Certification Course

On

Introduction to ETAP

Coordinator: Sri N.Siddhik

Date(s) of Event : 22/03/2021- 15/04/2021

Organizing department:

Electrical and Electronics Engineering

K.S.R.M.COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)
Kadapa, Andhra Pradesh, India–516 005
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuram

Cr./KSRMCE/(Department of EEE)/2020-2021 Date: 10/03/2021

To
The Principal,
KSRM College of Engineering,
Kadapa.

Respected Sir

Sub: KSRMCE-(Department of EEE) permission to conduct certification course on "Introduction to ETAP"Request-Regd.

It is brought to your kind notice that, with reference to the cited, the EEE department is planning to conduct Certification Course on "Introduction to ETAP" for B.Tech VI Sem from 22/03/2021- 15/04/2021. In this regard I kindly request you to grant permission to conduct the certification course. This is submitted for your kind perusal.

Thanking you sir,

Yours Faithfully

Sri N.Siddhik

Asst.Prof,Dept.EEE

KSRMCE,Kadapa.

forwarded to principal sir
10/3/21

HEAD
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003

To the Director for Information

To All Deans/HoD's/IQAC

Permitted

PRINCIPAL
K.S.R.M. COLLEGE OF ENGINEERING
KADAPA - 516 003. (A.P.)

K.S.R.M.COLLEGE OF ENGINEERING
(UGC-AUTONOMOUS)
Kadapa, Andhra Pradesh, India–516 005
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuram

Cr./KSRMCE/(Department of EEE)/2020-2021

Date: 12/03/2021

Circular

All the B.Tech VI Sem EEE students are here by informed that department of EEE is going to conduct certificate course on"Introduction to ETAP" interested students may register their names on or before 20, March ,2021 before 5 Pm.

For any queries contact faculty coordinator :

Sri N.Siddhik,Asst.Prof,Dept.EEE, KSRMCE, Kadapa.

HEAD
HOD
Department of Electrical & Electronics Engineering
K.S.R.M. College of Engineering
Cuddapah - 516 003

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Department of Electrical and Electronics Engineering

Certification Course on "Introduction to ETAP"

List of Participants

S.No	Roll Number	Name of the Student	E-Mail Id
1	189Y1A0205	**CHALLA MANASA (W)**	189Y1A0205@ksrmce.ac.in
2	189Y1A0206	CHALLA SHIVA TEJA REDDY (W)	189Y1A0206@ksrmce.ac.in
3	189Y1A0207	**CHEVULA SAMPATH KUMAR**	189Y1A0207@ksrmce.ac.in
4	189Y1A0208	DANDU BALA SAI	189Y1A0208@ksrmce.ac.in
5	189Y1A0209	**GANGAVARAMGANESHKUMARREDDY**	189Y1A0209@ksrmce.ac.in
6	189Y1A0210	GUBILI NAVEEN KUMAR	189Y1A0210@ksrmce.ac.in
7	189Y1A0211	GURAIAHGARI PAVAN KALYAN	189Y1A0211@ksrmce.ac.in
8	189Y1A0212	HASANAPURAMCHARANPRAKASH	189Y1A0212@ksrmce.ac.in
9	189Y1A0213	ILLURI MARINA (w)	189Y1A0213@ksrmce.ac.in
10	189Y1A0218	KANIKE SRINIVASULU	189Y1A0218@ksrmce.ac.in
11	189Y1A0219	KARNATI SAI SIVANANDA REDDY	189Y1A0219@ksrmce.ac.in
12	189Y1A0220	**KOKKANTI ROHITH**	189Y1A0220@ksrmce.ac.in
13	189Y1A0221	KOMMA PEDDI REDDY	189Y1A0221@ksrmce.ac.in
14	189Y1A0222	KONANAVANI (W)	189Y1A0222@ksrmce.ac.in
15	189Y1A0223	**KONDA SREENIVASA RAO**	189Y1A0223@ksrmce.ac.in
16	189Y1A0224	KONDREDDY MANJU BHARGAVI (W)	189Y1A0224@ksrmce.ac.in
17	189Y1A0225	KORAPALA VEERA CHANDRA LIKHITA (W)	189Y1A0225@ksrmce.ac.in
18	189Y1A0226	**KUKKALAREDDY HEMANTH REDDY**	189Y1A0226@ksrmce.ac.in
19	189Y1A0227	**KUKKALAREDDY SUMANTH REDDY**	189Y1A0227@ksrmce.ac.in
20	189Y1A0228	**MACHA HARSHITH**	189Y1A0228@ksrmce.ac.in
21	189Y1A0229	**MANJULA AKANKSHA (W)**	189Y1A0229@ksrmce.ac.in
22	189Y1A0230	MANNU KUMAR	189Y1A0230@ksrmce.ac.in
23	189Y1A0231	MIMME SREENATH	189Y1A0231@ksrmce.ac.in
24	189Y1A0232	MUGOLLA GANGAPRASANTH	189Y1A0232@ksrmce.ac.in
25	189Y1A0233	MUPPURI GIRIKUMAR	189Y1A0233@ksrmce.ac.in
26	189Y1A0234	NUKALA ARUNA (W)	189Y1A0234@ksrmce.ac.in
27	189Y1A0235	PAGADALA PRIYANKA (W)	189Y1A0235@ksrmce.ac.in
28	189Y1A0236	PERAM PAVANI (W)	189Y1A0236@ksrmce.ac.in
29	189Y1A0237	PULIMADYALA MOHAMMED SADAK	189Y1A0237@ksrmce.ac.in
30	189Y1A0238	**PUTLURU BHARATH KUMAR REDDY**	189Y1A0238@ksrmce.ac.in

