



MOHAMED SATHAK A J COLLEGE OF ENGINEERING

Sponsored by Mohamed Sathak Trust

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Siruseri IT Park, Egattur, Chennai 603 103

Add on/Certificate programs

Academic Year 2020 – 2021

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



MOHAMED SATHAK A J COLLEGE OF ENGINEERING

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Siruseri IT Park, Egattur, Chennai 603 103

Value Added Course

2020-2021

S.No	Name of Add on / Certificate programs offered	Course Code(if any) Collaboration Details	Year of offering	Number of students completing the course this year	Type of Add-on Course
1	3D Infra Structural Modelling	CVA034	2020-2021	18	One Credit VAC(Approved By Anna University)
2	Advanced Python and Introduction to Machine Learning	IVA018	2020-2021	41	One Credit VAC(Approved By Anna University)
3	IOT using Arduino	IVA067	2020-2021	8	One Credit VAC(Approved By Anna University)
4	Programming Foundation with Javascript, HTL and CSS	-	2020-2021	15	Self Framed Course
5	Electric Vehicle	EVA033	2020-2021	5	One Credit VAC(Approved By Anna University)
6	LabView	-	2020-2021	10	Self Framed Course
7	Introduction to Multi Body Dynamics	MVA022	2020-2021	44	One Credit VAC(Approved By Anna University)
8	Fusion 360 Modeling and Assembly	-	2020-2021	26	Self Framed Course
9	PC Hardware Networking & Troubleshooting	-	2020-2021	149	Self Framed Course


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Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

APPLICATION FOR CONDUCTING VALUE ADDED COURSES

1. Name of the Department : Computer Science and Engineering & Information Technology
2. UG programme : B.E
- 3. Details of the Value-Added Courses:**
- a. Name of the Value Added Courses : IVA018 Advanced Python and Introduction to Machine Learning
- b. Type of Value-Added Courses : (Lab integrated theory)
- c. Short Description : Enclosure 1 enclosed - YES / NO
- d. Syllabus including Reference : Enclosure 2 enclosed - YES / NO
- 4. Target audience:**
- Semester (indicate if more than one) : VIIIth Semester only
- Others :
- 5. Details of Faculty handling the course:**
- a. Name of the Faculty handling the Value Added Course : Mrs.Sankari
- b. Details including designation and expertise : Enclosure 3 enclosed - YES / NO
- c. Contact details
- Email ID : vpsankarim@gmail.com
- Phone No : +91 9940109992
6. Tentative Time Table including dates of internal assessments : Enclosure 4 enclosed - YES / NO
7. Number of students opting for the course : 41
8. Department Consultative Committee - Minutes : Enclosure 5 enclosed - YES / NO
9. Name and Designation of the Coordinator : Mr. S.Senthilpandi, Assistant Professor, Department of Information Technology, Mohamed Sathak A J College of Engineering.

MS 13/3/21
Dec 13/3/21
Head of the Department
(with date & seal)



13/3/2021
Head of the Institution
(with date & seal)

Head of the Department
DEPARTMENT OF CSE
Mohamed Sathak A J College of Engineering
Srinagar II Park, Chennai - 603 103

PRINCIPAL
MOHAMED SATHAK A J COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road (OMR) SIPCOT - II Park,
Srinagar, Chennai - 603 103.

MS
Director, Academic Courses

PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
Srinagar II Park, Chennai - 603 103.
KANCHIPURAM DT.

Additional Controller of Examinations



Fax / Dir 22352272
CENTRE FOR ACADEMIC COURSES
 ANNA UNIVERSITY
 CHENNAI - 600 025



Dr. S.HOSIMIN THILAGAR
 DIRECTOR
 Letter No. 0387/AU/VA/CAC/FICE/2021

17.03.2021

To
 The Controller of Examinations
 Anna University
 Chennai - 25.

Sir,

Sub: A.U. - CAC - Affiliated Institutions - Value Added Courses - Reg.
 Ref: (i) Letter No. MSAJCE/PO/021/2020-21, dated:09.02.2021.
 (ii) Mail received from the college, Mohamed Sathak A.J. College of Engineering, dated:13.03.2021 and 14.03.2021.

With reference to the letter cited above, course code is allotted for the Value Added Course as mentioned below:

Sl. NO.	CODE ALLOTTED	TITLE	CREDITS			
			L	T	P	C
1.	IVA067	IOT using Arduino	1	0	2	2
2.	IVA018	Advanced Python and Introduction to Machine Learning	0	0	2	1

This is for your kind information and necessary action at your end.



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 EGATTUR 603 103.
 KANCHIPURAM DT

Yours faithfully,

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 17/3

DIRECTOR

Copy to:

1. The Principal, Mohamed Sathak A.J. College of Engineering, Siruseri, Chennai - 603 103.
2. The Chairperson, Faculty of Information and Communication Engineering, A.U., Chennai -25.
3. The Stock File.

To Dr. Manjun
 Head / TC for m/c

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (R 2017)

VALUE ADDED COURSE

IVA018 Advanced Python and Introduction to Machine Learning

TIMETABLE

The value-added course can be conducted in the summer vacation for 10 consecutive days covering 30 hours to earn 2 credits by the students.

Day (12.30 PM to 3.30 PM)	Topic	Assessment
Day 1	Unit I	-
Day 2	Unit I & II	-
Day 3	Unit II	-
Day 4	Unit II & III	-
Day 5	Unit III	Assessment Test – I
Day 6	Unit III & IV	-
Day 7	Unit IV	-
Day 8	Unit IV & V	-
Day 9	Unit V & Lab Programs	-
Day 10	Lab Programs	Assessment Test – II

ASSESSMENT I & II PATTERN

Test Duration: 1 Hour

QUESTION PAPER PATTERN:

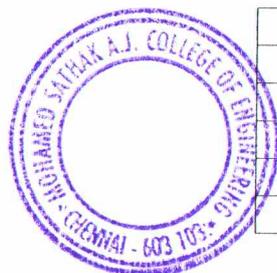
Part A (50*1 = 50 Marks) - Objective Type Questions

Part B (25*2 = 50 Marks) - Analytic & Programming Type Objective Questions



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AWARD OF GRADES:



Letter Grade	Grade Points	Marks Range
O	10	91-100
A+	9	81-90
A	8	71-80
B+	7	61-70
B	6	50-60

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

VALUE ADDED COURSE - COURSE CONTENT

Department of Information Technology

Class :IV/VII	Advanced Python and Introduction to Machine Learning		Academic Year: 2021-22
Name of the Value	Name of the handling	G Rama Mohan Reddy	

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 Buid the applion on Pandas functions
- 3 show the Plotting and Visualization
- 4 Develop the Object Oriented Programming
- 5 judge the Machine Learning concepts

Lesson Plan for VAC

Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	Creating Arrays-Numpy Data Types	T1	2	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	2	PPT
8	Series-Dataframe	T1	2	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	2	PPT
15	Figures-Subplot-Colors markers	T1	2	PPT
16	Line styles-ticks-Labels	T1	2	PPT
17	legends -drawing subplots	T1	2	PPT
18	Line Plotbarplot -Scatter plot	T1	2	PPT
19	histograms	T1	3	PPT
20	OOPS concepts	T1	2	PPT
21	creating class-Object	T1	2	PPT
22	accessing class members	T1	2	PPT
23		T1	3	PPT
24	Introduction to Machine Learning	T2	2	PPT
25	types of learning -supervised -unsupervised	T2	2	PPT
26	Kmeans Clustering	T2	2	PPT
27		T2	3	PPT

Quiz / Mini Projects / Model Develpoed if any

Quiz

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

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PRINCIPAL

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Sign of Course Coordinator



Sign of HoD with date

Head-TC

B.E COMPUTER SCIENCE AND ENGINEERING (REGULATIONS 2017)

VALUE ADDED COURSE

IVA018 Advanced Python and Introduction to Machine Learning **L T P C**
0 0 2 1

Advanced Python and Introduction to Machine Learning Course Curriculum

Objectives of this course

- To Learn Advance mathematical libraries of python
- To understand data exploration and data wrangling
- To perform data visualization, exporting and importing file contents.
- To understand basics of machine learning

Numpy 4+2
Creating Arrays-Numpy Data types-Array Mathematics-Array Manipulation-Subsetting, slicing, Indexing-boolean Indexing-Array Manipulation-Reshaping, Transposing, splitting and combining arrays-Inspecting Array and aggregating array.

Pandas 4+2
Series-Dataframe-Importing pandas, Dictionary into data frames,read and write to CSV and Excel, selecting, Boolean Indexing, setting, dropping, sorting, filling missing values, getting dataframe information and retrieving series summary and applying lambda function.

Plotting and Visualization 4+2
Figures-Subplot-Colors-Markers-Line styles-Tick -Labels-Legends-Drawing subplots-Line plot-Barplot- Scatter Plot-Histograms

Object Oriented Programming 4+2
OOPS concepts-creating class-Object-accessing class members-inheritance-abstract class

Introduction to Machine Learning 4+2
Introduction to Machine Learning – types of learning – supervised – unsupervised- Kmeans Clustering - Hierarchical Clustering

Mini Project

Pre requisite: Python Programming Total period: 20+10(Practice & project) = 30 Periods

70 00 21



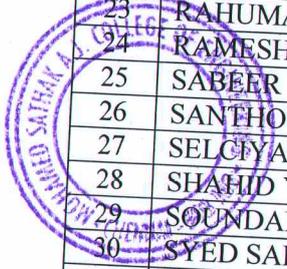
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 Siruseri IT Park, Egattur, Chennai 603 103

DEPARTMENT OF CSE

Name of the Value Added Course : Advanced Python and Introduction to Machine Learning		Faculty In charge: Mr.G.RamaMohan Reddy		
Year/Sem: IV/VII		Academic Year : 2020- 2021		
Location: Computer Lab-I		19-04-2021 to 29-04-2021		
S.No	Name of the Student	Register No	Status of qualifying	Sign of Student
1	AAYISHA M	311817104001	Yes	
2	AFROZE FATHIMA M	311817104002	Yes	
3	ASIF FAYAZ S	311817104003	Yes	
4	DINESH D	311817104004	Yes	
5	FAHIMA S	311817104005	Yes	
6	FAHIRA S	311817104006	Yes	
7	JAI BALAJI V	311817104009	Yes	
8	JASIR HUSSAIN S	311817104010	Yes	
9	JAVID ASLAM J	311817104011	Yes	
10	KESAVAN H	311817104012	Yes	
11	MANOJ K	311817104013	Yes	
12	MOHAMED FAYAZ P R	311817104014	Yes	
13	MOHAMED FUROSE H	311817104015	Yes	
14	MOHAMED NAZEER A	311817104016	Yes	
15	MOHAMED RIYAZ M	311817104017	Yes	
16	MOHAMED SAJED S	311817104018	Yes	
17	MOHAMED SUHAIL M B	311817104019	Yes	
18	MOHAMMED SULAIMAN B	311817104020	Yes	
19	NAJEEHA BANU A	311817104021	Yes	
20	NAVEEN KUMAR S	311817104022	Yes	
21	NITHYADARSHNI S	311817104023	Yes	
22	RAHAMATHULLAH K	311817104024	Yes	
23	RAHUMANGANI R	311817104025	Yes	
24	RAMESH S	311817104026	Yes	
25	SABEER AHAMED S	311817104027	Yes	
26	SANTHOSHRAJA L	311817104028	Yes	
27	SELCFYA J	311817104029	Yes	
28	SHAHID YAASER J	311817104030	Yes	
29	SOUNDARYA M	311817104031	Yes	
30	SYED SAHIR AHMED	311817104032	Yes	
31	VENKATESAN S	311817104034	Yes	

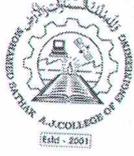


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 Head-Training

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 Signature of HoD with date

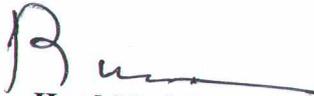


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DEPARTMENT OF IT

Name of the Value Added Course : Advanced Python and Introduction to Machine Learning				
Year/Sem: IV/VII		Faculty Incharge:		Mr.G.RamaMohan Reddy
Location: Computer Lab-II		Duration:		19-04-2021 to 29-04-2021
S.No	Name of the Student	Register No	Status of qualifying	Sign of Student
1	311817205003	Kabilan R	Yes	
2	311817205004	Mohamedhanaz N	Yes	
3	311817205005	Prakash R	Yes	
4	311817205006	Ranjith T	Yes	
5	311817205007	Vignesh V	Yes	
6	311817205008	Vishnu T	Yes	
7	311817205701	Bhavani K	Yes	
8	311817205702	Bhuvanatharshini A	Yes	
9	311817205703	Jothika M	Yes	
10	311817205704	Vinodha K	Yes	


Head-Training


Signature of HoD with date



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DEPARTMENT OF CSE

S.No	Name of the Student	Register No	19 Mar21	20 Mar21	21 Mar21	22 Mar21	23 Mar21	25 Mar21	26 Mar21	27 Mar21	28 Mar21	29 Mar21	Sign of Student
1	AAYISHA M	311817104001	/	/	/	/	/	/	/	/	/	/	/
2	AFROZE FATHIMA M	311817104002	/	/	/	/	/	/	/	/	/	/	/
3	ASIF FAYAZ S	311817104003	/	/	/	/	/	/	/	/	/	/	/
4	DINESH D	311817104004	/	/	/	/	/	/	/	/	/	/	/
5	FAHIMA S	311817104005	/	/	/	/	/	/	/	/	/	/	/
6	FAHIRA S	311817104006	/	/	/	/	/	/	/	/	/	/	/
7	JAI BALAJI V	311817104009	/	/	/	/	/	/	/	/	/	/	/
8	JASIR HUSSAIN S	311817104010	/	/	/	/	/	/	/	/	/	/	/
9	JAVID ASLAM J	311817104011	/	/	/	/	/	/	/	/	/	/	/
10	KESAVAN H	311817104012	/	/	/	/	/	/	/	/	/	/	/
11	MANOJ K	311817104013	/	/	/	/	/	/	/	/	/	/	/
12	MOHAMED FAYAZ P R	311817104014	/	/	/	/	/	/	/	/	/	/	/
13	MOHAMED FUROSE H	311817104015	/	/	/	/	/	/	/	/	/	/	/
14	MOHAMED NAZEER A	311817104016	/	/	/	/	/	/	/	/	/	/	/
15	MOHAMED RIYAZ M	311817104017	/	/	/	/	/	/	/	/	/	/	/
16	MOHAMED SAJED S	311817104018	/	/	/	/	/	/	/	/	/	/	/
17	MOHAMED SUHAIL M B	311817104019	/	/	/	/	/	/	/	/	/	/	/



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18	MOHAMMED SULAIMAN B	311817104020	/	/	/	/	/	/	/	/	/	/	/	/
19	NAJEEHA BANU A	311817104021	/	/	/	/	/	/	/	/	/	/	/	/
20	NAVEEN KUMAR S	311817104022	/	/	/	/	/	/	/	/	/	/	/	/
21	NITHYADARSHNI S	311817104023	/	/	/	/	/	/	/	/	/	/	/	/
22	RAHAMATHULLAH K	311817104024	/	/	/	/	/	/	/	/	/	/	/	/
23	RAHUMANGANI R	311817104025	/	/	/	/	/	/	/	/	/	/	/	/
24	RAMESH S	311817104026	/	/	/	/	/	/	/	/	/	/	/	/
25	SABEER AHAMED S	311817104027	/	/	/	/	/	/	/	/	/	/	/	/
26	SANTHOSHRAJA L	311817104028	/	/	/	/	/	/	/	/	/	/	/	/
27	SELCIYA J	311817104029	/	/	/	/	/	/	/	/	/	/	/	/
28	SHAHID YAASER J	311817104030	/	/	/	/	/	/	/	/	/	/	/	/
29	SOUNDARYA M	311817104031	/	/	/	/	/	/	/	/	/	/	/	/
30	SYED SAHIR AHMED	311817104032	/	/	/	/	/	/	/	/	/	/	/	/
31	VENKATESAN S	311817104034	/	/	/	/	/	/	/	/	/	/	/	/


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Signature of HoD with date

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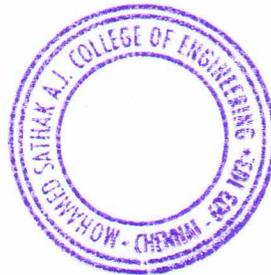


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DEPARTMENT OF IT

S.No	Register No	Name of the Student	19 Mar21	20 Mar21	21 Mar21	22 Mar21	23 Mar21	25 Mar21	26 Mar21	27 Mar21	28 Mar21	29 Mar21	Sign of Student
1	311817205003	KABILAN R	/	/	/	/	/	/	/	/	/	/	
2	311817205004	MOHAMEDHANAZ N	/	/	/	/	/	/	/	/	/	/	
3	311817205005	PRAKASH R	/	/	/	/	/	/	/	/	/	/	
4	311817205006	RANJITH T	/	/	/	/	/	/	/	/	/	/	
5	311817205007	VIGNESH V	/	/	/	/	/	/	/	/	/	/	
6	311817205008	VISHNU T	/	/	/	/	/	/	/	/	/	/	
7	311817205701	BHAVANI K	/	/	/	/	/	/	/	/	/	/	
8	311817205702	BHUVANATHARSHINI A	/	/	/	/	/	/	/	/	/	/	
9	311817205703	JOTHIKA M	/	/	/	/	/	/	/	/	/	/	
10	311817205704	VINODHA K	/	/	/	/	/	/	/	/	/	/	


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Signature of HoD with date
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KANCHIPURAM DT

85 seconds remaining

ANNA UNIVERSITY, CHENNAI -600025
CONTROLLER OF EXAMINATIONS

NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND APRIL-MAY 2021

Regno : 311817205003 Name : KABILAN R College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	B+	P
2	CS8791	Cloud Computing	B	P
3	CS8792	Cryptography and Network Security	U	F
4	IT8075	Software Project Management	B+	P
5	MG8591	Principles of Management	B	P
6	OCH752	Energy Technology	B+	P
7	CS8591	Computer Networks	A	P

8	EC8691	Microprocessors and Microcontrollers	B+	P
9	MA8551	Algebra and Number Theory	A+	P
10	OME551	Energy Conservation and Management	B+	P
11	CS8451	Design and Analysis of Algorithms	B+	P
12	CS8491	Computer Architecture	B+	P
13	CS8493	Operating Systems	B	P
14	MA8391	Probability and Statistics	A+	P
15	CS8351	Digital Principles and System Design	A+	P
16	CS8391	Data Structures	A	P
17	CS8392	Object Oriented Programming	A	P
18	EC8394	Analog and Digital Communication	B	P
19	MA8351	Discrete Mathematics	O	P
20	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
21	CS8251	Programming in C	A+	P
22	IT8201	Information Technology Essentials	A	P



PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
 EGATTUR 603 105.
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Sno	Subcode	Subname	Grade	Result
20	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
21	CS8251	Programming in C	A+	P
22	IT8201	Information Technology Essentials	A	P
23	MA8251	Engineering Mathematics - II	O	P
24	PH8252	Physics for Information Science	A	P
25	GE8152	Engineering Graphics	U	F
26	MA8151	Engineering Mathematics - I	A	P
27	PH8151	Engineering Physics	A	P
28	CS8080	Information Retrieval Techniques	B	P
29	GE8076	Professional Ethics in Engineering	A	P
30	IT8811	Project Work	B+	P
31	IT8711	FOSS and Cloud Computing Laboratory	B+	P
32	IT8761	Security Laboratory	B	P
33	IVA018	Advanced Python and Introduction to Machine Learning	A	P
34	CS8382	Digital Systems Laboratory	A	P

Sno	Subcode	Subname	Grade	Result
1	CS8591	Computer Networks	A	P
2	OME551	Energy Conservation and Management	A+	P
3	MA8391	Probability and Statistics	A+	P
4	IT8201	Information Technology Essentials	A+	P
5	CS8080	Information Retrieval Techniques	A	P
6	GE8076	Professional Ethics in Engineering	A	P
7	IT8811	Project Work	A+	P
8	IT8711	FOSS and Cloud Computing Laboratory	B+	P
9	IT8761	Security Laboratory	B	P



ANNA UNIVERSITY, CHENNAI -600025
CONTROLLER OF EXAMINATIONS

NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND APRIL-MAY 2021

Regno : 311817205004 Name : MOHAMEDHANAZ N College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	CS8591	Computer Networks	A	P
2	OME551	Energy Conservation and Management	A+	P
3	MA8391	Probability and Statistics	A+	P
4	IT8201	Information Technology Essentials	A+	P
5	CS8080	Information Retrieval Techniques	A	P
6	GE8076	Professional Ethics in Engineering	A	P
7	IT8811	Project Work	A+	P
8	IT8711	FOSS and Cloud Computing Laboratory	B+	P
9	IT8761	Security Laboratory	B	P



Mohamedhanaz N

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1	CS8591	Computer Networks	A	P
2	OME551	Energy Conservation and Management	A+	P
3	MA8391	Probability and Statistics	A+	P
4	IT8201	Information Technology Essentials	A+	P
5	CS8080	Information Retrieval Techniques	A	P
6	GE8076	Professional Ethics in Engineering	A	P
7	IT8811	Project Work	A+	P
8	IT8711	FOSS and Cloud Computing Laboratory	B+	P
9	IT8761	Security Laboratory	B	P
10	IVA018	Advanced Python and Introduction to Machine Learning	A+	P

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Regno : 311817205005 Name : PRAKASH R College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Slno	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A	P
2	CS8792	Cryptography and Network Security	B+	P
3	MG8591	Principles of Management	A	P
4	CS8080	Information Retrieval Techniques	A+	P
5	GE8076	Professional Ethics in Engineering	A+	P
6	IT8811	Project Work	A+	P
7	IT8711	FOSS and Cloud Computing Laboratory	A	P
8	IT8761	Security Laboratory	B+	P
9	IVA018	Advanced Python and Introduction to Machine Learning	A+	P



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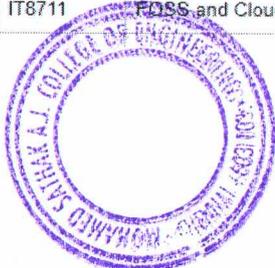
Regno : 311817205006

Name : RANJITH T

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	B+	P
2	CS8791	Cloud Computing	B+	P
3	CS8792	Cryptography and Network Security	B	P
4	IT8075	Software Project Management	B+	P
5	MG8591	Principles of Management	B	P
6	OCH752	Energy Technology	B+	P
7	CS8494	Software Engineering	B	P
8	CS8591	Computer Networks	B+	P
9	EC8691	Microprocessors and Microcontrollers	B	P

10	IT8501	Web Technology	B	P
11	OME551	Energy Conservation and Management	A	P
12	CS8492	Database Management Systems	B+	P
13	CS8493	Operating Systems	B	P
14	MA8391	Probability and Statistics	B+	P
15	CS8391	Data Structures	A	P
16	EC8394	Analog and Digital Communication	B	P
17	MA8351	Discrete Mathematics	A	P
18	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
19	PH8252	Physics for Information Science	A	P
20	MA8151	Engineering Mathematics - I	B+	P
21	CS8080	Information Retrieval Techniques	B+	P
22	GE8076	Professional Ethics in Engineering	B+	P
23	IT8811	Project Work	A+	P
24	IT8711	FOSS and Cloud Computing Laboratory	B+	P



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16	EC0094	Analog and Digital Communication	P	P
17	MA8351	Discrete Mathematics	A	P
18	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
19	PH8252	Physics for Information Science	A	P
20	MA8151	Engineering Mathematics - I	B+	P
21	CS8080	Information Retrieval Techniques	B+	P
22	GE8076	Professional Ethics in Engineering	B+	P
23	IT8811	Project Work	A+	P
24	IT8711	FOSS and Cloud Computing Laboratory	B+	P
25	IT8761	Security Laboratory	B	P
26	IVA018	Advanced Python and Introduction to Machine Learning	A+	P

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Regno : 311817205007 Name : VIGNESH V College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A	P
2	IT8075	Software Project Management	A	P
3	MG8591	Principles of Management	B	P
4	OCH752	Energy Technology	A	P
5	CS8494	Software Engineering	B+	P
6	CS8591	Computer Networks	A+	P
7	EC8691	Microprocessors and Microcontrollers	A	P
8	IT8501	Web Technology	B+	P
9	MA8551	Algebra and Number Theory	A+	P



