

# Certification Course on MATLAB Programming

Co ordinator: Sri.S.KhaderVali

Date(s) of Event: 23/11/2020-09/12/2020

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: 16/11/2020

To

The Principal,

KSRM College of Engineering,

Kadapa.

Respected Sir

Sub: KSRMCE-(Department of EEE) permission to conduct certification course on "MATLAB Programming"-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 "MATLAB Programming" for B.Tech, V Sem Students from 23 November, 2020 to 09 December, 2020. 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,

*S. KhaderVali*  
S. KhaderVali

Asst. Prof, Dept. EEE

KSRMCE, Kadapa.

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



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

Date: 16/11/2020

Circular

All the B.Tech V Sem EEE students are here by informed that department of EEE is going to conduct certificate course on "MATLAB Programming" interested students may register their names on or before 22 November,2020 before 5 Pm.

For any queries contact faculty coordinator:

S.Khader Vali, Asst.Prof,Dept.EEE, KSRMCE, Kadapa.

*Agmaly*

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 MATLAB Programming

### List of Participants

S.No	Roll Number	Name of the Student	E-mail Id
1	189Y1A0201	ANKIREDDYPALLI BALAKONDA REDDY	189Y1A0201@ksrmce.ac.in
2	189Y1A0202	BANDELADEVA PAVAN KARUNYA	189Y1A0202@ksrmce.ac.in
3	189Y1A0203	BOLLAVARAM PHANI KRISHNA	189Y1A0203@ksrmce.ac.in
4	189Y1A0205	CHALLA MANASA (W)	189Y1A0205@ksrmce.ac.in
5	189Y1A0206	CHALLA SHIVA TEJA REDDY (W)	189Y1A0206@ksrmce.ac.in
6	189Y1A0207	CHEVULA SAMPATH KUMAR	189Y1A0207@ksrmce.ac.in
7	189Y1A0208	DANDU BALA SAI	189Y1A0208@ksrmce.ac.in
8	189Y1A0209	GANGAVARAMGANESHKUMARREDDY	189Y1A0209@ksrmce.ac.in
9	189Y1A0210	GUBILI NAVEEN KUMAR	189Y1A0210@ksrmce.ac.in
10	189Y1A0211	GURAIHAGARI PAVAN KALYAN	189Y1A0211@ksrmce.ac.in
11	189Y1A0214	JANDYALA NAGA BHASKAR	189Y1A0214@ksrmce.ac.in
12	189Y1A0215	KADIRI PARAMESWAR REDDY	189Y1A0215@ksrmce.ac.in
13	189Y1A0216	KALISSETTY SURENDRA MARUTHI	189Y1A0216@ksrmce.ac.in
14	189Y1A0217	KAMISSETTY VAMSI	189Y1A0217@ksrmce.ac.in
15	189Y1A0218	KANIKE SRINIVASULU	189Y1A0218@ksrmce.ac.in
16	189Y1A0219	KARNATI SAI SIVANANDA REDDY	189Y1A0219@ksrmce.ac.in
17	189Y1A0220	KOKKANTI ROHITH	189Y1A0220@ksrmce.ac.in
18	189Y1A0221	KOMMA PEDDI REDDY	189Y1A0221@ksrmce.ac.in
19	189Y1A0222	KONANAVANI (W)	189Y1A0222@ksrmce.ac.in
20	189Y1A0223	KONDA SREENIVASA RAO	189Y1A0223@ksrmce.ac.in
21	189Y1A0224	KONDREDDY MANJU BHARGAVI (W)	189Y1A0224@ksrmce.ac.in
22	189Y1A0225	KORAPALA VEERA CHANDRA LIKHITA	189Y1A0225@ksrmce.ac.in
23	189Y1A0226	KUKKALAREDDY HEMANTH REDDY	189Y1A0226@ksrmce.ac.in
24	189Y1A0227	KUKKALAREDDY SUMANTH REDDY	189Y1A0227@ksrmce.ac.in
25	189Y1A0231	MIMME SREENATH	189Y1A0231@ksrmce.ac.in
26	189Y1A0232	MUGOLLA GANGAPRASANTH	189Y1A0232@ksrmce.ac.in
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30	189Y1A0236	PERAM PAVANI (W)	189Y1A0236@ksrmce.ac.in
31	189Y1A0237	PULIMADYALA MOHAMMED SADAK	189Y1A0237@ksrmce.ac.in
32	189Y1A0238	PUTLURU BHARATH KUMAR REDDY	189Y1A0238@ksrmce.ac.in
33	189Y1A0239	RAVULA UPENDRA	189Y1A0239@ksrmce.ac.in