31	189Y1A0239	RAVULA UPENDRA	189Y1A0239@ksrmce.ac.in
32	189Y1A0241	**SAMBU KEERTHI (W)**	189Y1A0241@ksrmce.ac.in
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35	189Y1A0244	SHAIK KHALEEFA	189Y1A0244@ksrmce.ac.in
36	189Y1A0245	SHAIK MULLA KHAJA MOINUDDIN	189Y1A0245@ksrmce.ac.in
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43	189Y1A0253	VEMA YOGESWARA	189Y1A0253@ksrmce.ac.in
44	199Y5A0201	BELLAGANTI DIVYASWINI (W)	199Y5A0201@ksrmce.ac.in
45	199Y5A0202	CHINTHAKUNTA GAYATHRI (W)	199Y5A0202@ksrmce.ac.in

Coordinator

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Cuddapah - 516 003

HOD

Syllabus

Introduction to ETAP

Sl. No.	Topic	Hours
		Theory
Module 1	Introduction to ETAP, ETAP Toolbars ,Mode Toolbar ,Analysis Toolbar	08
Module 2	Protective device coordination, Discrimination or selectivity,Harmonic or power quality analysis	08
Module 3	Reliability , Optimal power flow, Power system stabilizer tuning	08
Module 4	Case Study-Load flow or power flow study and Short circuit or fault analysis	08

Text Books:

1. *Electrical Network's Modeling & Simulation Tools: The State of the Art".*
2. ^ *Hase, Yoshihide (December 2019). Power system dynamics with computer based modeling and analysis. p. 1112. ISBN 978-1-119-48745-6.*
3. ^ *"Electrical Transient Analyzer Program (ETAP)". United States Department of Veterans Affairs. United States: United States Department of Veterans Affairs.*
4. ^ *"Top 5 Online Electrical Power System Analysis & Operation Software ETAP - Operation Technology, Inc". The Silicon Review. Retrieved 2019-09-28.*

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Department of Electrical and Electronics Engineering

Certification Course on "Introduction to ETAP"