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Sl. No.	Course Code	Course Name	Grade	Status
10	OME551	Energy Conservation and Management	A+	P
11	CS8451	Design and Analysis of Algorithms	A+	P
12	CS8491	Computer Architecture	A	P
13	CS8492	Database Management Systems	A+	P
14	CS8493	Operating Systems	B+	P
15	GE8291	Environmental Science and Engineering	A+	P
16	MA8391	Probability and Statistics	O	P
17	CS8351	Digital Principles and System Design	A+	P
18	CS8391	Data Structures	A	P
19	CS8392	Object Oriented Programming	A	P
20	EC8394	Analog and Digital Communication	B+	P
21	MA8351	Discrete Mathematics	O	P
22	BE8255	Basic Electrical, Electronics and Measurement Engineering	B+	P
23	PH8252	Physics for Information Science	A	P
24	CY8151	Engineering Chemistry	A+	P

24	CY8151	Engineering Chemistry	A+	P
25	GE8151	Problem Solving and Python Programming	A	P
26	GE8152	Engineering Graphics	B+	P
27	CS8080	Information Retrieval Techniques	A	P
28	GE8076	Professional Ethics in Engineering	A	P
29	IT8811	Project Work	B+	P
30	IT8711	FOSS and Cloud Computing Laboratory	B+	P
31	IT8761	Security Laboratory	B	P
32	CS8481	Database Management Systems Laboratory	A	P
33	IVA018	Advanced Python and Introduction to Machine Learning	A	P

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Regno : 311817205008 Name : VISHNU T College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8791	Cloud Computing	B+	P
2	IT8075	Software Project Management	B+	P
3	MG8591	Principles of Management	B	P
4	CS8494	Software Engineering	A	P
5	EC8691	Microprocessors and Microcontrollers	A	P
6	OME551	Energy Conservation and Management	A+	P
7	CS8451	Design and Analysis of Algorithms	A	P
8	CS8491	Computer Architecture	A	P
9	CS8492	Database Management Systems	A	P

10	GE8291	Environmental Science and Engineering	A	P
11	MA8391	Probability and Statistics	A+	P
12	CS8351	Digital Principles and System Design	A+	P
13	CS8391	Data Structures	A	P
14	CS8392	Object Oriented Programming	A	P
15	EC8394	Analog and Digital Communication	B+	P
16	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
17	IT8201	Information Technology Essentials	A	P
18	MA8251	Engineering Mathematics - II	O	P
19	PH8252	Physics for Information Science	A+	P
20	CS8080	Information Retrieval Techniques	A	P
21	GE8076	Professional Ethics in Engineering	A	P
22	IT8811	Project Work	A+	P
23	IT8711	FOSS and Cloud Computing Laboratory	B+	P
24	IT8761	Security Laboratory	B	P



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16	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
17	IT8201	Information Technology Essentials	A	P
18	MA8251	Engineering Mathematics - II	O	P
19	PH8252	Physics for Information Science	A+	P
20	CS8080	Information Retrieval Techniques	A	P
21	GE8076	Professional Ethics in Engineering	A	P
22	IT8811	Project Work	A+	P
23	IT8711	FOSS and Cloud Computing Laboratory	B+	P
24	IT8761	Security Laboratory	B	P
25	IVA018	Advanced Python and Introduction to Machine Learning	A+	P

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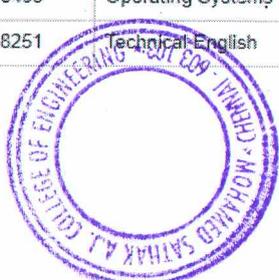


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Regno : 311817205701 Name : BHAVANI K College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A+	P
2	IT8075	Software Project Management	A+	P
3	MG8591	Principles of Management	A	P
4	OCH752	Energy Technology	O	P
5	CS8591	Computer Networks	A+	P
6	EC8691	Microprocessors and Microcontrollers	O	P
7	CS8451	Design and Analysis of Algorithms	O	P
8	CS8493	Operating Systems	A+	P
9	HS8251	Technical English	A+	P




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6	EC8691	Microprocessors and Microcontrollers	O	P
7	CS8451	Design and Analysis of Algorithms	O	P
8	CS8493	Operating Systems	A+	P
9	HS8251	Technical English	A+	P
10	CS8080	Information Retrieval Techniques	A+	P
11	GE8076	Professional Ethics in Engineering	O	P
12	IT8811	Project Work	A+	P
13	IT8711	FOSS and Cloud Computing Laboratory	A	P
14	IT8761	Security Laboratory	A	P
15	IVA018	Advanced Python and Introduction to Machine Learning	O	P
16	CS8581	Networks Laboratory	A+	P

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Regno : 311817205702 Name : BHUVANATHARSHINI College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

A

Sino	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A+	P
2	CS8791	Cloud Computing	A+	P
3	CS8792	Cryptography and Network Security	A	P
4	OCH752	Energy Technology	A+	P
5	BE8255	Basic Electrical, Electronics and Measurement Engineering	A+	P
6	CY8151	Engineering Chemistry	A+	P
7	CS8080	Information Retrieval Techniques	A+	P
8	GE8076	Professional Ethics in Engineering	A+	P
9	IT8811	Project Work	A+	P




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Sno	Subcode	Subname	Grade	Result
3	CS8792	Cryptography and Network Security	A	P
4	OCH752	Energy Technology	A+	P
5	BE8255	Basic Electrical, Electronics and Measurement Engineering	A+	P
6	CY8151	Engineering Chemistry	A+	P
7	CS8080	Information Retrieval Techniques	A+	P
8	GE8076	Professional Ethics in Engineering	A+	P
9	IT8811	Project Work	A+	P
10	IT8711	FOSS and Cloud Computing Laboratory	A+	P
11	IT8761	Security Laboratory	A	P
12	CS8461	Operating Systems Laboratory	O	P
13	IVA018	Advanced Python and Introduction to Machine Learning	O	P

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Sno	Subcode	Subname	Grade	Result
1	IT8075	Software Project Management	A+	P
2	MG8591	Principles of Management	A	P
3	OCH752	Energy Technology	O	P
4	CS8494	Software Engineering	A+	P
5	EC8691	Microprocessors and Microcontrollers	O	P
6	CS8080	Information Retrieval Techniques	A+	P
7	GE8076	Professional Ethics in Engineering	A+	P
8	IT8811	Project Work	A+	P
9	IT8711	FOSS and Cloud Computing Laboratory	A	P




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1	IT8075	Software Project Management	A+	P
2	MG8591	Principles of Management	A	P
3	OCH752	Energy Technology	O	P
4	CS8494	Software Engineering	A+	P
5	EC8691	Microprocessors and Microcontrollers	O	P
6	CS8080	Information Retrieval Techniques	A+	P
7	GE8076	Professional Ethics in Engineering	A+	P
8	IT8811	Project Work	A+	P
9	IT8711	FOSS and Cloud Computing Laboratory	A	P
10	IT8761	Security Laboratory	B+	P
11	IVA018	Advanced Python and Introduction to Machine Learning	O	P

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Regno : 311817205704 Name : VINODHAK College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	B	P
2	CS8792	Cryptography and Network Security	B+	P
3	IT8075	Software Project Management	B	P
4	MG8591	Principles of Management	B	P
5	OCH752	Energy Technology	B	P
6	CS8494	Software Engineering	A	P
7	CS8591	Computer Networks	B+	P
8	EC8691	Microprocessors and Microcontrollers	A	P
9	IT8501	Web Technology	B+	P

10	CS8451	Design and Analysis of Algorithms	A	P
11	CS8493	Operating Systems	B+	P
12	MA8391	Probability and Statistics	A+	P
13	CS8351	Digital Principles and System Design	A+	P
14	CS8391	Data Structures	A	P
15	MA8351	Discrete Mathematics	A	P
16	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
17	CS8251	Programming in C	A	P
18	PH8252	Physics for Information Science	A	P
19	GE8152	Engineering Graphics	U	F
20	MA8151	Engineering Mathematics - I	A	P
21	CS8080	Information Retrieval Techniques	B+	P
22	GE8076	Professional Ethics in Engineering	A	P
23	IT8811	Project Work	A+	P
24	IT8711	FOSS and Cloud Computing Laboratory	B+	P



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16	BE8255	Basic Electrical, Electronics and Measurement Engineering	A	P
17	CS8251	Programming in C	A	P
18	PH8252	Physics for Information Science	A	P
19	GE8152	Engineering Graphics	U	F
20	MA8151	Engineering Mathematics - I	A	P
21	CS8080	Information Retrieval Techniques	B+	P
22	GE8076	Professional Ethics in Engineering	A	P
23	IT8811	Project Work	A+	P
24	IT8711	FOSS and Cloud Computing Laboratory	B+	P
25	IT8761	Security Laboratory	B+	P
26	IVA018	Advanced Python and Introduction to Machine Learning	O	P

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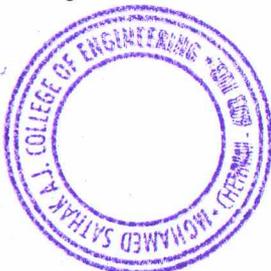
Regno : 311817104001 Name : AAYISHA M

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

SIno	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	A+	P
2	CS8811	Project Work	O	P
3	GE8076	Professional Ethics in Engineering	A+	P
4	IVA018	Advanced Python and Introduction to Machine Learning	O	P
5	CS8711	Cloud Computing Laboratory	O	P
6	IT8761	Security Laboratory	O	P

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Regno : 311817104002 Name : AFROZE FATHIMA M

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8792	Cryptography and Network Security	A	P
2	IT8075	Software Project Management	A	P
3	CS8080	Information Retrieval Techniques	A	P
4	CS8811	Project Work	A	P
5	GE8076	Professional Ethics in Engineering	A	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	UA	F
8	IT8761	Security Laboratory	UA	F



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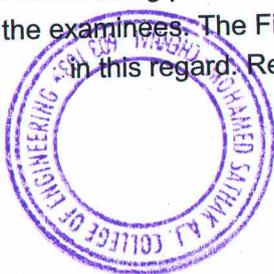
Regno : 311817104003 Name : ASIF FAYAZ S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	EC8691	Microprocessors and Microcontrollers	A	P
2	CS8080	Information Retrieval Techniques	A+	P
3	CS8811	Project Work	O	P
4	GE8076	Professional Ethics in Engineering	A+	P
5	IVA018	Advanced Python and Introduction to Machine Learning	O	P
6	CS8711	Cloud Computing Laboratory	O	P
7	IT8761	Security Laboratory	A+	P

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College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

SIno	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A	P
2	CS8791	Cloud Computing	A+	P
3	IT8075	Software Project Management	A+	P
4	MG8591	Principles of Management	A	P
5	OCH752	Energy Technology	O	P
6	CS8080	Information Retrieval Techniques	A+	P
7	CS8811	Project Work	A+	P
8	GE8076	Professional Ethics in Engineering	A	P
9	IVA018	Advanced Python and Introduction to Machine Learning	A+	P
10	CS8711	Cloud Computing Laboratory	A	P
11	IT8761	Security Laboratory	A	P



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Regno : 311817104005 Name : FAHIMA S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	IT8075	Software Project Management	A+	P
2	MG8591	Principles of Management	A	P
3	CS8501	Theory of Computation	A+	P
4	CS8493	Operating Systems	A	P
5	CS8080	Information Retrieval Techniques	A+	P
6	CS8811	Project Work	O	P
7	GE8076	Professional Ethics in Engineering	A+	P
8	IVA018	Advanced Python and Introduction to Machine Learning	O	P
9	CS8711	Cloud Computing Laboratory	B+	P
10	IT8761	Security Laboratory	B+	P



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Regno : 311817104006 Name : FAHIRA S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8792	Cryptography and Network Security	A	P
2	OCH752	Energy Technology	A+	P
3	CS8080	Information Retrieval Techniques	A+	P
4	CS8811	Project Work	A+	P
5	GE8076	Professional Ethics in Engineering	A+	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	A	P
8	IT8761	Security Laboratory	B+	P


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Regno : 311817104009 Name : JAI BALAJI V

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	IT8075	Software Project Management	A	P
2	CS8080	Information Retrieval Techniques	A+	P
3	CS8811	Project Work	O	P
4	GE8076	Professional Ethics in Engineering	A	P
5	IVA018	Advanced Python and Introduction to Machine Learning	O	P
6	CS8711	Cloud Computing Laboratory	O	P
7	IT8761	Security Laboratory	O	P



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Regno : 311817104010 Name : JASIR HUSSAIN S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A	P
2	OCH752	Energy Technology	A+	P
3	CS8501	Theory of Computation	O	P
4	MA8402	Probability and Queueing Theory	O	P
5	CS8080	Information Retrieval Techniques	A+	P
6	CS8811	Project Work	A+	P
7	GE8076	Professional Ethics in Engineering	A	P
8	IVA018	Advanced Python and Introduction to Machine Learning	O	P
9	CS8711	Cloud Computing Laboratory	A	P
10	IT8761	Security Laboratory	B	P



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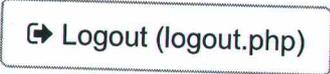


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Regno : 311817104011 Name : JAVID ASLAM J

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8792	Cryptography and Network Security	B+	P
2	CS8080	Information Retrieval Techniques	A	P
3	CS8811	Project Work	O	P
4	GE8076	Professional Ethics in Engineering	A	P
5	IVA018	Advanced Python and Introduction to Machine Learning	A+	P
6	CS8711	Cloud Computing Laboratory	B+	P
7	IT8761	Security Laboratory	A+	P


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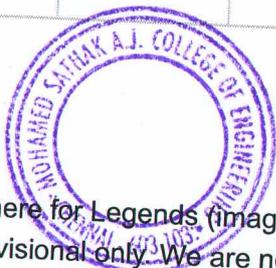
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Regno : 311817104012

Name : KESAVAN H

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Slno	Subcode	Subname	Grade	Result
1	CS8792	Cryptography and Network Security	B+	P
2	OCH752	Energy Technology	A+	P
3	GE8076	Professional Ethics in Engineering	A	P
4	CS8080	Information Retrieval Techniques	A	P
5	CS8811	Project Work	O	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	A	P
8	IT8761	Security Laboratory	B+	P


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Regno : 311817104013 Name : MANOJ K

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	CS8792	Cryptography and Network Security	B+	P
2	OCH752	Energy Technology	B+	P
3	GE8291	Environmental Science and Engineering	A	P
4	CS8080	Information Retrieval Techniques	A	P
5	CS8811	Project Work	A	P
6	GE8076	Professional Ethics in Engineering	B+	P
7	IVA018	Advanced Python and Introduction to Machine Learning	A+	P
8	CS8711	Cloud Computing Laboratory	B+	P
9	IT8761	Security Laboratory	B	P



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Regno : 311817104014

Name : MOHAMED FAYAZ P R

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	A+	P
2	CS8811	Project Work	A	P
3	GE8076	Professional Ethics in Engineering	A+	P
4	IVA018	Advanced Python and Introduction to Machine Learning	A+	P
5	CS8711	Cloud Computing Laboratory	B+	P
6	IT8761	Security Laboratory	B	P

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Regno : 311817104015 Name : MOHAMED FUROSE H

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	A	P
2	CS8811	Project Work	O	P
3	GE8076	Professional Ethics in Engineering	A+	P
4	IVA018	Advanced Python and Introduction to Machine Learning	O	P
5	CS8711	Cloud Computing Laboratory	A	P
6	IT8761	Security Laboratory	B+	P

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Regno : 311817104016

Name : MOHAMED NAZEER A

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	A	P
2	CS8811	Project Work	O	P
3	GE8076	Professional Ethics in Engineering	A	P
4	IVA018	Advanced Python and Introduction to Machine Learning	O	P
5	CS8711	Cloud Computing Laboratory	A+	P
6	IT8761	Security Laboratory	B+	P

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Regno : 311817104018 Name : MOHAMED SAJED S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A+	P
2	CS8792	Cryptography and Network Security	A	P
3	IT8075	Software Project Management	A+	P
4	CS8501	Theory of Computation	O	P
5	MA8551	Algebra and Number Theory	A+	P
6	MA8402	Probability and Queueing Theory	O	P
7	CS8080	Information Retrieval Techniques	A+	P
8	CS8811	Project Work	O	P
9	GE8076	Professional Ethics in Engineering	A+	P
10	IVA018	Advanced Python and Introduction to Machine Learning	O	P
11	CS8711	Cloud Computing Laboratory	A	P
12	IT8761	Security Laboratory	O	P



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Regno : 311817104019

Name : MOHAMED SUHAIL M

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	IT8075	Software Project Management	A	P
2	EC8395	Communication Engineering	O	P
3	BE8255	Basic Electrical, Electronics and Measurement Engineering	O	P
4	CS8080	Information Retrieval Techniques	A+	P
5	CS8811	Project Work	A	P
6	GE8076	Professional Ethics in Engineering	A+	P
7	IVA018	Advanced Python and Introduction to Machine Learning	A+	P
8	CS8711	Cloud Computing Laboratory	B+	P
9	IT8761	Security Laboratory	B	P


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Name : MOHAMMED SULAIMAN B

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	A	P
2	CS8811	Project Work	A	P
3	GE8076	Professional Ethics in Engineering	A+	P
4	IVA018	Advanced Python and Introduction to Machine Learning	O	P
5	CS8711	Cloud Computing Laboratory	B+	P
6	IT8761	Security Laboratory	B+	P

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Regno : 311817104021 Name : NAJEEHA BANU A

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A+	P
2	CS8791	Cloud Computing	A+	P
3	IT8075	Software Project Management	A	P
4	MG8591	Principles of Management	A	P
5	CS8080	Information Retrieval Techniques	A+	P
6	CS8811	Project Work	A+	P
7	GE8076	Professional Ethics in Engineering	A+	P
8	IVA018	Advanced Python and Introduction to Machine Learning	O	P
9	CS8711	Cloud Computing Laboratory	A+	P
10	IT8761	Security Laboratory	B+	P



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Regno : 311817104022 Name : NAVEEN KUMAR S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Slno	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	A	P
2	CS8811	Project Work	O	P
3	GE8076	Professional Ethics in Engineering	A	P
4	IVA018	Advanced Python and Introduction to Machine Learning	O	P
5	CS8711	Cloud Computing Laboratory	A	P
6	IT8761	Security Laboratory	A	P

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Regno : 311817104023 Name : NITHYADARSHNI S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	CS8791	Cloud Computing	A+	P
2	IT8075	Software Project Management	A+	P
3	OCH752	Energy Technology	O	P
4	CS8080	Information Retrieval Techniques	A	P
5	CS8811	Project Work	O	P
6	GE8076	Professional Ethics in Engineering	A+	P
7	IVA018	Advanced Python and Introduction to Machine Learning	O	P
8	CS8711	Cloud Computing Laboratory	A+	P
9	IT8761	Security Laboratory	B+	P



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Regno : 311817104024 Name : RAHAMATHULLAH K

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Slno	Subcode	Subname	Grade	Result
1	IT8075	Software Project Management	A	P
2	OCH752	Energy Technology	O	P
3	CS8080	Information Retrieval Techniques	A	P
4	CS8811	Project Work	O	P
5	GE8076	Professional Ethics in Engineering	A+	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	O	P
8	IT8761	Security Laboratory	O	P



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Regno : 311817104025 Name : RAHUMANGANI R

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A+	P
2	CS8792	Cryptography and Network Security	A	P
3	IT8075	Software Project Management	A	P
4	CS8592	Object Oriented Analysis and Design	A+	P
5	EC8691	Microprocessors and Microcontrollers	A+	P
6	MA8402	Probability and Queueing Theory	O	P
7	CS8080	Information Retrieval Techniques	A+	P
8	CS8811	Project Work	A	P
9	GE8076	Professional Ethics in Engineering	A+	P
10	IVA018	Advanced Python and Introduction to Machine Learning	O	P
11	CS8711	Cloud Computing Laboratory	B+	P
12	IT8761	Security Laboratory	B+	P



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Regno : 311817104026 Name : RAMESH S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	OCH752	Energy Technology	O	P
2	EC8691	Microprocessors and Microcontrollers	A	P
3	CS8080	Information Retrieval Techniques	A	P
4	CS8811	Project Work	O	P
5	GE8076	Professional Ethics in Engineering	A+	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	O	P
8	IT8761	Security Laboratory	O	P



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NOVEMBER-DECEMBER 2020 (REEXAMINATION)

AND APRIL-MAY 2021

Regno : 311817104027

Name : SABEER AHAMED S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Slno	Subcode	Subname	Grade	Result
1	CS8591	Computer Networks	A+	P
2	EC8395	Communication Engineering	O	P
3	CS8080	Information Retrieval Techniques	A+	P
4	CS8811	Project Work	A	P
5	GE8076	Professional Ethics in Engineering	A+	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	B+	P
8	IT8761	Security Laboratory	A	P


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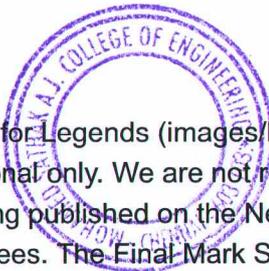
NOVEMBER-DECEMBER 2020 (REEXAMINATION)

AND APRIL-MAY 2021

Regno : 311817104028 Name : SANTHOSHRAJA L

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	EC8395	Communication Engineering	A+	P
2	CS8080	Information Retrieval Techniques	A+	P
3	CS8811	Project Work	A+	P
4	GE8076	Professional Ethics in Engineering	O	P
5	IVA018	Advanced Python and Introduction to Machine Learning	A+	P
6	CS8711	Cloud Computing Laboratory	B+	P
7	IT8761	Security Laboratory	B	P



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Regno : 311817104029 Name : SELCIYA J

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

SIno	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A+	P
2	IT8075	Software Project Management	A+	P
3	CS8080	Information Retrieval Techniques	O	P
4	CS8811	Project Work	O	P
5	GE8076	Professional Ethics in Engineering	O	P
6	IVA018	Advanced Python and Introduction to Machine Learning	O	P
7	CS8711	Cloud Computing Laboratory	A	P
8	IT8761	Security Laboratory	A+	P



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AND APRIL-MAY 2021

Regno : 311817104030 Name : SHAHID YAASER J

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sln0	Subcode	Subname	Grade	Result
1	MG8591	Principles of Management	A	P
2	CS8080	Information Retrieval Techniques	A+	P
3	CS8811	Project Work	A+	P
4	GE8076	Professional Ethics in Engineering	O	P
5	IVA018	Advanced Python and Introduction to Machine Learning	O	P
6	CS8711	Cloud Computing Laboratory	B+	P
7	IT8761	Security Laboratory	B+	P



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AND APRIL-MAY 2021

Regno : 311817104031 Name : SOUNDARYA M

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	MG8591	Principles of Management	B+	P
2	OCH752	Energy Technology	A+	P
3	CS8351	Digital Principles and System Design	A	P
4	CS8391	Data Structures	B+	P
5	CS8080	Information Retrieval Techniques	A	P
6	CS8811	Project Work	A+	P
7	GE8076	Professional Ethics in Engineering	O	P
8	IVA018	Advanced Python and Introduction to Machine Learning	O	P
9	CS8711	Cloud Computing Laboratory	B+	P
10	IT8761	Security Laboratory	A	P



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AND APRIL-MAY 2021

Regno : 311817104032 Name : SYED SAHIR AHMED K

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8080	Information Retrieval Techniques	B+	P
2	CS8811	Project Work	O	P
3	GE8076	Professional Ethics in Engineering	A+	P
4	IVA018	Advanced Python and Introduction to Machine Learning	O	P
5	CS8711	Cloud Computing Laboratory	B+	P
6	IT8761	Security Laboratory	B+	P

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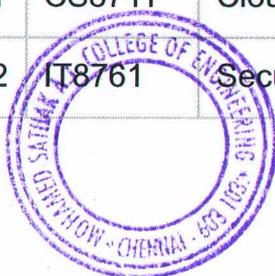
NOVEMBER-DECEMBER 2020 (REEXAMINATION)

AND APRIL-MAY 2021

Regno : 311817104034 Name : VENKATESAN S

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	CS8079	Human Computer Interaction	A	P
2	CS8791	Cloud Computing	A	P
3	CS8792	Cryptography and Network Security	B+	P
4	IT8075	Software Project Management	A	P
5	CS8491	Computer Architecture	A+	P
6	CS8494	Software Engineering	B+	P
7	CS8080	Information Retrieval Techniques	A+	P
8	CS8811	Project Work	A+	P
9	GE8076	Professional Ethics in Engineering	O	P
10	IVA018	Advanced Python and Introduction to Machine Learning	O	P
11	CS8711	Cloud Computing Laboratory	A	P
12	IT8761	Security Laboratory	A	P



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34, Rajiv Gandhi Road (OMR)
Chennai-603103



Department of
Electrical and Electronics Engineering

Organize

A Value Added Course
on

ELECTRIC VEHICLE (EVA033)

Co-Ordinator:

Mr. C. Venkatesh, AP/EEE

+91-9940004500/044-27470024

msajce.office@gmail.com

www.msajce-edu.in



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Siruseri IT Park, Egattur, Chennai 603 103

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

VALUE ADDED COURSE SUMMARY 2020-2021

Course Code & Name : EVA 033 and Electric Vehicle

Course Duration: 30 Periods

Years Offered: IV Year EEE students – 2020-2021

Course Instructors: Mr.C.Venkatesh

AP/EEE

Course type: 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 basics fundamentals and working principle of electrical machines.
- Analysis the transmission characteristics and mathematical models of Electric Vehicles.
- Discuss the energy management strategies used in hybrid and electric vehicles.

