PRAMOTH M	32	36	15
30	311820205033	PUNNIYAKOTTI. S	48	45	18
31	311820205034	RAFIQ SHERIFF S	40	35	18
32	311820205035	RAHIMUNNISA S	38	38	14
33	311820205036	RAJESH. R	42	31	14
34	311820205037	REVATHI.U	35	36	18
35	311820205040	SALAAHUDDEEN FAKHRUDDIN ISMAIL	28	34	13
36	311820205041	SEYED MOHAMED BUHARY M.H	30	30	13
37	311820205042	SHALINI.M	30	34	16
38	311820205043	SIVAPRAKASAM. N	25	31	16

No	Reg No	Name			
			42	41	14
		SUBRAJAN V	40	39	14
		SYED ABBAS AFRHAM	48	46	16
		SYED ABBAS ALI	30	28	16
		SYED ALEN	43	39	18
		SYED ANEES A	40	38	14
		VISHALA	38	AB	14
		ZAMIR A	28	28	16
		ABUL ACLES SHABIR	30	38	15
		ABDUL HASSAN HACHKANI SAHIB	AB	36	16
		MAGUSRAJ	36	35	16
		HARISIER	28	26	13
		KRISHNA KUMAR	35	35	15
		MOHAMED RIYAZ	AB	AB	18
		SANTHOSH	AB	AB	AB
		SASI KUMAR	35	38	14
		HEMOHREYLS S	28	26	14
		VINEETH			

Faculty - Incharge

HoD / IT

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

ANNA UNIVERSITY :: CHENNAI - 600025.
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Inst.Code/Name : 3118 - MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING   Semester No. : 07   DATE OF PUBLICATION :23-04-2024

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	CS8079 Grade	CS8711 Grade	CS8791 Grade	CS8792 Grade	IT8761 Grade	IVA018 Grade	MG8591 Grade	OMF751 Grade	SB8049 Grade
311819104017	HYDER ALI M								B+	
311819104020	MOHAMED AADIL A								B+	
311820104001	ABDUL KADAR JAILANI J	B+	A+	B	U	A+	B	B	B+	O
311820104002	ABINAYA BHARATHI M	A	O	A	U	O	B+	A	A	O
311820104003	ABISH K	U	A+	B	U	A	B	B	B+	A
311820104004	ABRAR MUSHARRAF P	A	O	A	A	O	B+	A	A	O
311820104005	ALTHAF J	B+	O	B	B	O	B+	B+	A	O
311820104006	ARSATH KHAN A	U	A+	U	U	A+	B	B	B	A+
311820104007	ARSHAD AHMED M Y	B	A+	U	B	A+	B	B+	A	A+
311820104008	ARUN G	B	O	B	B	O	B+	A	B+	O
311820104009	AYSHA THASLIM A	A	O	B+	A	O	B+	A+	A	O
311820104010	DILIPAN D G	B+	O	B	B	O	B+	A	B	B+
311820104011	ELANGO V	A	O	B+	B+	O	B+	A	A	O
311820104013	IMRAAN H	A	O	B+	B+	O	B+	B+	B+	A
311820104014	JALEEL AHAMED K	U	A+	B	U	A	B	A	B+	A
311820104015	KARAN R	B+	O	A	B	O	B	A	B	O
311820104016	LALITH ADITHYAN H	B+	O	A	B+	O	B+	A+	A	A+
311820104017	MOHAMED ABDUL KALAM S	B	A+	B	B	A+	B+	B	U	O
311820104018	MOHAMED ASIQ ALI A	A	O	B	B	O	B+	A	UA	A+
311820104019	MOHAMED HANIFA HARISH P	B+	O	B	B	O	B+	A	B	O
311820104020	MOHAMED JASHIM A	B	A+	U	B	A+	B+	B+	U	O
311820104021	MOHAMED NABEEL A	B	O	U	U	O	B+	B+	B+	A+
311820104022	MOHAMED NOWFEES A	B	A+	U	U	A+	B	B	U	A
311820104023	MOHAMED SALMAN A	B	A+	UA	UA	A	U	B+	B+	O
311820104024	MOHAMMED HASEEB RAKSHAN P	B+	O	A	U	O	B+	B+	B+	O
311820104025	MOHAMMED KHAJA NAWAZ A	B+	A+	B+	B	O	B	B	B	A+
311820104026	MOHAMMED RIZWAN K R	B	O	B+	B+	O	B+	B	B	O
311820104027	MOHAMMED SIDDIQUE C	B	O	B	B	A+	B+	B	B	O
311820104028	MUSHARAF MUBEEN A	B	O	A	B	O	B	B	A	O
311820104029	NAVEEN KUMAR S	B	O	B	U	O	B	B+	B	A+
311820104030	NITHISHKUMAR S	U	A+	B	B	O	B+	A	B+	A

PRINCIPAL

23-04-2024

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification approval etc

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Provisional Results of Nov. / Dec. Examination,2023.

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311820104031	RASHID C K	U	A+	B	U	A+	B	B	B	A+
311820104032	RISWAN M	U	A+	B	U	A+	B	B	B	B+
311820104033	SAKTHIVEL K H	B+	O	B+	B	O	B	A+	A	O
311820104034	SATHISH S	U	O	B	U	O	B+	B	B+	O
311820104035	SHAIKH ZAITH R	B+	O	B	B+	O	B+	B	A	O
311820104036	SULTHAN NIFAN S	B+	O	A	B+	O	B+	A	A	O
311820104037	VASUMATHI A	B+	O	B+	B	O	B+	A	B	A+
311820104038	VINITH D	U	A+	B	U	A+	B+	B	U	A+
311820104039	VINITHA M	B+	O	B	U	A+	B+	A	A+	A+
311820104040	YOGARAJ S	B	O	B+	B+	O	B	A	A+	A+
311820104041	YUVAN R K	U	O	B	B	O	B+	B	B	O
311820104301	ASHAR A	U	O	B	U	O	B+	B	U	A
311820104302	BARATHWAJ M	U	A+	U	U	A+	B+	B	B+	A+
311820104303	BHUVANESHWARAN P	U	O	B	U	O	B+	B	B+	A+
311820104305	HUDA F	UA	UA	UA	UA	UA	B	UA	UA	A+
311820104306	MANISH PRASAD V	B	O	B+	U	A+	B+	B+	B	O
311820104307	MOHAMMED THAYYAB A R	B+	O	B+	U	O	B+	A	B+	A+
311820104308	MONISHWARAN ARUNACHALAM B	B+	O	B+	B	O	B+	A+	B+	O
311820104309	SURYA S	B	O	B	U	O	B+	A	U	O
311820104310	SURYAKANTH S	U	O	B	U	O	B+	A	B	A+
311820104701	SEYED AHAMED RABIUDEEN N	B	O	B+	B	O	B+	B	B+	O

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WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification approval etc

23-04-2024

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination,2023.

Inst.Code/Name : 3118 - MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING   Semester No. : 07   DATE OF PUBLICATION :23-04-2024

Branch : 205-B.Tech. Information Technology

Reg. Number	Subject Code -> Stud. Name	CS8079 Grade	CS8791 Grade	CS8792 Grade	IT8711 Grade	IT8761 Grade	IVA018 Grade	MG8591 Grade	OMF751 Grade	SB8049 Grade
311819205031	VIGNESH S			U						
311819205301	PEERAZIMMEERAN A	UA		UA					UA	
311820205001	ABDULLAH S	U	U	U	A+	A	B	B	B	O
311820205002	ABDUL SUKKOOR NAFEES M	B	B	B	A+	A+	B+	UA	B	O
311820205003	ABIRAMI V	A	B+	B+	O	A+	B+	A	B+	O
311820205005	AISHWARYA R	B+	B+	U	O	O	B+	A	A	A+
311820205006	ANAS AHAMED A	B	B+	U	O	A+	B+	B+	A	O
311820205007	ARUN KUMAR A	B+	B+	B	O	O	B+	A	B	O
311820205008	BOOBALAN V	B+	A	B	O	O	B+	B+	B+	A+
311820205010	IMAAM JAFFAR J	A	A+	B+	O	O	B+	A+	A+	O
311820205011	JAASIR AHAMED A J	B	B+	U	O	A+	B+	B	B	O
311820205012	JAMEERUDEEN F	B	B+	U	A+	A+	B+	B	U	O
311820205014	KEERTHANA S	B	A	U	O	O	B+	B+	B+	A+
311820205015	LAVANYA S	B+	A	B	O	O	B+	B+	B+	A+
311820205016	MANISH KUMAR A	B	B+	B	O	O	B+	B+	B	O
311820205017	MOHAMED AFSAR M	B+	B+	U	A+	O	B+	A	B+	A+
311820205018	MOHAMED ASIF H	B	B+	B	A+	O	B+	B+	B	O
311820205019	MOHAMED GHAZALI P	U	U	U	A+	A+	B+	U	B	O
311820205020	MOHAMED SIDIQ I	B	B	U	A+	A+	B	B+	B	O
311820205021	MOHAMMED AFRITH R	B	U	U	A+	A+	B+	B	B+	O
311820205022	MOHAMMED FARHAN S M	B	A	B+	O	O	B+	A	A	A+
311820205023	MOHAMMED FUYUJURRAHMAN S A	U	A	B+	O	O	B+	A	A	A+
311820205024	MOHAMMED HASHIR HASAN K	U	A	B+	O	O	B+	A+	B+	O
311820205025	MUBARAK ALI J	U	B	U	A+	A	B	B	U	O
311820205026	MUHAMMED MIDLAJ A C	B	B	B	A+	A+	B+	A	B+	O
311820205027	NANTHINI R	U	U	B	O	A+	B+	B+	U	O
311820205028	PACKEER MOHIDEEN FAHEEM S	U	A	B	O	A	B	B+	B	O
311820205029	PAVITHRAA S	B	B+	B+	O	O	B+	A+	A	O
311820205030	POOVARASAN R	B	B	B	O	O	B+	A	A+	O
311820205031	PRABHA M	B+	A	B+	O	O	B+	A+	A+	O
311820205032	PRAMOTH M	B	B	B	A+	A+	B+	A	B	A

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WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
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311820205033	PUNNIYAKOTTI S	B	A	U	O	O	B+	A	B+	A+
311820205034	RAFIQ SHERIFF S	B	B+	B	A	A+	B+	B+	B+	A
311820205035	RAHIMUNNISA S	B	A	B	A+	A+	B+	A	B+	O
311820205036	RAJESH R	B	B	B+	O	O	B+	B+	B	B
311820205037	REVATHI U	B	B+	A	O	O	B+	B	B+	O
311820205040	SALAAHUDDEEN FAKHRUDDIN ISMAIL	B	B+	B	A+	A+	B	B	B+	O
311820205041	SEYED MOHAMED BUHARY M H									
311820205042	SHALINI M	A	A+	B	A+	O	B+	B+	B	O
311820205043	SIVAPRAKASAM N	B+	A	B	A+	A+	B	A	B+	A+
311820205044	SUPRAJA V	B	B	B	A+	O	B+	B	A	O
311820205045	SYED ABBAS AFRID M	B+	B	B	O	O	B+	A	A	O
311820205046	SYED ABBAS ALI J	A	B	B+	O	O	B+	A	A	O
311820205047	SYED ALI S	B+	U	B	O	O	B+	A	A	O
311820205048	SYED ANEES A	U	U	U	A+	A+	B	U	U	O
311820205050	VISHAL A	A	A+	B+	O	O	B+	A	A	O
311820205051	ZAMIL K	B	U	U	A+	A	B	B	B	O
311820205301	ABDUL AZEES SAHIB B	U	U	U	A+	A	B	U	U	O
311820205302	ABUL HASSAN HACKANI SAHIB S	B	U	U	A+	A	B	B+	B	O
311820205305	HARISH B	A	B	B	O	O	B+	B+	A+	O
311820205306	KRISHNAKUMAR K	A	B	B	A+	A+	B	B	B+	O
311820205307	MOHAMED RIYAZ M	U	U	U	A	A	B	U	B+	A+
311820205308	SANTHOSH	UA	UA	UA	UA	UA	B	UA	UA	U
311820205311	THEMOTHEYU S	B	B	U	O	A+	B+	B	B	O
311820205312	VINEETH BABA K B	B	B	B	A	A+	B	B+	U	O

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

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WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

23-04-2024

Anna University - COE

From

Department of Training & Placement,

MSAJCE

To

The Principal,

MSAJCE

Permitted

Respected Sir,

Sub: Permission to conduct Cyber Security Training Program- Reg

As we have planned for Cyber Security training program by Palo Alto on (21.12.23 & 22.12.23) for the Second year students of Computer Science Engineering & Artificial Intelligence and Data Science, so in this regard we need your permission to conduct the training and to access the CISCO & RPA Lab. So kindly grant us permission for the same

Thank You

Date: 18.12.23

Place: Chennai

Yours faithfully

Head Training and Placement

Head - Placement
Mohamed Sathak A.J. College of Engineering
Siruseri IT Park, Chennai - 603 103.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.

MOHAMED SATHAK
A.J. COLLEGE OF ENGINEERING
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.

Department of Training and Placement

Training Programs conducted AY2023-24 Odd Semester

Cyber Security – Palo Alto
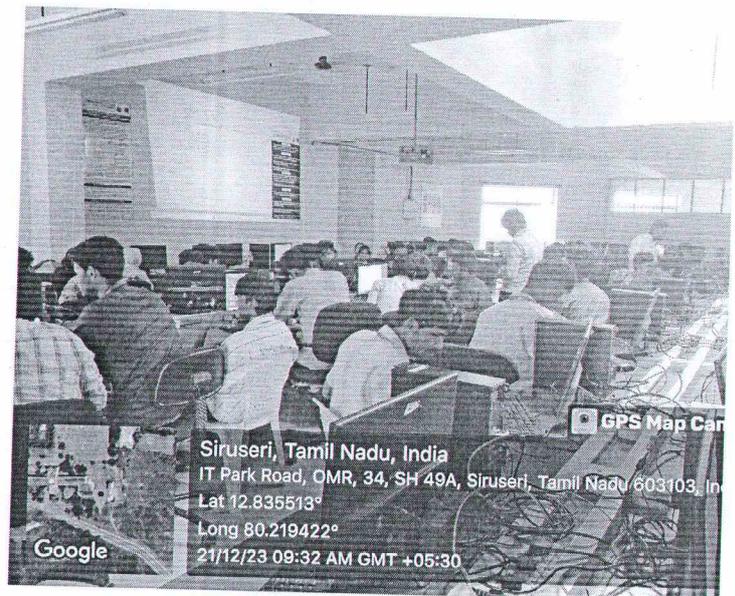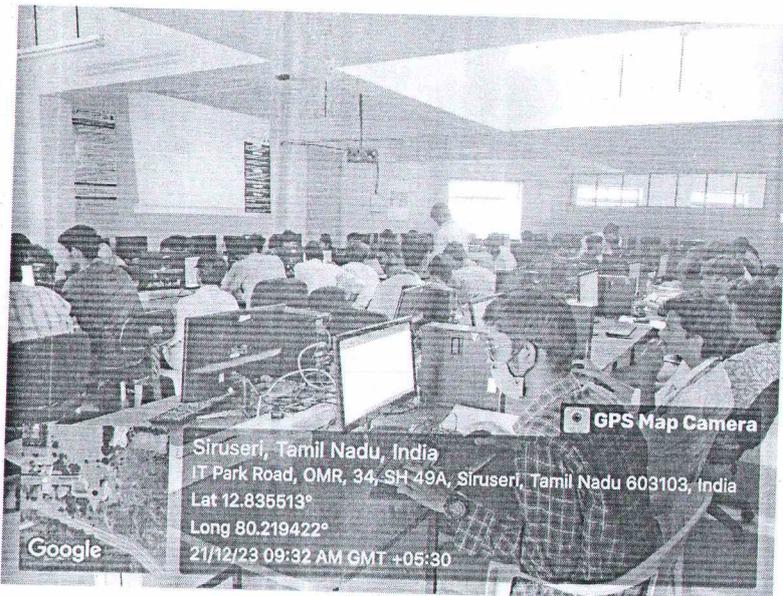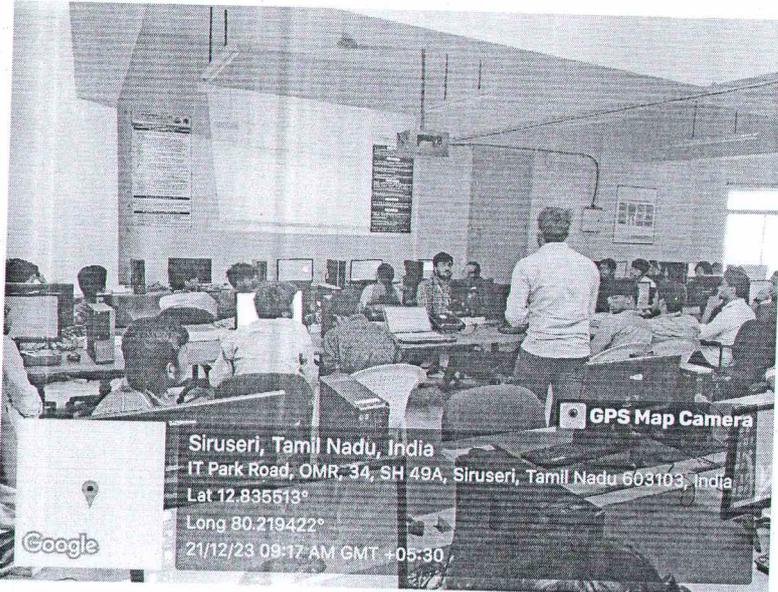
MOHAMED SATHAK A J COLLEGE OF ENGINEERING
DEPARTMENT OF TRAINING & PLACEMENT
PALOALTO- CYBER SECURITY STUDENTS ATTENDANCE

S.No	REG.NO	DEPT	NAME	21.12.23		22.12.23	
				F.N	A.N	FN	AN
1	311822104001	CSE	Aakhil Mohamed	1	AB	AB	AB
2	311822104002	CSE	Abdalah.A	1	AB	AB	AB
3	311822104004	CSE	Afrose Rowshan.A	1	1	1	1
4	311822104005	CSE	Akash.M	1	1	1	1
5	311822104006	CSE	Anas Rahman.	1	1	AB	AB
6	311822104007	CSE	Ashwath.K	1	1	1	1
7	311822104008	CSE	Bhuvaneswari. V	1	1	1	1
8	311822104009	CSE	Brajin Sanu.S.A	1	1	1	1
9	311822104010	CSE	Charumathi.V	1	1	1	1
10	311822104011	CSE	Chitharth	AB	AB	1	,
11	311822104013	CSE	Dharnish Babu	1	1	AB	AB
12	311822104014	CSE	Gomathi.T	1	1	1	1
13	311822104015	CSE	Hamdan Ashraf.M	AB	AB	1	1
14	311822104016	CSE	Hanish.S	1	1	1	1
15	311822104017	CSE	Hanzul Mahrifa.M	1	1	1	1
16	311822104018	CSE	Hariharan .G	1	1	1	1
17	311822104019	CSE	Harinisri.M	1	1	AB	AB

18	311822104020	CSE	Ibrahim Shafeeq	1	1	1	1
19	311822104021	CSE	Irfan Ahamed.S.S	1	1	AB	AB
20	311822104022	CSE	Jazeer Ahamed.J	AB	AB	AB	AB
21	311822104023	CSE	Jeevesh . R	1	1	1	1
22	311822104024	CSE	Joshwa.T	1	1	1	
23	311822104025	CSE	Kathija Shameema.A	1	1	1	
24	311822104026	CSE	Manigandan	1	1	1	1
25	311822104027	CSE	Marwan Ali.M	1		1	1
26	311822104028	CSE	karthikeyan M	1	1	1	1
27	311822104029	CSE	Mohamed Ashraf.M	1	1	1	1
28	311822104030	CSE	Mohamed Idrees.N	1	1	1	1
29	311822104031	CSE	Mohamed Jamees	1	1	AB	AB
30	311822104032	CSE	Mohamed Kamil Ameen	1	AB	AB	AB
31	311822104033	CSE	Mohamed Mufeek.M	AB	AB	AB	AB
32	311822104034	CSE	Mohamed Tharik M.M	1	1	1	1
33	311822104035	CSE	Mohamed Buhari.A	1	1	1	1
34	311822104036	CSE	Mohamed Nazmi.A	1	1	1	1
35	311822104037	CSE	Mugesh.K	AB	AB	1	1
36	311822104038	CSE	Muthuraman.G	OD	OD	OD	OD
37	311822104039	CSE	Nivethitha.A.S	1	1	AB	AB

38	311822104040	CSE	Pradeep.J	✓	✓	✓	✓
39	311822104041	CSE	Rajebul Ali	✓	✓	✓	✓
40	311822104042	CSE	Sakthivel . V	✓	✓	✓	✓
41	311822104043	CSE	Sankara Narayanan.S	✓	✓	✓	✓
42	311822104044	CSE	Santhosh Mahara.S	✓	✓	✓	✓
43	311822104045	CSE	Sathis Kumar .V	✓	✓	✓	✓
44	311822104046	CSE	Shahid Sharif.B	✓	✓	✓	✓
45	311822104047	CSE	Shajaneshwar.M.S	✓	✓	✓	✓
46	311822104048	CSE	Suhaib.I	✓	AB	AB	✓
47	311822104049	CSE	Suhail Ahamed.T	✓	✓	✓	✓
48	311822104050	CSE	Surya S	✓	✓	AB	✓
49	311822104051	CSE	Syed Aahil R	✓	✓	✓	✓
50	311822104052	CSE	Syed Aahkil R	✓	✓	✓	✓
51	311822104053	CSE	Vignesh.V	✓	✓	✓	✓
52	311822104054	CSE	Vinoth.P	✓	✓	✓	✓
53	311822104055	CSE	Yogeshwari A	✓	✓	✓	✓
54	311822104056	CSE	Zakir Hussain.A	✓	✓	✓	✓
55	LE	CSE	Aafia banu.A	✓	✓	✓	✓
56	LE	CSE	Hari shakthi kumar	✓	(AB)	AB	AB
57	LE	CSE	Mohamed yusuf	✓	✓	AB	AB