Schedule

Timing: 4:00pm – 6:00pm

S.No	Date	Resource Person	Topic Covered
1	22/03/2021	Dr. K.Amaresh	Introduction to ETAP, ETAP Toolbars
2	23/03/2021	Dr. K.Amaresh	Mode Toolbar
3	24/03/2021	Dr. K.Amaresh	Analysis Toolbar
4	25/03/2021	Dr. K.Amaresh	Protective device coordination
5	26/03/2021	Dr. K.Amaresh	Discrimination or selectivity
6	27/03/2021	Dr. K.Amaresh	Harmonic or power quality analysis
7	30/03/2021	Dr. K.Amaresh	Reliability
8	31/03/2021	Dr. K.Amaresh	Optimal power flow
9	01/04/2021	Dr. K.Amaresh	Power system stabilizer tuning
10	02/04/2021	Dr. K.Amaresh	Case study 1 Load flow or power flow study
11	08/04/2021	Dr. K.Amaresh	Case study 2 Load flow or power flow study
12	09/04/2021	Dr. K.Amaresh	Case study 3 Load flow or power flow study
13	10/04/2021	Dr. K.Amaresh	Case study 4 Load flow or power flow study
14	15/04/2021	Dr. K.Amaresh	Case study 5 Short circuit or fault analysis
15	16/04/2021	Dr. K.Amaresh	Case study 6 Short circuit or fault analysis

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Department of Electrical and Electronics Engineering

Activity Report

Name of the Event	: Certification Course on Introduction to ETAP
Date of the Event	: 22/03/2021- 16/04/2021
Scheduled Time	: 4.00 to 6.00PM
Target Audience	: B.Tech VI Sem Students
Student Co-ordinator	:P.Akaksha, S.Nazeer Basha, VI sem EEE
Venue of the Event	: online (https://meet.google.com/lookup/d3lplbck4s)

Activity Description:

Department of EEE organised a certification course on Internet of Things - Its Applications for VI sem EEE Students. Sir has given excellent presentation on Introduction to ETAP .Students have done various mini project models. With support of head of the department and students the course have been completed successfully.

Coordinator

HOD

HEAD
Department of Electrical & Electronics Engineering
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Cuddapah - 516 003

Principal

PRINCIPAL
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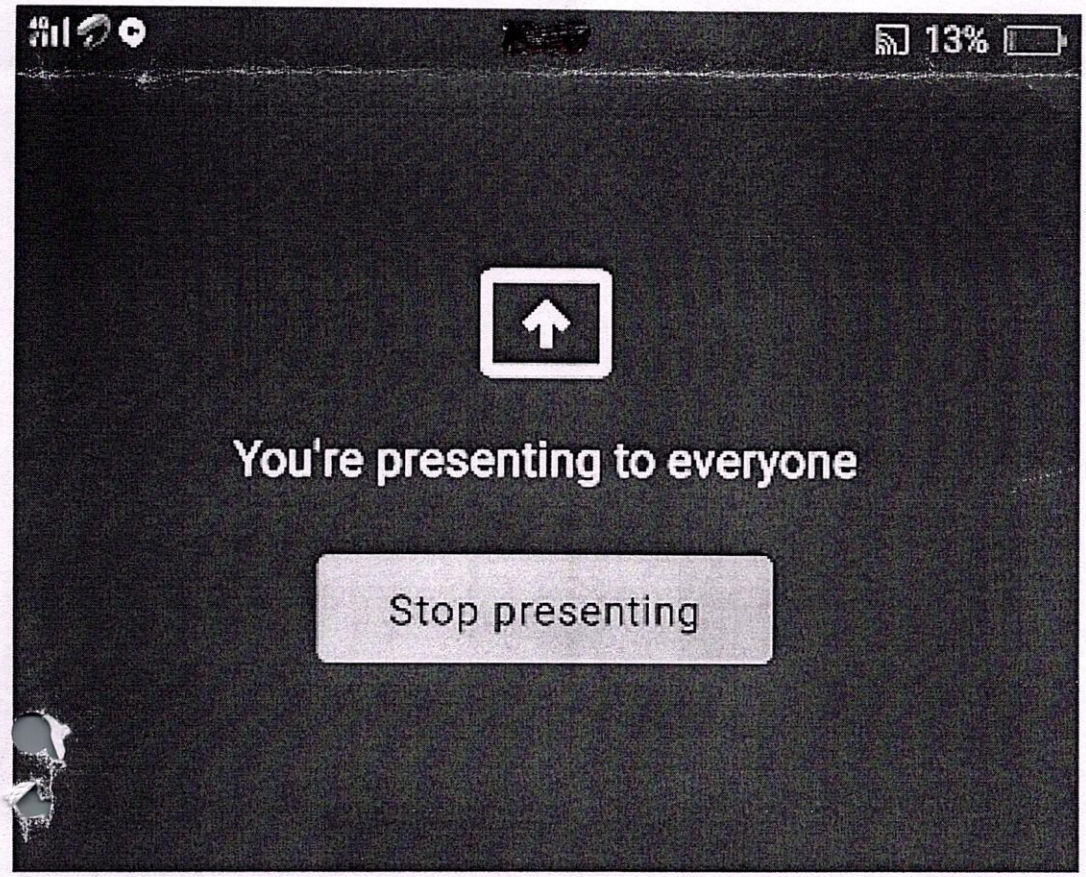
KADAPA - 516 003. (A.P.)