Course Type: Anna University - Two credit Value Added Course

Assessment Mode:

Attendance : 30 Hours

Number of Participants: 05

Scheme of the exam: MCQ


Course Coordinator


HoD





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Department of EEE

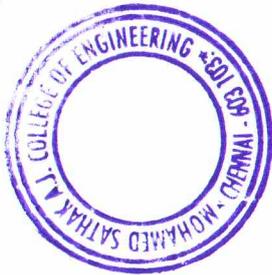
Students Enrolled List

Electric Vehicle

S.no	Reg. No. of the Student	Student Name
	IV Year EEE	
1	311817105003	Ijaz Ahamed
2	311817105004	Mohamed Amrith
3	311817105007	Mohamed Nihath N
4	311817105301	Hassain K
5	311817105302	Maf. Khaja Mohideen


Course Coordinator


HoD





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EVA 033-ELECTRIC VEHICLE ATTENDACE- (2020-2021)															
S.no	Reg. No. of the Student	Student Name	4/12/2021	4/17/2021	4/23/2021	4/24/2021	4/27/2021	4/28/2021	4/29/2021	4/30/2021	5/1/2021	5/4/2021	5/5/2021	Total	% of Attendance
1	311817105003	Ijaz Ahamed	3	0	3	3	3	3	0	0	3	3	3	24	73
2	311817105004	Mohamed Amrith	3	3	3	3	3	3	3	0	3	3	3	30	91
3	311817105007	Mohamed Nihath N	3	3	0	3	3	3	3	3	3	3	3	30	91
4	311817105301	Hassain K	3	3	3	3	3	3	3	0	3	3	3	30	91
5	311817105302	Maf. Khaja Mohideen	3	3	3	3	3	3	3	3	3	0	3	30	91

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APPLICATION FOR CONDUCTING VALUE ADDED COURSES

1. Name of the Department	:	B.E ELECTRICAL & ELECTRONICS ENGINEERING (REGULATIONS 2017)
2. UG programme	:	B.E
3. Details of the Value Added Courses:		
a. Name of the Value Added Courses:	:	EVA033 Electric Vehicles
b. Type of Value Added Courses	:	(Lab integrated theory)
c. Short Description	:	Enclosure 1 enclosed - YES
d. Syllabus including Reference	:	Enclosure 2 enclosed - YES
4. Target audience:		
Semester (indicate if more than one)	:	VI th & VIII th Semester only
Others	:	
5. Details of Faculty handling the course:		
a. Name of the Faculty handling the Value Added Course	:	Mr.Chintala. Venkatesh
b. Details including designation and expertise	:	Enclosure 3 enclosed - YES
c. Contact details		
Email ID	:	eee.venkatesh@msajce-edu.in
Phone No	:	8978090678
6. Tentative Time Table including dates of internal assessments	:	Enclosure 4 enclosed - YES
7. Number of students opting for the course	:	10
8. Department Consultative Committee - Minutes	:	Enclosure 5 enclosed - YES
9. Name and Designation of the Coordinator	:	Mrs. R. Abirami, Assistant Professor, Department of Electrical and Electronics Engineering, Mohamed Sathak A J College of Engg.

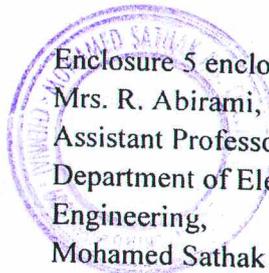
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Chennai-603 103.

A. Chintala
11/03/2021
Head of the Department
(with date & seal)

DEPARTMENT OF EEE

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



I. Manjula
11/03/21
Head of the Institution
(with date & seal)

PRINCIPAL

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Siruseri, Chennai - 603 103.

Director, Academic Courses

Additional Controller of Examinations

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

Outcomes:

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

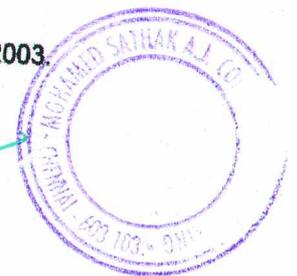
- Analysis the configuration and control methods of Electric Propulsion unit.
- Summarize the factors that control battery operational characteristics and the primary mechanisms.
- Describe the basic fundamentals and working principles of electrical machines.
- Analysis the transmission characteristics 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 Cell Vehicles, 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.



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Chennai-603 103.

RESUME

CHINTALA VENKATESH

Ph.no :+91-8978090678

E-mail :venki7c@gmail.com



OBJECTIVE

To utilize my teaching skills towards a challenging career in growth oriented and leading edge that will provide mutual benefits and where from I can utilize my capabilities to the fullest benefits of the organization and society.

ACADEMIC PROFILE

Course	Year Of Passing	Institution	Board / University	Class
Ph.D	Pursuing	RMK College	Anna University	--
M.Tech (PE)	2013	SITAMS,Chittoor	JNTU, Anantapur, AP	1 st Class with Distinction
B. Tech (EEE)	2010	Narayana Engineering College, Nellore	JNTU, Anantapur, AP	1 st Class
Intermediate (M.P.C)	2006	Sri Chaitanya Jr. College Nellore	Board of Intermediate Education,AP	1 st Class with Distinction
SSC	2004	Z P P HighSchool,Vasili, Nellore	Board of Secondary Education, AP	1 st Class

TEACHING EXPERIENCE DETAILS

- ❖ As an **Assistant Professor** in **Mohamed Sathak A J College of Engineering, Chennai** from **December 2019** to till now.
- ❖ As an **Assistant Professor** in **SMK FOMRA INSTITUTE Of Technology, Kellambakkam, Chennai** from **December 2017** to **December 2019**.
- ❖ As an **Assistant Professor** in **Andhra Engineering College, Nellorepalem** from **January 2014** to **December 2017**.
- ❖ As an **Assistant Professor** in **Atmakur Engineering College, Nellorepalem** from **June 2010** to **December 2011**.



SUBJECTS HANDLED

- ❖ Electromagnetic Fields
- ❖ Electrical Technology
- ❖ Power Electronics
- ❖ Utilization of Electrical Energy
- ❖ Transmission and Distribution
- ❖ Solid State Drives
- ❖ Principles of Power Quality
- ❖ Programmable Logic Controllers
- ❖ Basic Electrical Engineering
- ❖ Energy Systems
- ❖ Circuit Theory
- ❖ Control System

EXTRACURRICULAR ACTIVITIES

- ❖ I won third prize for "Javelin Throw" in college level for the year of 2006-07.
- ❖ Runners in "Volley Ball" match in Narayana engineering college for the year of 2006-07.

TECHNICAL SKILLS

Operating Systems	Windows Vista, Windows 2010
Programming Languages	MATLAB Simulation, Ladder Logic
Utility Packages	MS-Office
Auto machine Packages	PLC

KEY SKILLS

- ❖ Excellent explanation skills.
- ❖ Can teach the students as per their level.
- ❖ Good communication skills.
- ❖ Awareness about the various teaching techniques.
- ❖ In depth knowledge of the subjects.
- ❖ Can speak for long time.
- ❖ Patience.

W. Sathak

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Rajeev Gandhi Road (OMR), Siruseri, IT Park,
Chennai-603 103.



PUBLICATION, WORKSHOP & PAPER PRESENTATION DETAILS

- ❖ Participated in AICTE sponsored 2-day national level seminar on "Photovoltaic Inverters Wit Stand Alone Systems" organized by **Rajeev Gandhi Memorial College Of Technology, Nandya** on 6th -7th October 2017.
- ❖ An International Journal on "Safety Enhanced Boost Converter for PV Panel" in **International Journal Of Innovative Research In Science, Engineering And Technology**, Volume 4, Issue 8, August 2015.
- ❖ Participated in a workshop on "Wind Energy Conversion Systems" by **JNTU Anantapur** on 13th April 2016.
- ❖ Participated in a workshop on "Fundamentals of MATLAB" by **Andhra Engineering College, Atmakuron** 30th -31st January 2016.
- ❖ Presented a paper on "Maximum Power Point Tracking system" in **NCP RTE-2K15** by **Andhra Engineering College, Atmakuron** 30th September 2015.

PERSONAL DETAILS

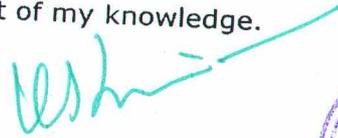
Name : C.Venkatesh
Fathers Name : C.Ankaiah
D.O.B : 1st September 1988
Gender : Male
Marital Status : Married
Phone No : +91-8978090678
Languages known : Tamil, English, Hindi & Telugu
Address : 15/29, Swathantra Nagar,
4th Street, Lloyds Road,
Chennai,Pin: 600005.

SUMMARY

Interacting with different people and environments has strengthened in me the qualities of understanding new people and to work in any kind of situations. My strengths are patience, confidence, integrity and ability to absorb technology faster.

DECLARATION

I declare that the information above is true to the best of my knowledge.



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

C. Venkatesh
11/3/2021

(C VENKATESH)

Place: CHENNAI

Date: 11-03-2021

**DEPARTMENT OF B.E ELECTRICAL & ELECTRONICS ENGINEERING
(REGULATIONS 2017)**

VALUE ADDED COURSE

EVA033 ELECTRIC VEHICLES

TIMETABLE

The value-added course can be conducted in the summer vacation for 10 consecutive days covering 30 hours to earn 2 credits by the students.

Day (12.30 PM to 3.30 PM)	Topic	Assessment
Day 1	Unit I	-
Day 2	Unit II	-
Day 3	Unit II	-
Day 4	Unit III	-
Day 5	Unit III	Assessment Test – I
Day 6	Unit III	-
Day 7	Unit IV	-
Day 8	Unit IV	-
Day 9	Unit V	-
Day 10	Unit V	Assessment Test – II

ASSESSMENT I & II -PATTERN

Test Duration: 1 Hour

QUESTION PAPER PATTERN:

Part A (20*1 = 20 Marks) Objective Type Questions

Part B (5*8 = 40 Marks) Descriptive Type Questions

Part C (2*20 = 40 Marks) Design, Drawing & Programming

AWARD OF GRADES:

Letter Grade	Grade Points	Marks Range
O	10	91-100
A+	9	81-90
A	8	71-80
B+	7	61-70
B	6	50-60

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603 103.



B.E ELECTRICAL & ELECTRONICS ENGINEERING (REGULATIONS 2017)

VALUE ADDED COURSE

DEPARTMENT CONSULTATIVE COMMITTEE – MINUTES OF THE MEETING

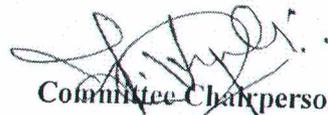
Date: 11/03/21

As per the Regulations 2017, a department consultative committee is constituted to offer value added course for the 6th & 8th semester, B.E Electrical and Electronics Engineering students pursuing their studies at Mohamed Sathak A J College of Engineering (MSAJCE), Siruseri, Chennai. The following members were present for the meeting held on 22/12/2020 at Department of B.E Electrical and Electronics Engineering, MSAJCE.

S.No.	Name & Designation	Member of Bodies	Signature
1.	Dr . I. Manju, Head of Technology Centers, Professor/ ECE, MSAJCE	Monitor the progress of the course	I. Manju
2.	Mr. K. Vairaperumal, Assistant Professor/EEE, MSAJCE	Senior Faculty Member	K. Vairaperumal
3.	Mrs. R. Abirami, Assistant Professor/ EEE, MSAJCE	Coordinator	R. Abirami
4.	Mr. Chintala. Venkatesh, HoD/EEE, MSAJCE	Faculty handling the course	Ch. Venkatesh 11/3/2021

The consultative committee has decided to offer EVA033 Electric Vehicles for the students since it is essential for them to acquire knowledge and work in core Industry. The committee recommends Mr. C. Venkatesh, HoD/EEE belongs to MSAJCE, Chennai to handle the course and train the students in Electric Vehicles platform. The curriculum & syllabus, internal assessment pattern and awarding of grades are discussed and passed on the meeting for approval. The consultative committee constituted for value added course has recommended to conduct the course as lab integrated theory and approved the same.


Coordinator


Committee Chairperson
(Senior Faculty Member)






HoD / EEE 11/3/2021

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

DEPARTMENT OF EEE
Monamed Sathak A.J.College of Engin
Siruseri IT Park, Chennai - 603 103



CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY
 CHENNAI - 600 025

Fax / Dir : 22357074
 22352277



S.HOSIMIN THILAGAR
 DIRECTOR
 Letter No:615/AU/EVA/CAC/2021

12 03 2021

Controller of Examinations
 Anna University
 Chennai - 25

Sub - A.U. - CAC - Affiliated Institutions - Value Added Courses - Reg.

- Ref - (i) Letter No. Nil dated 01.03.2021.
 (ii) Mail received from the Head, Department of EEE, Mohamed Sathak A.J
 College of Engineering, dated 12.03.2021.

With reference to the letter cited above, course code is allotted for the Value Added
 Course as mentioned below.

S.No	Code Allotted	Title	LT/PC
1	EVA033	Electric Vehicles	2002

This is for your kind information and necessary action at your end.

Yours faithfully

DIRECTOR

Copy to:
 The Chairperson, Faculty of Electrical Engineering, Anna University, Chennai - 25
 The Principal, Mohamed Sathak A.J.College of Engineering, No.34, Rajiv Gandhi R
 OMR) SIPCOT - IT Park, Siruseri, Chennai - 603 103.
 The Stock File



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Anna University, Chennai
Office of the Controller of Examinations
Abstract of Value Added selection List

College Code / Name : 3118 - MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Branch Code / Name : 105 - B.E. Electrical and Electronics Engineering

Semester : 05

University : AUC

Regulation : 2017

Credit : 2

Subject : EVA033 - Electric Vehicles

S.No	Register Number/Student code	Name of the Student
1	311819105001	FAHED S
2	311819105002	MOHAMMED RIJWAN H
3	311819105003	SATHIYAN S
4	311819105005	STALIN K
5	311819105301	BHUVANESH S
6	311819105302	AKRAM MOHIUDDIN F

[Handwritten Signature] 11/10/21

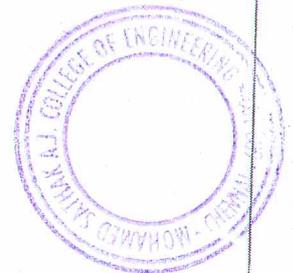
Signature of the Principal with seal

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No.34,Rajiv Gandhi Salai (OMR), SIPCOT - IT Park
Siruseri, Chennai - 603 103.



[Handwritten Signature]

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NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND APRIL-MAY 2021

Regno : 311817105302 Name : KHAJA MOHIDEEN M A College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	EE8701	High Voltage Engineering	A+	P
2	GE8077	Total Quality Management	A+	P
3	EE8017	High Voltage Direct Current Transmission	O	P
4	EE8811	Project Work	A+	P
5	EVA033	Electric Vehicles	O	P
6	MG8591	Principles of Management	A	P
7	EE8711	Power System Simulation Laboratory	O	P
8	EE8712	Renewable Energy Systems Laboratory	A+	P



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Regno : 311817105301 Name : HASSAIN K College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	EE8017	High Voltage Direct Current Transmission	O	P
2	EE8811	Project Work	O	P
3	EVA033	Electric Vehicles	A+	P
4	MG8591	Principles of Management	A	P
5	EE8711	Power System Simulation Laboratory	O	P
6	EE8712	Renewable Energy Systems Laboratory	O	P



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NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND APRIL-MAY 2021

Regno : 311817105007 Name : MOHAMED NIHATH N College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	EE8017	High Voltage Direct Current Transmission	O	P
2	EE8811	Project Work	O	P
3	EVA033	Electric Vehicles	A+	P
4	MG8591	Principles of Management	A	P
5	EE8711	Power System Simulation Laboratory	O	P
6	EE8712	Renewable Energy Systems Laboratory	O	P



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NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND APRIL-MAY 2021

Regno : 311817105004

Name : MOHAMED AMRITH U

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	EE8403	Measurements and Instrumentation	B+	P
2	EE8017	High Voltage Direct Current Transmission	A	P
3	EE8811	Project Work	A+	P
4	EVA033	Electric Vehicles	A+	P
5	MG8591	Principles of Management	B+	P
6	EE8711	Power System Simulation Laboratory	A+	P
7	EE8712	Renewable Energy Systems Laboratory	O	P



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NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND APRIL-MAY 2021

Regno : 311817105003

Name : NAZ AHAMED M

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	EE8702	Power System Operation and Control	A+	P
2	GE8077	Total Quality Management	A+	P
3	OCS752	Introduction to C Programming	A+	P
4	EE8017	High Voltage Direct Current Transmission	O	P
5	EE8811	Project Work	A+	P
6	EVA033	Electric Vehicles	O	P
7	MG8591	Principles of Management	A	P
8	EE8711	Power System Simulation Laboratory	O	P
9	EE8712	Renewable Energy Systems Laboratory	O	P


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Department of
Electrical and Electronics Engineering
And
Electronics and Communication Engineering

Organize

A Course
on



LABVIEW (ENGLISH, 2020)

[Signature]
PRINCIPAL

05th October 2020 - 10th October 2020

Co-Ordinator:

Mrs. R. Abirami, AP/EEE



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DEPARTMENT OF EEE & ECE

Value Added Course Summary 2020-21

Course code and Name : LABVIEW
Course Duration : 45 hours
Years offered : III Year Students 2020-21
Course Instructors : Mrs. R.Abirami

Course Outcome's :

The Students will be outfitted with able to express programming and simulation for engineering problems. Find the importance of this software for Lab experimentation. Articulate importance of softwares in research by simulation work. Have in depth knowledge of providing virtual instruments on LAB VIEW Environment. Write basic mathematical, electrical, electronic problems in LAB VIEW, simulate and connect programming files with GUI Simulink.

Course Type : Self Framed Value Added Course
Theory and Practical with Hands on Sessions

Assessment Mode : Attendance : 45 Hours

Number of Participants : 10

Scheme of Exam : Offline

Date of Exam:10.10.2020


Course Coordinator






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Department of EEE

Students Enrolled List

LABVIEW

S.no	Reg. No. of the Student	Student Name
1	311818106001	Mohamed Vazeer.S
2	311818106002	Mohamed Najumudeen.J
3	311818106003	Yugaraj.R.K
4	311818106303	Syed Swaliha.S
5	311818106304	Vigneshwaran.V
6	311818105001	Mohamed Hishaam. M
7	311818105003	Peer Mohamed. S
8	311818105004	Sanjith. S
9	311818105301	John Moses. A
10	311818105302	Syed Mohamed Aathil. M


Course Coordinator


HoD





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DEPARTMENT OF EEE & ECE

From ,

Mr.C.Venkatesh

Mr.M.Kamarajan

Assistant Professor

Department of EEE & ECE

Mohamed Sathak A.J.College of Engineering,

Chennai – 603103.

To

The Principal,

Mohamed Sathak A.J.College of Engineering,

Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of EEE department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

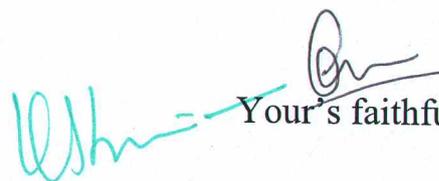
Year/Sem	Title	Dates
III/V-EEE & ECE	LABVIEW	05/10/20 to 10/10/20

Thanking you

Place : Chennai

Date:



 Your's faithfully

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Principal



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DEPARTMENT OF EEE & ECE

From,

Mr.C.Venkatesh

Mr.M.Kamarajan

Assistant Professor

Department of EEE & ECE

Mohamed Sathak A.J.College of Engineering,

Chennai- 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for VAC course curriculum design for the academic year 2020-2021 reg.

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2020-2021 Dated: 05/10/2020 - 10/10/2020.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

Title	Name of the Faculty
Lab View	Mrs.R.Abirami AP/EEE



Principal

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DEPARTMENT OF EEE & ECE

Date:08/09/2020

Ref:01/MSAJCE/EEE/ODD/2020-2021

CIRCULAR

Our department is organizing a "ADD ON" on LABVIEW during 05/10/2020 to 10/10/2020. The following III Year EEE & ECE Students register with Mrs.R.Abirami AP/EEE on or before 25/10/2020.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM
Company Name: NI Customer Education
Resource Person: R. ABIRAMI
Venue: DSP LAB


HoD


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COPY TO: EEE & ECE

Dept. of EEE & ECE

III Year EEE & ECE





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DEPARTMENT OF EEE & ECE

COURSE MODULE

Course Objectives:

1. To familiarize the student in introducing and exploring LabVIEW software
2. To enable the student on how to approach for solving Engineering problems using simulation tools.
3. To prepare the students to use Lab VIEW in their project works.
4. To provide a foundation in use of this software for real time applications.

MODULE-1

1. Introduction LabVIEW

What Exactly is LabVIEW-What can LabVIEW do for you- How does LabVIEW work-Evolution of LabVIEW- What is DAQ- Communication using SerialPort- LabVIEW addon toolkits- LabVIEW Real Time, FPGA, PDA, and Embedded.

MODULE-2

2: LabVIEW Environment

Front panel, control and indicator- Block Diagram, Nodes, Wires, Data Flow Programming- LabVIEW Projects, Project Explorer window, project Explorer Toolbars- Building Application- Installers- Floating Palettes-

MODULE-3

3: LabVIEW Foundation

Creating VI- Basic Controls- Indicators- Booleans- String- Paths- Decorations- Custom Controls and Indicators- Automatic wire routing- Automatic Wiring – Wiring Complicated Objects- Bad Wires – Wiring Tips- adding Constants- Controls and indicators – Keyboard Shortcuts- Cloning and object.

MODULE-4

4. Programming Execution with Structures

For Loop - The While Loop - Placing Objects inside Objects - Counting the Loops Shift Registers – Case registers – Dialogs – The Sequence Structures – Timing – Timed Structures – Formula Node – Expression Node.

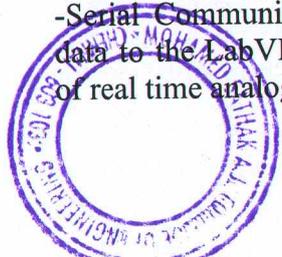
MODULE-5

5. Embedded combining with LabVIEW

VISA concept - Baud rate Calculation - Measurement and Automation Explorer - Serial Communication with Microcontrollers, Acquiring the real time digital data to the LabVIEW User interface, controlling the LED operations, Acquiring of real time analog sensor values, controlling the Motors

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Course Outcomes:

The students will be able to

CO1. Express programming & simulation for engineering problems.

CO2. Find importance of this software for Lab Experimentation.

CO3. Articulate importance of soft wares in research by simulation work.

CO4. Have in-depth knowledge of providing virtual instruments on LabVIEW Environment.

CO5. Write basic mathematical, electrical, electronic problems in LabVIEW, Simulate and Connect programming files with GUI Simulink.