S.No	Register Number	Branch	Name				
58	LE	CSE	Ganesh	AB	AB	AB	AB
59	LE	CSE	Mohamed Kamaludeen Irfan	✓	✓	✓	✓
60	LE	CSE	Naveenkumar L	✓	✓	✓	✓
61	31182243001	AIDS	H. Aadil Mohamed	AB	AB	✓	✓
62	31182243002	AIDS	Y. Abul Faize	AB	AB	✓	✓
63	31182243003	AIDS	A.B. Ahamed Raasim	✓	AB.	✓	✓
64	31182243004	AIDS	A. Akram Bilal	✓	✓	✓	✓
65	31182243005	AIDS	Ayesha	✓	✓	✓	✓
66	31182243006	AIDS	R. Balaji	✓	✓	✓	✓
67	31182243007	AIDS	M. Darvesh Ahamed	✓	AB.	AB.	AB
68	31182243008	AIDS	P. Dhivya	✓	✓	✓	✓
69	31182243009	AIDS	S. Hari Ragavendra	✓	✓	✓	✓
70	31182243010	AIDS	R.S. Jessica Charlet	✓	✓	✓	✓
71	31182243011	AIDS	R. Karthika	✓	✓	✓	✓
72	31182243012	AIDS	S. Kaviyzhaghan	✓	✓	✓	✓
73	31182243013	AIDS	A. Kevin Fannex	✓	✓	✓	✓
74	31182243014	AIDS	U.S. Mithran	✓	✓	✓	✓
75	31182243015	AIDS	A. Mohamed Asif	✓	✓	✓	✓
76	31182243016	AIDS	A. Mohamed Ibrahim	✓	✓	✓	✓
77	31182243017	AIDS	C. Mohamed Siddiq	✓	✓	✓	✓

#	Reg No	Dept	Name				
78	311822243018	AIDS	V. Mohamed Hamza	1	1	1	1
79	311822243019	AIDS	M. Mohamed Irfan	AB	AB	1	1
80	311822243020	AIDS	A. Mohamed Jaffar Saadiq	AB	AB	1	1
81	311822243021	AIDS	J. Mohamed Riyaz	1	1	1	1
82	311822243022	AIDS	D.N. Naleem Ahamed	1	1	1	1
83	311822243023	AIDS	M.R. Shah Nawas	AB	AB	AB	AB
84	311822243024	AIDS	K.A. Sham	1	AB	1	1
85	311822243025	AIDS	P. Shrivarsa	1	1	1	1
86	311822243026	AIDS	B. Umar Ali	1	1	AB	AB
87	311822243027	AIDS	T. Yasinraj	1	1	1	1
88	311822243301	AIDS	Mohammed Thahir m	1	1	1	1
89	311822243302	AIDS	Varshini m	1	1	1	1

Day 1
CSE = 3
AIDS = 6
Date 15/89

Day 2
CSE = 11
AIDS = 6
CSE = 9

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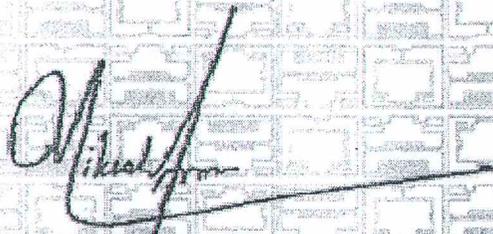
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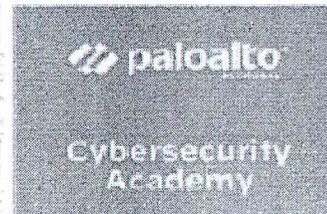
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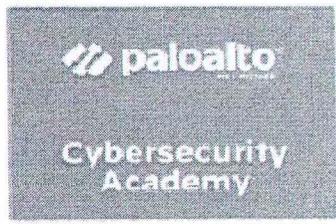
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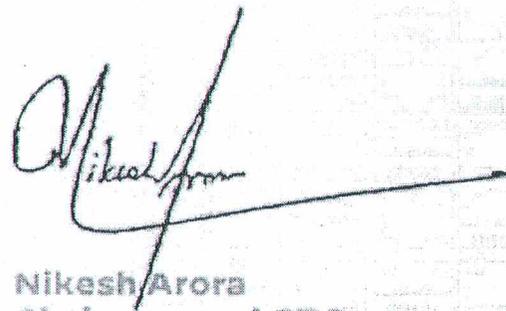
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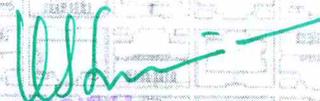
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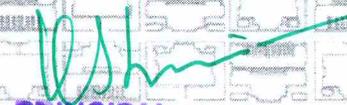**5V9N6rR5PA**

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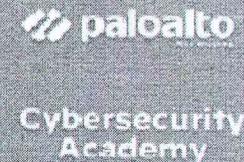
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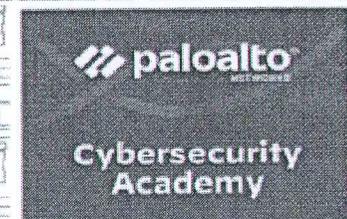Chairman and CEO
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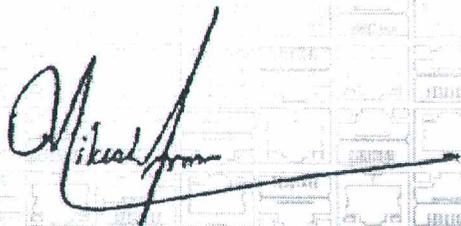
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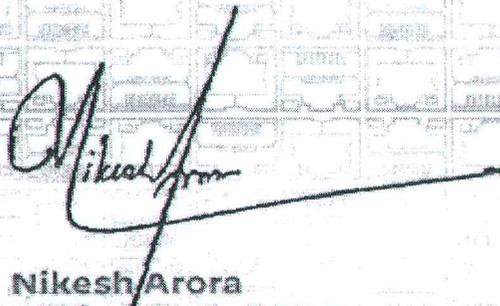
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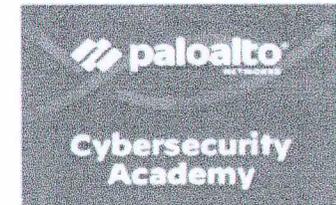Chairman and CEO
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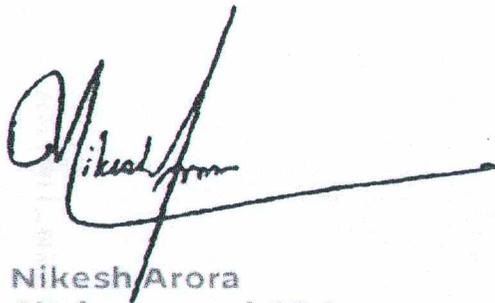# Palo Alto Networks Cybersecurity Academy

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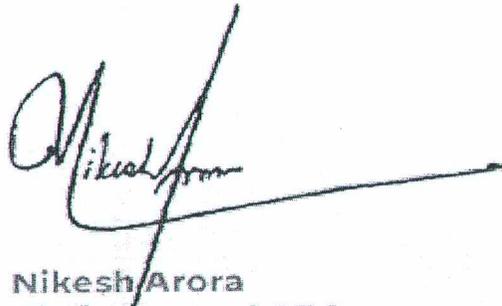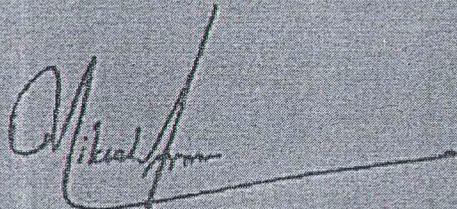# Palo Alto Networks Cybersecurity Academy

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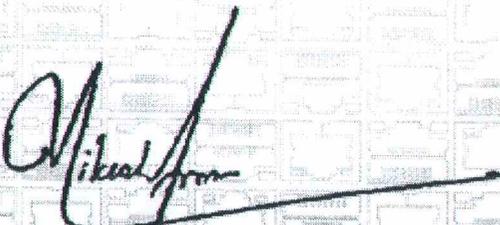# Palo Alto Networks Cybersecurity Academy

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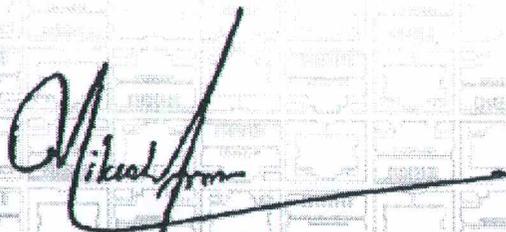# Palo Alto Networks Cybersecurity Academy

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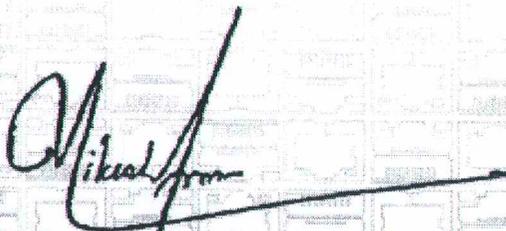## Student Certificate of Completion

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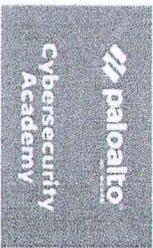
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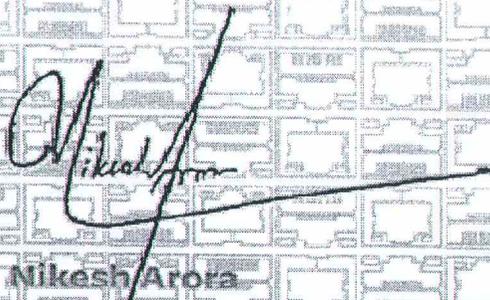# Palo Alto Networks
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Chenai - 603103.

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Chairman and CEO
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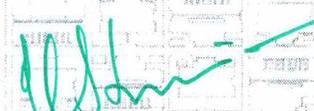
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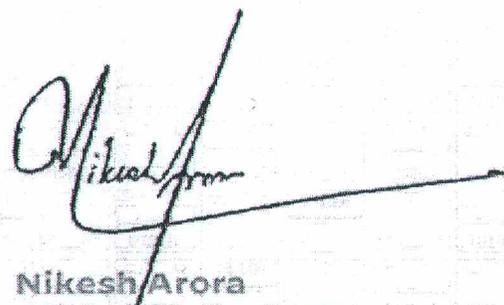Validation URL

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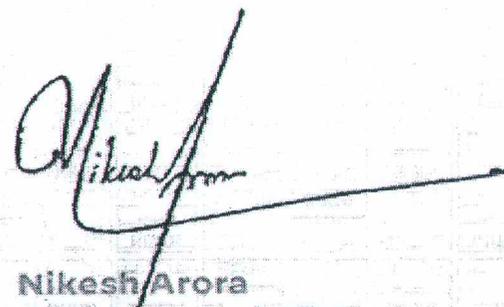Chenai - 603103.
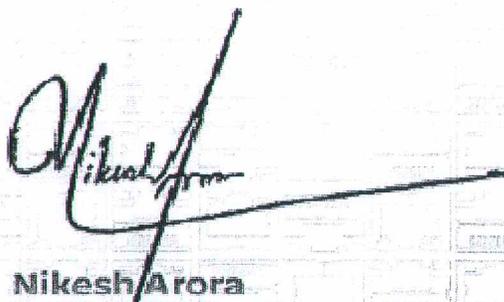
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Marwan Ali

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Sakthivel V
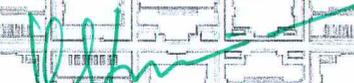
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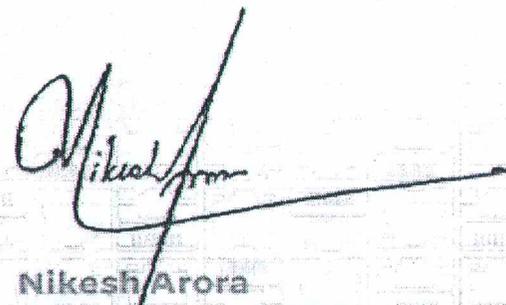# Palo Alto Networks Cybersecurity Academy

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Shahid Sharif B

has successfully completed

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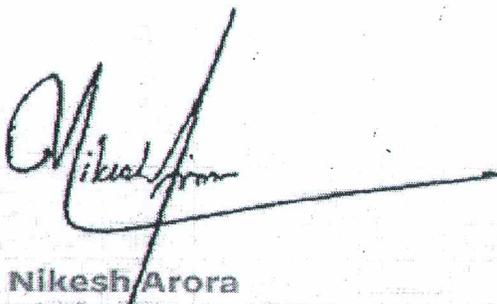# Palo Alto Networks Cybersecurity Academy

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Suhail Ahamed

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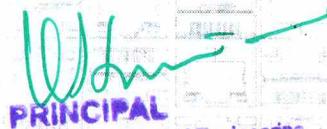## Mohamed Irfan

has successfully completed

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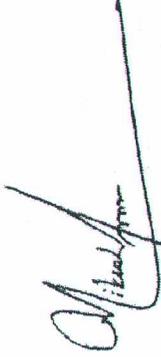Validation URL

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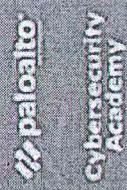
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ECE 1.2.2

Semester -6	Value Added Course on	L	T	P	C
	IOT USING ARDUINO	1	0	2	2

Objectives:

- To expose student and gain knowledge about Arduino technology with IOT
- To Program and construct applications using Arduino using a number of different sensors and IOT

Unit – I Introduction to Arduino

Embedded processing portfolio, Architecture and hardware organization of Arduino, Configuring GPIO and Clock systems, Real time applications using GPIO configuration, LCD interfacing, Technical explanation ADC, Configuring ADC, Real time applications using Sensors

Unit – II Interfacing with Zigbee

Bluetooth Interfacing, Android mobile based device control ,GSM interfacing and send SMS, Real time Application Development with GSM ,Zigbee Interfacing, Data transmission using zigbee, Real time applications interfacing with sensors and Zigbee

Unit – III Real Time applications

DC Motor Interfacing, H-bridge concept and design and ultrasonic interfacing, Clockwise and anticlockwise control, Real time applications interfacing with robotic vehicle model, Real time applications interfacing with sensors and Robot

Unit – IV Li-Fi with Ardino

Introduction, Li-Fi based Data communication, Interfacing Li-Fi with Arduino, Application Development with Li-Fi.

Unit – V IOT –Configuration & Integration

Introduction to IoT & Scope of IoT, Web page creation, Data transmission from sensors, Configuration webpage ,Sensor data monitoring , Wireless Interfacing, Android mobile based device control, GSM interfacing and send SMS, Real time Application Development with GSM, Zigbee Interfacing Data transmission using zigbee, Real time applications interfacing with robotic vehicle.

Outcomes:

The students will be outfitted with hands on knowledge in IOT using ARDUINO.
Upon completion of the program, the students will be able to

C01	Understand features of the Arduino platform
C02	Application development-Integrate with Zigbee
C03	Study and execute real time applications
C04	Application development -Li-Fi with Ardino
C05	Execute coding to gather and process data on the Arduino via the cloud.

Total Hours: 45

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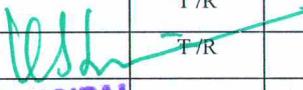
VALUE ADDED COURSE - COURSE CONTENT

Department of ECE

Class :IV ECE   Academic Year: 2023 TO 2024

Name of the Value Added Course	IVA067- IoT using Arduino	Name of the handling Faculty	S.Piriyadharshini

Course Objective
1) To expose student and gain knowledge about Arduino Technology wit IOT
2) To program and construct applications using Arduino using a number of different sensors and IOT

Course Outcome	
CO1	Understand features of Arduino Platform
CO2	Application Development - Integerate with Zigbee
CO3	Study and execute real time applications
CO4	Application Development - LiFi with Arduino
CO5	Execute coding to gether and process dataon the Ardunio via the cloud

Lesson Plan for VAC				
Sl. No.	Topic	T / R* Book	Periods Required	Mode of Teaching
	UNIT 1 - Introduction to Arduino			
1	Embedded processing portfolio	T /R	1	PPT
2	Architecture and hardware organization of Arduino	T /R	1	PPT
3	Configuring GPIO and Clock Systems	T /R	1	PPT
4	Real Time Applications using GPIO configuration	T /R	1	PPT
5	LCD Interfacing	T /R	1	PPT
6	Technical explanation ADC	T /R	1	PPT
7	Configuring ADC	T /R	1	PPT
8	Real time applications using sensors	T /R	1	PPT
	UNIT II - Interfacing with Zigbee			
9	Bluetooth Interfacing	T /R	1	PPT
12	Android mobile based device control	T /R	1	PPT
13	GSM Interfacing and send SMS	T /R	1	PPT
14	Real time Application Development with GSM	T /R	1	PPT
15	Zigbee Interfacing	T /R	1	PPT
16	Data transmission using zigbee	T /R	1	PPT
17	Real time application interfacing with sensors and Zigbee	T /R	2	PPT
18				
19	**UNIT III - Real Time Applications**			
20	DC Motor Interfacing	T /R	2	PPT/TOOL
21	H Bridge Concept and design and ultrasonic interfacing	T /R	1	PPT/TOOL
22	Clockwise and Anticlockwise control	T /R	1	PPT/TOOL
23	Real time Application interfacing with Robotic vehicle model	T /R	1	PPT/TOOL
24	Real time applications interfacing with sensors and Robot	T /R	1	PPT/TOOL
25				

IVA-067 IoT USING ARDUINO.

ATTENDANCE

S. No.	Register Number	Students Name
1	311820105001	Abinaya . K
2	6002	Abitha . B
3	6003	Ajal Ahmed . M
4	6004	Ahmed Syed Seman . S
5	6005	Anudhushwar . S
6	6006	Bashaathulla . K
7	6007	Carol Rosy . N
8	6009	Janani . M.E.
9	6010	Jasim Mohamed .
10	6011	Kishore . S
11	6013	Madhivanan . R
12	6014	Md. Mukshith . N
13	6016	Nirmal . K
14	6017	Poosathush Kumar . M
15	6018	Sahin . S
16	6020	Sathish Kumar . V
17	6021	Shaukh Jahirudeen . K
18	6022	Shaikabdulla . A
19	6025	Thanuer Sheriff . A
20	6301	Bala Krishnan . S
21	6302	Fowzia Jaleen . S.P
22	6303	Girish . R
23	6305	Kamali . D
24	6306	Mohamud Nayeem . B
25	6702	Kishore . R

No. of absentees

Signature of the faculty member

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Chennai - 603103.

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DEPARTMENT OF ECE
IOT USING ARDUINO - PROJECT REVIEW

21/11/23.

S.no	Reg. No.	Name of the Students	PROJECT TITLE	PRESENTATION (30)	DEMONSTARTION (30)	RECORD (20)	VIVA (20)	TOTAL (100)
1.	311820106001	ABINAYA.K	Multipurpose Distance Measuring device.	28	25	20	16	89
	311820106002	ABITHA.B		27	24	20	15	86
	311820106007	CAROL PERSY.N		25	24	20	14	86
	311820106009	JANANI.M.E		25	24	20	14	82
2.	311820106022	SHAIK ABDULLA.A.S	Temperature Fan controller using ESP8266.	26	24	20	16	83
	311820106003	AFLAL AHAMED.A		25	24	20	14	86
	311820106016	NIRMAL.K		24	23	20	14	83
	311820106010	JASEEM MOHAMED.P		24	23	20	13	81
3.	311820106004	AHMAD SYED SEMAR	Smart water Level monitoring system.	25	26	28	15	80
	311820106021	SHAHRUKH FAKRDEEN		28	26	18	16	84
	311820106011	KISHORE.S		25	24	18	14	88
	311820106305	KAMALI.D		24	24	18	14	81
	311820106005	AMUDESHNARAN.S		25	24	18	14	90
4.	311820106020	SATHESH KUMAR	IoT based Home Automation.	24	25	20	14	81
	311820106301	BALAKRISHNAN		22	26	20	15	83
	311820106025	THANVEER SHERIFF		22	20	20	13	83
	311820106702	KISHORE.R		21	20	20	13	75
5.	311820106008	BASHARATHULLA	Smart Door Lock System.	28	30	20	20	74
	311820106013	MADHVANAN.R		25	25	20	16	98
	311820106018	SAFRIN.S		25	24	20	15	86
	311820106014	MUKSHITH.N		26	25	20	16	84
6.	311820106303	NAYEEM	Collision Avoidance and safety measures in Electric vehicle.	27	30	20	19	87
	311820106307	POOSATHISH KUMAR		26	28	20	18	96
	311820106304	GIRISH		26	28	20	15	94
	311820106302	FOUZIA JABEEN		24	24	20	14	89

SUBJECT INCHARGE

HOD/ECE

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DEPARTMENT OF ECE

IOT USING ARDUINO- ASSESMENT I

IV YEAR

S.no	Reg. No.	Name of the Students	Marks (30)
1	311820106001	ABINAYA K	21
2	311820106002	ABITHA B	20
3	311820106003	AFLAL AHAMED M	28
4	311820106004	AHMAD SYED SEMAR	29
5	311820106005	AMUDESHWARAN S	28
6	311820106006	BASHARATHULLA A	21
7	311820106007	CAROL PERSY N	27
8	311820106009	JANANI E	23
9	311820106010	JASEEM MOHAMED P	27
10	311820106011	KISHORE S	29
11	311820106013	MADHIVANAN R	27
12	311820106014	MOHAMED MUKSHITH N	23
13	311820106016	NIRMAL K	27
14	311820106017	POOSATHISHKUMAR M	22
15	311820106018	SAFRIN S	20
16	311820106020	SATHESH KUMAR V	22
17	311820106021	SHAHRUKH FAKRUDEEN K	29
18	311820106022	SHAIK ABDULLA A	28
19	311820106025	THANVEER SHERIFF	21
20	311820106301	BALA KRISHNAN.S	22
21	311820106302	FOUZIA JABEEN S P	20
22	311820106303	GIRISH .R	22
23	311820106305	KAMALI.D	20
24	311820106306	MOHAMED NAYEEM B	21
25	311820106702	KISHORE.R	21

CLASS ADVISOR

HOD/ECE
21/11/22

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DEPARTMENT OF ECE
IOT USING ARDUINO- ASSESMENT II
IV YEAR

S.no	Reg. No.	Name of the Students	Marks (25)
1	311820106001	ABINAYA K	21
2	311820106002	ABITHA B	17
3	311820106003	AFLAL AHAMED M	21
4	311820106004	AHMAD SYED SEMAR	AB
5	311820106005	AMUDESHWARAN S	AB
6	311820106006	BASHARATHULLA A	21
7	311820106007	CAROL PERSY N	20
8	311820106009	JANANI E	19
9	311820106010	JASEEM MOHAMED P	20
10	311820106011	KISHORE S	AB
11	311820106013	MADHIVANAN R	20
12	311820106014	MOHAMED MUKSHITH N	20
13	311820106016	NIRMAL K	20
14	311820106017	POOSATHISHKUMAR M	22
15	311820106018	SAFRIN S	22
16	311820106020	SATHESH KUMAR V	22
17	311820106021	SHAHRUKH FAKRUDEEN K	25
18	311820106022	SHAIK ABDULLA A	20
19	311820106025	THANVEER SHERIFF	21
20	311820106301	BALA KRISHNAN.S	22
21	311820106302	FOUZIA JABEEN S P	22
22	311820106303	GIRISH .R	22
23	311820106305	KAMALI.D	21
24	311820106306	MOHAMED NAYEEM B	22
25	311820106702	KISHORE.R	22

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HOD/ECE
21/11/22

Name with Designation	:	S.Priyadharshini .AP/ECE.
Department	:	ECE.
Branch	:	BE.
Academic Year / Semester	:	2023 -2024.
Subject Code & Title	:	IVA061 IoT using Arduino
Type of Subject	:	Theory cum Practical / Practical ✓
Date of Reopening	:	24/ 7/23.
Last Working Day	:	17/ 11/23.
Total Allocated Periods	:	45
Total Conducted Periods	:	45 .