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I89YIAO236 P. Pavani

I89YIAO243 S AISHA

I89YIAO244 s.khaleefa

I89YIAO245 Khaja...

KSNR

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Kadapa, Andhra Pradesh, India 516 003

Certificate Course on

Introduction to ETAP

23/03/2021- 16/04/2021

Organized by

DEPARTMENT OF

ELECTRICAL AND ELECTRONICS ENGINEERING

K.S.R.M.COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa. Andhra Pradesh. India–516 005

Approved by AICTE, New Delhi & Affiliated to JNTUA. Ananthapuramu.

KSNR

Department of Electrical and Electronics Engineering

Certification Course on Introduction to ETAP

Attendance Sheet

S.No	Roll List	Name of the Student	22/3	23/3	24/3	25/3	28/3	29/3	30/3	31/3	1/4	2/4	8/4	9/4	10/4	15/4	16/4		
1	189Y1A0205	**CHALLA MANASA (W)**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓		
2	189Y1A0206	CHALLA SHIVA TEJA REDDY (W)	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓		
3	189Y1A0207	**CHEVULA SAMPATH KUMAR**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4	189Y1A0208	DANDU BALA SAI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
5	189Y1A0209	**GANGAVARAMGANESHKUMARREDDY**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A		
6	189Y1A0210	GUBILI NAVEEN KUMAR	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7	189Y1A0211	GURAIAHGARI PAVAN KALYAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8	189Y1A0212	HASANAPURAMCHARANPRAKASH	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	A	✓		
9	189Y1A0213	ILLURI MARINA (w)	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	A	✓	✓		
10	189Y1A0218	KANIKE SRINIVASULU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓		
11	189Y1A0219	KARNATI SAI SIVANANDA REDDY	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓		
12	189Y1A0220	**KOKKANTI ROHITH**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
13	189Y1A0221	KOMMA PEDDI REDDY	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
14	189Y1A0222	KONANAVANI (W)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓		

15	189Y1A0223	**KONDA SREENIVASA RAO**								A											
16	189Y1A0224	KONDREDDY MANJU BHARGAVI (W)																			
17	189Y1A0225	KORAPALA VEERA CHANDRA LIKHITA (W)			A					A											
18	189Y1A0226	**KUKKALAREDDY HEMANTH REDDY**																			
19	189Y1A0227	**KUKKALAREDDY SUMANTH REDDY**																			
20	189Y1A0228	**MACHA HARSHITH**																			
21	189Y1A0229	**MANJULA AKANKSHA (W)**					A														
22	189Y1A0230	MANNU KUMAR																			
23	189Y1A0231	MIMME SREENATH												A							
24	189Y1A0232	MUGOLLA GANGAPRASANTH	A																		
25	189Y1A0233	MUPPURI GIRIKUMAR										A									
26	189Y1A0234	NUKALA ARUNA (W)				A															
27	189Y1A0235	PAGADALA PRIYANKA (W)																			
28	189Y1A0236	PERAM PAVANI (W)																			
29	189Y1A0237	PULIMADYALA MOHAMMED SADAK					A			A											
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39	189Y1A0248	SURASURA GOWRINATH													A						