34	189Y1A0241	SAMBU KEERTHI (W)	189Y1A0241@ksrmce.ac.in
35	189Y1A0242	SANIVARAPURAMAKRISHNAREDDY	189Y1A0242@ksrmce.ac.in
36	189Y1A0243	SHAIK AISHA (W)	189Y1A0243@ksrmce.ac.in
37	189Y1A0244	SHAIK KHALEEFA	189Y1A0244@ksrmce.ac.in
38	189Y1A0245	SHAIK MULLA KHAJA MOINUDDIN	189Y1A0245@ksrmce.ac.in
39	189Y1A0246	SHAIK NAZEER BASHA	189Y1A0246@ksrmce.ac.in
40	189Y1A0247	SHAIK YOUSUF	189Y1A0247@ksrmce.ac.in
41	189Y1A0250	UPPALAPATI SURENDRA BABU	189Y1A0250@ksrmce.ac.in
42	189Y1A0251	VADDEMANI PAVAN KUMAR REDDY	189Y1A0251@ksrmce.ac.in
43	189Y1A0252	VEMA VENKATESH	189Y1A0252@ksrmce.ac.in
44	189Y1A0253	VEMA YOGESWARA	189Y1A0253@ksrmce.ac.in
45	199Y5A0201	BELLAGANTI DIVYASWINI (W)	199Y5A0201@ksrmce.ac.in
46	199Y5A0202	CHINTHAKUNTA GAYATHRI (W)	199Y5A0202@ksrmce.ac.in
47	199Y5A0203	GORANTLA BHUPATHI RAJU	199Y5A0203@ksrmce.ac.in
48	199Y5A0204	GUNDI NAGANNA	199Y5A0204@ksrmce.ac.in
49	199Y5A0205	KALAMALLA KALANDAR	199Y5A0205@ksrmce.ac.in
50	199Y5A0206	KAMMARA UDAYA SREE (W)	199Y5A0206@ksrmce.ac.in
51	199Y5A0207	MODAPOTHULA ANIL	199Y5A0207@ksrmce.ac.in
52	199Y5A0208	MOPOORU RAMA CHANDRA REDDY	199Y5A0208@ksrmce.ac.in
53	199Y5A0210	MUTYALA VENKATA MEGANATH	199Y5A0210@ksrmce.ac.in
54	199Y5A0213	YAMAVARAM SWAPNA (W)	199Y5A0213@ksrmce.ac.in

*Sevali*  
Coordinator

*Ujwal*  
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Cuddapah - 516 003

# Syllabus

## MATALB PROGRAMMING

### Module 1 – Basic MATLAB Programming (6hrs)

**Array Based Computing;** Arrays and Vectors - Appending - Deleting - Concatenation - Data Type - Built-In Functions - Matrix Algebra - Logical Operations - Random Matrix - Flipping a Matrix - Indexing - Slicing - Colon Operators - Structure Arrays - celldisp–cellplot

**Polynomials:** Roots - Addition, Subtraction and division- Differentiation - Polynomial Integration - polynomial Curve Fitting

### Module 2 – Plotting and Loops (6hrs)

**Plotting:** 2D& 3D Plotting - Multiple Plots – Bar charts - Polar graphs - Logarithmic Plots

**Loops and Function:** Loops - The while Loop - The do-until Loop - The for Loop - The if-elseif-else Loop - Functions - inline Function - Anonymous Functions

### Module 3 –Application of MATLAB Simulink Tool box (6hrs)

**Introduction on simulation** - Sim power system –Simcape – Control System-P,PI and PID-STATCOM-Voltage and Current Transformation Techniques- Power system fault detection and classification by using ANN-Demand Side Management by ANN- Speed Control of three phase induction motor and DC motor using Fuzzy Logic

### Module 4 –Renewable Energy System Modeling and Analysis (6hrs)

Solar PV cell modeling and Analysis –Effect of Environmental factor on Solar PV- Single stage and Double stage Grid connected Inverter design-Wind Power Plant Modeling and Analysis

### Module5- Maximum Power Point Tracking (6hrs)

Perturb and Observation (P&O), Incremental and Conductance, Hill Climbing, ANN, Fuzzy Logic, ANFIS, Biological Inspired and Physical Inspired Algorithm.