Assessment Details

Assessment	Assessment Conducted on	No. of Students			Pass %	Remarks
		Total	Passed	Failed		
I	23/ 9/2023	25	25.	—	100%.	—
II.	17/ 10/2023	25	22	03.	88%.	3 students were absent

Class Timetable

Periods	1	2	3	4	5	6	7	8
Time								
Monday								
Tuesday			← VAC IoT →					
Wednesday								
Thursday								
Friday								
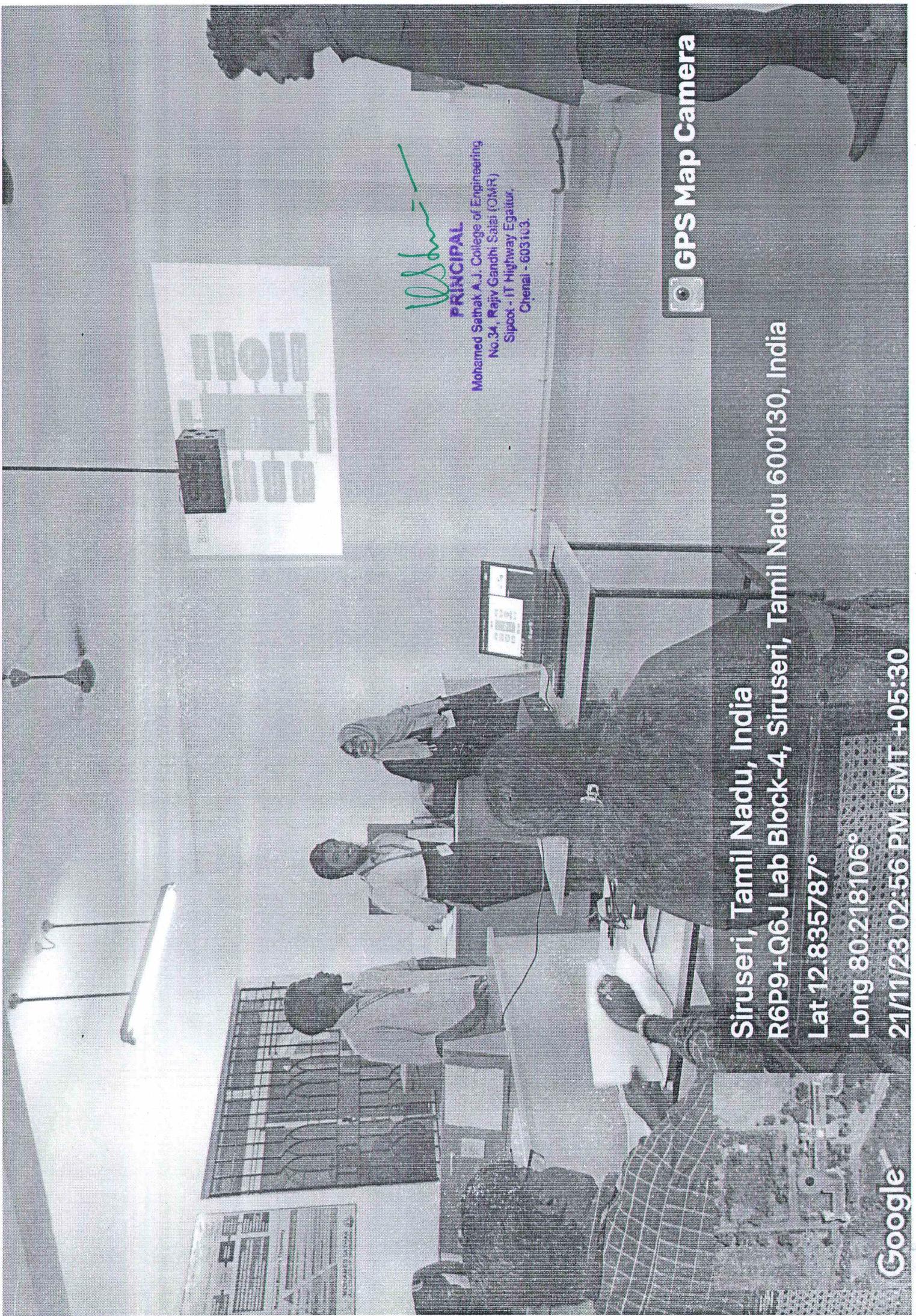
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R6P9+Q6J Lab Block-4, Siruseri, Tamil Nadu 600130, India
Lat 12.835787°
Long 80.218106°
21/11/23 02:56 PM GMT +05:30
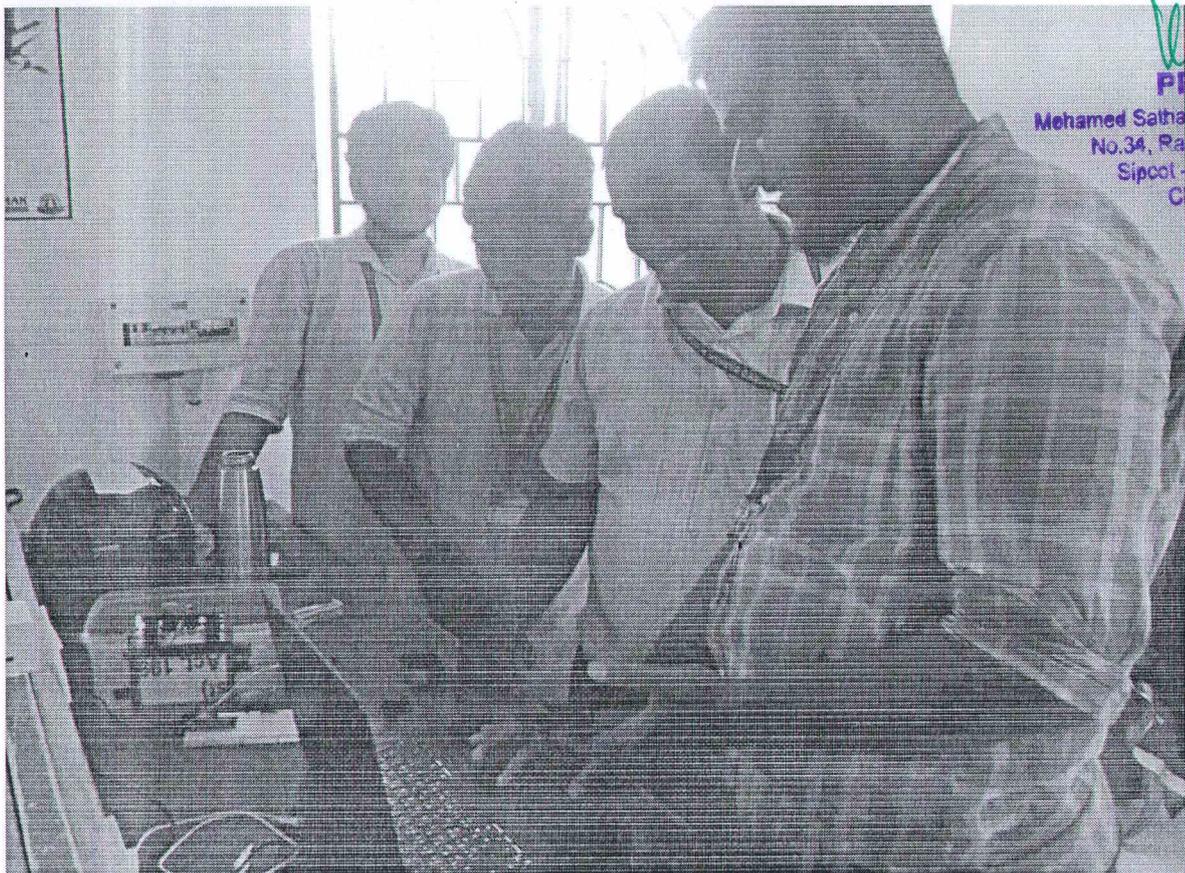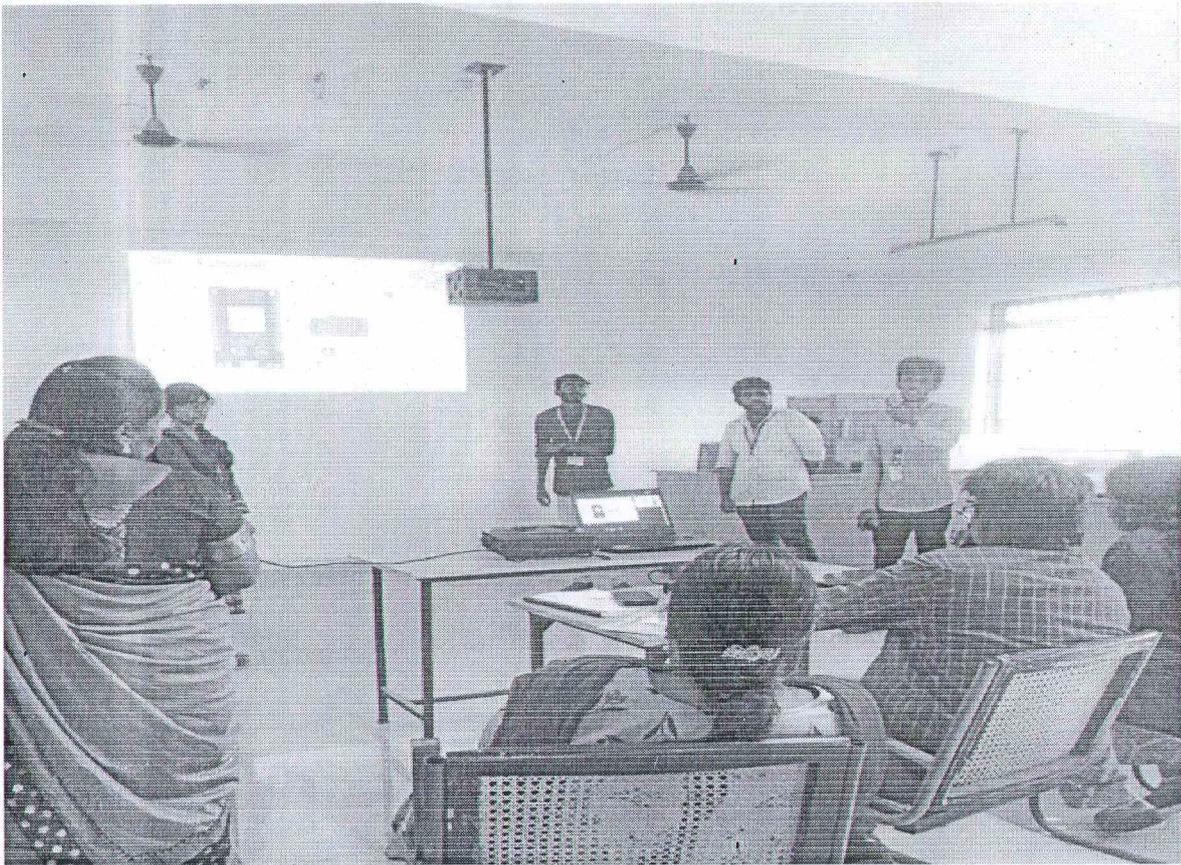
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OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination,2023.

Inst.Code/Name : 3118 - MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING   Semester No. : 07   DATE OF PUBLICATION :23-04-2024

Branch : 106-B.E. Electronics and Communication Engineering

Reg. Number	Stud. Name	EC8701 Grade	EC8702 Grade	EC8711 Grade	EC8751 Grade	EC8761 Grade	EC8791 Grade	IVA067 Grade	OMF751 Grade	SB8056 Grade
311819106001	AHAMED ALI H						U		B	
311819106012	MOHAMMED ASIF A						B			
311819106013	MOHAMMED TAHEER R	U					U			
311819106022	SYED AAKHIB MOHAMMED I	U								
311819106301	NAVINASH S	B					U			
311819106303	SALMAN S		B							
311820106001	ABINAYA K	B+	A	O	A	O	B	B	A	A+
311820106002	ABITHA B	B	A	O	B+	O	B	B	B+	A+
311820106003	AFLAL AHAMED M	B+	B+	A	B+	O	B	B	B+	A+
311820106004	AHMAD SYED SEMAR	B	B	A+	B	A+	U	B	B	A+
311820106005	AMUDESHWARAN S	B	U	A+	B+	A+	U	B	B+	A+
311820106006	BASHARATHULLA	B	U	A+	U	O	U	B+	A	O
311820106007	CAROL PERSY N	B	B	A+	U	A+	B	B	B+	A+
311820106009	JANANI M.E	B+	B	A+	B	A+	B+	B	B+	A+
311820106010	JASEEM MOHAMED P	B	B	B	B	B+	U	U	A	A
311820106011	KISHORE S	B	B	A+	B+	A+	B	B	B+	A+
311820106013	MADHIVANAN R	B	B	A+	B+	A+	B	B	A	O
311820106014	MOHAMED MUKSHITH N	B+	B	A+	B+	O	U	B+	A	O
311820106016	NIRMAL K	B+	B	B+	B	A	B	B	B+	A+
311820106017	POOSATHISH KUMAR M	B	B+	A+	B	O	B	B	A	A+
311820106018	SAFRIN S	B	B	A+	B+	A+	B	B	B+	A+
311820106020	SATHESH KUMAR V	B+	A	O	B	O	B+	B	B+	O
311820106021	SHAHRUKH FAKRUDEEN K	B	B+	O	B	O	B	B	A+	O
311820106022	SHAIK ABDULLA A S	U	B	O	B	O	U	B	B	A+
311820106025	THANVEER SHERIFF A	U	B	B	U	A	U	B	U	A
311820106301	BALAKRISHNAN S	U	UA	B	U	B+	U	U	U	A
311820106302	FOUZIA JABEEN S P	B	B	B	U	A+	U	B	B+	A+
311820106303	GIRISH R	U	B	B	U	A	U	B	B+	A+
311820106305	KAMALI D	U	U	A+	U	A+	U	B	A	A+
311820106306	MOHAMED NAYEEM B	U	U	O	U	O	B	B+	A	O
311820106702	KISHORE R	U	U	B	U	B+	U	B	A	A

W - Withdrawal   I - Inadequate Attendance

23-04-2024

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Department of Electronics and Communication Engineering

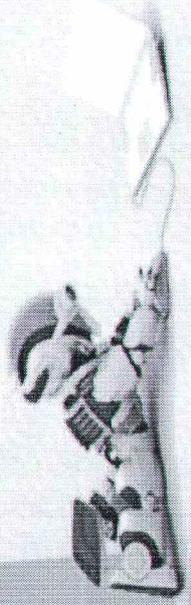## Technology Centre for E-yantra: Embedded & Robotics

1.2.2

ECE TCE

Student Namelist – Academic Year:2023-2024

Course Name: Internet of Things (IoT)

S. No	Name of the Student	Department
1.	Sulaiman H	CSE
2.	Yazar Arafath A	CSE
3.	Hassan	CSE
4.	Muhasin Ahamed A	IT
5.	Rakshita R	IT
6.	Abubacker Sideeq SM	IT
7.	Afsal.I	IT
8.	Dhanush Adithya S	MECH
9.	Udhayakumar.G	MECH
10.	Abinaya V	ECE
11.	Abdul Baasit A	ECE
12.	Mohamed Yahya N.I	ECE
13.	Kishore.D	ECE
14.	Sahul hameed T	ECE
15.	Dhinesh.C	ECE
16.	J.Jayasudhan	ECE
17.	Anish kumar.K	ECE
18.	Gopi.K	ECE
19.	Gajendiran.R	ECE
20.	Maheswaran.R	ECE
21.	Karthikeyan.S	ECE
22.	Majithul Hikkum	ECE
23.	Sarfan S.A	EEE
24.	Thiyagu.A	EEE
25.	Karthick.A	EEE
26.	Santhosh Kumar V	EEE

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S.No	Register No	Name of Student	Year/Sem	Status of completion
		Internet of Things (ACY 2023-2024 ODD)		
		STUDENTS NAME LIST		
1	311821106002	Abinaya V	III/V	Qualified
2	311821106016	R Maheswaran	III/V	Qualified
3	311821106001	A.Abdul Baasit	III/V	Qualified
4	311821106019	N.I Mohamed Yahya	III/V	Qualified
5	311821106015	Kishore.D	III/V	Qualified
6	311821106304	Sahul Hameed T	III/V	Qualified
7	311821106008	Dhinesh.C	III/V	Qualified
8	311821106014	J.Jayasudhan	III/V	Qualified
9	311821106003	K.Anish kumar	III/V	Qualified
10	311821106303	Karthikeyan.S	III/V	Qualified
11	311821106018	Majithul Hikkum.N.A	III/V	Qualified
12	311821106009	R.Gajendiran	III/V	Qualified
13	311821106010	Gopi.K	III/V	Qualified

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A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.

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This is to certify that Mr. / Ms ___ Abinaya V   III ECE ___ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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Dr. K.S. Srinivasan
Principal

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NAAC A+

CERTIFICATE
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This is to certify that Mr. / Ms __Sahulhameed.T   III ECE__ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on "Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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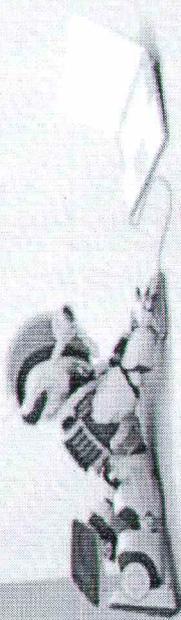**Dr. K.S. Srinivasan**
Principal

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This is to certify that Mr. / Ms __Dhinesh.C III ECE__ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.
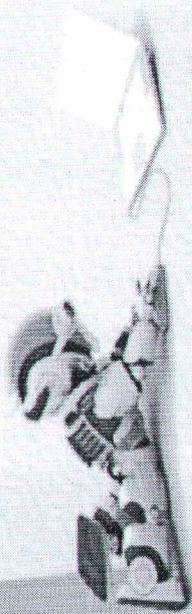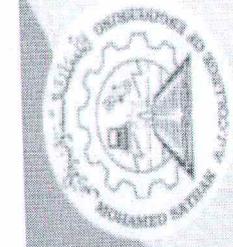
Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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Dr. K.S. Srinivasan
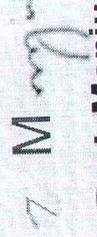Principal

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CERTIFICATE
OF COMPLETION
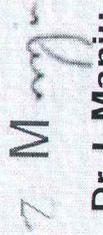
This is to certify that Mr. / Ms _____ J.Jayasudhan   III ECE _____ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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— OF COMPLETION —

This is to certify that Mr. / Ms _____ Anish Kumar K   III ECE _____ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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This is to certify that Mr. / Ms ___Karthikeyan. S   III ECE___ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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CERTIFICATE
— OF COMPLETION —

This is to certify that Mr. / Ms ___N.Majithul Hikkum III ECE___ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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This is to certify that Mr. / Ms ___R.Gajendiran III ECE___ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
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Dr. I.Manju
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This is to certify that Mr. / Ms _____ K.Gopi _____ III ECE _____ student of
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E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

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Head - IQAC & HoD/ECE

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Dr. K.S. Srinivasan
Principal

Program Educational Objectives (PEO)

PEO1 : Graduates will be prepared for designing Electronics and Communication Components and Systems with Creativity and Sustainability.

PEO2 : Graduates will be skilled in the use of modern tools for Critical Problem Solving and analyzing industrial and societal requirements.

PEO3 : Graduates will be prepared with managerial and Leadership skills for Career and starting up own firms.

Program Specific Outcome (PSO)

Engineering graduates will be able to

PSO1 : Apply the acquired knowledge in analyze, develop and test Creative Solution for Electronics and Communication Systems and its Application.

PSO2 : Provide cost effective and eco-friendly solutions for Real time problems of Industrial and societal needs using Embedded & IoT tools.