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41	189Y1A0251	VADDEMANI PAVAN KUMAR REDDY																		
42	189Y1A0252	VEMA VENKATESH	A												A					
43	189Y1A0253	VEMA YOGESWARA						A												
44	199Y5A0201	BELLAGANTI DIVYASWINI (W)																		
45	199Y5A0202	CHINTHAKUNTA GAYATHRI (W)			A															

Coordinator

HOD

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Cuddapah - 516 003

ETAP Toolbars

ETAP software is intelligently divided into different toolbars according to their functionality. User can easily access each toolbar while creating one line diagram of a power system model. Besides toolbars, there are different options available to perform analyses on the system model through study cases, configurations, edit toolbars. Each one of them is described in this tutorial.

Mode Toolbar

Mode toolbar is located on top of GUI jus tbelow the file menu. Different Analysis Modes can be selected from this Mode Toolbar according to the requiremnt of the project. In ETAP 16, a complete set of analyses has been provided through the mode toolbar as given in the list below:

Fig. 2: ETAP Mode Toolbars for various Power System Analyses

There are total 13 study modes in ETAP as depicted in Fig. 2. Each one of them is briefly described in the order from left to right:

1. **Load Flow:** Used to perform load flow (or power flow) on power system modeled in one line diagram.
2. Unbalanced Load Flow
3. ANSI Short Circuit Analysis
4. Motor Starting Analysis
5. Harmonic Analysis
6. Transient Analysis
7. Star Protection Coordination
8. Optimal Load Flow
9. Reliability Analysis
10. Optimal Capacitor Placement
11. DC Load Flow
12. DC Short Circuit Analysis
13. Battery Sizing Analysis

Analysis Toolbar

When a specific analysis Mode is selected from Mode toolbar, various analysis options are available through the Analysis Toolbar. Format for Analysis Toolbar under Load Flow Mode is show here.

Analysis Toolbar for Load Flow Model

As depicted clearly from above toolbar, once Load Flow Mode is selected; we can select any option from its Analysis Toolbar to run the load flow calculations, display results & alters, generate and export report and even collect live data from a real power system.

Electrical Transient Analyzer Program (**ETAP**) is an electrical network modeling and simulation software tool[1] used by power systems engineers to create an "electrical digital twin" and analyze electrical power system dynamics,[2] transients and protection.[3]

Dr. Farrokh Shokooh is the founder and current CEO of ETAP. While Dr. Shokooh worked at Fluor Corporation[4] he was made in charge of selecting electrical engineering software. Realizing a lack of comprehensive, efficient and intelligent power system analysis software, the vision of Electrical Transient Analyzer Program (ETAP) was born. Dr. Shokooh left Fluor Corporation to develop ETAP and founded Operation Technology, Inc (OTI) in 1986.
OTI dba ETAP is an ISO 9001-certified electrical power system design and automation software company headquartered in Irvine, California, with international offices in India, UAE, KSA, Brazil, Mexico, France, UK, Malaysia and China.

Schneider Electric took controlling stake in ETAP on November 16, 2020 to spearhead smart and green electrification. [5]

ETAP was developed for utilization on MS-DOS operating system and intended for commercial and nuclear power system analysis [6] and system operations.

Power system simulation requires an electrical digital twin consisting of a power system network model that includes system connectivity, topology, electrical device characteristics, historical system response and real-time operations data in order to make offline or online decisions. ETAP power engineering software utilizes an electrical digital twin in order for electrical engineers and operators to perform following studies in offline or online mode:

- Load flow or power flow study[7]
- Short circuit or fault analysis[8]
- Protective device coordination, discrimination or selectivity[9]
- Transient or dynamic stability.[10]
- Substation design and analysis[11]
- Harmonic or power quality analysis[12]
- Reliability[13]
- Optimal power flow
- Power system stabilizer tuning[14]
- Optimal capacitor placement[15]
- Motor starting and acceleration analysis[16]
- Voltage stability analysis[17]
- Arc flash hazard assessment[18]
- Ground loop impedance calculation[19]
- Battery modeling and simulation[20]
- DC Arc Flash Hazard Assessment[21]