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CO PO Mapping

Course Outcome	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Express programming & simulation for engineering problems	3	3	3					2		2	3	3
Find importance of this software for Lab Experimentation.	2	2	2									
Articulate importance of software in research by simulation work.	3	2	3									
Have in-depth knowledge of providing virtual instruments on LabVIEW Environment.	3	3	3					2		2	3	3
Write basic mathematical, electrical, electronic problems in LabVIEW, Simulate and Connect programming Files with GUI Simulink.	3	3										3



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S.No	Title	Topics to be Covered	T/R Books	Periods Required	Remarks
1	Introduction of LabVIEW	LabVIEW Environment : Definition Necessity of LabVIEW	T1/Website	1	PPT
		Exercises in basic programming (Tutorial)	T1/Website	2	LabVIEW software simulation
2	Designing the Software	Definitions of VI LabVIEW benefits Introductions of 3rd party interfaces and toolkits	T1/Website	1	PPT
		Programming and Execution methods (Tutorial)	T1/Website	2	LabVIEW software simulation
3	Basic Programming	How to use Numerical functions Comparator applications	T1/Website	2	BB/PPT
		Designing of Boolean operations (Tutorial)	T1/Website	2	LabVIEW software simulation
4	Designing of SubPrograms	Need of SubVI What is SubVI Various types in SubVI plots	T1/Website	2	PPT
		How to use the Connector Pane with terminals (Tutorial)	T1/Website	2	LabVIEW software simulation
5	Programming Loops	About For loops How to use Shift registers While loop designing Flat Sequences	T1/Website	2	PPT
		Designing of loops and shift registers (Tutorial)	T1/Website	2	LabVIEW software simulation




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S.No	Title	Topics to be Covered	T/R Books	Periods Required	Remarks
6	Structures	Case Structure : Definition and designing method Event Structure : Definition and designing method	T1/Website	2	PPT
		Problem-Discussion on Structures (Tutorial)	T1/Website	2	LabVIEW software simulation
7	Data Handling-String,	Introduction of String, Arrays and Clusters	T1/Website	3	PPT
		Working with string functions About arrays and designing How to do clustering in Vis (Tutorial)	T1/Website	2	LabVIEW software simulation
8	Data Handling-	Differentiations between Waveform charts and Waveform Graphs Acquire and use the system files based on File I/O functions	T1/Website	2	PPT
9	Array and clusters	Report Generations in various files such as MS excel, TDMS, LVM files (Tutorial)	T1/Website	2	LabVIEW software simulation
10	External Interfaces	MAX and VISA explanations	T1/Website	2	PPT
		Designing of Serial communications and interfacing methods (Tutorial)	T1/Website	2	LabVIEW software simulation



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S.No	Title	Topics to be Covered	T/R Books	Periods Required	Remarks
11	Data Acquisitions Process	Acquiring the real time digital data to the LabVIEW User interface	T1/Website	1	PPT
		Controlling the LED operations (Tutorial)	T1/Website	2	LabVIEW software simulation
12	Instrument Control based on Embedded Controllers	Acquiring of real time analog sensor values	T1/Website	1	PPT
		Process of temperature control (Tutorial)	T1/Website	2	LabVIEW software simulation
13	Instrument Control based on Embedded Controllers	Controlling the Motors Create most interaction Vis	T1/Website	2	PPT
		Process of Lightning system control (Tutorial)	T1/Website	2	LabVIEW software simulation
Text / Reference Books					
1	LabVIEW for Everyone 1. Jeffrey Travis (Author) 2. Jim Kring (Author) Prentice Hall, 3rd Edition				
Website / URL References					
1	http://www.ni.com/academic/students/learn-labview				
2	https://www.labviewmakerhub.com/				

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Assessment

1. What does VI stand for?

- Visible Items
- Visible Information
- Virtual Instruments

2. What is the purpose of a LLB-file?

- To make an application which can be run on any computer without having LabVIEW installed
- To save the VIs more quickly
- To store the VIs of an application as one single file, for easy distribution of the application

3. How can you (as a developer) hide the VI-diagram for a user?

- You can not do it.
- You can check the proper checkbox for it during saving (File / Save with Options / Application).
- You must check the proper checkbox for it via the menu Edit / VI Properties.

4. How many global variables can be stored in one single Global VI?

- Only one for each different global variable type
- 1
- There is no limit

5. Which is the preferred method of exchanging data between different while-loops in a diagram?

- Using local variables
- Using global variables
- Draw a signal line across the borders of the loops in the usual way

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6. See this VI: vi1. How many times does the for-loop run?

- 19
- 20
- 21

7. See this VI: vi1. What is the value of the i-variable after the VI has stopped?

- 19
- 20
- 21

8. See this VI: vi1. Which kind of data is available at the terminal point of the signal line in the VI-diagram?

- A scalar (one single data value)
- An array of numerical data
- A cluster of numerical data

9. What is a cluster?

- A multi-variable containing different variables having various data types
- A multi-variable containing different variables having equal data types
- Just a displaying effect (to make a number of controls or indicators) appear as one unit

10. Suppose you will have a realtime plot (being continuously updated) on the front panel. Which kind of plotting indicator would you use?

- X-Y-graph
- Chart
- t-Y-graph

11. Which operations can not be used in Formula Node?

- Linear algebraic operations
- If-statements
- Switch-structures



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12. Which of the following has no workspace in which the variables are stored as long as the VI runs?

- Matlab Node
- Formula Node
- HiQ Node

13. Which of the following expressions are correct if used in Formula Node:

- $y=a+b$
- $y=a+b;$
- $y=a_1+b;$

14. What can you use a shift-register for?

- Store former values of a variable
- Store former VIs
- Automatically repair the "register" on your car

15. Which of the following graphics formats can not be used on a front panel?

- BMP
- WMF
- JPG

16. Which of the following document formats is not available when creating documentation automatically via the File / Print-menu?

- Word
- Rtf
- Html

17. What does it mean that FieldPoint is a distributed I/O-system?

- That it is distributed freely
- That LabVIEW-code is run distributedly (on the FieldPoint-system)
- That the I/O-channels are distributed - away from the computer

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DEPARTMENT OF EEE & ECE

18. What can you use the MAX-program for?

- To calculate max- (and min-) values of a measurement signal
- To maximize the performance of a VI
- To configure I/O-cards by National Instruments

19. Which limitations exist for using DataSocket to distribute data over a network?

- It can be used only on an intranet.
- It can be used on the Internet.
- It can be used only between two PCs in a computing room on a campus

20. What determines the program order of execution of code in LabVIEW?

- The time when you entered the code
- It goes from left to right.
- Data Goes Left

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DEPARTMENT OF EEE & ECE EVALUATION SHEET

1. What does VI stand for?

- Visible Items
- Visible Information
- Virtual Instruments

2. What is the purpose of a LLB-file?

- To make an application which can be run on any computer without having LabVIEW installed
- To save the VIs more quickly
- To store the VIs of an application as one single file, for easy distribution of the application

3. How can you (as a developer) hide the VI-diagram for a user?

- You can not do it.
- You can check the proper checkbox for it during saving (File / Save with Options / Application).
- You must check the proper checkbox for it via the menu Edit / VI Properties.

4. How many global variables can be stored in one single Global VI?

- Only one for each different global variable type
- 1
- There is no limit

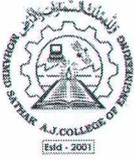
5. Which is the preferred method of exchanging data between different while-loops in a diagram?

- Using local variables
- Using global variables
- Draw a signal line across the borders of the loops in the usual way

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DEPARTMENT OF EEE & ECE EVALUATION SHEET

6. See this VI: vi1. How many times does the for-loop run?

- 19
- 20
- 21

✓

7. See this VI: vi1. What is the value of the i-variable after the VI has stopped?

- 19
- 20
- 21

X

8. See this VI: vi1. Which kind of data is available at the terminal point of the signal line in the VI-diagram?

- A scalar (one single data value)
- An array of numerical data
- A cluster of numerical data

✓

9. What is a cluster?

- A multi-variable containing different variables having various data types
- A multi-variable containing different variables having equal data types
- Just a displaying effect (to make a number of controls or indicators) appear as one unit

✓

10. Suppose you will have a realtime plot (being continuously updated) on the front panel. Which kind of plotting indicator would you use?

- X-Y-graph
- Chart
- t-Y-graph

X

11. Which operations can not be used in Formula Node?

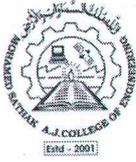
- Linear algebraic operations
- If-statements
- Switch-structures

✓



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DEPARTMENT OF EEE & ECE

12. Which of the following has no workspace in which the variables are stored as long as the VI runs?

- Matlab Node
- Formula Node
- HiQ Node

✓

13. Which of the following expressions are correct if used in Formula Node:

- $y=a+b$
- $y=a+b;$
- $y=a_1+b;$

X

14. What can you use a shift-register for?

- Store former values of a variable
- Store former VIs
- Automatically repair the "register" on your car

✓

15. Which of the following graphics formats can not be used on a front panel?

- BMP
- WMF
- JPG

✓

16. Which of the following document formats is not available when creating documentation automatically via the File / Print-menu?

- Word
- Rtf
- Html

✓

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17. What does it mean that FieldPoint is a distributed I/O-system?

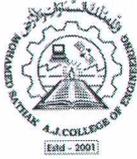
- That it is distributed freely
- That LabVIEW-code is run distributedly (on the FieldPoint-system)
- That the I/O-channels are distributed - away from the computer

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DEPARTMENT OF EEE & ECE

18. What can you use the MAX-program for?

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20. What determines the program order of execution of code in LabVIEW?

- The time when you entered the code
- It goes from left to right. ✓
- Data Goes Left

15
20

(Handwritten signature)



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DEPARTMENT OF EEE & ECE

Sl.No	Name of the Student	Register No.	Status of Qualifying
1	Mohamed Vazeer.S	311818106001	Qualified
2	Mohamed Najumudeen.J	311818106002	Qualified
3	Yugaraj.R.K	311818106003	Qualified
4	Syed Swaliha.S	311818106303	Qualified
5	Vigneshwaran.V	311818106304	Qualified
6	Mohamed Hishaam. M	311818105001	Qualified
7	Peer Mohamed. S	311818105003	Qualified
8	Sanjith. S	311818105004	Qualified
9	John Moses. A	311818105301	Qualified
10	Syed Mohamed Aathil. M	311818105302	Qualified

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NI CUSTOMER EDUCATION

Course Completion

PRINCIPAL
MOHAMED SAATHAK A.J. COLLEGE OF ENGINEERING
EMATHUR-603103,
KANCHIPURAM DT.



M. SYED MOHAMED AATHIL

has successfully completed the following course:

LabVIEW (English,2020)

5th October 2020 to 10th October2020

Alex Davern President and CEO National Instruments



NI CUSTOMER EDUCATION

Course Completion

M. MOHAMED HISHAAM

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020



Alex Davern President and CEO National Instruments



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SATHAK A.J. COLLEGE OF ENGINEERING
EGATTUR-603103.
KANCHIPURAM DT.

NI CUSTOMER EDUCATION

Course Completion

A. JOHN MOSES

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020



Alex Davern President and CEO National Instruments

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MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
EGATTUR - 631 605
KANCHIPURAM DT.

NI CUSTOMER EDUCATION

Course Completion

J. MOHAMED NAJUMUDEEN

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020



Alex Davern President and CEO National Instruments



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MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
EGATTUR-603103,
KANCHIPURAM DT

NI CUSTOMER EDUCATION

Course Completion

S. PEER MOHAMED

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020

Alex Davern President and CEO National Instruments



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EGATTUR-603103,
RANCHIPURAM DT.

NI CUSTOMER EDUCATION

Course Completion

S. SANJITH

has successfully completed the following course:



LabVIEW (English, 2020)

5th October 2020 to 10th October 2020

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Alex Davern

President and CEO National Instruments



NI CUSTOMER EDUCATION

Course Completion

S. SYED SWALIHA

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020

Alex Davern President and CEO National Instruments



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EGZ. NO. CR-603103,
KANCHIPURAM DT.



NI CUSTOMER EDUCATION

Course Completion

S. MOHAMED VAZEER

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020

Alex Davern President and CEO National Instruments



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EGATTUR-603103,
KANCHIPURAM DT.



NI CUSTOMER EDUCATION

Course Completion

V. VIGNESHWARAN

has successfully completed the following course:



PRINCIPAL

HAMED SATHAK A.J. COLLEGE OF ENGINEERING
EGATTUR-603103.
KANCHIPURAM DT

LabVIEW (English,2020)

5th October 2020 to 10th October 2020



Alex Davern President and CEO National Instruments

NI CUSTOMER EDUCATION

Course Completion

R. K. YUGARAJ

has successfully completed the following course:

LabVIEW (English, 2020)

5th October 2020 to 10th October 2020

Alex Davern President and CEO National Instruments



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DEPARTMENT OF ECE

Add-On Certificate Programs

Academic year 2020-2021



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20.12.2020

MSAJCE

From

The Head of Department
Department of ECE
Mohamed Sathak A.J College of Engineering
Chennai.

To

The Principal
Mohamed Sathak A.J College of Engineering
Chennai.

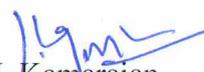
Respected Sir,

Sub – Value added course registration – Reg.

We have selected the **IVA067 IOT Using Arduino** as a value added course for this even semester for IV Year students of the (AY 2020 –2021). So I kindly request you to approve the same to update in the Anna University web portal.

Thanking You


Mrs. I. S. Suganthi
Course Coordinator


M. Kamarajan
HOD/ECE


Dr. E. Dhiravidachelvi
Academic/Head


Dr. I. Manju
Technology Centre Head


Dr. K. S. Srinivasan
Principal



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Chennai-603 103.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course

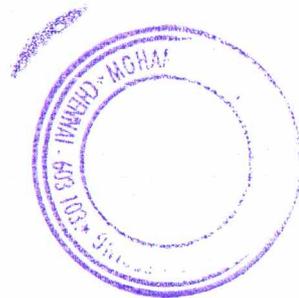
VIII Semester 2020-2021 (Even Semester)

Course Curriculum

Sl.NO	Course Code	Course Title	Category	Contact Periods	L	T	P	C
1.	IVAO67	IOT using ARDUINO	Value Added	10 days	1	0	0	2

I.S. Jayanthi
COURSE COORDINATOR

[Signature]
HOD/ECE



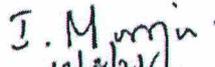
[Signature]
PRINCIPAL
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34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.

APPLICATION FOR CONDUCTING VALUE ADDED COURSES

1. Name of the Department : B.E ELECTRONICS & COMMUNICATION ENGINEERING (REGULATIONS 2017)
2. UG programme : B.E
3. Details of the Value Added Courses:
- a. Name of the Value Added Courses: IOT USING ARDUINO (Course Code IVA067)
- b. Type of Value Added Courses : (Lab integrated theory)
- c. Short Description : Enclosure 1 enclosed
- d. Syllabus including Reference : Enclosure 2 enclosed - YES
4. Target audience:
- Semester (indicate if more than one) : VIth & VIIIth Semester only
- Others
5. Details of Faculty handling the course:
- a. Name of the Faculty handling the Value Added Course : Mr.S.Naveenkumar
- b. Details including designation and expertise : Enclosure 3 enclosed - YES
- c. Contact details
- Email ID : ece.naveenkumar @ msajce-edu.in
- Phone No : 9786238380
6. Tentative Time Table including dates of internal assessments : Enclosure 4 enclosed - YES
7. Number of students opting for the course : 13
8. Department Consultative Committee - Minutes : Enclosure 5 enclosed - YES
9. Name and Designation of the Coordinator
Mrs. I.S.Suganthi
Assistant Professor,
Department of ECE
Mohamed Sathak A J College of Engg.


Head of the Department
(With date & seal)
HEAD OF THE DEPARTMENT
ELECTRONICS & COMMUNICATION ENGINEERING
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
EGATTUR, CHENNAI - 603 103



for

12/3/21
Head of the Institution
(With date & seal)
PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103.

Director, Academic Courses


PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR) Siruseri, Chennai-603 103.
Additional Controller of Examinations



Fax / Dir 22352271
CENTRE FOR ACADEMIC COURSES
 ANNA UNIVERSITY
 CHENNAI - 600 025



Dr. S.HOSIMIN THILAGAR
 DIRECTOR
 Letter No 0387/AUVA/CAC/ICE/2021

17.03.2021

To
 The Controller of Examinations
 Anna University
 Chennai - 25

Sr
 Sub: A.U. - CAC - Affiliated Institutions - Value Added Courses - Reg.
 Ref: (i) Letter No. MSAJCE/PO/021/2020-21, dated:09.02.2021
 (ii) Mail received from the college, Mohamed Sathak A.J. College of Engineering, dated 13.03.2021 and 14.03.2021.

With reference to the letter cited above, course code is allotted for the Value Added Course as mentioned below

Sl. NO.	CODE ALLOTTED	TITLE	CREDITS			
			L	T	P	C
1.	IVA057	IOT using Arduino	1	0	2	2
2.	IVA018	Advanced Python and Introduction to Machine Learning	0	0	2	1

This is for your kind information and necessary action at your end.



Yours faithfully,

[Signature]
 17/3
 DIRECTOR

[Signature]
 PRINCIPAL
 MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
 DISTRICT KANCHI - 605 003

Copy to:

1. The Principal, Mohamed Sathak A.J. College of Engineering, Siruseri, Chennai - 603 103.
2. The Chairperson, Faculty of Information and Communication Engineering, A.U. Chennai-25.
3. The Stock File.

To Dr. Manjun
 Head /rc for n/c

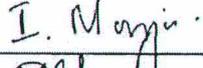
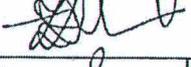
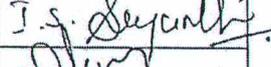
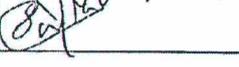
**B.E ELECTRONICS AND COMMUNICATION ENGINEERING (REGULATIONS
2017)**

VALUE ADDED COURSE

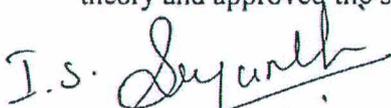
DEPARTMENT CONSULTATIVE COMMITTEE – MINUTES OF THE MEETING

Date: 12/03/21

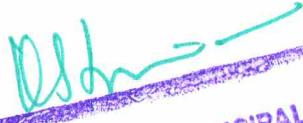
As per the Regulations 2017, a department consultative committee is constituted to offer value added course for the 6th & 8th semester, B.E Electronics and communication Engineering students pursuing their studies at Mohamed Sathak A J College of Engineering (MSAJCE), Siruseri, Chennai. The following members were present for the meeting held on 22/12/2020 at Department of B.E Electronics and Communication Engineering, MSAJCE.

S.No.	Name & Designation	Member of Bodies	Signature
1.	Dr.I.Manju, Head of the Technology Center & Professor,MSAJCE	Monitor the progress of the course	
2.	Dr . E.Dhiravidachelvi, Professor/ECE, MSAJCE	Senior Faculty Member	
3.	Mr.I.S.Suganthi / ECE, MASJCE	Coordinator	
4.	Mr.S.Naveenkumar Assistant Professor/ECE, MASJCE	Faculty handling the course	

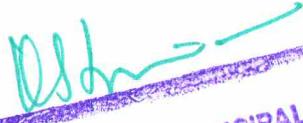
The consultative committee has decided to offer IOT USING ARDUINO for the students since it is essential for them to acquire knowledge and work in core Industry. The committee recommends Mr. S.Naveenkumar, Assistant Professor handle the course and train the students in IOT USING ARDUINO. The curriculum & syllabus, internal assessment pattern and awarding of grades are discussed and passed on the meeting for approval. The consultative committee constituted for value added course has recommended to conduct the course as lab integrated theory and approved the same.

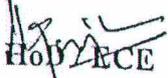

Coordinator


Committee Chairperson


(Senior Faculty Member)




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


HEAD OF THE DEPARTMENT
ELECTRONICS & COMMUNICATION ENGINEERING
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
EGATTUR, CHENNAI - 603 103.

CURRICULUM VITAE



S.NAVEEN KUMAR
Assistant Professor

E-mail:

naveen.shank9898@gmail.com

Contact Number:

Ph: +91-9786238380 (Mob)

Personal Details

Contact Address:

S.Naveenkumar, ME, MBA.,
6/162- A Karatur
P.Natamanagalam, Amani
Kondalampatti, Salem-
636010

Date of Birth: 17.01.1986

Sex: Male

Nationality: Indian

Marital Status: Married

Career Objectives

- ❖ To obtain a challenging position in a well established and fast growing professional stream using the latest technologies.
- ❖ To improve my own knowledge base and application skills by keeping on learning and updating the latest technologies so that I can handle any eventual crisis either alone or with a team.

Present Status & Professional Experience

- Working as Assistant professor in Mohammed Sathak AJ College Of Engineering, Chennai from 1.6.2012 to till date (9yrs)
- Previously worked as Lecturer in Salem Kongu Polytechnic College, Salem from 1.9.2009 to 31.8.2010 (1yr)

Total Experience: 10 Years

Academic Background

- Ph.D in Internet of Things (IOT)
Pursuing (Part Time)
SRM Institute of Science and Technology, Chennai, TN
- Master of Engineering (M.E) in VLSI Design,
Course period: 2010-2012 (Full time)
Anna University, Sona College of Technology, Chennai, Tamilnadu, India.
Percentage of marks: 8.4 CGPA
- Master of Business Administration (MBA) in Telecom Management,
Course period: 2009-2011 (Part time)
Anna University, Coimbatore, Tamilnadu, India.
Percentage of marks: 6.8 CGPA
- Bachelor of Technology (B.Tech) in Electronics and Communication
Engineering, Course period: 2004-2008 (Full time)
SRM University, Chennai, Tamilnadu, India.
Percentage of marks: 7.8 CGPA
- HSC , Passed out in 2004
Indian Matriculation Higher Secondary School, State Board, Harur,
Tamilnadu, India.
Percentage of marks: 85%
- S.S.L.C, Passed out in 2002
Indian Matriculation Higher Secondary School, State Board, Harur,
Tamilnadu, India.
Percentage of marks: 80%

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

Summary of skills

- Finished Two Certified course in Internet of Things (IOT) in University of California through Coursera.
- Centre of Excellence (COE) Incharge for Embedded & IOT and Humanoid Robotics
- Team Leader for E-Yantra (Embedded and Robotics Lab) –IIT Bombay
- Worked as a Placement Coordinator in MSAJCE college
- Project Coordinator in MSAJCE college
- Worked as an Industrial Visit coordinator for ECE department in MSAJCE.
- Worked as a Nodal officer of MSAJCE for BSNL.
- Signed MOU with 3 companies.
- Worked as an Overall Coordinator for technical symposium organized by ECE Branch, MSAJCE.

Additional skills

- Received Best Academic Performance Award of the year 2017-2018 & 2018-2019 from Mohamed Sathak Trust.
- Got award for 100% result.
- Worked as a Administrative Coordinator
- Worked as a Class advisor
- Worked as a Value added program(VAP) coordinator
- Presentation skill coordinator
- Possess good time management and organizational skills
- Proven track record of guiding and motivating student

Software Proficiency

Programming Knowledge : C, Embedded C, VHDL, Verilog
Software Package : Arduino IDE, Atmel 6.2, Keil4, ARM 7 Mat lab, Xilinx ISE Simulator

Patent Publication

TITLE : "Vehicular Edge Computing Using A Smart Embedded System For Intelligent Transportation" Journal No. 34/2020 Dated 21/08/2020

National and International Conference

- Presented a paper "Design of High Speed Architecture of Parallel Mac Based on Radix 4 Modified Booth Algorithms" in National conference held in K.S.Rangasamy College of Technology, Tiruchengode.
- Presented a paper "Intrusion detection in captured human action recognition using cache distribution" in International conference on Engineering Trends in 21 st century (ICET2K14)
- Presented a paper "Integration of Location Detection and user authentication for secured ATM" in International conference held in Sethu Institute of Technology,

Language Proficiency

Read, write and speak
English, and Tamil.

Madurai.