Couse Outcome (CO)

Personal Timetable

Periods	1	2	3	4	5	6	7	8
Time	8:15–9.05	9.05–9.55	10.10–11.00	11:00–11.50	11.50–12.40	1.40–2.20	2:30–3.20	
Monday						IIOT		
Tuesday			IIOT			Embedded IoT Lab	IIOT LAB →	
Wednesday	EnIoT		IoC–IoT →					
Thursday	IIOT				EnIoT			
Friday				EnIoT	EnIoT			

Class Timetable

Periods	1	2	3	4	5	6	7	8
Time	8:15–9.05	9.05–9.55	10.10–11.00	11:00–11.50	11.50–12.40	1.40–2.30	2:30–3.20	
Monday	WC	IP	TLRF	VLSI	TLRF	IIOT	WC	
Tuesday	VLSI	LPIC	IIOT	MC	TLRF ← LPIC LAB →			
Wednesday	IP	LPIC ←	TCC	IIOT LAB →				
Thursday	IIOT	TLRF	IP	WC	MC	← VLSI LAB →		
Friday	VLSI	WC	IP	VLSI	TLRF ← WC LAB →			

	Learners			Medium			Gender		Stay	
	Slow	Average	Advance	Tamil (TM)	English (EM)	Boys	Girls	Hostler	Day scholar	
						24	02			

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S. No.	Register Number	Students Name	Profile			Class 1	2	3	4	5	6	7	8	9	10
			Arrears	CGPA	Hostel / DS / OB	Month 08	08	08	08	08	09	09	10	10	10
						Date 02	09	16	23	30	20	27	4	11	25
						Period 3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5	3,4,5
		CSE													
1	31189104005	Sulaiman H				/	AB	/	OD	/	/	/	/	/	AB
2	311821104061	Yasar Arafath A				AB	AB	AB	OD	/	/	/	a	/	AB
3		**ECE**													
4	311821106002	Alimaya V				/	/	/	/	/	/	/	/	/	AB
5	311821106016	Maheswaran R				/	/	/	/	/	/	/	/	/	/
6	311821106001	Abdul Baasit A				/	/	/	/	/	/	/	a	/	/
7	311821106019	Md. Yaheyan J				AB	/	/	/	/	/	/	a	/	AB
8	311821106015	Kishore D				/	/	/	/	/	/	/	a	/	AB
9	308211063o4	Rahul Hameed T				/	AB	/	/	/	/	/	/	/	/
10	311891106008	Dhinesh C				/	/	/	/	/	/	/	a	/	AB
11	311821106014	Jayasudhan T				/	/	/	/	/	/	/	a	/	AB
12	311821106303	Karthikeyan S				/	/	/	/	/	/	/	a	/	/
13	311821106003	Anish Kumar K				/	/	/	/	/	/	/	a	/	/
14	311821106010	Gopi K				/	/	/	/	/	/	/	/	/	/
15	311821106009	Gajendiran R				/	/	/	AB	/	/	/	/	a	/
16	311821106017	Majithul Hikkum				-	/	/	/	/	/	/	a	/	AB
17		**MECH**													
18	311821114003	Dhanushadithya				/	/	/	/	/	a	a	a	/	/
19	311821114018	Udaya Kumar				AB	/	/	/	/	/	/	1	a	/
20		**IT**													
21	311821205039	Muhasin Ahamed					AB	/	/	/	/	/	a	/	/
22	311821205501	Abubacker Sideeq				AB	/	/	/	/	/	/	a	/	/
23	311821205046	Rakshita				AB	/	/	/	/	/	/	a	/	/
	No. of absentees					5	7	2	3	4	1	1	12	2	8
	Signature of the faculty member														

4

Department of Electronics and Communication Engineering
Technology Centre for E-yantra: Embedded & Robotics

Syllabus: Internet of Things (IoT)

Objective:

The objective of this course is to impact necessary and practical knowledge of components of Internet of Things and develop skills required to build real-life IoT based projects

Module 1: IoT Introduction Sensors & Actuators   9

IoT Architecture, Physical & Logical IoT design Basics, IoT Enabling Technologies, IoT Stack, IoT Applications, Sensor working, Sensor Characteristics, Types of sensors and working principle Sensors used in IoT

Module 2: IoT Hardware platforms   9

IoT Hardware platforms Specifications and interfaces Serial Communication Protocols Arduino IDE Arduino Programming Interfacing various sensors, modules and devices to Arduino, Python program with Raspberry PI with focus on interfacing external gadgets, controlling output, reading input from pins.

Module 3: Networking Fundamentals & Wireless for IoT   9

TCP/IP Basics, IPV6, Network devices &configurations, Web servers & Socket programming, Overview of Wireless Sensor Networks., IEEE standards for IoT, Overview of Wireless Modems (RF, GSM/GPRS, Bluetooth, RFID, Wi-Fi etc.), NodeMCU and ESP32.

Module 4: IoT Protocols   9

IoT Protocol overview, MQTT, COAP, HTTP/HTTPS, 6lowpan, UART Communication Protocol, I2C Protocol device interfacing and decoding of signal, SPI Protocol device interfacing and decoding of signal, WIFI and Router interfacing, Ethernet Configuration, Bluetooth study and analysis of data flow, Zigbee Interfacing and study of signal flow.

Module 5: Cloud platforms for IoT & Applications development   9

IoT dashboards - Introduction to various cloud platforms, Device and data management from Cloud Platforms, Uploading data from hardware platforms to cloud, Development of IoT Applications – Home Automation – Smart Agriculture – Smart Cities – Smart Healthcare.

Total: 45 Hours

LIST OF PRACTICAL EXERCISES:

1. i) Write a program to control Servo Motor (0 to 180 degree and 180 to 0 degree) using Arduino with Tinkercad simulator.
   ii) Write a program to control LED using Serial Input (using text) and Arduino with Tinkercad simulator

2. To interface LED/Buzzer with Arduino/Raspberry Pi and write a program to turn ON LED for 1 sec after every 2 seconds.

3. To interface Push button / Digital Sensor (IR/LDR) with Arduino/Raspberry Pi and write a program to turn ON LED when push button is pressed or at sensor detection.

4. To interface DHT11 Sensor with Arduino/Raspberry Pi and write a program to print temperature and humidity readings.

5. To interface motor using relay with Arduino/Raspberry Pi and write a program to turn ON Motor when push button is pressed.

6. To interface OLED with Arduino/Raspberry Pi and write a program to display temperature and humidity readings on it.

7. To interface Bluetooth with Arduino/Raspberry Pi and write a program to send sensor data to smartphone using Bluetooth.

8. To interface Bluetooth with Arduino/Raspberry Pi and write a program to turn LED ON/OFF when "1/0" is received from smartphone using Bluetooth.

9. Write a program on Arduino/Raspberry Pi to upload temperature and humidity data to Adafruit IO Cloud.

10. Write a program to create web server with DHT11 on Arduino/Raspberry Pi to display temperature and humidity readings.

11. Write a program to create web socket on Arduino/Raspberry Pi to control LED turn ON/OFF.

12. Write a program to control Stepper motor using Google Assistance with IFTTT.

13. Write a program to control LED turn ON/OFF from Anywhere (Firebase Web App)

14. Write a program to Stepper control motor from Android App (MIT App Inventor)

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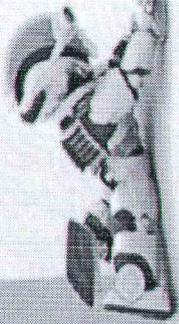## Technology Centre for E-yantra: Embedded & Robotics

Syllabus: Internet of Things (IoT)

Syllabus Competition Status

Module No	Title	Status
1.	IoT Introduction Sensors & Actuators	100%
2.	IoT Hardware platforms	100%
3.	Networking Fundamentals & Wireless for IoT	50%
4.	IoT Protocols	-
5.	Cloud platforms for IoT & Applications development	-

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Department of Electronics and Communication Engineering

Technology Centre for E-yantra: Embedded & Robotics

Syllabus: Internet of Things (IoT)

List of Activity Conducted

1. Write a program to control Servo Motor (0 to 180 degree and 180 to 0 degree) using Arduino.

2. To interface LED/Buzzer with Arduino and write a program to turn ON LED for 1 sec after every 2 seconds.

3. To interface DHT11 Sensor with Arduino and write a program to print temperature and humidity readings.

4. To interface LAMP using relay with Arduino and write a program to turn ON and OFF.

5. To interface Bluetooth with Arduino and write a program to turn LED ON/OFF when "1/0" is received from smartphone using Bluetooth.

6. Write a program to create web server on NodeMCU- ESP8266 to control Lamp turn ON/OFF.

Activity Photographs:

Department of Electronics and Communication Engineering
Technology Centre for E-yantra: Embedded & Robotics

Syllabus: Internet of Things (IoT)

Questions

1. To write a program and execute to control Servo Motor (0 to 180 degree and 180 to 0 degree) using Arduino.

2. To write and execute an interface LED/Buzzer with Arduino and write a program to turn ON LED for 1 sec after every 2 seconds.

3. To interface LAMP using relay with Arduino and write a program to turn ON and OFF

4. To interface DHT11 Sensor with Arduino and write a program to print temperature and humidity readings.

5. To write and execute a C++ program using a suitable Gas sensor and microcontroller for detecting LPG gas leak.

6. To develop and execute a C++ program using a suitable sensor and microcontroller to control morning alarm and night lamp.

7. To develop and execute a C++ program using a suitable microcontroller and ultrasonic sensor to accurately measure the distance between the sensor and an object.

8. To interface Bluetooth module with Arduino and write a program to turn LED ON/OFF when "1/0" is received from smartphone using Bluetooth.

9. Write a program to create web server on NodeMCU- ESP8266 to control Lamp turn ON/OFF.

10. To write and execute a C++ program using a NodeMCU-ESP8266 microcontroller to control LED ON and OFF using Adafruit IO Cloud.

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Chenai - 603103.

Internal Examiner   **External Examiner**

MOHAMED SATHAK
A.J. COLLEGE OF ENGINEERING

34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.

CERTIFICATE
— OF COMPLETION —

This is to certify that Mr. / Ms _____ Maheswaran R   III ECE _____ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I.Manju
Head - IQAC & HoD/ECE

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Dr. K.S. Srinivasan
Principal

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34. Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.

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This is to certify that Mr. / Ms ___ A.Abdul Baasit III ECE ___ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on " Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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NAAC A

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OF COMPLETION
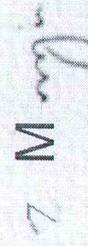
This is to certify that Mr. / Ms _____ Mohamed Yahya N.I III ECE _____ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head – IQAC & HoD/ECE

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CERTIFICATE
— OF COMPLETION —
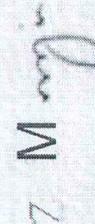
This is to certify that Mr. / Ms _____ Kishore.D III ECE _____ student of Mohamed Sathak A J College of Engineering, Chennai has successfully Completed the Technology Centre Course on" Foundation of IoT " from 02nd August 2023 to 25th October 2023 Conducted by Centre for E-yantra: Embedded and Robotics, Department of Electronics and communication engineering.

Mr.M.Ashok kumar
Course coordinator

Dr. I. Manju
Head - IQAC & HoD/ECE

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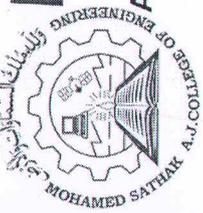Sipcot - IT Highway Egattur,
Chennai - 603103.

Dr. K.S. Srinivasan
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic Year: 2023-2024 ODD

TCC - Electric Vehicle Design

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

VALUE ADDED COURSE - COURSE CONTENT

Department of Electrical and Electronics Engineering

Class : III Year / V Semester   Academic Year:2023 - 24

Name of the Value Added Course	Electric Vehicles	Name of the handling Faculty	Mrs. A. Gayathri

Course Objective
To present a comprehensive overview of Eectric and Hybrid Electric Vehices
To study about the working of Electric Vehicle
To impact the knowledge on energy storage devices
To learn electric vehicle drive systems
To understand the configuration of hybrid vehiclec

Course Outcome
After completing this course, students should demonstrate competency in the following skills:
Analysis the confuguration and control methods of Electric propulsion unit
Summarize the factors that control battery operational characteristics and the primary mechanisms
Describe the basic fundamentals and working principles of electric machines
Analysis the transmission characteristics and mathematical model of electric vehicles
Describe the energy management strategies used in hybrid and electric vehicles

Lesson Plan for VAC

Sl. No.	Topic	T / R* Book	Periods Required	Mode of Teaching
	Hardware			
1	Hardware components used in Electric Vehicle	T1	1	BB
2	Controller Connections	T1	1	BB
3	Battery Connections	T1	1	BB
4	Motor Connections	T2	1	BB
5	Accessories Connection	T2	1	BB
6	Assembling all components to Vehicle	T2	1	BB
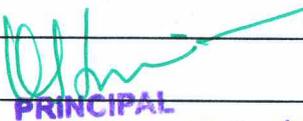
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Simulation Fundamentals for the converters in MATLAB				
7	Introduction to the Matlab	T1	1	BB
8	Converters in Electric Vehicles	T1	2	BB
9	DC-DC Converter Types and uses in EV's	T1	1	BB
10	Simulation of DC-DC converter	T1	2	BB
11	AC-DC Converter Types and uses in EV's	T1	1	BB
12	Simulation of AC-DC converter	T1	2	BB
13	DC-AC Converter Types and uses in EV's	T1	1	BB
14	Simulation of DC-AC converter	T1	2	BB
15	AC-AC Converter Types and uses in EV's	T1	1	BB
16	Simulation of AC-AC converter	T1	2	BB
Quiz / Mini Projects / Model Develpoed if any				
1. Quiz on Battery management system				
Text / Reference Books				
1	Iqbal Hussai, "Electric & Hybrid vehicles Design Fundamentals", second edition, CRC Press, 2011.			
2	M.Ehsani, Y.Gao, S.Gay and A.Emadi, Modern Electric Hybrid electric and Fuel Cell Vehicles. CRC Press, 2015			
3	T.Denton, "Electric and Hybrid Vehicles", Routlede, 2016			
Website / URL References				
1	http://youtu.be/3E1SXG7VkQk			
2	https://youtu.be/WfiTscWVfWI			
3	https://youtu.be/tyeSahlzt3Y			
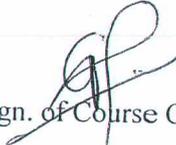
Sign. of Course Coordinator

Sign of HoD with date
Dr .JEHA.J

Head-TC
[Dr. P. SHANMUGASE

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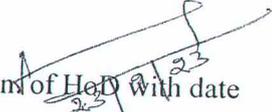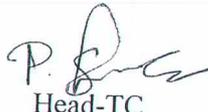
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TCC Assesment Attendance Sheet

Date: 22/11/2023

TCC Course: Electrical Vehicle Design

Total Students: 12

No. of Absentees: 0

S. No	Name of the Student	Marks for Assessment
1	HariHaran c	35
2	Mohamed Basil S	43
3	Thameem Ansaari	45
4	Abdul Malik J	50
5	M.Al Muhasif Rifath	45
6	SriKarthik V	50
7	Asma Fathima.P.T	45
8	A.Mohamed Izzat	45
9	Mohan raj.k	40
10	Nagaraj.B	38
11	Prasad N	50
12	M.Ahamed Sheik Dilliganish	Absent 45

Signature of Internal Assessor

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Electric Vehicle Design Experiments

SYLLABUS

Unit 1 Electrical Vehicle Design Hardware

Hardware components used in Electric Vehicle, Controller Connections, Battery Connections, Motor Connections, Accessories Connection and Assembling all Components to Vehicles

Unit 2 Simulation Fundamentals for the converters in MATLAB

Introduction to the Matlab, Converters in Electric Vehicles, DC-DC Converter Types and uses in EV's, Simulation of DC-DC converter, AC-DC Converter Types and uses in EV's, Simulation of AC-DC converter, DC-AC Converter Types and uses in EV's, Simulation of DC-AC converter, AC-AC Converter Types and uses in EV's, Simulation of AC-AC converter

LIST OF SUGGESTED BOOKS

1. Iqbal Hussai, "Electric & Hybrid vehicles Design Fundamentals", second edition, CRC Press, 2011.

2. M.Ehsani, Y.Gao, S.Gay and A.Emadi, Modern Electric Hybrid electric and Fuel Cell Vehicles. CRC Press, 2015

3. T.Denton, "Electric and Hybrid Vehicles", Routlede, 2016

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LIST OF EXPERIMENTS

LIST Of EXPERIMENTS

    1. Simulation on DC-DC Buck Boost Converter

    2. Simulation on DC-DC Boost Converter

    3. Simulation on AC-DC Converter

    4. Simulation on DC-DC Converter

    5. Simulation on AC- AC Converter

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CERTIFICATE OF COMPLETION

This certificate is presented to:

Mr. Dilliganesh A

of EEE Department for Completion of Technological Centre Course "Electric Vehicle Design" from 21st August 2023 to 8th November 2023

Gayathri A
Faculty Trainer

Dr S Devikala
HoD/EEE

Dr. K S Srinivasan
Principal

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Gayathri A
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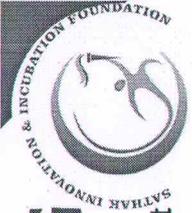
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HoD/EEE

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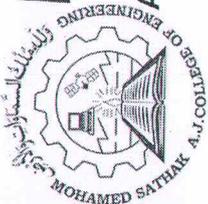
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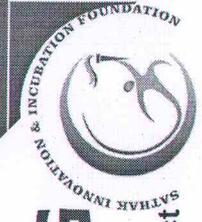Faculty Trainer

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This certificate is presented to:

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This certificate is presented to:

Mr. Abdul Malik J

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Mr. Thameem Ansaari

of EEE Department for Completion of Technological
Centre Course "Electric Vehicle Design" from 21st August
2023 to 8th November 2023

Gayathri A
Faculty Trainer

Dr S Devikala
HoD/EEE

Dr. K S Srinivasan
Principal

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This certificate is presented to:

Mr. Mohamed Basil S

of EEE Department for Completion of Technological Centre Course "Electric Vehicle Design" from 21st August 2023 to 8th November 2023

Dr. K S Srinivasan
Principal

Dr S Devikala
HoD/EEE

Gayathri A
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This certificate is presented to:

Mr. HariHaran C

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Principal

Dr S Devikala
HoD/EEE

Gayathri A
Faculty Trainer

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Department of Electrical and Electronics Engineering

Academic year: 2023-2024 ODD

Value Added Course – Electric Vehicle

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CONSOLIDATED REPORT OF VALUE ADDED COURSES OFFERED FOR THE PERIOD OF ODD SEM 2023

Department of Electrical and Electronics Engineering

| S.No | Name of the Course | Year | Sem | Period | No.of students | | Faculty Incharge |
					Enrolled	Qualified	
1	Electric Vehicle	IV	VII	August 2023 to November 2023	16		Mr. C. Venkatesh
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Course Co-ordinator   Sign of HoD with date   Head-Technology Centers

Format No :TLP 22

Rev.No: 1.0

Rev.Date : 04.01.21

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Chenai - 603103.

B.E - ELECTRICAL AND ELECTRONICS ENGINEERING

REGULATION – 2017

CHOICE BASED CREDIT SYSTEM

SYLLABUS FOR VALUE ADDED COURSE

Sl. No	Course Code	Course Title	Category	Contact Periods	L	T	P	C
1	EVA033	Electric Vehicles	EEC	2	2	0	0	2

Objectives:

➢ To present a comprehensive overview of Electric and Hybrid Electric Vehicles

➢ To study about the working of Electric Vehicle.

➢ To impart the knowledge on energy storage device.

➢ To learn electric vehicle drive systems.

➢ To understand the configuration of hybrid vehicles.

Unit I   Introduction to Electric Vehicle   6

Introduction - History of Electric Vehicle - Benefits of Electric Vehicle - Types and its challenges - Introduction to EV Motor Drives Technologies - EV Battery Charging Technologies - Electric Vehicle to Grid Connection – Regulation and Policy

Unit II   Electrical Drive and Controller   6

Types of DC and AC Motors – Selection of Motor – Torque and RPM Calculation – Motor Controlling Techniques – Function of Control Unit – Development Process – Hardware and Software Requirement.

Unit III   Electric Vehicle Drive Train Topologies   6

Introduction to Drive Train I topology in Electric Vehicle – Basic Concepts of Electric Traction – Power Flow Control – Breaking Systems – Gear and Clutch Arrangement.

Unit IV   Battery Management Systems   6

Need – Rule based Control and optimization base control – Software based High Level Supervisory control – Mode of Power – Behavior of Motor – Types of Battery – Characteristics.

Unit V   Hybrid Electric Vehicles   6

History – Importance of Hybrid Vehicle – Vehicle Performance – Power Source – Transmission Characteristics – Fuel Efficiency Analysis.

TOTAL: 30 PERIODS

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Outcomes:

After completing this course, students should demonstrate competency in the following skills:

- Analysis the configuration and control methods of Electric Propulsion unit.
- Summarize the factors that control battery operational characteristics and the primary mechanisms.
- Describe the basic fundamentals and working principles of electrical machines.
- Analysis the transmission characteristics and mathematical models of Electric Vehicles.
- Discuss the energy management strategies used in hybrid and electric vehicles.

Text Books:

1. Iqbal Hussain, "Electric & Hybrid Vehicles – Design Fundamentals", Second Edition, CRC Press, 2011.

2. M. Ehsani, Y. Gao, S. Gay and A. Emadi,Modern Electric, Hybrid Electric, and Fuel CellVehicles, CRC Press, 2005.

3. T. Denton, "Electric and Hybrid Vehicles", Routledge, 2016.

4. C. Mi, M. A. Masrur and D. W. Gao, "Hybrid Electric Vehicles: Principles and Applications with Practical Perspectives", John Wiley & Sons, 2011.

Reference:

1. S. Onori, L. Serrao and G. Rizzoni, "Hybrid Electric Vehicles: Energy Management Strategies", Springer, 2015.

2. James Larminie, "Electric Vehicle Technology Explained", John Wiley & Sons, 2003.

3. Sandeep Dhameja, "Electric Vehicle Battery Systems", Newnes, 2000.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

VALUE ADDED COURSE - COURSE CONTENT

Department of Electrical and Electronics Engineering

Class : IV/ VII   Academic Year:2023 - 24

Name of the Value Added Course	Electric Vehicles DESIGN	Name of the handling Faculty	Mr. C. Venkatesh
Course Objective			
To present a comprehensive overview of Eectric and Hybrid Electric Vehices			
To study about the working of Electric Vehicle			
To impact the knowledge on energy storage devices			
To learn electric vehicle drive systems			
To understand the configuration of hybrid vehiclec			
Course Outcome			
After completing this course, students should demonstrate competency in the following skills:			
Analysis the confuguration and control methods of Electric propulsion unit			
Summarize the factors that control battery operational characteristics and the primary mechanisms			
Describe the basic fundamentals and working principles of electric machines			
Analysis the transmission characteristics and mathematical model of electric vehicles			
Describe the energy management strategies used in hybrid and electric vehicles			

Lesson Plan for VAC

Sl. No.	Topic	T / R* Book	Periods Required	Mode of Teaching
	Unit -I Introduction to Electric Vehicle			
1	Introduction - History of Electric Vehicle	T1	1	BB
2	Benefits of Electric Vehicle - types and its challenges	T1	1	BB
3	Introduction to EV Motor drives technologies	T1	1	BB
4	EV battery charging technology	T2	1	BB
5	Electric vehicle to grid connection	T2	1	BB
6	Regulation and policy	T2	1	BB
	Unit -II Electric Drive and Controller			
7	Types of DC and AC motors - selection of motor	T1	1	BB
8	Torque and RPM calculation	T1	1	BB
9	Motor controlling techniques	T1	1	BB
10	Function of control unit	T1	1	BB
11	Development process	T1	1	BB
12	Hardware and software requirement	T1	1	BB

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING, Chennai - 603103

VAC - STUDENTS NAME LIST

Department of Electrical and Electronics Engineering

Academic Year: 2023-2024

Name of the Value Added Course : Electric Vehicles (EVA033)				
Yr / Sem : 4th Year / 7th Sem		Faculty In-charge :	Chintala Venkatesh	
Location :		Duration :	30 Hrs	
Sl.No	Name of the Student	Register No.	Status of Qualifying	Sign of Student
1	ARSHAD.K	311820105001	YES	
2	DIVYASRI S	311820105003	YES	
3	HARISHANKAR.V	311820105004	YES	
4	IMRAN R	311820105005	YES	
5	MOHAMED RASITH	311820105006	YES	
6	SWETHA MARIA FAUSTINA.S	311820105009	YES	
7	SYED HARRUN	311820105010	YES	
8	THOUFIQ AHAMED	311820105011	YES	
9	THOWFIQ M	311820105012	YES	
10	MOHAMED FAZIL. M	311820105302	YES	
11	MOHAMED SAMEER. L	311820105303	YES	
12	MOHAMED YAHYA. A	311820105304	YES	
13	MUHAMMED IMRAN. K	311820105305	YES	
14	MUZAMMIL HAQ.	311820105306	YES	
15	SYED AFRIDI. P	311820105308	YES	
16	MOHAMED UNIAS	311820105701	YES	
17				
18				
19				
20				
21				
22				
23				
24				
25				

Head-Training

Signature of HoD with date

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Sipcot - IT Highway Egattur,
Chenai - 603103.