## Text Books

1. Sandeep Nagar, "Introduction to MATLAB for Engineers and Scientists: Solutions for Numerical Computation and Modeling", Springer 2017
2. The Mathworks"MATLAB/SIMULINK", 2015
3. Howard Demuth, Mark Beale "Neural Network Toolbox" MathWorks, 2004.

*Somya*  
**HEAD**  
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Department of Electrical and Electronics Engineering

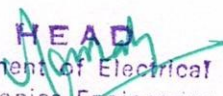
Certification Course on MATLAB Programming

## Schedule

Timing: 4:00pm – 6:00pm

S.No	Date	Course Coordinator	Topic Coverd
1	23/11/2020	Dr.T.MariPrasath	Basicfeatures,scriptM-files,codecells,
2	24/11/2020	Dr.T.MariPrasath	arrayscreation,addressingandarrayoperations;
3	25/11/2020	Dr.T.MariPrasath	multidimensionalarrays.
4	26/11/2020	S.KhaderVali	ControlFlow:Arithmetic &Logicaloperators
5	27/11/2020	S.KhaderVali	Controlflow-if,if-else, for,while
6	28/11/2020	Dr.T.MariPrasath	switchcaseconstructionsandfunctions.
7	30/11/2020	Dr.T.MariPrasath	MathematicalOperations:Matrixalgebraandsolutionstos systemsoflinearequations
8	01/12/2020	Dr.T.MariPrasath	polynomials,Numericalintegration
9	02/12/2020	S.KhaderVali	numericaldifferentiation
10	03/12/2020	S.KhaderVali	MATLABGraphics:Twodimensionalgraphics
11	04/12/2020	Dr.T.MariPrasath	basicsofthreedimensionalgraphics
12	05/12/2020	S.KaderVali	Interpolation,curvefitting.
13	07/12/2020	Dr.T.MariPrasath	Symbolicaigebra
14	08/12/2020	Dr.T.MariPrasath	Equation solving
15	09/12/2020	Dr.T.MariPrasath	Differentiation and integration.

  
Coordinator

  
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**Department of Electrical and Electronics Engineering**

**Activity Report**

Name of theEvent	: Certification Course on MATLAB PROGRAMMING
Date of theEvent	: 23/11/2020-15/12/2020
Scheduled Time	: 4.00 to 6.00PM
Target Audience	: B.Tech VSemStudents
Student Co-ordinator	: S.NazeerBasha, V sem.
Venue of the Event	: online( <a href="https://meet.google.com/lookup/dkejk4ijy4">https://meet.google.com/lookup/dkejk4ijy4</a> )


Activity Description:

MATLAB is one of the important tools for electrical students to learn the circuit designing. Department of EEE organized a <sup>certification</sup> Workshop on "MATALB Programming". Head of the Department, faculty & participants of the workshop inaugurated the workshop with all good spirit. Resource persons began the first day first session Introduction to MATLAB followed by Measurement of electrical parameters in the afternoon session. Second day first session is Implementation of Network Solving Techniques; Afternoon session is Sinusoidal Network Analysis. Third day first session is Application of Electrical Concepts followed by afternoon session exercises and finally valedictory. Students were issued participation certificates by the Head of the Department.

*Sevali*  
Coordinator

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

*V. S. S. Murali*  
**Principal**  
**PRINCIPAL**  
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KADAPA - 516 003. (A.P.)


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I89YIAO226 Hemanth >



I89YIAO227 SUMANTH... >

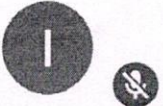
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I89YIAO237 Sadak >



I89YIAO251- PAVAN... >



I89YIAO201... >



I89YIAO205 C. MANASA >



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Kadapa, Andhra Pradesh, India- 516 003

*Certificate Course on*

**MATLAB Programming**  
**23/11/2020-09/12/2020**

Organized by

DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS ENGINEERING





40	SHAIK YOUSUF	189Y1A0247	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
41	UPPALAPATI SURENDRA BABU	189Y1A0250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
42	VADDEMANI PAVAN KUMAR REDDY	189Y1A0251	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
43	HEMA VENKATESH	189Y1A0252	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
44	HEMA YOGESWARA	189Y1A0253	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	A	✓	✓	✓
45	BELLAGANTI DIVYASWINI (W)	199Y5A0201	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
46	CHINTHAKUNTA GAYATHRI (W)	199Y5A0202	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓
47	GORANTLA BHUPATHI RAJU	199Y5A0203	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
48	GUNDI NAGANNA	199Y5A0204	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	A	✓	✓	✓
49	KALAMALLA KALANDAR	199Y5A0205	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
50	KAMMARA UDAYA SREE (W)	199Y5A0206	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
51	MODAPOTHULA ANIL	199Y5A0207	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
52	MOPOORU RAMA CHANDRA REDDY	199Y5A0208	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
53	MUTYALA VENKATA MEGANATH	199Y5A0210	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
54	YAMAVARAM SWAPNA (W)	199Y5A0213	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