- Presented a paper "Automated and secured configuration in Ipv6 and Policy Based Routing" in International conference held in Sethu Institute of Technology, Madurai
- Presented a paper "Object Recognition Using Perspective Glass for Blind/Visually Impaired" in National conference held in Anand Institute of Higher Technology, Chennai
- Presented a paper "Implementation Of Protocol Independent Multicast (Pim) In Mpls Technique" in National conference held in Anand Institute of Higher Technology, Chennai

Seminar /Workshop/FTDP Attended

- Attended a AICTE sponsored two days Seminar and workshop on "Latest Trends and Advances in Ultra Wide Band Antenna Design" in KCG College of Technology, Chennai.
- Attended a two days Workshop on "Hands on Training in LABVIEW" held during 4th -5th May 2012 at Sona College of Technology, Salem.
- Attended National Workshop on "SYNOPSIS- VLSI DESIGN TOOLS" from 15-12-2011 to 17-12-2011 at Kongu Engineering College, Perundurai.
- Attended National workshop on "Embedded lab – ARM 7 processor" at St.Joseph's Institute of Technology, Chennai.
- Attended a FDTP held during July 2012 for 1 week in MSAJCE, CHENNAI.
- Attended Seven Days FDTP ON "EC6703 - Embedded and Real Time Systems" 6th to 13th June 2016
- Participated in One day National Workshop on " Laser Scattering Techniques Using Laser Sensor" was held on 24th Feb 2017

Declaration

I, hereby, declare that all the information furnished above is true to the best of my knowledge and belief.

Place: Chennai

Date: 12.3.2021


NAVEENKUMAR.S



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

Permanent Address

S.Naveenkumar
6/162-A Karatur
P.Nalamanagalam, Amani
Kondalampatti, Salem-
636010



B.E – ELECTRONICS AND COMMUNICATION ENGINEERING

Semester -6	Value Added Course on IOT USING ARDUINO	L	T	P	C
		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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ENROLLED STUDENT'S NAME LIST

Department of ECE

IVA067 - IOT Using Arduino

S.No	Reg.No	Name of the Students
1	311817106002	Hameed Ziyath
2	311817106003	Karan J
3	311817106004	M Mohamed Abdul Rahman
4	311817106005	Mohamed Shafiqshariff
5	311817106006	Muhammed Swalih.K
6	311817106008	Rajkumar C
7	311817106010	Subash G
8	311817106301	Sandhya Roselin Mary

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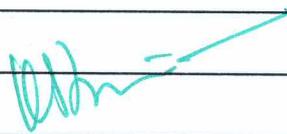
MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

VALUE ADDED COURSE - COURSE CONTENT

Department of ECE

Class :IV ECE

Academic Year: 2020 TO 2021

Name of the Value Added Course	IVA067- IoT using Arduino	Name of the handling Faculty	S.Naveenkumar		
Course Objective					
1) To expose student and gain knowledge about Arduino Technology with 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 - Integrate with Zigbee				
CO3	Study and execute real time applications				
CO4	Application Development - LiFi with Arduino				
CO5	Execute coding together and process data on the Arduino via the cloud				
Lesson Plan for VAC					
Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching	
		Book			
UNIT 1 - Introduction to Arduino					
1	Embedded processing portfolio	T1	1	PPT/BB	
2	Architecture and hardware organization of Arduino	T1	1	PPT/BB	
3	Configuring GPIO and Clock Systems	T1	1	PPT/BB	
4	Real Time Applications using GPIO configuration	T1	1	PPT/BB	
5	LCD Interfacing	T1	2	PPT/BB	
6	Technical explanation ADC	T1	1	PPT/BB	
7	Configuring ADC	T1	1	PPT/BB	
8	Real time applications using sensors	T1	1	PPT/BB	
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UNIT II - Interfacing with Zigbee					
9	Bluetooth Interfacing	T2	1	PPT/BB	

12	Android mobile based device control	T2	1	PPT/BB
13	GSM Interfacing and send SMS	T2	1	PPT/BB
14	Real time Application Development with GSM	T2	1	PPT/BB
15	Zigbee Interfacing	T2	1	PPT/BB
16	Data transmission using zigbee	T2	2	PPT/BB
17	Real time application interfacing with sensors and Zigbee	T2	2	PPT/BB
	UNIT III - Real Time Applications			
18	DC Motor Interfacing	T1	2	PPT/BB
19	H Bridge Concept and design and ultrasonic interfacing	T1	2	PPT/BB
20	Clockwise and Anticlockwise control	T1	2	PPT/BB
21	Real time Application interfacing with Robotic vehicle model	T1	2	PPT/BB
22	Real time applications interfacing with sensors and Robot	T1	1	PPT/BB
	UNIT IV - Li-Fi with Arduino			
23	Introduction	T1&T2	2	PPT/BB
24	Li-Fi based data communication	T1&T2	3	PPT/BB
25	Interfacing Li Fi with Arduino	T1&T2	2	PPT/BB
26	Application development with LiFi	T1&T2	2	PPT/BB
	UNIT V - IOT- Configuration & Integration			
27	Introduction to IOT and Scope of IOT	T1&T2	1	PPT/BB
28	Webpage Creation	T1&T2	1	PPT/BB
29	Data Transmission from Sensors	T1&T2	1	PPT/BB
30	Configuration Webpage, Sensor data monitoring	T1&T2	1	PPT/BB
31	Wireless Interfacing, Android mobile based device control	T1&T2	1	PPT/BB
32	GSM Interfacing and send SMS	T1&T2	1	PPT/BB
33	Real time application Development with GSM	T1&T2	1	PPT/BB
34	Zigbee Interfacing data transmission using Zigbee	T1&T2	1	PPT/BB
35	Real time applications interfacing with Robotic vehicle	T1&T2	1	PPT/BB
 PRINCIPAL MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING Siruseri, IT Park Chennai-603 103.				

Text / Reference Books	
1	Internet Of Things (Iot) Technologies Applications Challenges And Solutions by BK Tripathy and J Anuradha, Pub: Taylor & Francis
2	Internet of Things: A Hands-On Approach Hardcover – 12, Arshdeep Bahga (Author)
Website / URL References	
1	https://circuitdigest.com/internet-of-things-iot-projects
2	https://create.arduino.cc/projecthub/projects/tags/iot


Sign. of Course Coordinator


Sign. of HoD with date

Format No.: TLP 21

Rev. No.: 1.0

Rev. Date: 04.01.21



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VAC- IOT using ARDUINO

Final year ECE (ACY 2020-2021)

S.NO	Reg no	Name	4/1/2021	18/01/2021	25/01/2021	1/2/2021	8/2/2021	15/02/2021	22/02/2021	1/3/2021	15/03/2021	22/03/2021	29/03/2021	5/4/2021	12/4/2021	19/04/2021	19/04/2021	Attendance
1	311817106002	HAMEED ZIYATH U.R	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	42
2	311817106003	KARAN.J	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	40
3	311817106004	MOHAMED ABDUL RAHMAN.M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	45
4	311817106005	MOHAMED SHAFIQ SHARRIFF.G	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	40
5	311817106006	MUHAMMED SWALJH.K	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P	30
6	311817106008	RAJKUMAR.C	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	39
7	311817106010	SUBASH.G	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	45
8	311817106301	SANDHIYA ROSELIN MARY N.V	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	42
		Total Periods	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	45

[Signature]
HOD

[Signature]
Faculty Incharge

[Signature]
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APRIL-MAY 2021

Regno : 311817106002 Name : HAMEED ZIYATH U R

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	EC8093	Digital Image Processing	A+	P
2	EC8094	Satellite Communication	O	P
3	EC8711	Embedded Laboratory	O	P
4	EC8761	Advanced Communication Laboratory	O	P
5	EC8811	Project Work	O	P
6	VA067	IOT using Arduino	O	P
7	PH8151	Engineering Physics	O	P


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APRIL-MAY 2021

Regno : 311817106003 Name : KARAN J

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	EC8093	Digital Image Processing	A+	P
2	EC8094	Satellite Communication	O	P
3	EC8711	Embedded Laboratory	O	P
4	EC8761	Advanced Communication Laboratory	O	P
5	EC8811	Project Work	O	P
6	IVA067	IOT using Arduino	O	P

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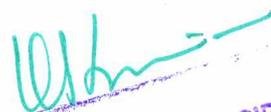
APRIL-MAY 2021

Regno : 311817106004 Name : MOHAMED ABDUL RAHMAN M

College : MOHAMMED SATHAK A J COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	EC8093	Digital Image Processing	A+	P
2	EC8094	Satellite Communication	0	P
3	EC8811	Project Work	0	P
4	IVA067	IOT using Arduino	0	P
5	EC8711	Embedded Laboratory	0	P
6	EC8761	Advanced Communication Laboratory	0	P

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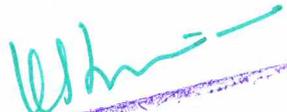
NOVEMBER-DECEMBER 2020 (REEXAMINATION) AND
APRIL-MAY 2021

Regno : 311817106005 Name : MOHAMED SHAFIQ SHARRIFF G

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

S/no	Subcode	Subname	Grade	Result
1	EC8093	Digital Image Processing	A+	P
2	EC8094	Satellite Communication	O	P
3	EC8811	Project Work	O	P
4	IVA067	IOT using Arduino	O	P
5	EC8711	Embedded Laboratory	O	P
6	EC8761	Advanced Communication Laboratory	O	P

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Regno : 311817106006 Name : MUHAMMED SYALIH K

College : MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING

Subcode	Subname	Grade	Result
OCS752	Introduction to C Programming	A	P
EC8551	Communication Networks	A	P
EC8392	Digital Electronics	A+	P
EC8252	Electronic Devices	A+	P
PH8253	Physics for Electronics Engineering	A+	P
EC8093	Digital Image Processing	A	P
EC8094	Satellite Communication	A+	P
EC8811	Project Work	O	P
IVA067	IOT using Arduino	A+	P
EC8711	Embedded Laboratory	A+	P
EC8761	Advanced Communication Laboratory	O	P

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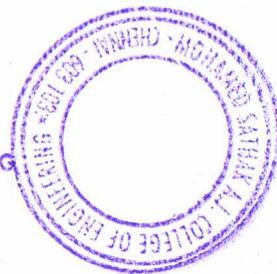
Regno: 311817106010 Name: SURASH C

College: MOHAMMED SATHAK A.J COLLEGE OF ENGINEERING

Sino	Subcode	Subname	Grade	Result
1	EC8093	Digital Image Processing	A+	P
2	EC8094	Satellite Communication	O	P
3	EC8711	Embedded Laboratory	O	P
4	EC8761	Advanced Communication Laboratory	O	P
5	EC8811	Project Work	O	P
6	IVA067	IOT using Arduino	O	P

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APRIL-MAY 2021

Regno: 311917106008 Name: RAJESHAR C

College: MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

Sno	Subcode	Subname	Grade	Result
1	EC8093	Digital Image Processing	O	P
2	EC8094	Satellite Communication	A+	P
3	EC8452	Electronic Circuits II	A	P
4	EC8701	Antennas and Microwave Engineering	A	P
5	EC8702	Ad hoc and Wireless Sensor Networks	A+	P
6	EC8711	Embedded Laboratory	O	P
7	EC8751	Optical Communication	A	P
8	EC8761	Advanced Communication Laboratory	O	P
9	EC8811	Project Work	O	P
10	IVAD67	IoT using Arduino	O	P

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APRIL-MAY 2021

Regno: 31181/T08207 Name: SANDHYA ROSELLY MARY IV

College: MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

Slno	Subcode	Subname	Grade	Result
1	EC8073	Medical Electronics	A	P
2	EC8090	Digital Image Processing	A	P
3	EC8094	Satellite Communication	B	P
4	EC8351	Electronic Circuits-I	A+	P
5	EC8352	Signals and Systems	A+	P
6	EC8451	Electromagnetic Fields	A	P
7	EC8452	Electronic Circuits-II	B+	P
8	EC8453	Linear Integrated Circuits	A	P
9	EC8501	Digital Communication	A+	P
10	EC8511	Communication Network	A	P
11	EC8552	Computer Architecture and Organization	B+	P
12	EC8553	Discrete-Time Signal Processing	B	P
13	EC8701	Antennas and Microwave Engineering	B	P
14	EC8711	Embedded Laboratory	UA	F
15	EC8721	Optical Communication	A	P
16	EC8731	Advanced Communication Laboratory	UA	F
17	EC8741	Embedded and Real Time Systems	B+	P
18	EC8811	Project Work	A+	P
19	EC8867	Optimizing Antennas	A+	P
20	MA8811	Probability and Random Processes		P
21	EC8752	Introduction to C Programming		P

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B.E – ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2020-21

Course code and Name : IVA067 and IOT Using Arduino

Couse Duration : 45 hours

Years offered : IV Year Students 2020-21

Course Instructors :Mr.S.Naveen Kumar

Course Outcome's

The Students will be outfitted with hands on Knowledge in IOT using ARDUINO Upon completion of the program, the students will be able To understand features of Arduinio Platform and the application Development –Integrated with Zig bee, Execute real-time application And Application development –LIFI with Arduino Execute coding to Gather and process data on the Arduino via the cloud

Course Type : Anna University two credit Value Added Course
Theory and Practical with Hands on Sessions

Assessment Mode

Attendance: 30 Hours
Number of Participants : 8
Scheme of Exam: MCQ online through GCR
Date of Exam -: 2.4.21

Course Coordinator



HOD/ECE


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Chennai



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B.E – ELECTRONICS AND COMMUNICATION ENGINEERING

Course Coordinator Report 2020-21

Course code and Name : IVA067 and IOT Using Arduino

Years offered : IV Year Students 2020-21

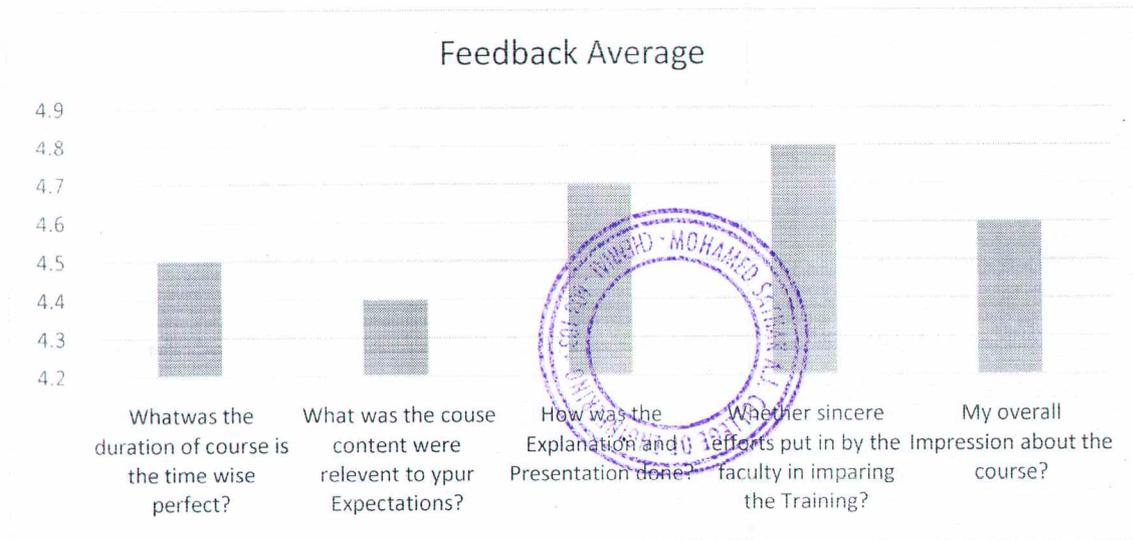
Course Instructors : Mr.S.Naveen Kumar Assistant Professor/ ECE DEPT

The certificate Program of IOT Using Arduino was Conducted for the final year Electronics and Communication Engineering Students. The total period of 45 Hrs. has been planned and executed as per the course plan.

Assessment Mode

Number of students Enrolled : 8
Scheme of exam : online
Number of Students Appeared : 8
Number of students passed: 8
Date of Exam: 02:4:21

Course feedback: The feedback was obtained from the Participants after end the course and the detailed analysis report are listed below:



Course Coordinator

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Chennai

HOD/ ECE



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B.E – ELECTRONICS AND COMMUNICATION ENGINEERING

From
M.Kamarajan,
Head/ECE,
Mohamed SathakA J College of Engineering,
Chennai.

To
The Principal,
Mohamed SathakA J College of Engineering,
Chennai.

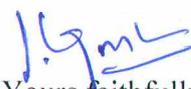
Respected Sir,

Sub: Seeking Permission for conducting Certificate Program Regarding.

We are planning to conduct online certificate program in Collaborated with Course Era on the topic “Programming Foundations with Java Script,HTML&CSS” for II Year ECE Students from 30.09.2020 to 25.10.2020 by program coordinator Mrs.J.Nirmala AP/CSE. So I kindly request you to give permission for conducting this certificate program.

Thanking You,

Place: Chennai
Date: 12.09.2020


Yours faithfully




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B.E – ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 12/09/2020

Ref:01/MSAJCE/ECE/EVEN/2020-2021

CIRCULAR

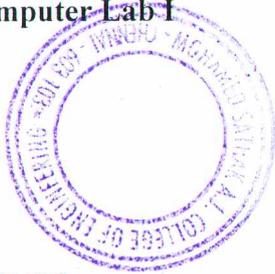
Our department is organizing a “Online certification program” on “Programming Foundations With JAVA Scripts,HTML& CSS “ during 30/09/2020 to 25/10/2020. The II Year Electronics and Communication Students register with Ms.J. Nirmala AP/ CSE on or before 25/09/2021.

The session schedule is as follows

Timing: 1.30 PM to 3.30 PM

Program coordinator: Ms.J. Nirmala , AP/CSE

Venue: Computer Lab I




HOD/ECE

COPY TO:

Dept. of ECE

II Year ECE


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Siruseri IT Park, Egattur, Chennai 603 103

ENROLLED STUDENT'S NAME LIST

Department of ECE

Programming Foundations with Java Script, HTML&CSS

Sl.No	Register No.	Name of the Student
1	311819106001	AHAMED ALI. H
2	311819106002	AKSHAYA.K
3	311819106003	ASHWINI. A
4	311819106004	ASSIFA.A
5	311819106008	HASHIM ASLAM
6	311819106009	JAHANGEER NADIR KHAN. P
7	311819106010	MOHAMED ABDULLAH M
8	311819106011	MOHAMED SALAUDEEN. R
9	311819106012	MOHAMMED ASIF. A
10	311819106013	MOHAMMED TAHEER
11	311819106014	MOHSIN KHAN. M
12	311819106015	PATTAPU PRATHYUSHA
13	311819106017	RESMA .G
14	311819106018	RIZWAN AHAMED. M
15	311819106019	SARA. A

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B.E – ELECTRONICS AND COMMUNICATION ENGINEERING

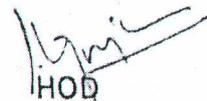
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COURSERA**

Department of ECE- List of students

S.no	Reg.number	Student Name	Certificate Program for Coursera
1	311819106001	AHAMED ALI. H	✓
2	311819106002	AKSHAYA.K	✓
3	311819106003	ASHWINI. A	✓
4	311819106004	ASSIFA.A	✓
5	311819106008	HASHIM AŞLAM	✓
6	311819106009	JAHANGLER NADIR KHAN. P	✓
7	311819106010	MOHAMED ABDULLAH M	✓
8	311819106011	MOHAMED SALAUDEEN. R	✓
9	311819106012	MOHAMMED ASIF. A	✓
10	311819106013	MOHAMMED TAHEER	✓
11	311819106014	MOHSIN KHAN. M	✓
12	311819106015	PATTAPU PRATHYUSHA	✓
13	311819106017	RESMA .G	✓
14	311819106018	RIZWAN AHAMED. M	✓
15	311819106019	SARA.A	✓


Course coordinator




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Programming Foundations with Java Script,HTML&CSS - COURSERA

Department of ECE- Attendance from 30.09.2019-24.10.201

S.n	Reg.number	Student Name	30.09.2020	1.10.2020	3.10.2020	5.10.2020	6.10.2020	7.10.2020	8.10.2020	12.10.2020	13.10.2020	14.10.2020	15.10.2020	16.10.2020	19.10.2020	20.10.2020	21.10.2020	22.10.2020
1	311819106001	AHAMED ALI H	/	/	/	a	/	/	/	/	a	/	/	/	/	/	/	/
2	311819106002	AKSHAYA K	/	/	a	/	/	/	/	/	/	/	a	/	/	/	/	a
3	311819106003	ASHWINI A	a	/	/	/	/	/	a	/	/	/	/	/	/	a	/	/
4	311819106004	ASSIFA A	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	n
5	311819106008	HASHIM ASLAM	/	/	/	/	a	/	/	/	/	/	/	/	a	/	/	/
6	311819106009	JAHANGEER NADIR KHAN. P	/	/	/	/	/	/	a	/	/	/	a	/	/	/	/	a
7	311819106010	MOHAMED ABULLAH M	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	311819106011	MOHAMED SALAUDEEN. R	/	/	/	/	/	/	a	/	/	/	/	/	a	/	/	/
9	311819106012	MOHAMMED ASIF A	/	a	/	/	/	/	/	a	/	/	/	/	/	a	/	/
10	311819106013	MOHAMMED TAHEER	/	/	/	a	/	/	/	/	/	a	/	/	/	/	a	/
11	311819106014	MOHSIN KHAN. M	/	a	/	/	/	/	/	/	a	/	/	/	/	/	/	a
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13	311819106017	RESMA G	/	/	/	/	/	/	/	/	/	/	/	/	a	/	/	/
14	311819106018	RIZWAN AHAMED. M	a	/	/	/	/	/	/	/	a	/	/	/	/	/	a	/
15	311819106019	SARA A	/	/	/	/	/	/	a	/	/	/	a	/	/	/	/	/

nod Absentees.
 [Signature]
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Programming Foundations with JavaScript, HTML and CSS



Syllabus

WEEK 1

23 minutes to complete

Welcome

Welcome! In this module, you will be introduced to this course's approach to teaching the basics of programming, from building web pages, to writing programs with JavaScript, to making web pages interactive.

5 videos (Total 13 min), 1 reading

5 videos

1. Course Overview 3m
2. A Student's Perspective on Learning Programming 2m
3. Resources to Help You Succeed 2m
4. Tips for Learning Programming 1m
5. Using Forums: How to Ask for Help Effectively 3m

1 reading

Module Feedback Surveys 10m

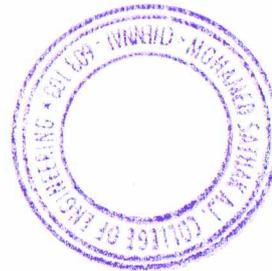
7 hours to complete

Designing a Web Page with HTML and CSS

In this module, you will learn the basics of HTML and CSS to design a web page. Over the course of the module you will build your first web page!

10 videos (Total 51 min), 8 readings, 4 quizzes

1. Using CodePen 2m
2. What Is HTML? 7m
3. Metadata and Sectioning Elements 2m
4. Formatting Text and Nesting Tags 1m
5. Adding Images and Links 3m



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6. Images and Storage6m
7. Lists and Tables7m
8. How CSS Is Used to Design Web Pages4m
9. CSS Basics7m
10. Colors and Names in CSS7m

8 readings

1. Try It! Create Your CodePen Account10m
2. Try It! Build a “My Interests” Web Page40m
3. Try It! Format Text20m
4. Try It! Add Links and Images30m
5. Try It! Create Lists and Tables45m
6. Try It! Style Your Web Page with CSS30m
7. Try It! Customize Your Web Page’s Colors30m
8. End of Module Survey10m

4 practice exercises

1. Using HTML - Formatting Text30m
2. Using HTML - Displaying Data30m
3. Styling with CSS30m
4. Designing a Web Page with HTML and CSS30m
- 5.