Software applications[edit]

ETAP software applications include:

- Power system design for ANSI and IEC networks[22]
- Electric supply substation simulation[23]
- Monitoring and feeder analysis[24]
- Simulation of distributed photovoltaic power[25]
- Study of a DC network[26]
- Open-phase fault analysis[27] - Multiple events across the nuclear power industry have highlighted the need for greater understanding of what happens during an open phase fault. These open phase events have occurred on the high side of offsite power supply transformers and have involved loss of one or two phases.
- Diesel power plant analysis[28]
- Combined cycle power plant analysis[29]
- AC/DC hybrid system simulation[30]
- Wind turbine design and analysis[31]
- Harmonics in railway power systems[32]
- Rural distribution system analysis[33]
- Distributed generation protection[34]
- Reliability assessment of renewable energy systems[35]
- Wind and PV penetration studies[36]
- Microgrid power system design[37]
- Power system analysis of High-Rise Buildings[38]

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Certificate of Completion

This is to certify that

Mr/Ms. I. Marina

Bearing the Roll No 18941A0213

has Succesfully completed certification course on

Introduction to ETAP

From 23/03/21 ***to*** 16/04/21 ***, Organized by Department of***

Electrical & Electronics Engineering

Coordinator

Head Of Department

V. S. S. Murthy

Principal

K.S.R.M. COLLEGE OF ENGINEERING
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Kadapa,Andhra Pradesh,India–516 005

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Department of Electrical and Electronics Engineering

Certification Course on Introduction to ETAP

Feedback Form

S.No	Roll List	Name of the Student	Is the Course content meet your expectation	Is the lecture sequence well planned	Is the level of course high	Is the course exposed you to the new knowledge	Rate the Knowledge of the Speaker	Rate the value of Course in increasing your skills
1	189Y1A0205	**CHALLA MANASA (W)**	Yes	Strongly Agree	Agree	4	5	Nil
2	189Y1A0206	CHALLA SHIVA TEJA REDDY (W)	Yes	Strongly Agree	Agree	5	4	Nil
3	189Y1A0207	**CHEVULA SAMPATH KUMAR**	Yes	Strongly Agree	Agree	4	5	Nil
4	189Y1A0208	DANDU BALA SAI	Yes	Strongly Agree	Agree	5	4	Nil
5	189Y1A0209	**GANGAVARAMG ANESHKUMARRE DDY**	Yes	Strongly Agree	Agree	4	5	Nil
6	189Y1A0210	GUBILI NAVEEN KUMAR	Yes	Strongly Agree	Agree	5	4	Nil
7	189Y1A0211	GURAIAHGARI PAVAN KALYAN	Yes	Strongly Agree	Agree	5	4	Provide PPT
8	189Y1A0212	HASANAPURAMC HARANPRAKASH	Yes	Strongly Agree	Agree	4	5	Provide PPT
9	189Y1A0213	ILLURI MARINA (w)	Yes	Strongly Agree	Agree	5	4	Nil
10	189Y1A0218	KANIKE SRINIVASULU	Yes	Strongly Agree	Agree	4	5	Provide PPT
11	189Y1A0219	KARNATI SAI SIVANANDA REDDY	Yes	Strongly Agree	Agree	5	4	Provide PPT
12	189Y1A0220	**KOKKANTI ROHITH**	Yes	Strongly Agree	Agree	4	5	Provide PPT
13	189Y1A0221	KOMMA PEDDI REDDY	Yes	Strongly Agree	Agree	5	4	Nil
14	189Y1A0222	KONANAVANI (W)	Yes	Strongly Agree	Agree	4	5	Nil