*[Signature]*  
Coordinator

*[Signature]*  
HEAD  
HOD  
Department of Electrical &  
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Presents this

## CERTIFICATE OF PARTICIPATION

MS. NAVANI.KONA - Roll No - 18941A0222

For her active and invaluable participation during the conduct of Certification Courses on "MATALB PROGRAMMING" held during 23<sup>rd</sup> November to 09<sup>th</sup> December, 2020, in Department of Electrical And Electronics Engineering.

*Sevathi*  
Coordonator

*Agarwal*  
HOD

*V. S. S. Murthy*  
Principal



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Department of Electrical and Electronics Engineering  
Certification Course on MATLAB Programming

**Feedback Form**

S.No	Name of the Student	Roll List	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 and practices	Rate the Knowledge of the Speaker	Rate the value of Course in increasing your skills	Any Issues
1	ANKIREDDYPALLI BALAKONDA REDDY	189Y1A0201	Strongly Agree	Yes	Agree	Yes	5	4	Nil
2	BANDELADEVA PAVAN KARUNYA	189Y1A0202	Strongly Agree	Yes	Agree	Yes	4	5	Nil
3	BOLLAVARAM PHANI KRISHNA	189Y1A0203	Strongly Agree	Yes	Agree	Yes	5	4	Nil
4	CHALLA MANASA (W)	189Y1A0205	Strongly Agree	Yes	Agree	Yes	5	4	Nil
5	CHALLA SHIVA TEJA REDDY (W)	189Y1A0206	Strongly Agree	Yes	Agree	Yes	5	4	Nil
6	CHEVULA SAMPATH KUMAR	189Y1A0207	Strongly Agree	Yes	Agree	Yes	5	4	Nil
7	DANDU BALA SAI	189Y1A0208	Strongly Agree	Yes	Agree	Yes	5	4	Nil
8	GANGAVARAMGANESHK UMARREDDY	189Y1A0209	Strongly Agree	Yes	Agree	Yes	5	4	Nil
9	GUBILI NAVEEN KUMAR	189Y1A0210	Strongly Agree	Yes	Agree	Yes	4	5	Nil
10	GURAI AHGARI PAVAN KALYAN	189Y1A0211	Strongly Agree	Yes	Agree	Yes	5	4	Nil

11	JANDYALA NAGA BHASKAR	189Y1A0214	Strongly Agree	Yes	Agree	Yes	4	5	Nil
12	KADIRI PARAMESWAR REDDY	189Y1A0215	Strongly Agree	Yes	Agree	Yes	5	4	Nil
13	KALISSETTY SURENDRA MARUTHI	189Y1A0216	Strongly Agree	Yes	Agree	Yes	4	5	Nil
14	KAMISSETTY VAMSI	189Y1A0217	Strongly Agree	Yes	Agree	Yes	4	5	Nil
15	KANIKE SRINIVASULU	189Y1A0218	Strongly Agree	Yes	Agree	Yes	5	4	Nil
16	KARNATI SAI SIVANANDA REDDY	189Y1A0219	Strongly Agree	Yes	Agree	Yes	5	4	Nil
17	KOKKANTI ROHITH	189Y1A0220	Strongly Agree	Yes	Agree	Yes	4	5	Nil
18	KOMMA PEDDI REDDY	189Y1A0221	Strongly Agree	Yes	Agree	Yes	5	4	Nil
19	KONANAVANI (W)	189Y1A0222	Strongly Agree	Yes	Agree	Yes	4	5	Nil
20	KONDA SREENIVASA RAO	189Y1A0223	Strongly Agree	Yes	Agree	Yes	4	5	Nil
21	KONDREDDY MANJU BHARGAVI (W)	189Y1A0224	Strongly Agree	Yes	Agree	Yes	5	4	Nil
22	KORAPALA VEERA CHANDRA LIKHITA (W)	189Y1A0225	Strongly Agree	Yes	Agree	Yes	5	4	Nil
23	KUKKALAREDDY HEMANTH REDDY	189Y1A0226	Strongly Agree	Yes	Agree	Yes	4	5	Nil
24	KUKKALAREDDY SUMANTH REDDY	189Y1A0227	Strongly Agree	Yes	Agree	Yes	5	4	Nil
25	MIMME SREENATH	189Y1A0231	Strongly Agree	Yes	Agree	Yes	4	5	Nil
26	MUGOLLA GANGAPRASANTH	189Y1A0232	Strongly Agree	Yes	Agree	Yes	5	4	Nil
27	MUPPURI GIRIKUMAR	189Y1A0233	Strongly Agree	Yes	Agree	Yes	4	5	Nil
28	NUKALA ARUNA (W)	189Y1A0234	Strongly Agree	Yes	Agree	Yes	5	4	Nil
29	PAGADALA PRIYANKA (W)	189Y1A0235	Strongly Agree	Yes	Agree	Yes	4	5	Nil
30	PERAM PAVANI (W)	189Y1A0236	Strongly Agree	Yes	Agree	Yes	5	4	Nil
31	PULIMADYALA MOHAMMED SADAK	189Y1A0237	Strongly Agree	Yes	Agree	Yes	4	5	Nil