WEEK 2

9 hours to complete

Algorithms and Programming Concepts

15 videos (Total 100 min), 7 readings, 6 quizzes

1. Introduction2m
2. Everything Is a Number6m
3. How Is That a Number?2m
4. Developing an Algorithm6m
5. A Seven Step Approach to Solving Programming Problems7m
6. Variables9m
7. Methods7m
8. Functions5m
9. Types4m
10. DukeLearnToProgram Environment10m



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11. For Loops6m
12. Conditional Execution7m
13. Translating to Code10m
14. Thinking Critically about Your Program4m
15. Finding Bugs in Code9m

7 readings

1. Try It! Using Variables, Methods and Functions30m
2. Rampup Programming Exercise - Variables, Methods and Functions3m
3. Try It! Using For Loops30m
4. Rampup: Programming Exercise - Loops and Conditionals10m
5. Programming Exercise: Modifying Images1h 30m
6. Programming Exercise: Advanced Modifying Images1h 30m
7. End of Module Survey10m

6 practice exercises

- Solving Programming Problems20m
- Variables, Methods and Functions30m
- Loops and Conditionals30m
- Modifying Images with JavaScript30m
- Debugging Your Code30m
- Overview of Programming Concepts30m

WEEK 3

8 hours to complete

JavaScript for Web Pages

8 videos (Total 62 min), 10 readings, 3 quizzes

1. Introduction3m
2. Buttons with Divs6m
3. Changing Pages Interactively7m
4. Using HTML5 Canvas10m
5. Inputs and Events8m
6. Upload and Display an Image7m
7. Convert Image to Grayscale8m
8. Moving to CodePen9m

10 readings

1. Try It! Buttons with Divs30m



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2. Try It! Change Pages Interactively30m
3. Programming Exercise: TODO list10m
4. Try It! Canvas30m
5. Try It! Inputs and Events30m
6. Programming Exercise: An Interactive Paint Canvas10m
7. Try It! Upload and Display an Image30m
8. Try It! Convert an Image to Grayscale1h
9. Try It! Green Screen Online1h 30m
10. End of Module Survey10m

3 practice exercises

1. Buttons and Interaction30m
2. Event-Driven Programming30m
3. Interactive Web Pages30m

WEEK 4

9 hours to complete

MiniProject: Image Filters on the Web

5 videos (Total 31 min), 7 readings, 3 quizzes

1. Introduction3m
2. Steganography Part I6m
3. Steganography Part II8m
4. Steganography Part III4m
5. Steganography Coding Example7m

7 readings

1. MiniProject Part I1h 30m
2. MiniProject Part 21h 30m
3. MiniProject Challenge1h
4. End of Module Survey10m
5. Extra Challenge5m
6. Steganography Review1h 30m
7. Steganography: Programming Exercise Guide1h 30m

3 practice exercises

1. Review of HTML, CSS, and JavaScript30m
2. Steganography math30m
3. Steganography30m



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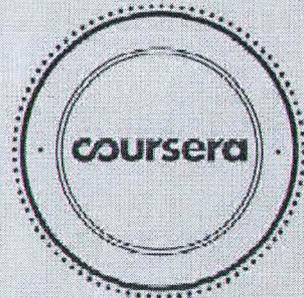
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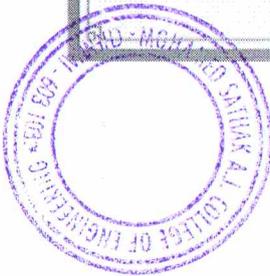
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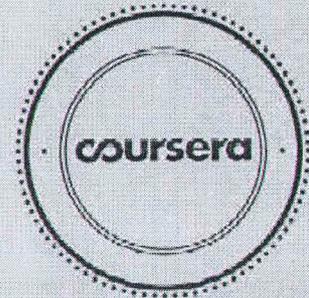
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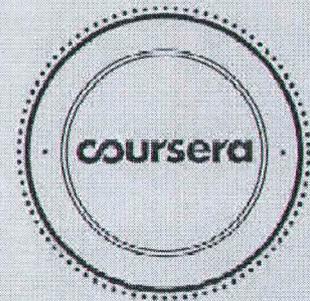
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Chuan Ammechan, Professor of the Practice, Computer Science
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Signature of Mohamed Sathak

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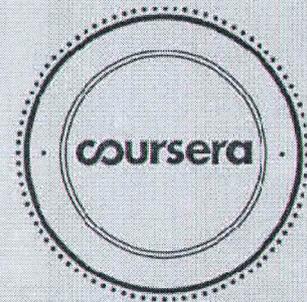
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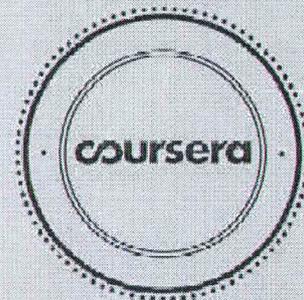
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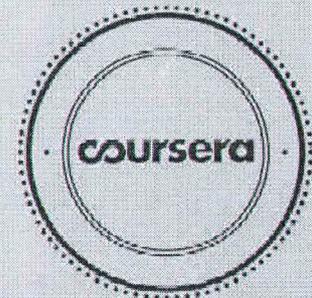
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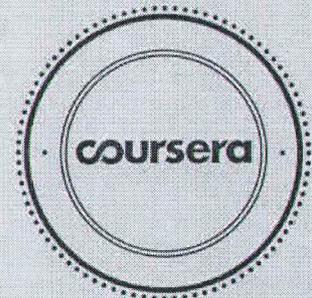
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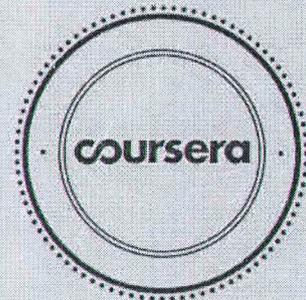
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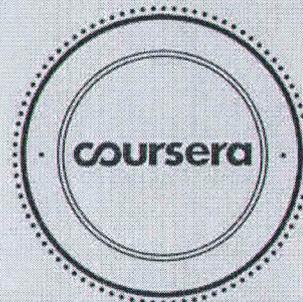
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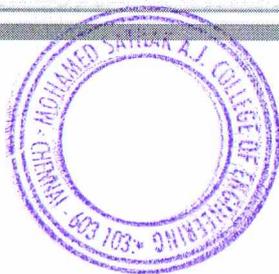
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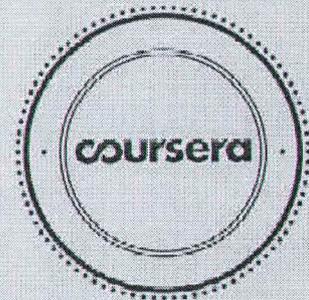
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Mohammed Taheer

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Quinn Armitage, Professor of the Practice, Computer Science
Andrew D. Hilton, Adjunct Professor of the Practice, Electrical and Computer Engineering

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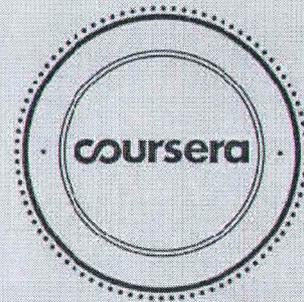
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Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

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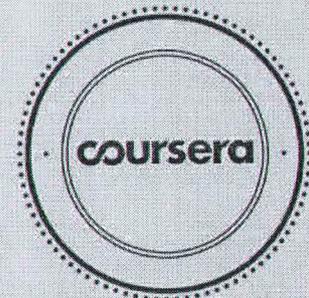
23-Oct-2020

ASSIFA A

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Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

Mohamed Sathak A.J.

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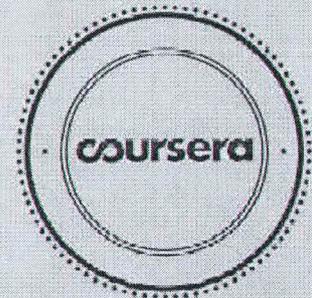
Oct 29, 2020

Sara.A

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and CSS

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Susan H. Rohrer Professor of the Practice, Computer Science

Robert Farwell, Lecturer, Computer Science

Dustin Armeschan, Professor of the Practice, Computer Science

Andrew B. Wilson, Assistant Professor of the Practice, Electrical and Computer Engineering

Mohamed Sathak A.J.

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Oct 30, 2020

Mohamed Abdullah

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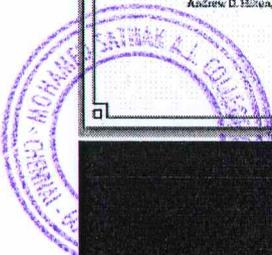
Susan H. Rodger, Professor of the Practice, Computer Science
Robert Davail, Lecturer, Computer Science
Daren Armstrong, Professor of the Practice, Electrical and Computer Engineering
Andrew D. Hiltz, Assistant Professor of the Practice, Electrical and Computer Engineering

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ASSESSMENT- PROGRAMMING FOUNDATIONS WITH JAVA SCRIPTS, HTML & CSS

Name: K. AKSHAYA

Reg.no: 311819106002

Year & Dept: II & ECE.

Date: 05/10/2020

19/25
Omij

1. Which organization defines the Web Standards?

- a. Microsoft Corporation
- b. IBM Corporation
- c. World Wide Web Consortium
- d. Apple Inc.

✓

2. Which of the following is used to create web pages?

- a. HTML
- b. C
- c. JVM
- d. DTD

✓

3. HTML is considered as ___ language

- a. Programming Language
- b. OOP Language
- c. High Level Language
- d. Markup Language

✓

4. HTML language is a set of markup

- a. Attributes
- b. Tags
- c. Sets
- d. Groups



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✓

5. HTML tags are used to describe document ___ describe document



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a. Definition

b. Language

c. Content

d. None of these

6. HTML document can contain

a. Attributes

b. Tags

c. Plain text

d. All of these

7. Page designed in HTML is called a

a. Yellow Page

b. Web Page

c. Server Page

d. Front Page

8. We can write HTML code using _____. Select appropriate option(s).

a. VLC Media

b. Notepad++

c. Microsoft PowerPoint

d. None of these

9. HTML document is saved using ____ extension.

a. .htl

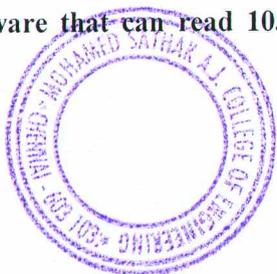
b. .html

c. .hml

d. .html

10. The software that can read and render HTML documents is

a. Server



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b. Compiler

c. Interpreter

d. Browser

11. PCs running Windows 3.x will have ___ extension for html pages

a. .htl

b. .html

c. .htm

d. .hml

12. Which of the following is not an example of browser?

a. Netscape Navigator

b. Microsoft Bing

c. Mozilla Firefox

d. Opera

13. Who is the primary author of HTML?

a. Brendan Eich

b. Tim Berners-Lee

c. Web Programmer

d. Google Inc

14. HTML was first proposed in year ___.

a. 1980

b. 1990

c. 1995

d. 2000

15. HTML tags are surrounded by ___ brackets.

a. Angle

b. Square

c. Round

d. Curly



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16. Opening tag of HTML is called

- a. Ending tag
- b. Starting tag
- c. Closed tag
- d. Pair tags

17. HTML document contain one root tag c 17. HTML document contain one root tag called _____
alled _____

- a. HEAD
- b. Title
- c. Body
- d. HTML

18. Basic fundamental block is called as _____

- a. HTML tag
- b. HTML body
- c. HTML Attribute
- d. HTML Element

19. Is it possible to insert a 19. Is it possible to insert a table within another table within another table?

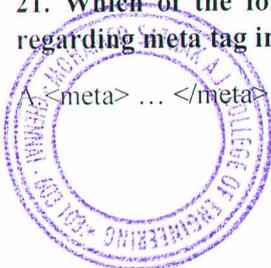
- a. Yes, but there must be exactly 2 rows and 2 columns in first table.
- b. Yes, table can be inserted into cell of another table.
- c. Yes, but there must be no border in second table.
- d. No, it's not possible.

20. What is the usage of alt value in tag? alt value in tag?

- a. Alternative text for an Image
- b. Alternative source of an Image
- c. Caption of an Image
- d. All of above

21. Which of the following is the correct regarding meta tag in HTML?

A. <meta> ... </meta>



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B. <meta name = " " />

C. <metadata> ... </metadata>

D. <metadata name = " " />

22. Which of the following is correct to set "Black" color as Background of page?

A. bgcolor = "#000000">

B. <body background = "#000000">

C. <body Background color = "#000000">

D. All of Above

23. Which of the following is correct to align H1 tag to Right Alignment

Right Alignment

A. <h1 align = "right"> ...

B. <h1 alignment = "right"> ...

C. <h1 tag align = "right"> ... </h1>

D. H1 cannot make Right Alignment

24. Which of the following is correct to change font face in Web Page

A. ...

B. ...

C.

D. Font Face cannot change

25. Which of the following is incorrect regarding Logical Styles?

A. Code looks like teletype

B. Sample looks like teletype

C. Keyboard looks like teletype

D. Variable looks like teletype



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2020-2021

Course code and Name : Programming Foundations with Java Script, HTML & CSS

Course Duration : 30 hours

Years offered : II Year Students of ECE

Course Instructors: Ms. J. Nirmala AP/ CSE.

Course Outcome's :

After completing this course students will be able to understand the concepts of the historical context and justification for HTML, Create HTML5 documents, Add content to an HTML page using HTML elements. , Use hyperlinks to connect various HTML pages together.

Course Type: Add on course Organized By MSAJCE in association with Course era

Assessment Mode:

Attendance : 30 Hours

Number of Participants : 15

Scheme of Exam : Offline Assessment Examination

Date of Exam - : 05.10.2020

Course Coordinator

PRINCIPAL
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34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
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HOD/ECE



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DEPARTMENT OF MECHANICAL ENGINEERING

From ,

Mr.G.Ramesh,
Associate Professor,
Department of Mechanical Engineering,
Mohamed SathakA.J.College of Engineering,
Chennai – 603103.

To

The Principal,
Mohamed SathakA.J.College of Engineering,
Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Mechanical department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

Year/Sem	Title	Dates
III/V-Mechanical	Fusion 360 Assembly Modelling	01.02.2021 to 12.02.2021

Place : Chennai

Date: 20.01.2021



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Your's faithfully

Principal



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DEPARTMENT OF MECHANICAL ENGINEERING

From ,

Mr.G.Ramesh,
Associate Professor,
Department of Mechanical Engineering,
Mohamed SathakA.J.College of Engineering,
Chennai – 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for VAC course curriculum design for the academic year 2020-2021-Reg

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2020-2021 Dated:01.02.2021 to 12.02.2021.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

Title	Name of the Faculty
Fusion 360 Assembly Modelling	Mr.Mohan S R AP/MECH




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Principal


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DEPARTMENT OF MECHANICAL ENGINEERING

Date:25.01.2021

Ref:MSAJCE/VAC01MECH/ODD/2020-2021

CIRCULAR

Our department is organizing a "ADD ON " on **Fusion 360 Assembly Modelling** during 01.02.2021 to 12.02.2021 The following III Year Mechanical Students register with Mr.Mohan S R AP/MECH on or before 29.01.2021.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Venue: GF 103 ALTAIR LAB

HoD

Head of the Department
Department of Mechanical Engineering
Mohamed Sathak A.J.College of Engineering
Egattur, Chennai - 603 103.

COPY TO:

Dept. of Mechanical

III Year MECH



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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE MODULE

Course Objectives:

- The Students will acquire to
- To present the basic theoretical knowledge of the Fusion 360
 - To gain practical experience in handling 3D modelling software systems.
 - To know the drawing of various engineering part and assembly
 - To gain the knowledge of cloud storage for mechanical software platform
 - To know the easy way of part modelling to 3D printing module

MODULE

1. Modelling concept and workflow
2. Sketching with Dimension and Construction Control
3. Working With solids i) Extrusion ii) Revolution iii) Fillet & Chamber iv) Sweep and Loft.
4. Editing your model
5. Assemblies and Constraints
6. Materials and Images
7. Technical Drawing -Practice
8. Technical Drawing -Practice
9. Technical Drawing -Practice




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DEPARTMENT OF MECHANICAL ENGINEERING

Course Outcomes:

The students will be able to

- CO1. Create and drive a mechanical gear assembly.
- CO2. Create and modify a form-based design.
- CO3. Use design tools for molded parts.
- CO4. Demonstrate proficiency in the setup and creation of a design.




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DEPARTMENT OF MECHANICAL ENGINEERING

COPO Mapping

Course Outcome	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Create and drive a mechanical gear assembly	3	3			3			2		2	3	2
Create and modify a form-based design.	2	2	2									
Use design tools for molded parts.	3	2	3									
Demonstrate proficiency in the setup and creation of a design.	3	3	3					2		2	3	3

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DEPARTMENT OF MECHANICAL ENGINEERING

S.No	Title	TopicstobeCovered	T/R Books	PeriodsRequired	Remarks	
1	Fusion 360 Assembly Modelling	Modelling concept and workflow	T	4	Online	
2		Sketching with Dimention and Constraction Control	T	6	Online	
3		Working With solids i) Extrusion ii) Revolution iii) Fillet & Chamber iv) Sweep and Loft.	T	6	Online	
4		Editing your model	T	3	Online	
5		Assemblies and Constraints	T	5	Online	
6		Materials and Images	T	3	Online	
7		Technical Drawing - Practice			6	Online
8		Technical Drawing - Practice	T		6	Online
9		Technical Drawing - Practice	T		6	Online



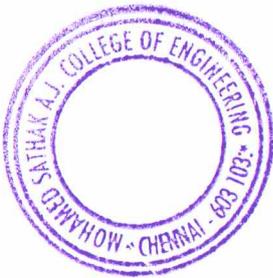
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DEPARTMENT OF MECHANICAL ENGINEERING

Text/ReferenceBooks	
1	Autodesk Fusion 360: A Power Guide for Beginners and Intermediate Users (4 th Edition) By John Willis, Sandeep Dogra, CADArtifex, 2020
2	Autodesk Fusion360 :A Learner's Guide (2 nd edition) Sham Tickoo, BPB Publication, 2020
Website/URLReferences	
1	https://academy.autodesk.com/course/137998/modeling-and-design-mechanical-engineers
2	https://academy.autodesk.com/campaigns/fusion-360-learning/webinar-gettingstarted
3	https://www.autodesk.com/autodesk-university/class/Assemblies-putting-it-Together-fusion-360-2017



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DEPARTMENT OF MECHANICAL ENGINEERING

Sl.No	RegisterNo.	Name of theStudent	Status of Qualifying
1	311818114001	ADIL.M	Qualified
2	311818114003	AQIB AHAMED.A	Qualified
3	311818114004	ASIF. J	Qualified
4	311818114005	BHAVISH PRAVEEN KAYYA	Qualified
5	311818114007	FAYAZ HUSSAIN.T	Qualified
6	311818114008	IZASH AHAMED ALI.H	Qualified
7	311818114009	KABOOR SHALIP S	Qualified
8	311818114010	MANIKANDAN.R	Qualified
9	311818114011	MOHAMMED ASIF.S.S	Qualified
10	311818114012	MOHAMED FARIS. S	Qualified
11	311818114014	MOHAMMED MUBEEN.A	Qualified
12	311818114015	MOHAMED NIBRAS.M	Qualified
13	311818114017	MOHAMED SAMEER.S.R.	Qualified
14	311818114018	MOHAMED SHAFI.S	Qualified
15	311818114019	MOHAMMAD HAREES.S	Qualified
16	311818114020	MOHAMMED ADNAN.S	Qualified
17	311818114021	MOHAMED SADIQ BASHA	Qualified
18	311818114022	MOHAMMED ANSARI.A	Qualified
19	311818114023	MUHAMMED ZAHAN FAAIEQ.J	Qualified
20	311818114024	SHAHILA.P	Qualified
21	311818114025	YASAR ARAFATH.A	Qualified
22	311818114301	AFSAL NAJUMUDEEN	Qualified
23	311818114302	ARUN KUMAR. G	Qualified
24	311818114303	MOHAMED FAROOK FAYAS	Qualified
25	311818114304	PURUSHOTHAMAN O.B	Qualified
26	311818114305	SHAMEER. R	Qualified

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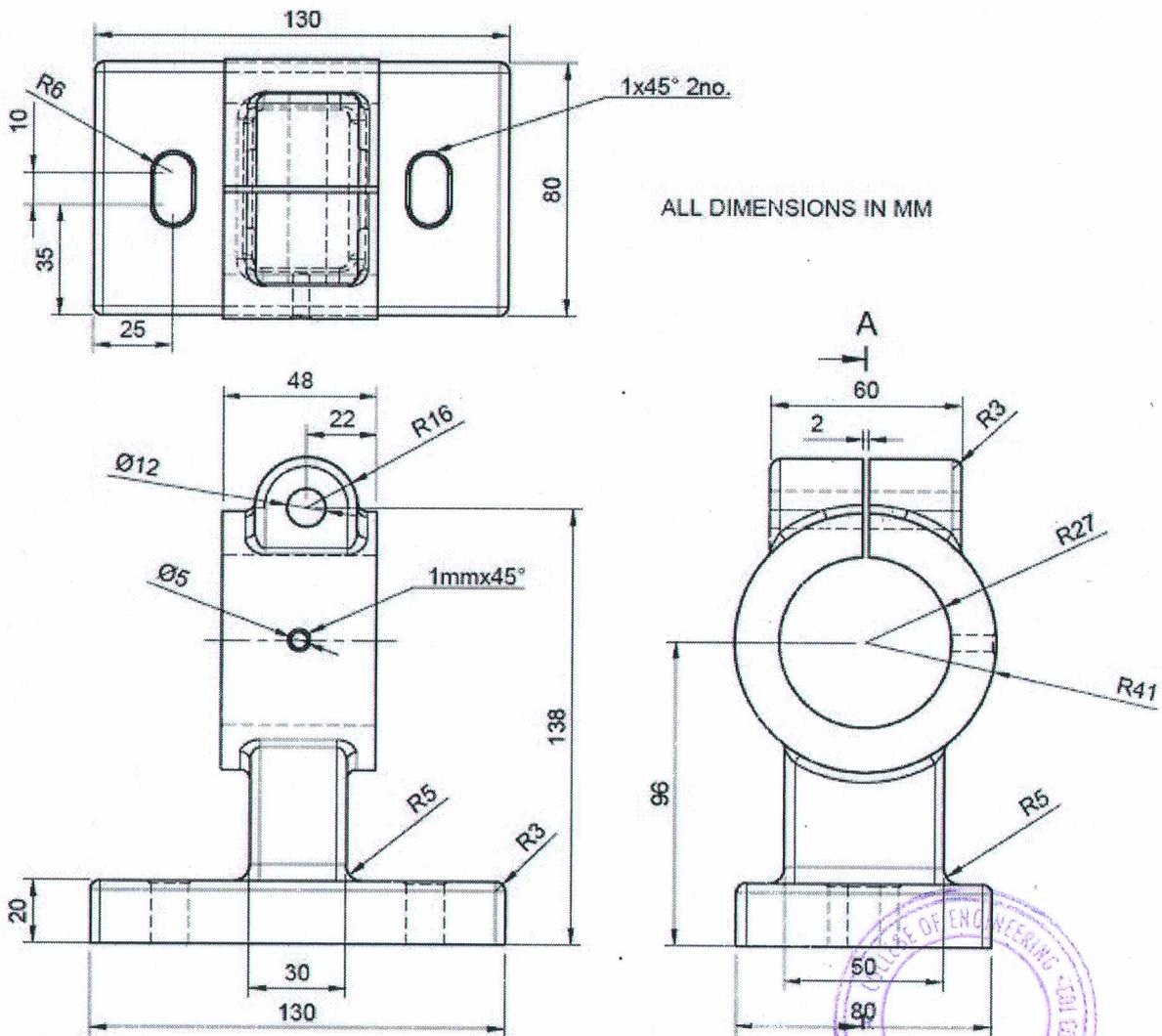
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DEPARTMENT OF MECHANICAL ENGINEERING

Fusion 360 Assembly Modeling (VAC)
(Online)
Academic Year: 2020-21
III Year

Date: 07-06-2021

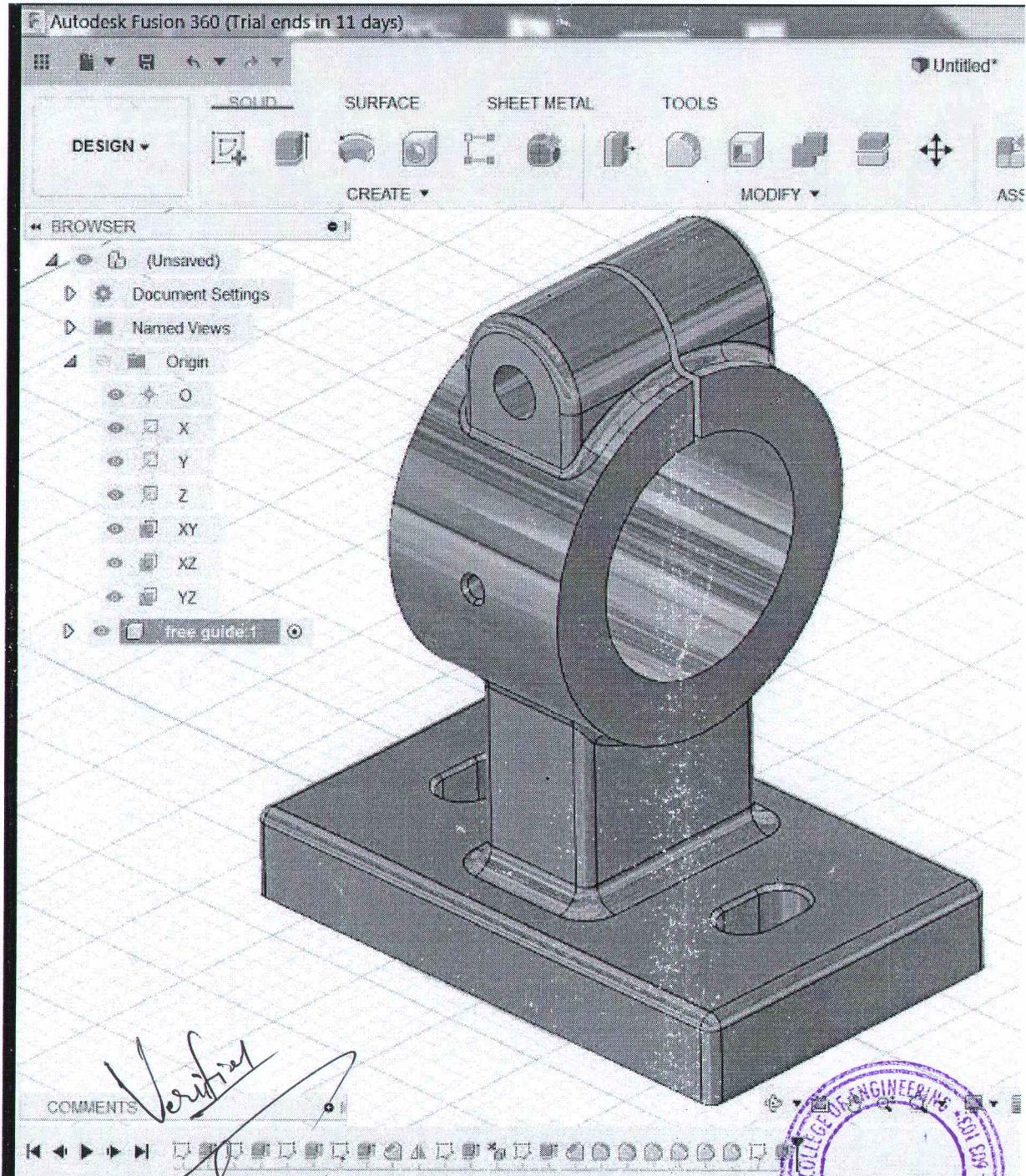
Time: 1Hr

1. Create the 3D model and assemble the parts of the following diagram using Autodesk fusion 360 (50 marks)



Handwritten signature in green ink.