Welcome MOHAMED UNAIS A !!

PROFILE | EXAM SCHEDULE | HRB PREVIEW | ASSESSMENT | CHAPTER DATA | ELECTIVE | GRIEVANCE

Print

Result for Nov. / Dec. Examination,2023

Register Number : 311820105701
Name : MOHAMED UNAIS A
Branch : B.E. Electrical and Electronics Engineering

Semester	Subject Code	Grade	Result
07	EE8701	B+	PASS
07	EE8702	A	PASS
07	EE8703	O	PASS
07	EE8711	O	PASS
07	EE8712	O	PASS
07	EVA033	B+	PASS
07	GE8077	A	PASS
07	OCS752	A	PASS
07	SB8059	O	PASS

Legends

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Sipcot - IT Highway Egattur,
Chenai - 603103.

Print

Result for Nov. / Dec. Examination,2023

Register Number : 311B20105012
Name : THOWFIQ M
Branch : B.E. Electrical and Electronics Engineering

Semester	Subject Code	Grade	Result
07	EE8701	B	PASS
07	EE8702	A	PASS
07	EE8703	B+	PASS
07	EE8711	O	PASS
07	EE8712	O	PASS
07	EVA053	B+	PASS
07	GE8077	B+	PASS
07	OCS752	B	PASS
07	SB8059	A+	PASS
06	EE8601	B	PASS

Legends

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Chenai - 603103.

Reg. No: ☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper

B.E/B.TECH DEGREE INTERNAL ASSESSMENT TEST-I
Fifth Semester
Electrical and Electronics Engineering
EVA033 ELECTRIC VEHICLE

(Value Added Course)

Time: 1 Hour 30 Minutes   Answer ALL questions   Maximum: 50 marks

OBJECTIVES:
- To present a comprehensive overview of Electric and Hybrid Electric Vehicles.
- To study about the working of Electric Vehicle.
- To impart the knowledge on energy storage device.
- To learn electric vehicle drive systems.
- To understand the configuration of hybrid vehicle.

OUTCOMES:
After completing the course, students should demonstrate competency in the following skills:
- CO1: Analysis the configuration and control methods of electric propulsion unit.
- CO2: Summarize the factors that control battery operational characteristics and the primary mechanisms.
- CO3: Describe the basic fundamentals and working principles of electrical machines.
- CO4: Analysis the transmission characteristics and mathematical models of electric vehicles.
- CO5: Discuss the energy management strategies used in hybrid and electric vehicles.

PART-B (5 * 8 = 40 Marks)

1. Explain about the history of Electric Vehicle? (CO-1) (BTL-K1)
2. Write briefly about benefits of electric vehicle? (CO-1) (BTL-K1)
3. Discuss about the EV Battery Charging Technologies? (CO-1) (BTL-K2)
4. Classify the Types of AC Motors and DC Motors Explain it Briefly? (CO-2) (BTL-K2)
5. What are the methods to control the speed of DC motor? (CO-2) (BTL-K2)

PART-C (2 * 20 = 40)

6. Torque and RPM Calculation of the motor? (CO-2) (BTL-K2)
7. Explain and drive the Train 1 topology in Electric vehicle? (CO-3) (BTL-K1)

*****ALL THE BEST*****

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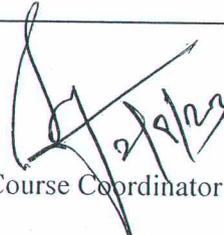Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Reg. No: ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

Question Paper

B.E/B.TECH DEGREE INTERNAL ASSESSMENT TEST-II
Fifth Semester
Electrical and Electronics Engineering
EVA033 ELECTRIC VEHICLE

(Value Added Course)

Time: 1 Hour 30 Minutes   Answer ALL questions   Maximum: 50 marks

OBJECTIVES:
- To present a comprehensive overview of Electric and Hybrid Electric Vehicles.
- To study about the working of Electric Vehicle.
- To impart the knowledge on energy storage device.
- To learn electric vehicle drive systems.
- To understand the configuration of hybrid vehicle.

OUTCOMES:
After completing the course, students should demonstrate competency in the following skills:
- CO1: Analysis the configuration and control methods of electric propulsion unit.
- CO2: Summarize the factors that control battery operational characteristics and the primary mechanisms.
- CO3: Describe the basic fundamentals and working principles of electrical machines.
- CO4: Analysis the transmission characteristics and mathematical models of electric vehicles.
- CO5: Discuss the energy management strategies used in hybrid and electric vehicles.

PART-B (5 * 8 = 40 Marks)

1. Explain Braking system and Gear & cultch arrangement (CO-3) (BTL-K2)
2. Explain of Rule based Control and optimization based control? (CO-4) (BTL-K2)
3. Explain the types of Battery and Characteristics? (CO-4) (BTL-K2)
4. Explain the software based high level supervisory control? (CO-4) (BTL-K2)
5. Explain the software based high level supervisory control? (CO-5) (BTL-K2)

PART-C (2 * 20 = 40)

6. What are the transmission characteristics of EV ? (CO-5) (BTL-K2)
7. What are the different types of hybrids? (CO-5) (BTL-K2)

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*****ALL THE BEST*****

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VALUE ADDED COURSE - COURSE CONTENT

Department of Mechanical Engineering

Class : IV Year/ VII Semester   Academic Year: 2023-24

Name of the Value Added Course	MVA022 Introduction to Multibody Dynamics	Name of the handling Faculty	Mr. Mohan S R

Course Objective

The Students will acquire to
- To present the basic theoretical knowledge of the Foundations of Multi body dynamics
- To apply the knowledge of the applications to machine and structural dynamics.
- To analyze the static and dynamic behaviour of the multi body dynamics.
- To derive the motion equation of the bodies.
- To gain the concept of motion mechanics related to applications of MBD.
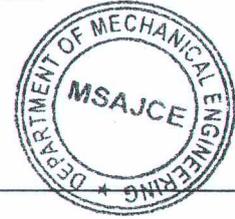
Course Outcome

Upon completion of the course,

1. Write programs to solve constrained differential equations for systems analyzing multi-body
2. Simulate and analyze all types of static behaviours of the multi-body systems including the kineto- static analysis.
3. Simulate and analyze all types of dynamic behaviours of the multi-body systems including the kineto-static analysis.
4. To derive equations of motion for interconnected bodies in multi-body systems with three-dimensional motion.
5. To Implement and analyze methods of formulating equations of motion for Inter-connected bodies.

Lesson Plan for VAC

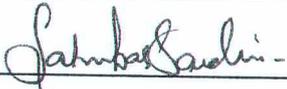| Sl. No.	Topic	T / R* Book	Periods Required	Mode of Teaching
1	The method of constraints for planar kinematic analysis	T	1	PPT & BB
2	Revolute, prismatic, gear and cam pairs are considered together with other 2 DOF	T	2	PPT & BB
3	Introduction to Basic principles for analysis of multi-body systems	T	1	PPT & BB
4	The automatic assembly of the systems of equations for position	T	2	PPT & BB
5	The principle of virtual work and Lagrange's equations	T	1	PPT & BB
6	Introduction to Dynamies of Planar Systems	T	1	PPT & BB
7	Systematic computation and assembly of mass matrix	T	2	PPT & BB
8	Computation of planar generalized forces for external forces and for actuator-spring-damper element	T	1	PPT & BB
9	Simple applications of inverse and forward dynamic analysis	T	2	PPT & BB
10	Numerical integration of first-order initial value problems	T	1	PPT & BB

11	The method of Baumgarte for the solution of mixed differential-algebraic equations of motion	T	2	PPT & BB
12	The use of coordinates partitioning, QR and SVD decomposition for the orthogonalization of constraints	T	2	PPT & BB
13	Reference frames for the location of a body in space	T	1	PPT & BB
14	Euler angles and Euler parameters	T	2	PPT & BB
15	Kinematic analysis of spatial systems	T	2	PPT & BB
16	Equations of motion of constrained spatial systems	T	2	PPT & BB
17	Exercise	T	5	PPT & BB

Quiz / Mini Projects / Model Develpoed if any

NIL

Text / Reference Books

1	De Jalo n, J.C., Bayo, E.,"Kinematic and Dynamic Simulation of Multibody Systems", Springer- Verlag,1994.
2	Kane, T.R, Levinson, D.A., "Dynamics: Theory and Applications", McGraw-Hill Book Co., 1985.

Website / URL References

1	https://www.youtube.com/watch?v=1Tyxgv7RUdk

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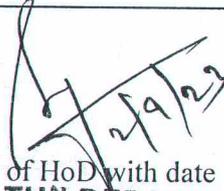
Sign. of HoD with date
HEAD OF THE DEPARTMENT
Department of Mechanical Engineering
Mohamed Sathak A.J. college of Engineering
Siruseri IT Park, Chennai - 603103.

Head-TC 3-9-23
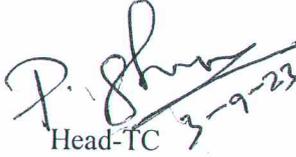
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Rev. No.: 1.0

Rev. Date:04.01.21

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MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Anna University - Value Added Course
MVA022 Introduction to Multibody Dynamics

Course Registration

AY 2023-24   IV Year / VII Semester

| S.No	Reg.No	Student Name	Signature
1	311820114001	ABUTHAGIR. J	
2	311820114002	ARUN. T	
3	311820114003	DINESH. M	
4	311820114004	IMTHIYAS. A	
5	311820114005	MANIKANDAN. K	
6	311820114006	MOHAMED AFROSE. M	
7	311820114007	MOHAMED AJMAL A.R	
8	311820114008	MOHAMED GHOUSE NAGUTHA. M	
9	311820114009	MOHAMED IJAZ. M	
10	311820114010	MOHAMED ILIYAS.S	
11	311820114011	MOHAMED ISMAIL. A	
12	311820114012	MOHAMED SATHAKKATHULLAH. M	
13	311820114013	MOHAMMED MANSOOR. S	
14	311820114014	SADHAM HUSSAIN J	
15	311820114015	SALMAN. S	
16	311820114016	SHAIK YAHOPE. B	
17	311820114017	SYED MOHAMMED SUFIYAN. S	
18	311820114018	UMAR JAFFAR ALI A	
19	311820114302	FATHEEN AHMED.M	
20	311820114303	HARIHARAN J	

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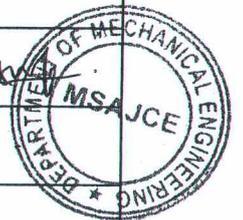
21	311820114304	HASAN HAFFIL K	
22	311820114306	KISHORE P	
23	311820114307	MOHAMED ANAS.M	
24	311820114308	MOHAMED ANSAR ALI .N	
25	311820114309	MOHAMED ASIF M	
26	311820114311	MOHAMED MUFEED H	
27	311820114313	MOHAMED YASIR S A	
28	311820114314	MOHAMED THAISEER S	
29	311820114315	MOHAMED YUSUF A	
30	311820114316	MOHANRAJ.R	
31	311820114317	MOHIDEEN AGIL ZUBAIR S	
32	311820114318	PRABHU K	
33	311820114319	SAHUBAR SATHIK N	
34	311820114320	SRIRAM.N	
35	311820114321	VASANTHA KUMAR. N	
36	311820114322	VIJAY S	
37	311820114323	YUVAN SAI V N	
38	311820114701	TAHA MAFAAZ AHMED M	
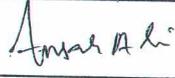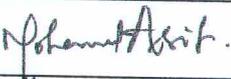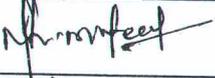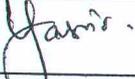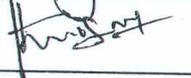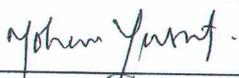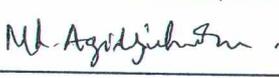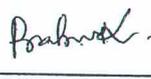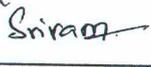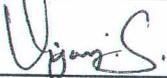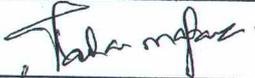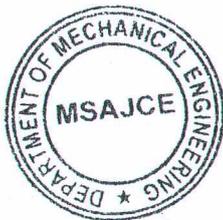
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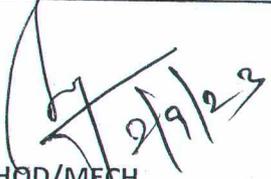
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Department of Mechanical Engineering
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Anna University Examinations Nov/Dec 2023
Department of Mechanical Engineering
MVA022 Introduction to Multibody Dynamics
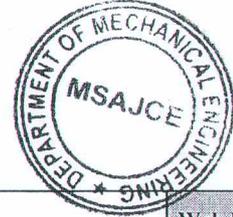
Sem: IV / VII

S.No	Reg.No	Student Name	Assesment -1		Assesment -2		Web Portal Entry
			Present / Absent	Marks (100)	Present / Absent	Marks (100)	Marks (100)
1	311820114001	ABUTHAGIR. J	P	91	P	82	87
2	311820114002	ARUN. T	P	92	P	90	91
3	311820114003	DINESH. M	P	90	P	82	86
4	311820114004	IMTHIYAS. A	P	90	P	84	87
5	311820114005	MANIKANDAN. K	P	91	P	85	88
6	311820114006	MOHAMED AFROSE. M	P	92	P	85	89
7	311820114007	MOHAMED AJMAL A.R	P	90	P	82	86
8	311820114008	MOHAMED GHOUSE NAGUTHA. M	P	90	P	88	89
9	311820114009	MOHAMED IJAZ. M	P	90	P	90	90
10	311820114010	MOHAMED ILIYAS.S	P	82	P	88	85
11	311820114011	MOHAMED ISMAIL. A	P	90	P	85	88
12	311820114012	MOHAMED SATHAKKATHULLAH. M	P	82	P	88	85
13	311820114013	MOHAMMED MANSOOR. S	P	90	P	90	90
14	311820114014	SADHAM HUSSAIN J	P	90	P	88	89
15	311820114015	SALMAN. S	P	92	P	90	91
16	311820114016	SHAIK YAHOPE. B	P	91	P	90	91
17	311820114017	SYED MOHAMMED.SUFIYAN. S	P	92	P	84	88
18	311820114018	UMAR JAFFAR ALI A	P	92	P	94	93
19	311820114302	FATHEEN AHMED.M	P	92	P	90	91
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23	311820114307	MOHAMED ANAS.M	P	90	P	80	85
24	311820114308	MOHAMED ANSAR ALI .N	P	90	P	81	86
25	311820114309	MOHAMED ASIF M	P	90	P	90	90
26	311820114311	MOHAMED MUFEED H	P	90	P	88	89
27	311820114313	MOHAMED YASIR S A	P	90	P	87	89

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S.No	Reg.No	Student Name	Assesment -1		Assesment -2		Web Portal Entry
			Present / Absent	Marks (100)	Present / Absent	Marks (100)	Marks (100)
28	311820114314	MOHAMED THAISEER S	P	85	P	85	85
29	311820114315	MOHAMED YUSUF A	P	92	P	80	86
30	311820114316	MOHANRAJ.R	P	91	P	90	91
31	311820114317	MOHIDEEN AGIL ZUBAIR S	P	90	P	85	88
32	311820114318	PRABHU K	P	91	P	78	85
33	311820114319	SAHUBAR SATHIK N	P	90	P	75	83
34	311820114320	SRIRAM.N	P	91	P	86	89
35	311820114321	VASANTHA KUMAR. N	P	92	P	92	92
36	311820114322	VIJAY S	P	91	P	85	88
37	311820114323	YUVAN SAI V N	P	90	P	86	88
38	311820114701	TAHA MAFAAZ AHMED M	P	90	P	87	89

Faculty Incharge 23/11/23

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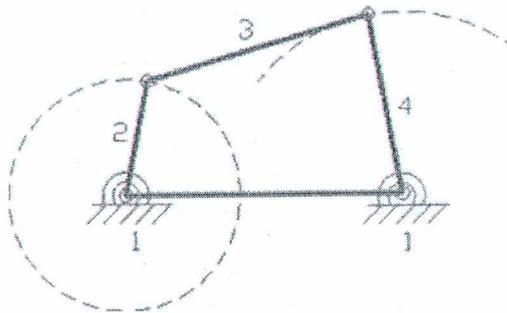# MOHAMED SATHAK A J COLLEGE OF ENGINEERING
B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC.-2023
Regulation – 2017
Seventh Semester – B.E Mechanical Engineering
Assessment - I
MVA022 Introduction to Multi Body Dynamics
(Value Added Course)
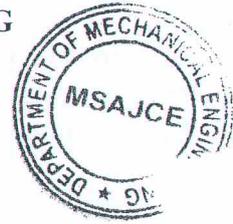
Marks : 100

Time : 3 Hrs

Answer All Questions

Part A (20×1=20 marks)

1. If we place some coins over the paper strip and pull it with a jerk, then coins don't fall off because of

   A. friction
   B. inertia
   C. resistance
   D. force

2. As weight is a force so it is a

   A. scalar quantity
   B. fixed quantity
   C. variable quantity
   D. vector quantity

3. The ratio of the force of limiting friction to normal reaction is

   A. zero
   B. constant
   C. greater than 1
   D. less than 2

4. The force that produces an acceleration of 1 ms^{-2} in a body of the mass of 1 kg is called
   A. slow newton
   B. zero newton
   C. one newton
   D. two newtons

5. When a net force act on a body, it produces acceleration in the body in the direction of the net force which is directly proportional to the net force acting on the body and inversely proportional to its mass. This statement is called

   A. newton's 2nd law of motion
   B. newton's 1st law of motion

1

12. The total number of instantaneous centers for a mechanism consisting of n links are

    A. n/2
    B. n
    C. n-1
    D. n(n-1)/2

13. Which of the following property of the instantaneous center is correct?

    A. A rigid link rotates instantaneously relative to another link at the instantaneous centre for the configuration of the mechanism considered.
    B. The two rigid links have no linear velocity relative to each other at the instantaneous centre.
    C. The velocity of the instantaneous centre relative to any third link is same whether the instantaneous centre is regarded as a point on the first link or on the second rigid link.
    D. all of the mentioned

14. The instantaneous centers which vary with the configuration of mechanism, are called

    A. permanent instantaneous centers
    B. fixed instantaneous centers
    C. neither fixed nor permanent instantaneous centers
    D. none of the mentioned

15. When two links are connected by a pin joint, their instantaneous centre lies

    A. on their point of contact
    B. at the centre of curvature
    C. at the centre of circle
    D. at the pin joint

16. A slider moving on a fixed link having constant radius of curvature will have its instantaneous centre at the center of the circle.

    A. True
    B. False

17. When the two elements of a pair have _____ when in motion, it is said to a lower pair.

    A. line or point contact
    B. surface contact
    C. permit relative motion
    D. none of the mentioned

Answer All Questions

Part C (2×20=40 marks)

26. Draw the assembly of spur gears;
    Driven gear teeth:120 and dia 12 in.
    Driving gear teeth: 40 and dia 4 in.
    Pitch angle: 20
    Thickness: 1.5 in.
    speed: 150 rpm

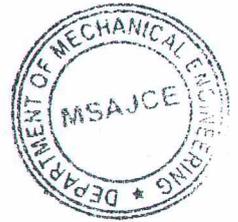27. Trace the path for the following link mechanism.

L1 = 800 mm
L2 = 200 mm
L3 = 480 mm
L4 = 560 mm

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B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC.-2023

Regulation – 2017

Seventh Semester – B.E Mechanical Engineering

Assessment - II

MVA022 Introduction to Multi Body Dynamics

(Value Added Course)

Marks : 100

Time : 3 Hrs

Answer All Questions

Part A (20×1=20 marks)

1. The two elements of a pair are said to form a _____ when they permit relative motion between them.

   a) open pair
   b) kinematic pair
   c) higher pair
   d) lower pair

2. A combination of kinematic pairs, joined in such a way that the relative motion between the links is completely constrained, is called a

   a) structure
   b) mechanism
   c) kinematic chain
   d) inversion

3. The relation between number of pairs(p) forming a kinematic chain and the number of links(l) is

   a) $l = 2p - 2$
   b) $l = 2p - 3$
   c) $l = 2p - 4$
   d) $l = 2p - 5$

4. The relation between number of links(l) and number of joints(j) in a kinematic chain is

   a) $l = 1/2\ (j+2)$
   b) $l = 2/3\ (j+2)$
   c) $l = 3/4\ (j+2)$
   d) $l = j+4$

5. The relation $l = 2/3(j+2)$ apply to kinematic chains in which lower pairs are used. This may be used to kinematic chains in which higher pairs are used, but each higher pair may be taken as equivalent to

   a) one lower pair and two additional links

11. The given figure is a velocity time diagram for which of the follower motion?
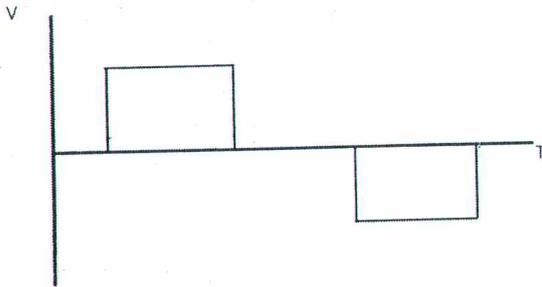
a) Simple harmonic
b) Uniform acceleration
c) Uniform velocity
d) Uniform retardation

12. If a follower is undergoing simple harmonic motion, then at what value of angle of ascent the acceleration is maximum?

a) 0
b) 30
c) 45
d) 60

13. If all the masses are in one plane, then what is the maximum no. of masses which can be placed in the same plane?

a) 3
b) 4
c) 6
d) No limitation

14. If the rotation speed of the shaft increases then the balancing mass must also increase.

a) True
b) False

15. The type of pair formed by two elements which are so connected that one is constrained to turn or revolve about a fixed axis of another element is known as

a) turning pair
b) rolling pair
c) sliding pair
d) spherical pair

16. Which of the following is a lower pair

a) ball and socket i

3

Answer All Questions

Part C (2×20=40 marks)

26. Draw the assembly of spur gears;
    Driven gear teeth:40 and dia 10cm.
    Driving gear teeth: 40 and dia 10cm.
    Pitch angle: 20
    Thickness: 2cm.
    speed: 55 rpm
27. Draw the cam follower mechanism in multibody dynamic software.
    (Use suitable dimensions)

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2	Y.ABDUL FAIZE	Business Intelligence	December 5th 2024	IBM
3	A.B.AHAMED RAASIM	Business Intelligence	December 6th 2024	IBM
4	A.AKRAM BILLAL	Business Intelligence	December 6th 2024	IBM
6	R.BALAJI	Business Intelligence	December 6th 2024	IBM
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8	P.DHIVYA	Business Intelligence	December 7th 2024	IBM
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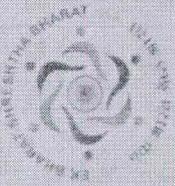
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——— Tamil Nadu/Puducherry Youth Visit to Uttarakhand ———

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Nodal Officer, Yuva Sangam, Uttarakhand

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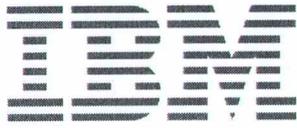**IBM Career Education Program**

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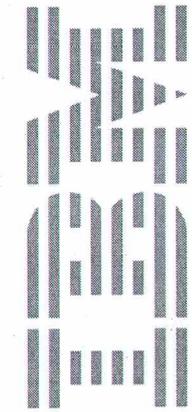**IBM Career Education Program**

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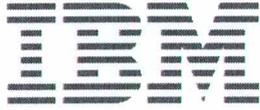**IBM Career Education Program**

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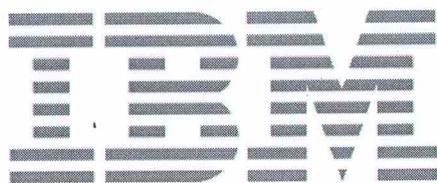
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Naleem Ahamed N

successfully completed and received a passing grade in

Business Intelligence

(CEBIA1IN, provided by IBM)

A course on ibmcep.cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
IBM Career Education Program

Jagadisha Bhat

Jagadisha Bhat

Country Manager - Software Services
IBM India Pvt Ltd

December 7, 2024

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https://courses.ibmcep.cognitiveclass.ai/certificates/899cc1f6969947e69a23de940a431987

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

This is to certify that

shah nawaas

successfully completed and received a passing grade in

Business Intelligence

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Chenai - 603103.