32	PUTLURU BHARATH KUMAR REDDY	189Y1A0238	Strongly Agree	Yes	Agree	Yes	5	4	Nil
33	RAVULA UPENDRA	189Y1A0239	Strongly Agree	Yes	Agree	Yes	4	5	Nil
34	SAMBU KEERTHI (W)	189Y1A0241	Strongly Agree	Yes	Agree	Yes	4	5	Nil
35	SANIVARAPURAMAKRISH NAREDDY	189Y1A0242	Strongly Agree	Yes	Agree	Yes	5	4	Nil
36	SHAIK AISHA (W)	189Y1A0243	Strongly Agree	Yes	Agree	Yes	4	5	Nil
37	SHAIK KHALEEFA	189Y1A0244	Strongly Agree	Yes	Agree	Yes	5	4	Nil
38	SHAIK MULLA KHAJA MOINUDDIN	189Y1A0245	Strongly Agree	Yes	Agree	Yes	4	5	Nil
39	SHAIK NAZEER BASHA	189Y1A0246	Strongly Agree	Yes	Agree	Yes	5	4	Nil
40	SHAIK YOUSUF	189Y1A0247	Strongly Agree	Yes	Agree	Yes	4	5	Nil
41	UPPALAPATI SURENDRA BABU	189Y1A0250	Strongly Agree	Yes	Agree	Yes	5	4	Nil
42	VADDEMANI PAVAN KUMAR REDDY	189Y1A0251	Strongly Agree	Yes	Agree	Yes	4	5	Nil
43	VEMA VENKATESH	189Y1A0252	Strongly Agree	Yes	Agree	Yes	5	4	Nil
44	VEMA YOGESWARA	189Y1A0253	Strongly Agree	Yes	Agree	Yes	4	5	Nil
45	BELLAGANTI DIVYASWINI (W)	199Y5A0201	Strongly Agree	Yes	Agree	Yes	5	4	Nil
46	CHINTHAKUNTA GAYATHRI (W)	199Y5A0202	Strongly Agree	Yes	Agree	Yes	4	5	Nil
47	GORANTLA BHUPATHI RAJU	199Y5A0203	Strongly Agree	Yes	Agree	Yes	5	4	Nil
48	GUNDI NAGANNA	199Y5A0204	Strongly Agree	Yes	Agree	Yes	4	5	Nil
48	KALAMALLA KALANDAR	199Y5A0205	Strongly Agree	Yes	Agree	Yes	5	4	Nil
50	KAMMARA UDAYA SREE (W)	199Y5A0206	Strongly Agree	Yes	Agree	Yes	4	5	Nil
51	MODAPOTHULA ANIL	199Y5A0207	Strongly Agree	Yes	Agree	Yes	5	4	Nil
52	MOPOORU RAMA CHANDRA REDDY	199Y5A0208	Strongly Agree	Yes	Agree	Yes	4	5	Nil

53	MUTYALA VENKATA MEGANATH	199Y5A0210	Strongly Agree	Yes	Agree	Yes	5	4	Nil
54	YAMAVARAM SWAPNA (W)	199Y5A0213	Strongly Agree	Yes	Agree	Yes	4	5	Nil

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**Coordinator**

Skv

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