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Egattur, Chennai 603 103

DEPARTMENT OF CIVIL ENGINEERING

From ,

Mr.M.B.Shanmuharajan
Head Of The Department
Department of Civil Engineering
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

To

The Principal,
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

Respected Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Civil Engineering department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

Year/Sem	Title	Dates
IV/VIII - Civil	3D Infrastructural Modeling	8/2/2021 to 12/2/2021

Thanking you

Place : Chennai

Date: 3/2/21

Your's faithfully

M.B. Shanmuharajan
M.B. SHANMUHARAJAN


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Egattur, Chennai 603 103

DEPARTMENT OF CIVIL ENGINEERING

From,

Mr.M.B.Shanmuharajan
Head Of The Department
Department of Civil Engineering
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

To

The Principal,
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

Respected Sir,

Sub: Assigning of faculty for VAC course curriculum design for the academic year 2020-2021 reg.

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2020-2021 Dated 8/2/2021 to 12/2/2021.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

Title	Name of the Faculty
3D Infrastructural Modeling	Mr.R.B.Rakesh AP/CIVIL

Thanking you

Place : Chennai

Date: 3/2/21

Your's faithfully

M.B. SHANMUHARAJAN
PRINCIPAL
MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING
34, Rajiv Gandhi Road (OMR), Siruseri, IT Park
Chennai-603 103.



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Egattur, Chennai 603 103

DEPARTMENT OF CIVIL ENGINEERING

Date: 3/2/2021

MSAJCE/CIVIL/COE/01/2020-2021

CIRCULAR

It is hereby informed to Final Year students of CIVIL department 3D Infrastructural Modelling is arranged from 8/2/2021 to 12/2/2021 at BIM lab. All are advised to attend positively.

M. B. [Signature] 03/02/2021
Head of Department

[Signature]
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DEPARTMENT OF CIVIL ENGINEERING

COURSE MODULE
B.E CIVIL ENGINEERING (REGULATIONS 2017)

VALUE ADDED COURSE

3D INFRASTRUCTURAL MODELLING

L T P C
1 0 2 2

OBJECTIVES:

- The objective of this course is to impart necessary and practical knowledge of Building Information Modeling (BIM) and Communicate a design idea, structural detailing, concept graphically, visually in 3D Infrastructural Modeling.

Unit I : Introduction

9

Introduction to 3D Infrastructural Modeling and Revit – Process- Creating a project - co-ordinate systems- reference planes. Commands: Initial settings- Drawing aids- Drawing basic entities- Modify commands- Layers - Text and Dimensioning- Blocks -Drawing presentation norms and standards.

Unit II :Creating of Floor Plan

9

Creating walls- Level - Girds - Creating Terrain. Adding exterior walls-Adding a roof-Adding floor - Adding interior walls.

Unit III : Placing of Components

9

Adding door- Adding windows- Adding components - Structural members - Using Model Builder in Infracworks- Creating a proposed street style - Creating a sketch road - Converting a sketch road to a design road - Creating a new design proposal and design road - Opening an Infracworks model in REVIT Civil 3D- Adding survey field data to the model.

Unit IV : Creating Documenting

9

Documenting the Project –Sheets- Print – Schedules- Rooms - Areas and Legend.

Unit V :Creating Walkthrough

9

Adding a curtain wall-Attaching walls to the roof-Solar study-Walkthrough –Lights-Creating elevation - Modifying the entry deck -Adding a sloped floor- Adding stairs and railings-Modifying the roof.

TOTAL: 45 HOURS


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DEPARTMENT OF CIVIL ENGINEERING

OUTCOMES:

Upon completion of the course,

1. Understand basic concepts of Infrastructure construction planning and able to create new project
2. To get exposure to 2D & 3D drawings and infrastructure design towards to our country development program .
3. Predict and assess the impact of Infrastructure projects and planning of various industrial components
4. Know the requirements of various industries
5. To develop graphical skills for communicating concepts, innovative design, structural detailing and products graphically/ visually as well as understand another person's designs.

TEXT BOOKS:

1. Malik R.S., Meo, G.S. (2009) Civil Engineering Drawing, Computech Publication Ltd New Asian.
2. Sikka, V.B. (2013), A Course in Civil Engineering Drawing, S.K.Kataria & Sons,

REFERENCES:

1. Autodesk Revit 2017 MEP Fundamentals - SDC Publications.
2. Mastering Autodesk Revit MEP 2016. Autodesk Official Press, Simon Whitbread

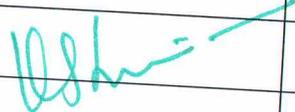
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Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	Introduction to 3D Infrastructural Modeling and Revit - Process	TB	1	Online
2	Creating a project	TB	1	
3	co-ordinate systems- reference planes.	TB	1	Online
4	Commands: Initial settings	RB	1	Online
5	Drawing aids	TB	1	Online
6	Drawing basic entities	TB	1	Online
7	Modify commands- Layers	TB	1	Online
8	Text and Dimensioning- Blocks	RB	1	Online
9	Drawing presentation norms and standards.	TB	1	Online
10	Introduction	RB	1	Online
11	Creating walls	RB	1	Online
12	Level	TB	1	Online
13	Girds	RB	1	Online
14	Creating Terrain	RB	1	Online
15	Adding exterior walls	TB	1	Online
16	Adding a roof	TB	1	Online
17	Adding floor	TB	1	Online
18	Adding interior walls.	TB	1	Online
19	Adding door, Adding windows	RB	1	Online


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20	Adding components - Structural members	TB	1	Online
21	Using Model Builder in Infracworks	TB	1	Online
22	Creating a proposed street style	TB	1	Online
23	Creating a sketch road	RB	1	Online
24	Converting a sketch road to a design road	TB	1	Online
25	Creating a new design proposal and design road	TB	1	Online
26	Opening an Infracworks model in REVIT Civil 3D	TB	1	Online
27	Adding survey field data to the model.	TB	1	Online
28	Introduction of Creating Documenting	RB	1	Online
29	Documenting the Project	RB	1	Online
30	Continuation of Documenting the Project	RB	1	Online
31	Excercise of Documenting the Project	RB	1	Online
32	Sheets	RB	1	Online
33	Print	RB	1	Online
34	Schedules	RB	1	Online
35	Rooms	RB	1	Online
36	Areas and Legend	RB	1	Online
37	Adding a curtain wall	TB	1	Online
38	Attaching walls to the roof	TB	1	Online
39	Solar study	TB	1	Online
40	Walkthrough -Lights	TB	1	Online
41	Creating elevation	TB	1	Online
42	Modifying the entry deck	TB	1	Online
43	Adding a sloped floor	TB	1	Online

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44	Adding stairs and railings	TB	1	Online
45	Modifying the roof	TB	1	Online
Quiz / Mini Projects / Model Developed if any				
Quiz Conducted				
Text / Reference Books				
1	Malik R.S., Meo, G.S. (2009) Civil Engineering Drawing, Computech Publication Ltd New Asian.			
2	Sikka, V.B. (2013), A Course in Civil Engineering Drawing, S.K.Kataria & Sons			
Website / URL References				
1	Autodesk Revit 2017 MEP Fundamentals - SDC Publications.			
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DEPARTMENT OF CIVIL ENGINEERING

Value added course summary 2020-21

Course code and Name : CVA034-3D Infrastructural Modelling
Course Duration : 45 Hours
Year offered : IV year Students 2020-21
Course Instructor : Mr.R.B.Rakesh AP/CIVIL
Course Outcome :

Upon completion of the course,

1. Understand basic concepts of Infrastructure construction planing and able to create new project.
2. To get exposure to 2D & 3D drawings and infrastructure design towards to our country development program .
3. Predict and assess the impact of Infrastructure projects and planning of various industrial components
4. Know the requirements of various industries
5. To develop graphical skills for communicating concepts, innovative design, structural detailing and products graphically/ visually as well as understand another person's designs.

Course Type : **Anna University one credit Value added course**
Theory and Practical with Hands on sessions

Assessment Mode :

Attendance : 45 Hours
No. of Participants : 18
Scheme of Exam : MCQ Online through GCR
Date of Exam : 15/2/2021


Course Coordinator


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HoD



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DEPARTMENT OF CIVIL ENGINEERING

Academic year 2020 – 2021

Enrolled Student Name List

Sl.No	Name of theStudent	Register No.	Certificate Program 3D- Infrastructural Modelling
1	AMSHA AFRIDEEN .A	311817103001	✓
2	ANTONY DARSHAN A	311817103002	✓
3	ARUN.M	311817103003	✓
4	FAREED AHAMED .S	311817103005	✓
5	IJAS AHAMED P.M.	311817103006	✓
6	ISMATH ALI. M	311817103007	✓
7	JAFFER ABBAS M.A.	311817103008	✓
8	KISHORE KUMAR.R	311817103009	✓
9	KISHORE KUMAR.S	311817103010	✓
10	MOHAMED SAMEEM MOHIDEEN	311817103014	✓
11	MOHAMED SHAHEEM S.B	311817103015	✓
12	MOHAMED TAJAMMUL	311817103016	✓
13	MOHAMED UMAR .M	311817103017	✓
14	MOHAMMED AMEEN.A	311817103018	✓
15	MOHAMMED ISMAAIL.S	311817103019	✓
16	SURENDER .M	311817103025	✓
17	SYED MOHAMMED USAID MOHIUDDIN	311817103026	✓
18	NAINA MOHAMED BASIDH	311817103701	✓

[Handwritten Signature]
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Sl.No	Name of the Student	Register No.	8/2/21	9/2/21	10/2/21	11/2/21	12/2/21
1	Amsha Afrideen .A	311817103001	/	/	/	/	/
2	Antony Darshan A	311817103002	/	/	/	/	/
3	Arun.M	311817103003	/	/	a	/	/
4	Fareed Ahamed .S	311817103005	/	/	/	/	/
5	Ijas Ahamed P.M.	311817103006	/	/	/	/	/
6	Ismath Ali. M	311817103007	/	/	/	/	/
7	Jaffer Abbas M.A.	311817103008	/	/	/	/	/
8	Kishore Kumar.R	311817103009	a	/	/	/	/
9	Kishore Kumar.S	311817103010	/	/	/	/	/
10	Mohamed Sameem Mohideen	311817103014	/	/	/	/	/
11	Mohamed Shaheem S.B	311817103015	/	/	/	/	/
12	Mohamed Tajammul	311817103016	/	/	/	/	/
13	Mohamed Umar .M	311817103017	/	/	/	/	/
14	Mohammed Ameen.A	311817103018	/	/	/	/	/
15	Mohammed Ismaail.S	311817103019	/	/	/	/	/
16	Surender .M	311817103025	/	/	/	/	/
17	Syed Mohammed Usaid Mohiuddin	311817103026	/	/	/	/	/
18	Naina Mohamed Basidh	311817103701	/	/	/	a	/

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DEPARTMENT OF CIVIL ENGINEERING
Assessment

1. Which command is used to place a free- standing element, such as furniture?
 - a) Component
 - b) Repeating Detail
 - c) Model-In-Place
 - d) Detail Components
2. Which statement is FALSE about stair sketches?
 - a) Boundary lines must be open lines
 - b) Risers must be parallel
 - c) The user is provided with the desired riser count
 - d) All riser lines must touch the boundary lines
3. Detail Level Can Be Adjusted In 3d Views Using The?
 - a) Detail button at the bottom of the window.
 - b) Detail button at the top of the window.
 - c) Both
 - d) None
4. In which view type can place a level?
 - a) Floor Plan
 - b) 3D
 - c) Elevation
 - d) Ceiling Plan
5. What does the small triangle next to the roof boundary line indicate in the roof sketch?
 - a) Overhang
 - b) Height
 - c) Slope
 - d) Orientation
6. Walls are system families. Which is not a wall family?
 - a) Basic
 - b) Complicated
 - c) Curtain
 - d) Staked
7. Which is not a dimension style?
 - a) Linear
 - b) Angular
 - c) Temporary
 - d) Radial
8. How Do You Make Custom Holes And Edges On Walls?
 - a) Floor Plan
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9. What Is A First Step In Creating A Roof?
 - a) Created with 2D closed-loop sketch of the roof perimeter
 - b) Can use base and top level to define roof geometry
 - c) Slopes are defined when you apply a slope parameter to sketch lines
 - d) Use polylines to define the boundary.

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10. Where Can You Set Keyboard Shortcuts?
 - a) View>User Interface>Keyboard Shortcuts
 - b) View tab>Windows panel>User Interface>Keyboard Shortcuts
 - c) Options>Keyboard Shortcuts
 - d) Home>Options>Keyboard Shortcuts
11. How Do You Quickly Add Trim To Walls In 3d Views?
 - a) Use Array tool
 - b) Use Copy tool
 - c) Use the wall sweep tool.
 - d) All of the above
12. Which of the following element(s) have the ability to edit in 3d mode?
 - a) Roofs
 - b) Floors
 - c) Ceilings
 - d) All of the above
13. Which tab contains the window tool?
 - a) Architecture
 - b) Modify
 - c) View
 - d) Insert
14. Which of the following do you not need to specify when you create custom stair?
 - a) Ref plane
 - b) Run
 - c) Boundary
 - d) Riser
15. families are the building components that would usually be purchased, delivered, and installed in and around a building, such as doors, windows and furniture.
 - a) In-place
 - b) Basic
 - c) System
 - d) Loadable
16. Select the view in which you can create rooms.
 - a) Section
 - b) 3D view
 - c) Ceiling plan
 - d) Elevation
17. How Do You Quickly Focus The Camera On A Specific Object?
 - a) Right click on the object and zoom to fit.
 - b) Double click on the object and zoom to fit.
 - c) Both
 - d) None
18. Where Do You Change A Wall Sweep's Profile?
 - a) Type Properties dialog.
 - b) Type Modify dialog.
 - c) Type Geometry dialog.
 - d) All the above

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19. How Can You Insert 2d Cad Files In Your 3d Model?
- Select Whole plan
 - Go to the appropriate floor, click insert CAD files.
 - Both
 - None
20. Which key rotates a component counter clockwise by 90 degrees?
- ALT
 - SPACEBAR
 - ENTER
 - CTRL
21. What is the short key of Mirror - Pick axis?
- M
 - DM
 - MM
 - MI
22. What is the short key of Mirror - Draw axis?
- M
 - MD
 - MM
 - DM
23. What is the short key of Offset?
- O
 - OF
 - OS
 - OT
24. What is the short key of Rotate?
- R
 - RO
 - ROT
 - RT
25. What is the short key of Array?
- A
 - AR
 - AY
 - ARR

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DEPARTMENT OF CIVIL ENGINEERING
EVALUATION SHEET

1. Which command is used to place a free-standing element, such as furniture?
 - a) Component
 - b) Repeating Detail
 - c) Model-In-Place ✓
 - d) Detail Components
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11. How Do You Quickly Add Trim To Walls In 3d Views?

- a) Use Array tool
- b) Use Copy tool ✓
- c) Use the wall sweep tool.
- d) All of the above

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- b) Floors ✓
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13. Which tab contains the window tool?

- a) Architecture
- b) Modify
- c) View ✓
- d) Insert

14. Which of the following do you not need to specify when you create custom stair?

- a) Ref plane
- b) Run
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- a) In-place
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21. What is the short key of Mirror - Pick axis?

- a) M
- b) DM ✓
- c) MM
- d) MI

22. What is the short key of Mirror - Draw axis?

- a) M
- b) MD
- c) MM ✓
- d) DM

23. What is the short key of Offset?

- a) O
- b) OF ✓
- c) OS
- d) OT

24. What is the short key of Rotate?

- a) R
- b) RO ✓
- c) ROT
- d) RT

25. What is the short key of Array?

- a) A
- b) AR ✓
- c) AY
- d) ARR

18
—
25


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DEPARTMENT OF CIVIL ENGINEERING

Sl.No	Name of the Student	Register No.	Status of Qualifying
1	AMSHA AFRIDEEN .A	311817103001	Qualified
2	ANTONY DARSHAN A	311817103002	Qualified
3	ARUN.M	311817103003	Qualified
4	FAREED AHAMED .S	311817103005	Qualified
5	IJAS AHAMED P.M.	311817103006	Qualified
6	ISMATH ALI. M	311817103007	Qualified
7	JAFFER ABBAS M.A.	311817103008	Qualified
8	KISHORE KUMAR.R	311817103009	Qualified
9	KISHORE KUMAR.S	311817103010	Qualified
10	MOHAMED SAMEEM MOHIDEEN	311817103014	Qualified
11	MOHAMED SHAHEEM S.B	311817103015	Qualified
12	MOHAMED TAJAMMUL	311817103016	Qualified
13	MOHAMED UMAR .M	311817103017	Qualified
14	MOHAMMED AMEEN.A	311817103018	Qualified
15	MOHAMMED ISMAAIL.S	311817103019	Qualified
16	SURENDER .M	311817103025	Qualified
17	SYED MOHAMMED USAID MOHIUDDIN	311817103026	Qualified
18	NAINA MOHAMED BASIDH	311817103701	Qualified

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Chennai-600103

Certificate of Course Completion

This is to certify that AMSHA AFRIDEEN .A

Roll No. 311817103001 has successfully completed 3D

..... INFRASTRUCTURAL MODELLING conducted by Department of Civil

Engineering from 08/02/2021 to 12/02/2021.

M.B. 

HOD/ Civil

13/02/2021

Date



Principal



MOHAMED SATHAK A J COLLEGE OF ENGINEERING

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Chennai-603 103.

Certificate of Course Completion

This is to certify that **ANTONY DARSHAN A**

Roll No. **311817103002** has successfully completed **3D**

..... **INFRASTRUCTURAL MODELLING** conducted by Department of Civil

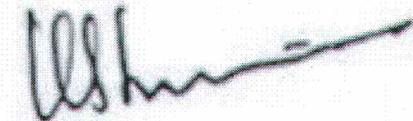
Engineering from 08/02/2021 to 12/02/2021.

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HOD/ Civil

13/02/2021

Date



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Certificate of Course Completion

This is to certify that **ARUN .M**

Roll No..... **311817103003** has successfully completed **3D**

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Usharaj

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This is to certify that **FAREED AHAMED .S**

Roll No..... **311817103005** has successfully completed **3D**

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This is to certify that **IJAS AHAMED P.M.**

Roll No. **311817103006** has successfully completed **3D**

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Certificate of Course Completion

This is to certify that ISMATH ALI . M

Roll No..... 311817103007 has successfully completed 3D

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This is to certify that **JAFFER ABBAS M.A.**

Roll No..... **311817103008** has successfully completed **3D**

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This is to certify that KISHORE KUMAR .R

Roll No..... 311817103009 has successfully completed 3D

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This is to certify that **KISHORE KUMAR .S**

Roll No..... **311817103010** has successfully completed **3D**

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This is to certify that **MOHAMED SHAHEEM S.B**

Roll No..... **311817103015** has successfully completed **3D**

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This is to certify that **MOHAMED TAJAMMUL**

Roll No..... **311817103016** has successfully completed **3D**

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This is to certify that MOHAMED UMAR .M
Roll No. 311817103017 has successfully completed 3D
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This is to certify that **MOHAMMED AMEEN.A**

Roll No. **311817103018** has successfully completed **3D**

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This is to certify that **MOHAMMED ISMAAIL.S**

Roll No..... **311817103019** has successfully completed **3D**

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This is to certify that SURENDER .M

Roll No..... 311817103025 has successfully completed 3D

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This is to certify that **SYED MOHAMMED USAID MOHIUDDIN**

Roll No..... **311817103026** has successfully completed **3D**

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Certificate of Course Completion

This is to certify that **NAINA MOHAMED BASIDH**

Roll No..... **311817103701** has successfully completed **3D**

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DEPARTMENT OF MECHANICAL ENGINEERING

From

Mr.G.Ramesh,
Associate Professor,
Department of Mechanical Engineering,
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

To

The Principal,
Mohamed Sathak A.J.College of Engineering,
Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of Mechanical department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

Year/Sem	Title	Dates
IV/VIII-Mechanical	Introduction to Multibody Dynamics	05.04.2021 to 16.04.2021

Thanking you

Place : Chennai

Date: 20.03.2021

Your's faithfully

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DEPARTMENT OF MECHANICAL ENGINEERING

From ,

Mr.G.Ramesh,
Associate Professor,
Department of Mechanical Engineering,
Mohamed SathakA.J.College of Engineering,
Chennai – 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for VAC course curriculum design for the academic year 2020-2021-Reg

Ref: Letter of Requisition for the appointment of faculty for ADD on course curriculum design for the academic year 2020-2021 Dated:05.04.2021 to 16.04.2021.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD on course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking in to consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

Title	Name of the Faculty
Introduction to Multibody Dynamics	Mr.J.Jabin AP/MECH

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DEPARTMENT OF MECHANICAL ENGINEERING

Ref:MSAJCE/VAC02MECH/2020-2021

Date: 22.03.2021

CIRCULAR

Our department is organizing a "ADD ON" on Introduction to Multibody Dynamics during 05.04.2021 to 16.04.2021. The following III Year Mechanical Students register with Mr.J.Jabin AP/MECH on or before 25.03.2021.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Venue: GF 103 ALTAIR LAB

HoD

Head of the Department
Department of Mechanical Engineering
Mohamed Sathak A.J. College of Engineering
Egattur, Chennai - 603 103.