12/8/24, 3:43 PM

This is to certify that

Sham K A

successfully completed and received a passing grade in

Business Intelligence

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Powered by IBM Developer Skills Network.
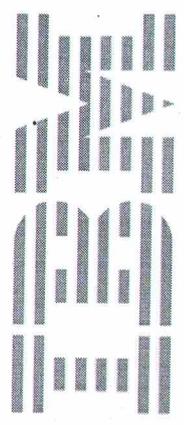
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Jagadisha Bhat

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December 8, 2024

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No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

IBM

This is to certify that

SHRIVARSA P

successfully completed and received a passing grade in

Business Intelligence

(CEBIA1IN, provided by IBM)

A course on ibmcep.cognitiveclass.ai
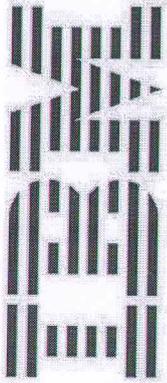Powered by IBM Developer Skills Network.

Issued by
IBM Career Education Program

Jagadisha Bhat

Country Manager - Software Services
IBM India Pvt Ltd

December 17, 2024

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PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

This is to certify that

Yasin Raj

successfully completed and received a passing grade in

Business Intelligence

(CEBIA1IN, provided by IBM)

A course on ibmcep.cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by

IBM Career Education Program

Jagadisha Bhat
Country Manager - Software Services
IBM India Pvt Ltd

December 7, 2024

PRINCIPAL

Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

This is to certify that

Varshini M

successfully completed and received a passing grade in

Business Intelligence

(CEBIAIIN, provided by IBM)

A course on ibmcep.cognitiveclass.ai
Powered by IBM Developer Skills Network.

Issued by
IBM Career Education Program

Jagadisha Bhat
Country Manager - Software Services
IBM India Pvt Ltd

December 6, 2024

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https://courses.ibmcep.cognitiveclass.ai/certificates/0e2f8cc078834b3e88f9d5f3d809b573

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Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

JAVA Training

By

SMART SKILL TECHNOLOGIES

SYLLABUS

From,

Department of Training and Placement,

MSAJCE,

To,

The Principal,

MSAJCE

Respected Sir,

Sub: Permission to conduct a Placement Training – Reg

    As we planned to conduct the placement training on JAVA Programming for industry by SMART SKILL TECHNOLOGIES for our college Third YEAR CSE, IT and EEE Placement Registered students from April Second Week. Kindly provide permission to conduct and training and use the lab 401,402,417 and 416 to conduct training and do the needful.

                Thanking You

Chennai,

02/04/2024

Yours Faithfully,

Head Training

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chennai - 603103.

Report on Java Training by SMART SKILL TECHNOLOGIES

The java class has started for the 3rd year placement at the month of mid of march and april. The college staff incharge for the java class is Mr. Vigneshwaran (Mech) and Mr.Gopi(EEE).

The class starts with basics of core-java. The incharge for the java class is Ashik and Sudarshan. It contains almost of 15 topics. The topics weretaken with the practical examples. The application or tool used for the java program workout is eclipse.

Every day after the topic completion task will be given related to the taken topics with the practical session and the task contains almost 10 to 15 questions.

The task should be submitted to the official placement group and the task were checked by the admin. If any doubt or corrections arise, it will be rectified in the training   session.

The topics will be listed below:

Day-1	Class, method,object
Day-2	Inheritance, Datatype,access modifier
Day-3	Polymorphism
Day-4	Abstraction
Day-5	Control Statements
Day-6	String functions
Day-7	Arrays
Day-8	Collection Intro
Day-9	Lists
Day-10	Userdefined List
Day-11	Linkedlist Vs Vector
Day-12	Set and types
Day-13	Constructor and types
Day-14	This and super and access specifier
Day-15	Encapsulation

Overview of Java training days:

Training of Java class	Revision of Java class	Exam	Total
15 days	4days	1 day	20days

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Mohamed Sathak A.J. College of Engineering
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Sipcot - I.T Highway Egattur,
Chenai - 603103.

The 15-day Java class training was a highly effective and comprehensive program designed to equip participants with both foundational and advanced Java programming skills. The structured curriculum, which included detailed explorations of Object-Oriented Programming (OOP) concepts and control statements, ensured that learners could grasp complex topics systematically.

Each day balanced theoretical instruction with hands-on coding sessions, fostering an environment conducive to active learning and practical application. The inclusion of daily tasks and a mini-project not only reinforced the material covered but also provided real-world context, enabling participants to solve practical problems using Java.

The interactive Q&A sessions were particularly beneficial, allowing learners to address their doubts and solidify their understanding. Overall, the training was well-received and left participants feeling confident and proficient in their Java programming   abilities.

Exam Structure

The exam had a total of 50 marks, with a pass mark set at 25 marks. The questions were structured as follows:

- Ten 2-mark Questions: These questions were designed to test the participants' understanding of basic concepts and their ability to apply these concepts in straightforward scenarios.

- Four 5-mark Questions: These questions required more detailed responses, testing participants' in-depth knowledge and their ability to solve more complex problems.

- Ten 1-mark Questions: These questions were typically short-answer , assessing quick recall of key facts and concepts.

By attended the java class, we have gained knowledge about the core-java and we have skilled with coding techniques.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Java_Interview_Sathak

Program Questions   --> Total (20 marks)
===

1. Write a program for Hierachial Inheritance(With definition)   -- (5 marks)

2. Write a program to Reverse the String (or) By using any 6 String Methods
manipulate the String variables   ---- (5 marks)

        data :   String s = "computer programming";

3   Without using String methods try to fetch the multiple of 'm' presented in
the String --- (5 marks)
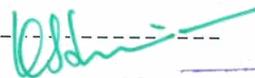
        String s = "computer programming";

4.   Do some CRUD(Create, Retrieve, Update, Delete) operation in List Interface
-(5 marks)
===
=

        Objectives --> (10 marks)

1. How to initialize the value ...?
2. How to Instanciate for LIST with generics...?
3. What is the Default package for Scanner class...?
4. What is the superclass for all the classes in java...?
5. What is the Parent Exception for all exception in Java...?
6. What is the Parent Interface for all Interface in Java...?
7. What is the Default return type of Method ...?
8. How you will represent the Array ..? choice: class, Interface, Object
9. What keyword you will use to create a own exception...?
10. what is the return type of compareTo method....?

===

        Theory ---> (20 marks) each question (2 marks)

1. Difference between Static method and Abstract Method..?
2. Difference between Collection and Array ...?
3. Explain about different Type of String...?
4. Difference between Checked and unchecked exception...?
5. Differnce between static binding and dynamic binding ...?
6. Explain about String..?
7. Explain about set Interface..?
8. Explain about map interface..?
9. What is mean by constructor...?
10. what are the type of variable...?

Java_Interview_Sathak

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==

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10. What are the type of variable...?

Mohamed Sathak AJ College of Engineering
(An AutonomousInstitution)
Department of Training
JAVA Final Test Report Conductedby SMART Skills Technologies

SI No	Name	Year	Mark out of 50	Pass or Fail	CLASS
1	Divya A	3th year	43	Pass	HIGH
2	Shree haari B	3rd year	27	Pass	MEDIUM
3	Mohammed Jameel Asfer	3rd year	43	Pass	HIGH
4	Syed mohammed mateen	3rd year	21	Fail	LOW
5	Lenatamil D	3rd year	30	Pass	MEDIUM
6	Arivukkarasu K	3rd year	40	Pass	HIGH
7	Azeel Ahmed A	3rd year	26	Pass	MEDIUM
8	Prajesh Ram V	3rd year - IT	37	Pass	HIGH
9	Uma Maheshwari E D	3rd year - CSE	32	Pass	MEDIUM
10	Keerthana T	3rd year - CSE	30	Pass	MEDIUM
11	Devi G	3rd year - CSE	26	Pass	MEDIUM
12	Laksha D	3rd year	30	Pass	MEDIUM
13	Richardson S	3rd year- CSE	35	Pass	MEDIUM
14	Karthik D	3th year - CSE	30	Pass	MEDIUM
15	Gulabi Basharath A	3th year - CSE	32	Pass	MEDIUM
16	Gokulnath R	3th year - CSE	34	Pass	MEDIUM
17	Taufeeq Ahmed	3rd year	14	Fail	LOW
18	Rufeena mehsabeen M	3th year - CSE	40	Pass	HIGH
19	Saran M	3th year	31	Pass	MEDIUM
20	Sijin R	3th year - CSE	30	Pass	MEDIUM
21	Mohamed Kauth A	3th year - IT	20	Fail	LOW
22	Shariar Sarfan S A	3th year - EEE	26	Pass	MEDIUM
23	Harini M	3th year - CSE	40	Pass	HIGH
24	Muhammed Aakif	3th year	22	Fail	LOW
25	Muhammed Irfan	3th year	13	Fail	LOW
26	Dwaraka J S	3th year	28	Pass	MEDIUM
27	Swetha S	3th year - CSE	27	Pass	MEDIUM
28	Darshini K	3th year - CSE	37	Pass	HIGH
29	Nishad Nazeer	3rd year IT	19	Fail	LOW
30	Karishma	3rd year CSE	49	Pass	HIGH
31	Kasthuri	3rd year	46	Pass	HIGH
32	Harini K	3rd year CSE	45	Pass	HIGH
33	Mohammed Isamail	3rd Year CSE	35	Pass	MEDIUM
34	yuvaraj	3rd Year	13	Fail	LOW
35	Vishal	3rd Year	1	Fail	LOW
36	Kaviya	3rd Year	41	Pass	HIGH
37	Adhil Hathim	3rd Year IT	36	Pass	HIGH
38	vishali	3rd Year CSE	48	Pass	HIGH
39	Maryam Shafa	3rd Year CSE	39	Pass	HIGH
40	Syed Zuha Tasneem	3rd Year CSE	39	Pass	HIGH
41	Nabeeha Rahim	3rd Year CSE	41	Pass	HIGH
42	Afreen	3rd Year CSE	41	Pass	HIGH
43	Abdul Malik	3rd Year EEE	47	Pass	HIGH
44	Rithanya	3rd Year	25	Pass	MEDIUM
45	Basim	3rd Year	25	Pass	MEDIUM
46	Mohammed Owaj	3rd Year	33	Pass	MEDIUM
47	Mohammed Sameer	3rd Year CSE	25	Pass	MEDIUM
48	Hasan	3rd Year CSE	25	Pass	MEDIUM
49	Mohammed Hafiz	3rd Year	26	Pass	MEDIUM
50	Subash	3rd year CSE	36	Pass	HIGH
51	Dhanush Kumar	3rd year CSE	39	Pass	HIGH

52	Mohammed Farhan	3rd year CSE	33	Pass	MEDIUM
53	Syed Sameer Khan	3rd Year	27	Pass	MEDIUM
54	Mohammed Rizwan	3rd Year CSE	15	Fail	LOW
55	Srithar	3rd Year IT	45	Pass	HIGH
56	Manikandan	3rd Year CSE	42	Pass	HIGH
57	Abdul Basith	3rd Year	39	Pass	HIGH
58	DurgaDevi	3rd Year IT	47	Pass	HIGH
59	Farhan Basha	3rd Year CSE	26	Pass	MEDIUM
60	Akshaya A	3rd Year	43	Pass	HIGH
61	Sri balaji	3rd Year	39	Pass	HIGH
62	Nithya Sree	3rd Year	47	Pass	HIGH
63	Khaja nawaz	3rd year IT	38	Pass	HIGH
64	Rehana Khan	3rd Year	43	Pass	HIGH
65	Vengadesan	3rd year It	44	Pass	HIGH
66	Imayavarman	3rd year	44	Pass	HIGH
67	Dhanusiya	3rd year	43	Pass	HIGH
68	Sumesh	3rd year	40	Pass	HIGH
69	kalai selvan	3rd year	42	Pass	HIGH
70	Abiramasundari	3rd year	44	Pass	HIGH
71	Shameel Ahamed	3rd year	37	Pass	HIGH
72	Manikandan	3rd year	43	Pass	HIGH
73	Fazeela	3rd year	48	Pass	HIGH
74	Mohammed Farhan	3rd year	37	Pass	HIGH
75	Rakshita	3rd year	48	Pass	HIGH
76	Prarthana	3rd year	45	Pass	HIGH

Smart Skills Technologies

Certificate of Completion

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

This is to certify Mr./Ms. .... NITHYASREE G .... has successfully completed the

course .... CORE JAVA PROGRAMMING COURSE .... Dated .... APRIL 2024 ....

to .... MAY 2024 .... in Smart Skills Technologies.

Edwin
Sr. Manager - Human Resources
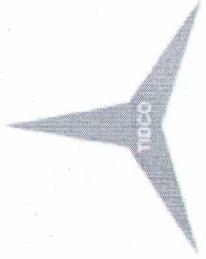
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Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

This is to certify Mr./Ms. **REHANA KHANM A** has successfully completed the

course **CORE JAVA PROGRAMMING COURSE** Dated **APRIL 2024**

to **MAY 2024** in Smart Skills Technologies.

Edwin
Sr. Manager - Human Resources

Smart Skills Technologies

Certificate of Completion

This is to certify Mr./Ms. ...... **SRI BALAJI S** ...... has successfully completed the

course ...... **CORE JAVA PROGRAMMING COURSE** ...... Dated ...... **APRIL 2024** ......

to ...... **MAY 2024** ...... in Smart Skills Technologies.

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No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Edwin
Sr. Manager - Human Resources

From,

Department of Training and Placement,

MSAJCE,

To,

The Principal,

MSAJCE

Respected Sir,

Sub: Permission to conduct a Placement Training – Reg

    As we planned to conduct the placement training on NX CAD by TANSAM Powered by SIEMENS for our college Third YEAR Mechanical Placement Registered students from April 15/04/2024 – 22/04/2024. Kindly provide permission to conduct the training and do the needful.

<div align="center">Thanking You</div>

Chennai,

02/04/2024

<div align="right">
Yours Faithfully,

Head Training
</div>

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Department of Training and Placement

Ref NO: MSAJCE/P&T/03/04
Date: 02/04/2024

CIRCULAR

This is to inform to placement registered students As we planned to conduct the placement training on NX CAD by TANSAM Powered by SIEMENS for our college Third YEAR Mechanical Placement Registered students from April 15/04/2024 – 22/04/2024. All are advised to attend the training properly without fail attendance is mandatory.

Copy To,

The Principal
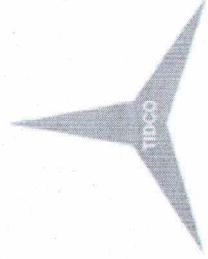
All HOD

IQAC

Yours faithfully

02/04/24.

Head Training

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Mohamed Sathak AJ College of Engineering
Department of Training and Placement
List of Students Interested for NXCAD Training by TANSAM

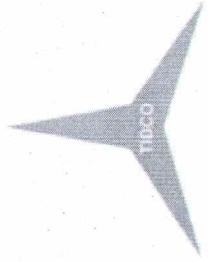| S.No	Name of the Student	Department	Year of Study
1	DHANUSH ADITHYA.S	Mechanical	3rd Year
2	SHAIK IRFAN K	Mechanical	3rd Year
3	HARI M	Mechanical	3rd Year
4	NARESH P	Mechanical	3rd Year
5	HAJI PUDHUR MYDEEN S	Mechanical	3rd Year
6	MOHAMED ANSARI N	Mechanical	3rd Year
7	ABDUL KAFFAR J	Mechanical	3rd Year
8	MOHAMED FAZID S	Mechanical	3rd Year
9	SEYED AHAMED S .T	Mechanical	3rd Year
10	SHAILESH KUMAR P	Mechanical	3rd Year
11	AADIL T	Mechanical	3rd Year
12	RASOOL MOHAMED I	Mechanical	3rd Year
13	SHAMEER AHMED. A	Mechanical	3rd Year
14	MOHAMED ANWAR T A	Mechanical	3rd Year
15	ABDUR RAHMAN J	Mechanical	3rd Year
16	SYED MOHAMED	Mechanical	3rd Year
17	MOHAMED SAMEEM P	Mechanical	3rd Year
18	CHANDRU P	Mechanical	3rd Year
19	Udhayakumar	Mechanical	3rd Year

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

SIEMENS

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TANSAM

Certificate of Completion

Presented to

This is to certify that __MOHAMED FAZID S - 31182114010__ of __Mohamed Sathak AJ College of Engineering__ pursuing Department of __B.E Mechanical Engineering,__ 3rd year has successfully completed the Internship Training Programme on **NX CAD in TANSAM** during 15th April – 22nd April, 2024. We wish him all success in his future endeavor.

Chief Executive Officer
TANSAM

Chief Operating Officer
Advanced Manufacturing / Skill
Enablement

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

April 2024

SIEMENS
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CONNECTIVITY · PRODUCTIVITY · FLEXIBILITY

April 2024

Certificate of Completion

Presented to

This is to certify that _MOHAMED ANSARIN - 31182114009_ of
Mohamed Sathak AJ College of Engineering pursuing Department of
B.E Mechanical Engineering, 3rd year has successfully completed the Internship
Training Programme on **NX CAD** in **TANSAM** during 15th April – 22nd April, 2024.
We wish him all success in his future endeavor.

Chief Executive Officer
TANSAM

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Chief Operating Officer
Advanced Manufacturing / Skill
Enablement

SIEMENS
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TANSAM

April 2024

Certificate of Completion

Presented to

This is to certify that **MOHAMED ANWAR T A - 3118211114303** of **Mohamed Sathak A J College of Engineering** pursuing Department of B.E Mechanical Engineering, 3rd year has successfully completed the Internship Training Programme on **NX CAD in TANSAM** during 15th April – 22nd April, 2024. We wish him all success in his future endeavor.

Chief Executive Officer
TANSAM

Chief Operating Officer
Advanced Manufacturing / Skill
Enablement

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Cc: jeyaraj@tansam.org, alanchryso@tansam.org

Dear Sir,
Thank you for the information. kindly let me know the no of hours required for training

With Thanks & Regards,
Vigneshwaran V
Placement Officer,
Department of Training and Placement,
Mohamed Sathak AJ College of Engineering,
7904117425
MSAJCE WEBLINK

[Quoted text hidden]

---

vinoth.s@tansam.org <vinoth.s@tansam.org>
To: Placement Officer <placement@msajce-edu.in>
Cc: jeyaraj@tansam.org, alanchryso@tansam.org

Wed, Jan 31, 2024 at 5:27 PM

Hi Sir,

The duration of both training courses is 40 hours each.

Thanks

Vinoth S

[Quoted text hidden]

Placement Officer <placement@msajce-edu.in>
To: vinoth.s@tansam.org
Cc: jeyaraj@tansam.org, alanchryso@tansam.org

Wed, Jan 31, 2024 at 5:51 PM

Thankyou very much sir I will call you tomorrow
[Quoted text hidden]

---

vinoth.s@tansam.org <vinoth.s@tansam.org>
To: Placement Officer <placement@msajce-edu.in>
Cc: jeyaraj@tansam.org, alanchryso@tansam.org, ganeshprabhu.p@tansam.org

Tue, Feb 6, 2024 at 11:52 AM

Hi Sir,

I hope this message finds you well. Following our recent discussion, I am pleased to inform you that we have reviewed and revised the quotation for NX CAD Training. I am delighted to share that we have successfully reduced the overall cost of the quotation. The revised details are outlined in the attached document. Please take a moment to review the revised quotation, and feel free to reach out if you have any questions or require further clarification.

As discussed, we can start the training program on next week from 12Feb2024, Monday. So, you may issue a purchase order for the quoted amount as soon as possible.

Thanks

Vinoth S

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

From: vinoth.s@tansam.org <vinoth.s@tansam.org>
Sent: 31 January 2024 05:28 PM
To: 'Placement Officer' <placement@msajce-edu.in>
Cc: 'jeyaraj@tansam.org' <jeyaraj@tansam.org>; 'alanchryso@tansam.org' <alanchryso@tansam.org>
Subject: RE: CAD Course Training - Reg.