15	189Y1A0223	**KONDA SREENIVASA RAO**	Yes	Strongly Agree	Agree	5	4	Nil
16	189Y1A0224	KONDREDDY MANJU BHARGAVI (W)	Yes	Strongly Agree	Agree	4	5	Provide PPT
17	189Y1A0225	KORAPALA VEERA CHANDRA LIKHITA (W)	Yes	Strongly Agree	Agree	5	4	Provide PPT
18	189Y1A0226	**KUKKALAREDDY HEMANTH REDDY**	Yes	Strongly Agree	Agree	4	5	Nil
19	189Y1A0227	**KUKKALAREDDY SUMANTH REDDY**	Yes	Strongly Agree	Agree	5	4	Provide PPT
20	189Y1A0228	**MACHA HARSHITH**	Yes	Strongly Agree	Agree	4	5	Nil
21	189Y1A0229	**MANJULA AKANKSHA (W)**	Yes	Strongly Agree	Agree	5	4	Nil
22	189Y1A0230	MANNU KUMAR	Yes	Strongly Agree	Agree	4	5	Provide PPT
23	189Y1A0231	MIMME SREENATH	Yes	Strongly Agree	Agree	4	5	Provide PPT
24	189Y1A0232	MUGOLLA GANGAPRASANTH	Yes	Strongly Agree	Agree	5	4	Nil
25	189Y1A0233	MUPPURI GIRIKUMAR	Yes	Strongly Agree	Agree	4	5	Nil
26	189Y1A0234	NUKALA ARUNA (W)	Yes	Strongly Agree	Agree	5	4	Provide PPT
27	189Y1A0235	PAGADALA PRIYANKA (W)	Yes	Strongly Agree	Agree	4	5	Provide PPT
28	189Y1A0236	PERAM PAVANI (W)	Yes	Strongly Agree	Agree	5	4	Nil
29	189Y1A0237	PULIMADYALA MOHAMMED SADAK	Yes	Strongly Agree	Agree	4	5	Provide PPT
30	189Y1A0238	**PUTLURU BHARATH KUMAR REDDY**	Yes	Strongly Agree	Agree	5	4	Nil
31	189Y1A0239	RAVULA UPENDRA	Yes	Strongly Agree	Agree	4	5	Provide PPT
32	189Y1A0241	**SAMBU KEERTHI (W)**	Yes	Strongly Agree	Agree	5	4	Nil
33	189Y1A0242	SANIVARAPURAM AKRISHNAREDDY	Yes	Strongly Agree	Agree	4	5	Nil
34	189Y1A0243	SHAIK AISHA (W)	Yes	Strongly Agree	Agree	5	4	Provide PPT
35	189Y1A0244	SHAIK KHALEEFA	Yes	Strongly Agree	Agree	4	5	Provide PPT
36	189Y1A0245	SHAIK MULLA KHAJA MOINUDDIN	Yes	Strongly Agree	Agree	5	4	Nil
37	189Y1A0246	**SHAIK NAZEER BASHA**	Yes	Strongly Agree	Agree	4	5	Nil

38	189Y1A0247	SHAIK YOUSUF	Yes	Strongly Agree	Agree	5	4	Provide PPT
39	189Y1A0248	SURASURA GOWRINATH	Yes	Strongly Agree	Agree	4	5	Provide PPT
40	189Y1A0250	UPPALAPATI SURENDRA BABU	Yes	Strongly Agree	Agree	5	4	Provide PPT
41	189Y1A0251	VADDEMANI PAVAN KUMAR REDDY	Yes	Strongly Agree	Agree	4	5	Provide PPT
42	189Y1A0252	VEMA VENKATESH	Yes	Strongly Agree	Agree	5	4	Provide PPT
43	189Y1A0253	VEMA YOGESWARA	Yes	Strongly Agree	Agree	4	5	Provide PPT
44	199Y5A0201	BELLAGANTI DIVYASWINI (W)	Yes	Strongly Agree	Agree	5	4	Nil
45	199Y5A0202	CHINTHAKUNTA GAYATHRI (W)	Yes	Strongly Agree	Agree	4	5	Provide PPT

Coordinator

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HOD

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