Copy to:

Dept. of Mechanical

IV Year Mechanical

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COURSE MODULE

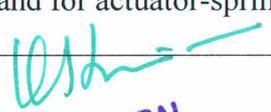
Course Objectives:

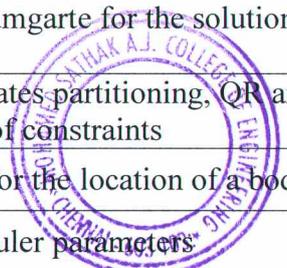
The Students will acquire to

- 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.

MODULE

1	The method of constraints for planar kinematic analysis
2	Revolute, prismatic, gear and cam pairs are considered together with other 2 DOF
3	Introduction to Basic principles for analysis of multi-body systems
4	The automatic assembly of the systems of equations for position
5	The principle of virtual work and Lagrange's equations
6	Introduction to Dynamics of Planar Systems
7	Systematic computation and assembly of mass matrix
8	Computation of planar generalized forces for external forces and for actuator-spring-damper element
9	Simple applications of inverse and forward dynamic analysis
10	Numerical integration of first-order initial value problems
11	The method of Baumgarte for the solution of mixed differential-algebraic equations of motion
12	The use of coordinates partitioning, QR and SVD decomposition for the orthogonalization of constraints
13	Reference frames for the location of a body in space
14	Euler angles and Euler parameters
15	Kinematic analysis of spatial systems
16	Equations of motion of constrained spatial systems
17	Exercise


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DEPARTMENT OF MECHANICAL ENGINEERING

Course Outcome

Upon completion of the course,

Write programs to solve constrained differential equations for systems analyzing multi-body

Simulate and analyze all types of static behaviours of the multi-body systems including the kineto- static analysis.

Simulate and analyze all types of dynamic behaviours of the multi-body systems including the kineto-static analysis.

To derive equations of motion for interconnected bodies in multi-body systems with three-dimensional motion.

To Implement and analyze methods of formulating equations of motion for Inter-connected bodies.




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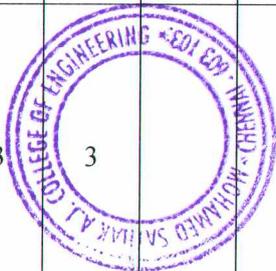
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CO PO Mapping

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Write programs to solve constrained differential equations for systems analyzing multi-body.	3	3			3			2		2	3	2
Simulate and analyze all types of static behaviours of the multi-body systems including the kineto- static analysis..	2	2	2									
Simulate and analyze all types of dynamic behaviours of the multi-body systems including the kineto-static analysis.	3	2	3									
To derive equations of motion for interconnected bodies in multi-body systems with three-dimensional motion.	3	3	3							2	3	3
To Implement and analyze methods of formulating equations of motion for Inter-connected bodies.	3	3										3

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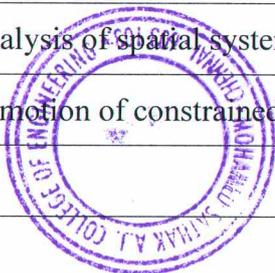




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DEPARTMENT OF MECHANICAL ENGINEERING

Sl. No.	Topic	T / R*	Periods Required	Mode of Teaching
		Book		
1	The method of constraints for planar kinematic analysis	T	1	PPT & Video
2	Revolute, prismatic, gear and cam pairs are considered together with other 2 DOF	T	2	PPT & Video
3	Introduction to Basic principles for analysis of multi-body systems	T	1	PPT & Video
4	The automatic assembly of the systems of equations for position	T	2	PPT & Video
5	The principle of virtual work and Lagrange's equations	T	1	PPT & Video
6	Introduction to Dynamics of Planar Systems	T	1	PPT & Video
7	Systematic computation and assembly of mass matrix	T	2	PPT & Video
8	Computation of planar generalized forces for external forces and for actuator-spring-damper element	T	1	PPT & Video
9	Simple applications of inverse and forward dynamic analysis	T	2	PPT & Video
10	Numerical integration of first-order initial value problems	T	1	PPT & Video
11	The method of Baumgarte for the solution of mixed differential-algebraic equations of motion	T	2	PPT & Video
12	The use of coordinates partitioning, QR and SVD decomposition for the orthogonalization of constraints	T	2	PPT & Video
13	Reference frames for the location of a body in space	T	1	PPT & Video
14	Euler angles and Euler parameters	T	2	PPT & Video
15	Kinematic analysis of spatial systems	T	2	PPT & Video
16	Equations of motion of constrained spatial systems	T	2	PPT & Video
17	Exercise	T	5	Software





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Quiz / Mini Projects / Model Developed 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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DEPARTMENT OF MECHANICAL ENGINEERING

Sl.No	Name of the Student	Register No.	Status of Qualifying
1	ABDUL BASIT	311817114002	Pass
2	ABDUL MUKSHITH. A	311817114003	Pass
3	ABDUL RAHIM A.K	311817114004	Pass
4	ABDUL WAHAB. A	311817114006	Pass
5	AHAMED MUKSHITH. M	311817114009	Pass
6	AKASH. R	311817114011	Pass
7	ARUN PRASATH. R	311817114013	Pass
8	ATHEEQ MOHAMMED OWAIZ	311817114014	Pass
9	AZBAQ MEERAN. F	311817114015	Pass
10	CHANDRASEKAR. G	311817114016	Pass
11	GANDHI SUBASH. K	311817114018	Pass
12	IMRAN .L	311817114022	Pass
13	JAMALUL ASHRAQ. I	311817114023	Pass
14	KARTHICK KUMAR. M	311817114025	Pass
15	KIREESH KARAN. R	311817114026	Pass
16	MANIKANDA VENKATARAMAN. G	311817114027	Pass
17	MANOJ KUMAR. K	311817114028	Pass
18	MOHAMED ABUBAKKER SIDDIQ. S	311817114029	Pass
19	MD ALI HASAN SEYED ABUTHAHIR	311817114030	Pass
20	M. MOHAMED ASKAR	311817114032	Pass
21	J. MOHAMED FAHIM	311817114033	Pass

22	A. MOHAMED IRFAN	311817114034	Pass
23	J. MOHAMED IRFAN	311817114035	Pass
24	S. MOHAMED IRFAN ALI	311817114036	Pass
25	M. MOHAMED JAVIDH	311817114037	Pass
26	MOHAMED MUSRAF B A	311817114040	Pass
27	MOHAMED REEFDEEN	311817114041	Pass
28	MOHAMED SATHIK. A	311817114042	Pass
29	MOHAMED SUHAIL. M	311817114043	Pass
30	MOHAMED YUSUF. J	311817114044	Pass
31	MOHAMMED FAYAAS. H	311817114045	Pass
32	MOHAMMED ZAIN. J	311817114047	Pass
33	MUHAMED SUFYAN. J	311817114048	Pass
34	PANDIDURAI. R	311817114050	Pass
35	SABIK MOHAMMED. S	311817114051	Pass
36	SAJIDULLAH. K	311817114052	Pass
37	SHAKESPEAR. N	311817114054	Pass
38	SYED.N.ZAHEER ABBAS	311817114056	Pass
39	USAMA. A	311817114057	Pass
40	L GOKUL	311817114301	Pass
41	IBRAHIM A	311817114302	Pass
42	JAVAHAR SHALIM	311817114303	Pass
43	MOHAMED FARDHAN	311817114304	Pass
44	MOHAMMED NABEEL	311817114305	Pass



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B.E./B.Tech. DEGREE EXAMINATIONS, APR/MAY.-2021
Regulation – 2017
B.E Mechanical Engineering

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

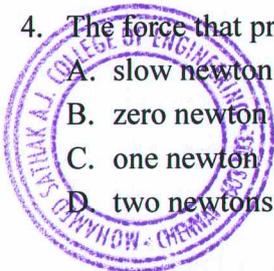
4. The force that produces an acceleration of 1 ms^{-2} in a body of the mass of 1 kg is called
 - A. slow newton
 - B. zero newton
 - C. one newton
 - D. two newtons

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



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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



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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.

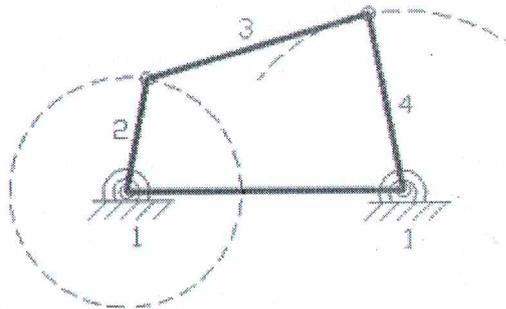
- A. line or point contact
- B. surface contact
- C. permit relative motion
- D. none of the mentioned

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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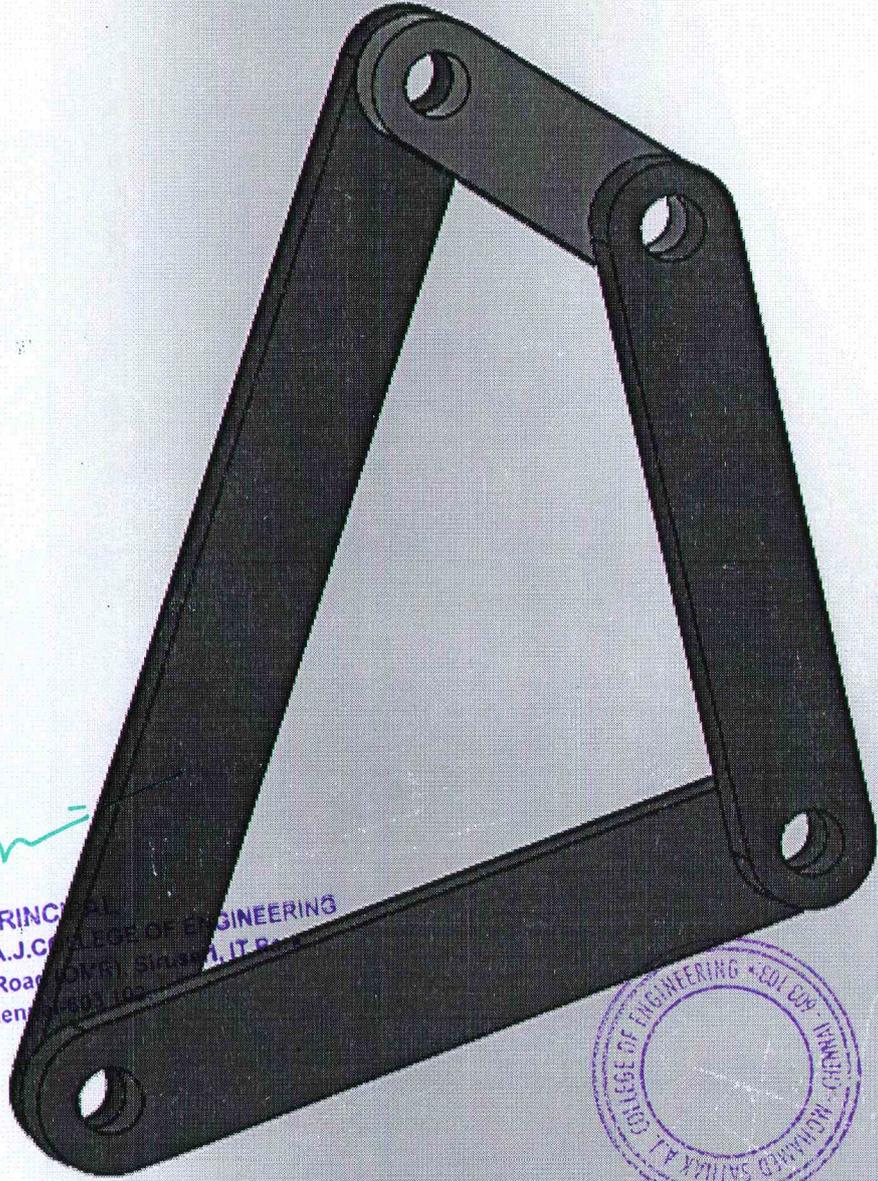
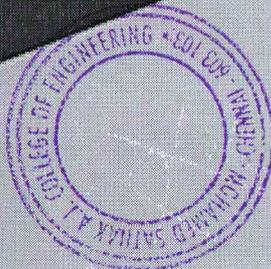


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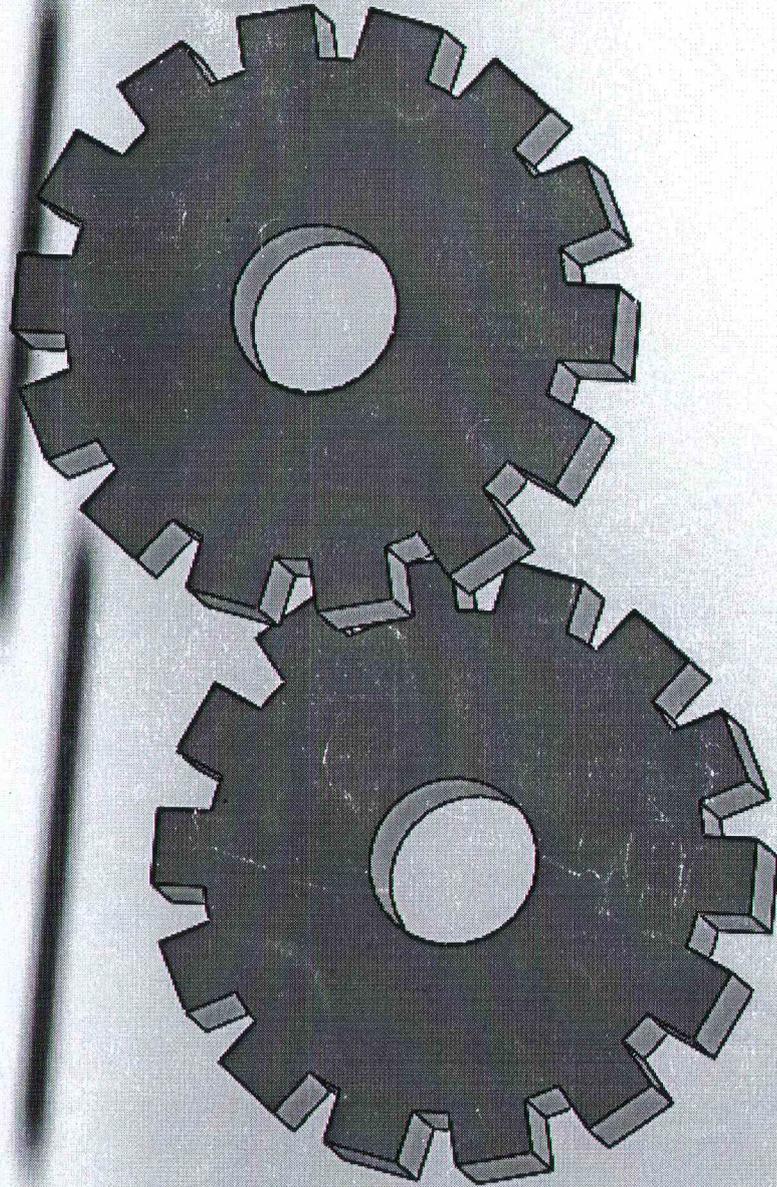


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From,

Dr. A. Bala Krishnan

Associate Professor

Department of S&H

Mohamed Sathak A.J.College of Engineering,

Chennai – 603103.

To

The Principal,

Mohamed Sathak A.J.College of Engineering,

Chennai – 603103.

Respected Madam/Sir,

Sub: Permission for conducting ADD on course – reg.

With reference to the above cited subject, we have proposed to conduct ADD on courses for the students of I Year from S&H department. The selected courses are useful to the students for learning the emerging technical fields.

Kindly provide the permission for the same.

Year/Sem	Title	Dates
I Year/II Sem	PC Hardware Networking and Troubleshooting	08/03/2021 to 12/03/2021.

Thanking you

Place: Chennai

Date: 20/02/2021


Your's faithfully



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From,

Dr. P. Subramanian

Associate Professor

Department of Computer Science and Engineering

Mohamed Sathak A.J.College of Engineering,

Chennai- 603103.

Respected Madam/Sir,

Sub: Assigning of faculty for ADD ON course curriculum design for the academic year 2020-2021reg.

Ref: Letter of Requisition for the appointment of faculty for ADD ON course curriculum design for the academic year 2020-2021 Dated: 08/03/2021 to 12/03/2021.

The undersigned appreciates the department for proposing to conduct such kind of programme. As per your recommendation and referring to the above subject. I am pleased to nominate the following faculty members for ADD ON course curriculum design.

The above listed faculty is hereby instructed to design the curriculum taking into consideration the thrust areas of the respective field and ensure it should enhance the employability opportunities for the students.

Title	Name of the Faculty
PC Hardware Networking & Troubleshooting	Mrs. V. Rajathi AP/CSE


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DEPARTMENT OF SCIENCE & HUMANITIES

Ref:01/MSAJCE/S&H/EVEN/2020-2021

Date: 20/02/2021

CIRCULAR

It is hereby informed to all the 1st Year students that the value-added course “**PC Hardware Networking & Troubleshooting**” during 08/03/2021 to 12/03/2021. All are advised to attend the training course without fail.

The session schedule is as follows

Timing: 9.00 AM to 3.30 PM

Resource Person: Mrs. V. Rajathi

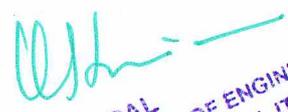
Mode : Online Mode – GCR				
Faculties	Mrs. V. Rajathi	Mrs. M. Ramya	Mrs. S. Aruna	Mr. M. Eswara Narayanan


HoD

COPY TO: S&H

Dept. of S&H

I Year


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COURSE MODULE

Course Objectives:

- 1.To characterize a problem.
- 2.To develop a programming skill to solve the problem.
- 3.To acquire basic knowledge in computer hardware and peripherals.
- 4.To acquire knowledge about PC assembling.
5. To generate basic knowledge of Internet and Intranet.

MODULE-1: Basic computer

Organization of computer – software and hardware – Input / Output devices

MODULE-2: Basic networking concepts

Network technologies – LAN, WAN, MAN, PAN, CAN – Networking model – OSI model – TCP/ IP model – Networking adapters.

MODULE-3: Inside the PC

Identification of PC – Study of different blocks – Assembling and disassembling

MODULE-4: Networking devices

Routers – switches – modems – Hubs etc.. – Wired and Wireless technology

MODULE -5: Network basic and configuration

Setting IP Addresses – sharing files and folders – network troubleshooting

Course Outcomes:

The students will be able to

- CO1. Student should able to know Basics of computer assembling.
- CO2. Students will have in-depth knowledge of networking models.
- CO3. The student will able to know the basic of troubleshooting.
- CO4. Students will have brief knowledge of networking devices.
- CO5. The student will able to know the basic of networks and configuration.


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CO PO Mapping

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Hardware and software of system	3	2	3	3				2		3	2	3
Have in-depth knowledge of network topologies.	3	2	3	2	2							
Basic of computer troubleshooting	3	2	3	2	3							
knowledge about computer networking.	3	3	3		2			3		2	3	3
Basic of networks and configuration	3	2	3		3							3


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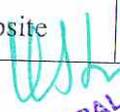


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S.No	Title	Topics to be Covered	T/R Books	Periods Required	Remarks
1	Basics	Organization	T1/Website	1	PPT
		Hardware and Software	T1/Website	2	BB
2	Input / Output devices	Keyboard, Joystick, mouse	T1/Website	1	PPT
		Printer, scanner, monitor	T1/Website	2	BB
3	Network Technologies	LAN, WAN, MAN	T1/Website	2	PPT
		PAN, CAN	T1/Website	2	BB
4	Networking model	OSI model	T1/Website	2	PPT
		TCP/ IP Model	T1/Website	2	PPT

5	Inside PC	Identification of PC	T1/Website	2	PPT
		Different blocks	T1/Website	2	BB
6	Networking devices	Router, Modem,	T1/Website	2	PPT
		Switches, hubs	T1/Website	2	BB
7	Wired and wireless technologies	Network, cable	T1/Website	1	PPT
		Satellite communication, wifi	T1/Website	2	BB


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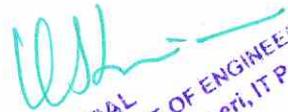
8	Network	Network basic	T1/Website	1	PPT
		Configuration	T1/Website	2	PPT
9	Basic	IP Address setting	T1/Website	1	PPT
		Sharing files and folders	T1/Website	2	PPT

Text / Reference Books

1	COMPUTER HARDWARE: Installation, Interfacing, Troubleshooting and Maintenance BY K.L James (Author)
---	--

Website / URL References

1	https://www.pluralsight.com/courses/computer-fundamentals-hardware-network-troubleshooting
2	https://www.pluralsight.com/blog/tutorials/troubleshooting-hardware


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Assessment on PC Hardware Networking and Troubleshooting

* Required

1. E-mail *

2. Name of the student *

3. Register number *

4. 1. What is computer organization? *

Mark only one oval.

- structure and behaviour of a computer system as observed by the user structure of
- a computer system as observed by the developer structure and behaviour of a
- computer system as observed by the developer
- All of the mentioned

5. 2. Which of the following is a type of computer architecture? *

Mark only one oval.

- Microarchitecture
- Harvard Architecture
- Von-Neumann Architecture
- All the above

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6. 3. Which of the following is the subcategories of computer architecture? *

Mark only one oval.

- Microarchitecture
- Instruction set architecture
- Systems design
- All the above

7. 4. A device that allows users to feed data into a computer for analysis and * storage and to give commands to the computer is called *Mark only one oval.*

- Input
- Output
- Memory
- Both A and B

8. 5. Which of the following is not a pointing device? *

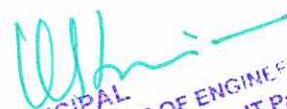
Mark only one oval.

- Mouse
- Joystick
- Light pen
- Digitizer

9. 6. The number of function keys in a keyboard is *

Mark only one oval.

- 14
- 10
- 13
- 15


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10. 7. Ctrl, Shift, and Alt are known as _____ keys. *

Mark only one oval.

- function modifier
- alphanumeric
- adjustment
-

11. 8. LAN works on which of the following layers? *

Mark only one oval.

- physical datalink
- datalink and network
- physical and datalink
-

12. 9. Ether LAN uses *

Mark only one oval.

- Polar encoding Manchester
- encoding differential Manchester
- encoding
- NRZ

13. 10. Which of the following is Layer-7? *

Mark only one oval.

- Presentation Layer
- Session Layer
- Application Layer Transport
- Layer

14. 11. HTTP is an example of? *


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Mark only one oval.

- Session Layer
- Presentation Layer
- Data Link Layer
- Application Layer

15. 12. The physical layer concerns with *

Mark only one oval.

- bit-by-bit delivery process to
- process delivery application to
- application delivery
- None of the above

16. 13. With, switches can divide into multiple Broadcast Domians. *

Mark only one oval.

- STP
- Other swicthes
- VLANs
- Hubs

17. 14. Which ones are Hub types? *

Mark only one oval.

- Standard Hub
- Active Hub
- Routed Hub
- Passive Hub

18. 15. What is the purpose of an IP Address? *


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Mark only one oval.

- A unique identifier for a computer
- A unique location identifier
- A network location identifier
- None

19. 16. There are ----- bits in an octet *

Mark only one oval.

- 8
- 5
- 4
- 9

20. 17. What is the name of the type of notation an IP address is usually written? *

Mark only one oval.

- Dot
- Dotted quad
- Quad
- None

21. 18. Given the network mask id of 255.255.240.0, how many hosts are there? *

Mark only one oval.

- 256
- 100
- 4094
- 192.168.250.252

22. 19. The full form of IP in IP Address is _____. *


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Mark only one oval.

- Internet Provider address
- Internet Protocol address
- Internet Processing address
- None

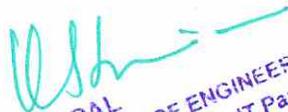
23. 20. DHCP stands for _____ *

Mark only one oval.

- Dynamic Host Control Protocol
- Dynamic Host Configuration Protocol
- Digital Host Configuration Protocol
- Digital Host Control Protocol

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131	Mohamed Salman A	311820104023	Qualified
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134	Mohammed Rizwan K R	311820104026	Qualified
135	Mohammed Siddique C	311820104027	Qualified
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139	Rashid C K	311820104031	Qualified
140	Riswan M	311820104032	Qualified
141	Sakthivel K H	311820104033	Qualified
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144	Sulthan Nifan S	311820104036	Qualified
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146	Vinith D	311820104038	Qualified
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148	Yogaraj S	311820104040	Qualified
149	Yuvan R K	311820104041	Qualified

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