M Gmail   Placement Cell <placement@msajce-edu.in>

CAD Course Training - Reg.
6 messages

Placement Officer <placement@msajce-edu.in>   Wed, Jan 31, 2024 at 12:02 PM
To: alanchryso@tansam.org
Cc: vinoth.s@tansam.org, jeyaraj@tansam.org

Dear Sir, Greetings from Mohamed Sathak AJ College of Engineering.
Our Students are willing to learn the courses related to Computer Aided Drafting, 3D Modeling and Analysis. Will you provide the courses sir? If there, let me know the course details, duration and fee. It may be helpful for the benefits for the students

With Thanks & Regards,
Vigneshwaran V
Placement Officer,
Department of Training and Placement,
Mohamed Sathak AJ College of Engineering,
7904117425
MSAJCE WEBLINK

---

vinoth.s@tansam.org <vinoth.s@tansam.org>   Wed, Jan 31, 2024 at 5:00 PM
To: Placement Officer <placement@msajce-edu.in>
Cc: jeyaraj@tansam.org, alanchryso@tansam.org

Hi Sir,

As per your requirement, we have attached the Training material & Quotation for NX CAD & Simcenter 3D FEA (Structural and Dynamics) separately. For CAD modeling training we can have the training on your premises, but for Analysis training, we would have the training on our premises. If you need any support, please contact us immediately.

Thanks&Regards

Vinoth S

Technical Head - Advance Manufacturing

TANSAM Centre of Excellence

Mob: +91 6381844247

[Quoted text hidden]

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

4 attachments

📄 **Quotation For Simcenter FEA.pdf**
159K

📄 **Quotation For NX.pdf**
159K

📄 **NX CAD Training.pdf**
848K

📄 **Simcenter 3D.pdf**
523K

Placement Officer <placement@msajce-edu.in>   Wed, Jan 31, 2024 at 5:23 PM
To: vinoth.s@tansam.org

Hi Sir,

The duration of both training courses is 40 hours each.

Thanks

Vinoth S

From: Placement Officer <placement@msajce-edu.in>
Sent: 31 January 2024 05:24 PM
To: vinoth.s@tansam.org
Cc: jeyaraj@tansam.org; alanchryso@tansam.org

[Quoted text hidden]

[Quoted text hidden]

📄 **Quotation For NX.pdf**
   159K

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

6/6/24, 2:37 PM

Mohamed Sathak A.J. College Of Engineering Mail - RE: NX CAD Course Training - Reg.

Vinoth S

Technical Head - Advance Manufacturing

TANSAM Centre of Excellence

Mob: +91 6381844247

From: Placement Officer <placement@msajce-edu.in>
Sent: 31 January 2024 12:02 PM
To: alanchryso@tansam.org
Cc: vinoth.s@tansam.org; jeyaraj@tansam.org
Subject: CAD Course Training - Reg.

Dear Sir, Greetings from Mohamed Sathak AJ College of Engineering.
Our Students are willing to learn the courses related to Computer Aided Drafting, 3D Modeling and Analysis. Will you provide the courses sir? If there, let me know the course details, duration and fee. It may be helpful for the benefits for the students

With Thanks & Regards,
Vigneshwaran V
Placement Officer,
Department of Training and Placement,
Mohamed Sathak AJ College of Engineering,
7904117425
MSAJCE WEBLINK

📄 **Quotation For NX.pdf**
159K

Placement Officer <placement@msajce-edu.in>   Tue, Apr 2, 2024 at 6:39 PM
To: vinoth.s@tansam.org
Cc: jeyaraj@tansam.org, ganeshprabhu.p@tansam.org

Respected sir,
Greetings from Mohamed Sathak AJ College of Engineering!!!

Based on our previous discussion and latest telephone conversation with you I am attaching the name list of the 19 Mechanical students who will attend the training from 03.04.2024 on NXCAD by TANSAM kindly send us the schedule and timing
With Thanks & Regards,
Vigneshwaran V
Placement Officer,
Department of Training and Placement,
Mohamed Sathak AJ College of Engineering,
7904117425
MSAJCE WEBLINK

[Quoted text hidden]

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

📄 **TANSAM NXCAD Training Student list MSAJCE.xlsx**
10K

---

vinoth.s@tansam.org <vinoth.s@tansam.org>
To: Placement Officer <placement@msajce-edu.in>
Cc: jeyaraj@tansam.org, ganeshprabhu.p@tansam.org

Greetings,

I am writing to inform you about an important update in our training program content – NX CAD Software. We have recently added new training and Topology Optimization(download it from link below) which will enhance the learning experience and provide more comprehensive coverage of ess updates will significantly benefit your students and contribute to their academic and professional success. Should you have any questions or require fu not hesitate to contact me.

We are keen to provide training programs in NX CAD, Simcenter 3D & other software for new students. Thank you for considering this proposal.

RE: NX CAD Course Training - Reg.
3 messages

---

vinoth.s@tansam.org <vinoth.s@tansam.org>   Thu, Feb 22, 2024 at 1:29 PM
To: Placement Officer <placement@msajce-edu.in>
Cc: jeyaraj@tansam.org, ganeshprabhu.p@tansam.org

Hi Sir,

    I hope this message finds you well. Following our recent discussion, I am pleased to inform you that we have reviewed and revised the quotation for NX CAD Training. I am delighted to share that we have successfully reduced the overall cost of the quotation. The revised details are outlined in the attached document. Please take a moment to review the revised quotation, and feel free to reach out if you have any questions or require further clarification.

    As discussed, we can start the training program asap. So, you may issue a purchase order for the quoted amount as soon as possible.

Thanks

Vinoth S

From: vinoth.s@tansam.org <vinoth.s@tansam.org>
Sent: 06 February 2024 11:53 AM
To: 'Placement Officer' <placement@msajce-edu.in>
Cc: 'jeyaraj@tansam.org' <jeyaraj@tansam.org>; 'alanchryso@tansam.org' <alanchryso@tansam.org>; 'ganeshprabhu.p@tansam.org' <ganeshprabhu.p@tansam.org>
Subject: RE: CAD Course Training - Reg.

Hi Sir,

    I hope this message finds you well. Following our recent discussion, I am pleased to inform you that we have reviewed and revised the quotation for NX CAD Training. I am delighted to share that we have successfully reduced the overall cost of the quotation. The revised details are outlined in the attached document. Please take a moment to review the revised quotation, and feel free to reach out if you have any questions or require further clarification.

    As discussed, we can start the training program on next week from 12Feb2024, Monday. So, you may issue a purchase order for the quoted amount as soon as possible.

Thanks

Vinoth S

From: vinoth.s@tansam.org <vinoth.s@tansam.org>
Sent: 31 January 2024 05:28 PM
To: 'Placement Officer' <placement@msajce-edu.in>
Cc: 'jeyaraj@tansam.org' <jeyaraj@tansam.org>; 'alanchryso@tansam.org' <alanchryso@tansam.org>
Subject: RE: CAD Course Training - Reg.

Hi Sir,

The duration of both training courses is 40 hours each.

Thanks

Vinoth S

From: Placement Officer <placement@msajce-edu.in>
Sent: 31 January 2024 05:24 PM
To: vinoth.s@tansam.org
Cc: jeyaraj@tansam.org; alanchryso@tansam.org
Subject: Re: CAD Course Training - Reg.

Dear Sir,
Thank you for the information. kindly let me know the no of hours required for training

With Thanks & Regards,
Vigneshwaran V
Placement Officer,
Department of Training and Placement,
Mohamed Sathak AJ College of Engineering,
7904117425
MSAJCE WEBLINK

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

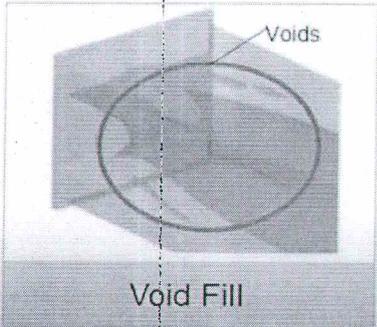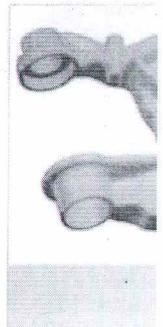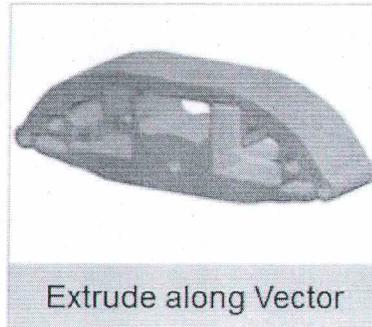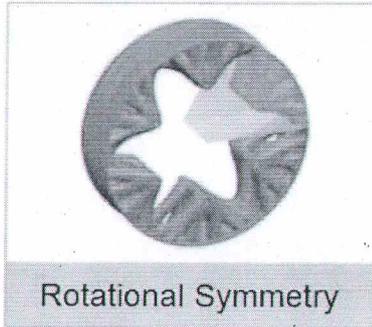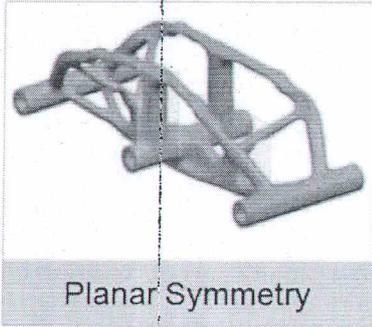On Wed, Jan 31, 2024 at 5:01 PM <vinoth.s@tansam.org> wrote:

  Hi Sir,

    As per your requirement, we have attached the Training material & Quotation for NX CAD & Simcenter 3D FEA (Structural and Dynamics) separately. For CAD modeling training we can have the training on your premises, but for Analysis training, we would have the training on our premises. If you need any support, please contact us immediately.

  Thanks&Regards

Topology Optimization
Design Constraints

SI

Planar Symmetry	**Rotational Symmetry**	**Extrude along Vector**
Voids — **Void Fill**	**Material Spreading**	**Overhang Prevention**

Self-S

https://drive.google.com/drive/folders/1lryoC13KnL9fCXVcdbpxBu4-F7o3y3S3?usp=drive_link

https://www.youtube.com/watch?v=i1N1XmEMIDk&ab_channel=SiemensSoftware

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Thanks & regards,

TANSAM
Powered by SIEMENS
4.0 READY

Vinoth S

Technical Lead - Advance Manufacturing

TANSAM Centre of Excellence

vinoth.s@tansam.org I www.tansam.org

[Quoted text hidden]

2 attachments

image001.png
1K

image003.wmz
227K
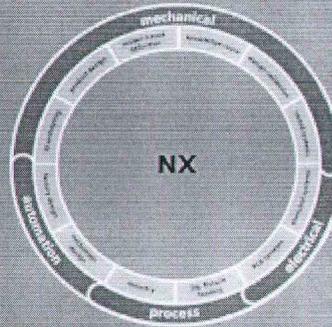
About NX CAD

NX is the next generation design platform that removes barriers to innovation. Seamlessly combining multiple disciplines, NX enables more iterations by both experts and non-experts, and utilizes the latest manufacturing methods to ensure you recognize the value digitalization and deliver the best designs to market faster. You need a single platform that contains all the tools to break down the barriers between disciplines. NX allows all of your engineers and designers to collaborate and share information across the traditional barriers that exist in a single discipline solution. The NX platform allows your enterprise a complete solution that takes advantage of the data without having to re-master the data in another system. NX takes your innovation to the next level by removing barriers.

NX for Digital Product Development

NX CAD
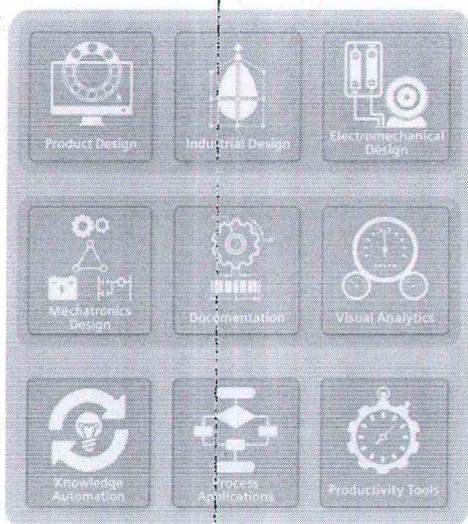
NX accelerates innovation by helping you leverage knowledge, automate processes, evaluate ideas and manage change efficiently.

- A unified, integrated solution built on advanced hybrid CAD tools
- Knowledge driven automation
- Simulation & validation
- Managed development environment

NX for Design is an integrated product design solution that streamlines and accelerates the product development process for engineers who need to deliver innovative products in a collaborative environment.

Unlike CAD-only solutions and closed enterprise solutions, NX for Design offers the highest level of integration between development disciplines in an open, collaborative environment
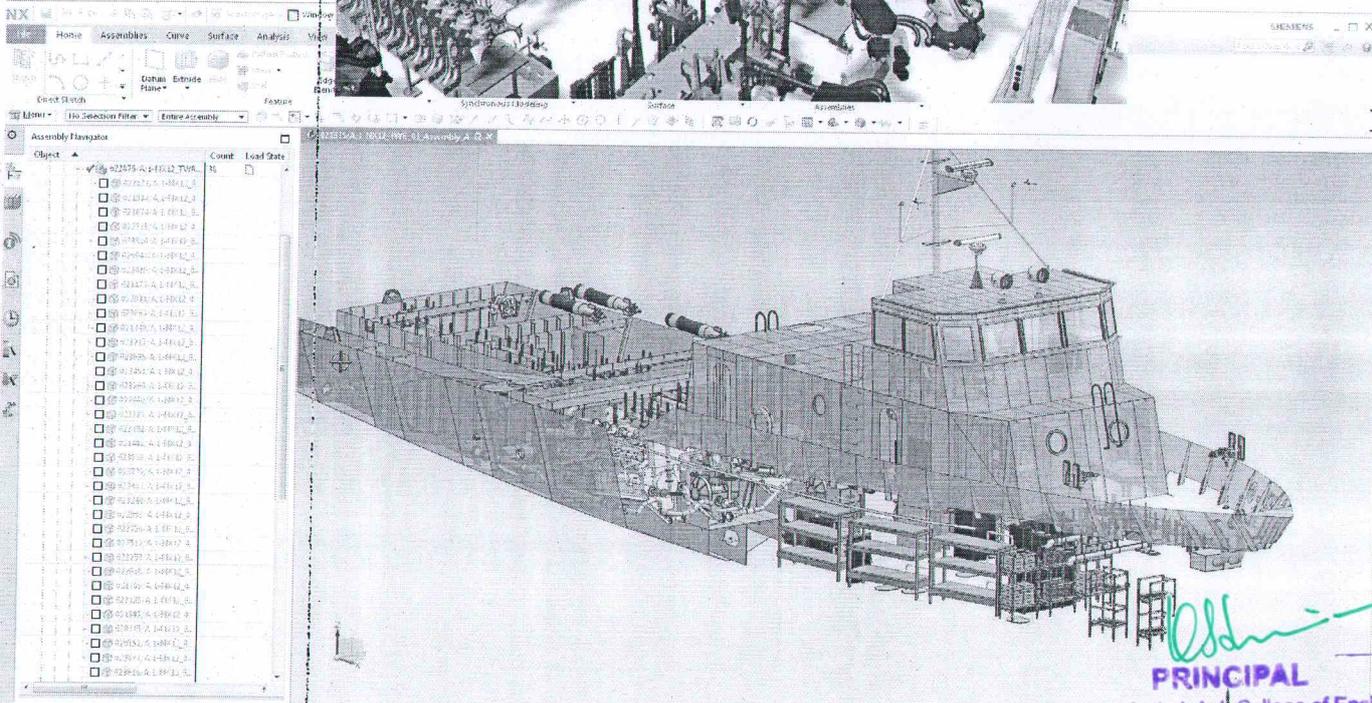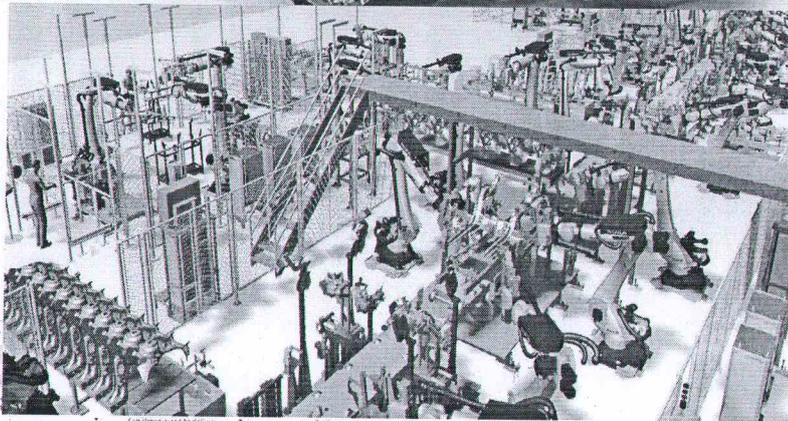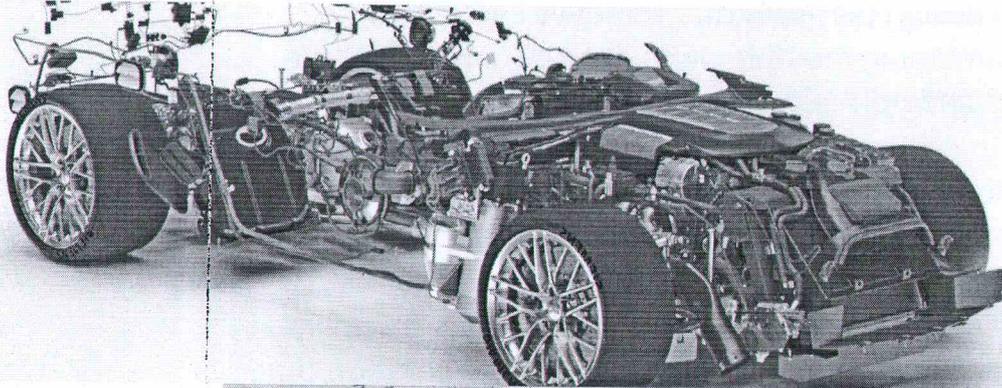
NX >> Home

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Industry Applications

In nearly 80% of orders, a leading bearings manufacturing handles customization requests for their bearings. To maintain a competitive edge and continue creating customized pieces, the company needed complete control of the product from design to delivery. They chose NX for CAD, Simcenter (CAE) for performance prediction, NX for CAM and Teamcenter for PLM (product lifecycle management) so that all stakeholders used the same data and workflows to make decisions. Now, NX CAD allows their engineers to design new ideas rapidly and efficiently, while also handling design data coming from customers who use different CAD software. And the associativity between NX applications eliminates errors and ensures all files are up-to-date.

Course Outline

Introduction to Mechanical CAD/CAM/CAE Software, Basic Layout NXCAD and its uses, Advantages.

Interface of NX CAD, Mouse function, Basic commands: Save, Open, Import, Export.

Modeling: Sketching, Constraint, Dimensions. **Design feature:** Extrude, Revolve, Trim body, edge blend, face blend ., etc.

Drafting: Introduction, View creation wizard, base view, update view, section view. Annotations, dimensions, tables. Custom symbol, drawing format.

Surface Modeling: Introduction to Surface Modeling, Extruded Surface, Ruled Surface, Through Curve, Sweep Surface, N-Sided Surface, Law Extension, Studio Surface, Extract Curves, Face Blend ., etc.

Sheet Metal Modeling: Customer defaults, Tabs, Base features, Flanges, full width flange, Contour flange, lofted flange, Corner, Three bend corner, Job, bend, unbend, Dimple, Louver, cutout, bead, solid punch ., etc.

Assembly Modeling: The Assembly Environment, Invoking the Assembly Environment , Invoking the Assembly Environment Using the Assembly, Template from the New Dialog Box, Types of Assembly Design Approaches, Creating Bottom-up Assemblies, Placing Components in the Assembly Environment, Changing the Reference Set of a Component, Applying Assembly Constraints to Components, Points to Remember while Assembling Components, Creating a Component Array in an Assembly, The Top-down Assembly Design Approach, Creating Components Using the Top-down Assembly Design Approach, Creating Subassemblies, Editing Assembly Constraints, Exploding Views., etc.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

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Presented to

This is to certify that **MOHAMED ANSARI N - 311821114009** of

Mohamed Sathak AJ College of Engineering pursuing Department of

B.E Mechanical Engineering, 3rd year has successfully completed the Internship

Training Programme on **NX CAD** in **TANSAM** during 15th April – 22nd April, 2024.

We wish him all success in his future endeavor.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Chief Operating Officer
Advanced Manufacturing / Skill
Enablement

Chief Executive Officer
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Presented to

This is to certify that **MOHAMED FAZID S - 311821114010** of **Mohamed Sathak AJ College of Engineering** pursuing Department of B.E Mechanical Engineering, 3rd year has successfully completed the Internship Training Programme on **NX CAD** in **TANSAM** during 15th April – 22nd April, 2024. We wish him all success in his future endeavor.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Chief Operating Officer
Advanced Manufacturing / Skill
Enablement

Chief Executive Officer
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Presented to

This is to certify that ____MOHAMED SAMEEM P - 31182111470____ of

____Mohamed Sathak AJ College of Engineering____ pursuing Department of

B.E Mechanical Engineering, 3rd year has successfully completed the Internship

Training Programme on **NX CAD** in **TANSAM** during 15th April – 22nd April, 2024.

We wish him all success in his future endeavor.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

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Chief Executive Officer
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Certificate Number - COE/042024/AM/214

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Certificate of Completion

Presented to

This is to certify that **SHAILESH KUMAR P - 311821114017** of **Mohamed Sathak AJ College of Engineering** pursuing Department of B.E Mechanical Engineering, 3rd year has successfully completed the Internship Training Programme on **NX CAD** in **TANSAM** during 15th April – 22nd April, 2024. We wish him all success in his future endeavor.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Chief Operating Officer
Advanced Manufacturing / Skill
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Chief Executive Officer
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Certificate of Completion

Presented to

This is to certify that **RASOOL MOHAMED I - 311821114304** of

Mohamed Sathak AJ College of Engineering pursuing Department of

B.E Mechanical Engineering, 3rd year has successfully completed the Internship

Training Programme on **NX CAD** in **TANSAM** during 15th April – 22nd April, 2024.

We wish him all success in his future endeavor.

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Chief Operating Officer
Advanced Manufacturing / Skill
Enablement

Chief Executive Officer
TANSAM

From,

Department of Training and Placement,

MSAJCE,

To,

The Principal,

MSAJCE

Respected Sir,

Sub: Permission to conduct a Placement Training – Reg

As we planned to conduct the placement training on Embedded Training Program by TVS Training and Services, Chennai at Ambattur for our college Third YEAR EEE & ECE Placement Registered students from April 25/04/2024 – 30/04/2024. Kindly provide permission to conduct the training and Usage of CAD LAB and do the needful.

Thanking You

Chennai,

Yours Faithfully,

15/04/2024

Head Training

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Department of Training and Placement

Ref NO: MSAJCE/P&T/08/04   Date: 15/04/2024

CIRCULAR

This is to inform to placement registered students As we planned to conduct the placement training on Embedded Training Program by TVS Training and Services, Chennai at Ambattur for our college Third YEAR EEE & ECE Placement Registered students from April 25/04/2024 – 30/04/2024. All are advised to attend the training properly without fail attendance is mandatory.

Copy To,   Yours faithfully

The Principal

All HOD

IQAC   Head Training

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

MOHAMED SATHAK A J COLLEGE OF ENGINEERING
DEPARTMENT OF TRAINING AND PLACEMENT
STUDENTS NAMELIST- TVS TRAINING

S.NO	NAME	DEPARTMENT-YEAR
1	DILLIGANESH A	B.E- EEE- 3RD YR
2	SYED HIFZUL RAHMAN F	B.E- EEE- 3RD YR
3	J.ABDUL MALIK	B.E- EEE- 3RD YR
4	SRI KARTHIK.V	B.E- EEE- 3RD YR
5	MOHANRAJ.K	B.E- EEE- 3RD YR
6	SANTHOSH KUMAR V	B.E- EEE- 3RD YR
7	PRASAD NAGARAJ	B.E- EEE- 3RD YR
8	AL MUHASHIF RIFATH. M	B.E- EEE- 3RD YR
9	HARIHARAN C	B.E- EEE- 3RD YR
10	MOHAMED RIYAZDEEN. M	B.E- EEE- 3RD YR
11	NAGARAJ. B	B.E- EEE- 3RD YR
12	A MOHAMED IZZAT	B.E- EEE- 3RD YR
13	KARTHICK A	B.E- EEE- 3RD YR
14	A. THIYAGU	B.E- EEE- 3RD YR
15	MOHAMED BASIL S	B.E- EEE- 3RD YR
16	S.A.SHARIAR SARFAN	B.E- EEE- 3RD YR
17	THAMEEM ANSAARI I.S	B.E- EEE- 3RD YR
18	HAARIS THAMEEM ANSARI A	B.E- ECE- 3RD YR
19	SURYA T	B.E- ECE- 3RD YR
20	R.HALITH UMAR	B.E- ECE- 3RD YR
21	A.ABDUL BAASIT	B.E- ECE- 3RD YR
22	SAFIA FARHEEN.Z.R	B.E- ECE- 3RD YR
23	MAHESWARAN R	B.E- ECE- 3RD YR
24	VENKATESH S	B.E- ECE- 3RD YR
25	SUHAIL K	B.E- ECE- 3RD YR
26	BHAVANI.H	B.E- ECE- 3RD YR
27	JAYASUDHAN.J	B.E- ECE- 3RD YR
28	MOHAMMED AATHIF.M	B.E- ECE- 3RD YR
29	SYED AFRID. I	B.E- ECE- 3RD YR
30	ARIHARAN A	B.E- ECE- 3RD YR
31	KISHORE.D	B.E- ECE- 3RD YR
32	SAHUL HAMEED T	B.E- ECE- 3RD YR
33	DINESH K.N	B.E- ECE- 3RD YR
34	KARTHIKEYAN S	B.E- ECE- 3RD YR
35	SOWNDHARYA G	B.E- ECE- 3RD YR
36	HUMAIRA NUSRATH S	B.E- ECE- 3RD YR
37	DINESH C	B.E- ECE- 3RD YR
38	NANDHINI K	B.E- ECE- 3RD YR
39	PAVITHRA S	B.E- ECE- 3RD YR
40	CHITHRA S	B.E- ECE- 3RD YR
41	ASMA FATHIMA P T	B.E- ECE- 3RD YR
42	MAJITHUL HIKKUM N	B.E- ECE- 3RD YR
43	MOHAMED IBRAHIM	B.E- ECE- 3RD YR

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

44	ANISH KUMAR.K	B.E- ECE- 3RD YR
45	GAJENDRAN R	B.E- ECE- 3RD YR
46	Suvan Kumar R	B.E- ECE- 3RD YR
47	Abinaya V	B.E- ECE- 3RD YR
48	GOPI K	B.E- ECE- 3RD YR

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

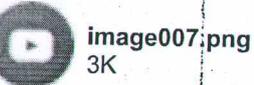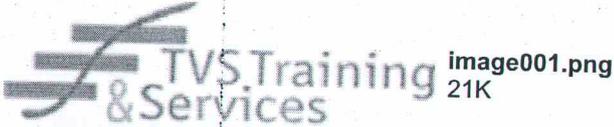M Gmail   Placement Cell <placement@msajce-edu.in>

TVS - Content & training Schedule

6 messages

Arunkumar (ADMISSIONS/TVSTS) <arunkumar.v@tvsts.com>   Sat, Apr 20, 2024 at 3:59 PM
To: placement@msajce-edu.in
Cc: principal@msajce-edu.in, "Md.Samiuddin (DGM/TVSTS)" <sam@tvsts.com>

Dear Mr. V. Vigneshwaran sir

Based on the telephone conversation and continuation of your mail, I attached the Program content and details of rescheduling, for confirmation. Please look into this and acknowledge as early as possible.

Details:

Program – Embedded (PIC, Rtos & Linux)

No.of Days – 5

Schedule date – 25, 26, 27, 29, and 30th of April 2024.

Venue – TVS Training and Services.

Timing – 9 am to 5 pm.

Note: Please share the list of students to generate LMS for pretest and posttest assessment.

Looking forward.

Thanks and Regards

Arunkumar V

Manager-B2E

TVS Training
& Services

TVS Training & Services

Plot no, 7/9A,7/9B,7/9c,MTH Road,

Ambattur Industrial Estate

Chennai - 600058

Landmark: Opposite to Kochar Apartments

Contact

+91 9840026311

044-2625 2170

arunkumar.v@tvsts.com

www.tvsts.com

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Md. Sathak - Embedded Content.pdf
415K

Placement Officer <placement@msajce-edu.in>   Sat, Apr 20, 2024 at 7:29 PM
To: "Arunkumar (ADMISSIONS/TVSTS)" <arunkumar.v@tvsts.com>
Cc: Principal <principal@msajce-edu.in>, "Md.Samiuddin (DGM/TVSTS)" <sam@tvsts.com>

Thankyou sir noted
[Quoted text hidden]

---

7 attachments

TVS Training & Services **image001.png**
21K

image002.png
4K

image003.png
4K

image004.png
4K

image005.png
5K

image006.png
4K

image007.png
3K

PRINCIPAL
Mohamed Sathak A.J. College of Engineering
No.34, Rajiv Gandhi Salai (OMR)
Sipcot - IT Highway Egattur,
Chenai - 603103.

Placement Officer <placement@msajce-edu.in>   Mon, Apr 22, 2024 at 2:09 PM
To: "Arunkumar (ADMISSIONS/TVSTS)" <arunkumar.v@tvsts.com>

Respected Sir,
Here I have attached the students name list for the training program commencing on 24.04.2024
Kindly find the attachment

[Quoted text hidden]

TVS TRAINING NAMELIST.xlsx
10K

Placement Officer <placement@msajce-edu.in>   Thu, Apr 25, 2024 at 5:15 PM
To: "Arunkumar (ADMISSIONS/TVSTS)" <arunkumar.v@tvsts.com>

Dear Sir,
Kindly request you to remove J Abdul Malik - EEE and S A Sarira Sarfan - EEE from the list 46 final students sir from tom
mostly all will attend sir

[Quoted text hidden]

Arunkumar (ADMISSIONS/TVSTS) <arunkumar.v@tvsts.com>   Mon, Apr 29, 2024 at 10:04 AM
To: Placement Officer <placement@msajce-edu.in>

Good Morning Sir

    Good Morning Sirs,

        I hereby mention the account details. Please note it, sir. Once payment is done please inform us by sharing the reference ID or UPI. Requesting you to close by today EOD sir.

Looking forward

Details

Name of the account holder: TVS Training & Services Ltd

Account Number: 00040310011667

Bank Name : HDFC Bank

Bank Branch : ITC Center, Anna Salai Branch

IFSC code : HDFC0000004

[Quoted text hidden]
[Quoted text hidden]

  [Quoted text hidden]
  [Quoted text hidden]

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Chenai - 603103.

   Thankyou sir noted

  [Quoted text hidden]

   [Quoted text hidden]

Arunkumar V

Manager-B2E

Contact

[Quoted text hidden]

TVS Training & Services

Plot no, 7/9A,7/9B,7/9c,MTH Road,

Ambattur Industrial Estate

Chennai - 600058

Landmark: Opposite to Kochar Apartments

Placement Officer <placement@msajce-edu.in>   Tue, Apr 30, 2024 at 6:18 PM
To: "Arunkumar (ADMISSIONS/TVSTS)" <arunkumar.v@tvsts.com>

Dear sir,

I writting this email to approve the following request

1. As Anna University has planned with short notice to conduct the end semester practical examination from coming Saturday I kindly request you to postpone the last two day sessions of the training we will communicate the date later

2. Regarding the payment as our management is not in the station we will complete the payment on Thursday, Friday or Saturday

3. Myself along with our principal will come to your place on thursday regarding the discussion on training for next academic year

Kindly accept the request and do the needful
My sincere apologies for the inconvenience caused

With regards,
Vigneshwaran V,
Head Training
Department of training and placement
Msajce

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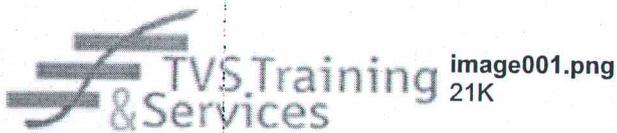
7 attachments

TVS Training & Services   **image001.png** 21K

image002.png 4K

image003.png 4K

image004.png 4K

image005.png 5K

image006.png 4K

image007.png 3K

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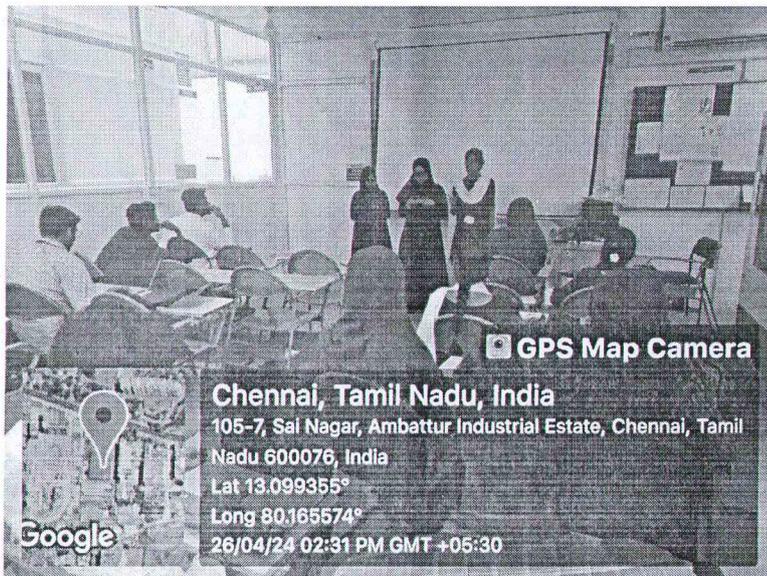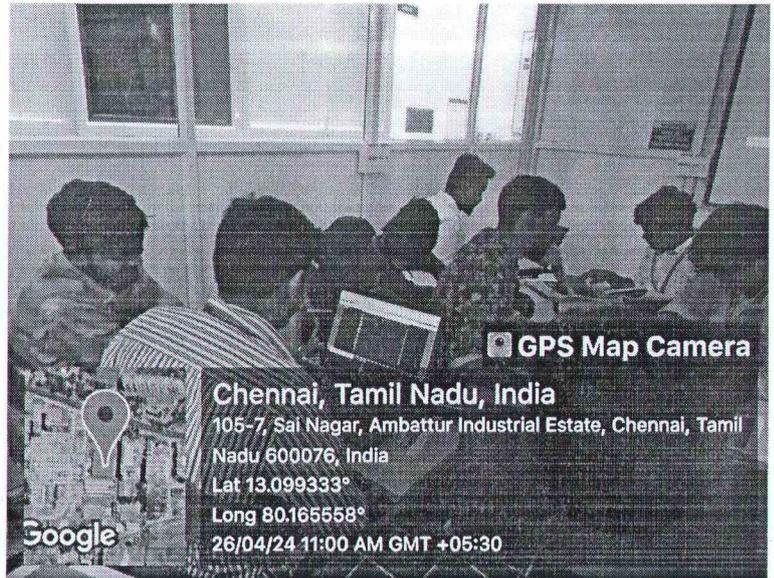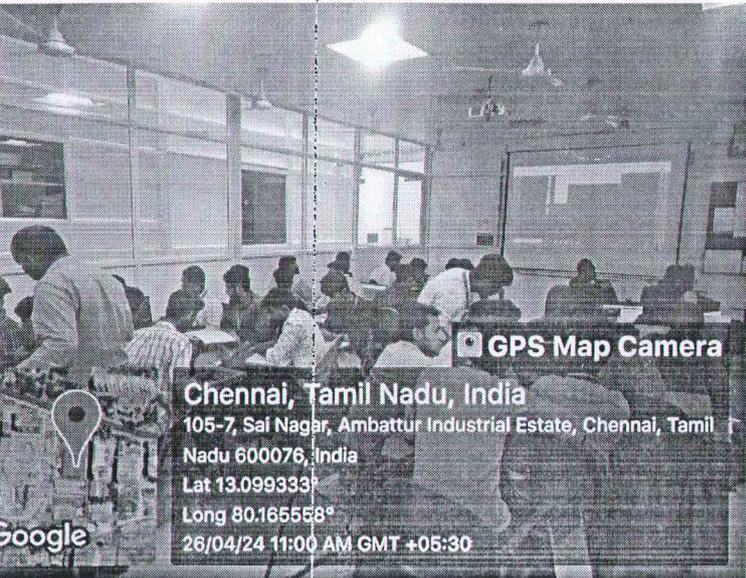# Embedded Training Program-Mohamed Sathak A.J. College Of Engineering

S No	Modules	Topics covered	Theory	Practicals	Total
1	RTOS & LINUX	1. Need for RTOS 2. Responsibility of RTOS 3. Task switch 4. Scheduling 5. ISR 6. BSP,BSO 7. Bootloader design concept 8. Interrupt management	8	8	16hrs
2	PIC microcontroller	1.Basic architecture PIC16F877A 2. Pin outs & specifications 3. Registers & Memory Management 4.IDE installation & configuration for new Project. 5. On Chip Peripherals –GPIO, PWM,ADC, 6. Timers/counter, Seria,lPorts, Interrupts,I2C,SPI	8	16	24 Hrs
				Total	40hrs
				Days	5
				Per day	8hrs

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MOHAMED SATHAK
A.J. COLLEGE OF ENGINEERING
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.

Photos during the TVS - Training Program

GPS Map Camera
Chennai, Tamil Nadu, India
105-7, Sai Nagar, Ambattur Industrial Estate, Chennai, Tamil Nadu 600076, India
Lat 13.099333°
Long 80.165558°
26/04/24 11:00 AM GMT +05:30

GPS Map Camera
Chennai, Tamil Nadu, India
105-7, Sai Nagar, Ambattur Industrial Estate, Chennai, Tamil Nadu 600076, India
Lat 13.099333°
Long 80.165558°
26/04/24 11:00 AM GMT +05:30

GPS Map Camera
Chennai, Tamil Nadu, India
105-7, Sai Nagar, Ambattur Industrial Estate, Chennai, Tamil Nadu 600076, India
Lat 13.099355°
Long 80.165574°
26/04/24 02:31 PM GMT +05:30

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CERTIFICATE

This is to certify that **Mr. Syed Hifzul Rahman F**

of **M/s. Mohamed Sathak A J College of Engineering**

has successfully completed 15 days Training on

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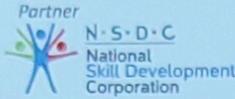
From 11th September 2024 to 30th September 2024

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Mr. G. Narayanamurthy
(CEO, TVS Training & Services Ltd.)

Partner
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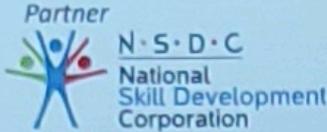
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This is to certify that **Mr. Srikarthik V**

of **M/s. Mohamed Sathak A J College of Engineering**

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This is to certify that **Mr. Karthikeyan S**

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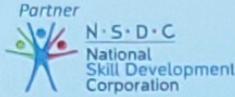(CEO, TVS Training & Services Ltd.)

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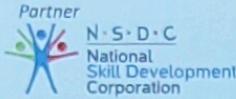
CERTIFICATE

This is to certify that **Ms. Safia Farheen Z R**

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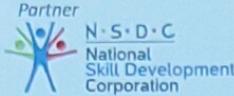Mr. G. Narayanamurthy
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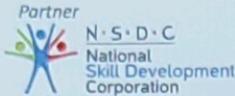(CEO, TVS Training & Services Ltd.)

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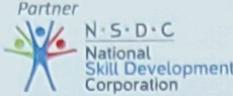(CEO, TVS Training & Services Ltd.)

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This is to certify that **Ms. Nandhini K**

of **M/s. Mohamed Sathak A J College of Engineering**

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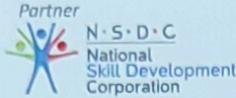(CEO, TVS Training & Services Ltd.)

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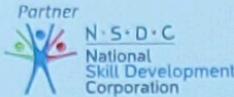**Mr. G. Narayanamurthy**
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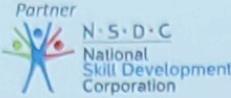(CEO, TVS Training & Services Ltd.)

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This is to certify that **Mr. Mohamed Izzat A**

of **M/s. Mohamed Sathak A J College of Engineering**

has successfully completed 15 days Training on

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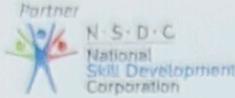Mr. G. Narayanamurthy
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of **M/s. Mohamed Sathak A J College of Engineering**

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This is to certify that **Mr. Dilliganesh A**

of **M/s. Mohamed Sathak A J College of Engineering**

has successfully completed 15 days Training on

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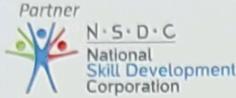Mr. G. Narayanamurthy
(CEO, TVS Training & Services Ltd.)

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This is to certify that **Mr. Mohamed Basil**

of **M/s. Mohamed Sathak A J College of Engineering**

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This is to certify that **Mr. Thameem Ansari**

of **M/s. Mohamed Sathak A J College of Engineering**

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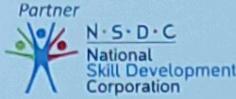(CEO, TVS Training & Services Ltd.)

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This is to certify that **Mr. Shariar Sarfan**

of **M/s. Mohamed Sathak A J College of Engineering**

has successfully completed 15 days Training on

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of **M/s. Mohamed Sathak A J College of Engineering**

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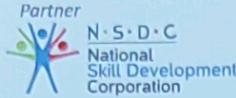
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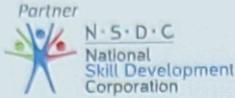(CEO, TVS Training & Services Ltd.)

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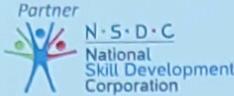**Mr. G. Narayanamurthy**
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Topics Covered

Module	Topics	Duration (In Hrs)	
		Theory	Practical
Fundamental of electronics	Basic concepts of Electronics , Test & measurement equipment's & Classification of components	4	4
	Analog signal & Signal conditioning		
	Digital signal & Signal converter		
	Registers, Memory		
	Digital to Analog Converter		
	Basics, Digital vs Analog data, Number systems & conversions , Memory scales, Memory types and applications.		
	Logic gates - AND, OR, NOT, NAND, NOR , ExOR, ExNOR gates		
	Combinational circuits & Sequential circuits		
	Brief of FLipFLop and counters - 4 Bit Binary counter using T flipflop Simulation		
Embedded C programming concepts	Introduction of C Programming	2	6
	Functions , Arrays , Pointers ,Structures and Unions		
	Dynamic Memory Allocation		
	Enumerated data types		
	File Handling Concepts		
	Command line Arguments		
	Sorting and Searching Techniques		
PIC Microcontroller	Architecture PIC16F877A	4	12
	Pin outs & specifications		
	Registers & Memory Management		
	IDE installation & configuration for new project		
	On Chip Peripherals –		
	GPIO, PWM,ADC,Timers/counter, Serial Ports, Interrupts,I2C,SPI		
Internet of Things using smart devices using Raspberry pi	Introduction to IoT	8	24
	IoT Simulation		
	Interfacing Sensors Overview of Sensor		
	Wireless Networking & IoT protocols		
	Cloud Platform for IoT		
Schematics & PCB Design	Schematic and PCB Design	4	20
	Soldering procedure & its types		
	Equipment selection		
	Defects & their causes		
	Inspection Standards		
Mini Projects	To design and devlop product based project (Group Activity)	0	24
Emerging Technology	Awareness on Industry 4.0		8
TOTAL (THEORY + PRATICALS)		22	98
Total Training Hours		120	

From,

Department of Training and Placement,

MSAJCE,

To,

The Principal,

MSAJCE

Respected Sir,

Sub: Permission to conduct a Placement Training – Reg

As we planned to conduct the placement training on Introduction to Python by IBM First Year Placement Registered students Phase 1- from 21/12/2023 to 30/12/2023 and Phase 2- From 12/01/2024 – 19/01/2024. Kindly provide permission to conduct the training and Usage of Lab and do the needful.

Thanking You

Chennai,

13/12/2023

Yours Faithfully,

13/12/2023

Head Training

Department of Training and Placement

Ref NO: MSAJCE/P&T/11/12   Date: 13/12/2023

CIRCULAR

This is to inform to placement registered students As we planned to conduct the placement training on Introduction to Python by IBM First Year Placement Registered students Phase 1- from 21/12/2023 to 30/12/2023 and Phase 2- From 12/01/2024 – 19/01/2024. All are advised to attend the training properly without fail attendance is mandatory.

Copy To,   Yours faithfully

The Principal

All HOD

IQAC   Head Training

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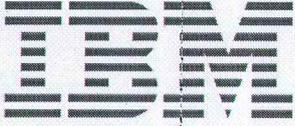
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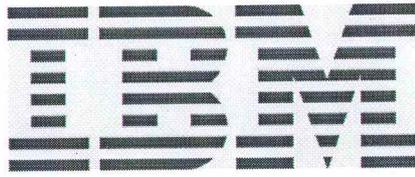
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