

# Certificate Course on ADVANCEMENT IN MANUFACTURING TECHNOLOGY

FROM 23rd October 2017 to 27th October 2017



# ORGANIZED BY DEPARTMENT OF MECHANICAL ENGINEERING AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,

(Approved by AICTE, Permanently Affiliated to JNT University Kakinada, ACCREDITED BY NAAC and Recognized under 2(f) &12 (b) by UGC, NewDelhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

#### **AVANTHI EDUCATIONAL SOCIETY**

Avanthi Educational Society under the Leadership of Sri M. Srinivasa Rao garu as chairman was started in the Year 1991. Within a short span of its establishment, the group has made a remarkable stride in the field of education offering various courses at Under Graduate, Post Graduate, Pharmacy & Engineering levels. This milestone is achieved as the institution carved itself to impart quality and career oriented education, countering the challenges of the modern world through planning, dedication, determination, prompt execution and with the innovative ideas of our advisory board.

Today, Avanthi Educational Society is proud to have a strength of over 16000 students with 15 institutions under its ambit. It is the path of glory towards the success during the last 19 years. The institution has been adjudged many times as the second best educational institutions in the twin cities and 16th best in all over India through the impartial survey made by the renowned magazine "India Today".

### **AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

AIET started in the year 1999 and offers various courses at Engineering and PG level. The college is providing with rooms, computer centre, laboratories and seminar hall with audio-visual equipments. Industry Institute interaction is conducted regularly to emphasize on the latest trends in the present market.



It is very near to Narsipatnam. Frequent bus facilities are available both from and to Visakhapatnam and Narsipatnam. Very safe and secure hostel facility is available for Girl students. These are the additional facilities besides excellent academic atmosphere in the college campus.

#### **DEPARTMENT OF MECHANICAL ENGINEERING**

Mechanical Engineering department was started in the year 2005 with intake strength of 60 seats, this was increased to 120 students in 2012 and this was increased to 180 students in 2013. The department has well qualified and trained faculty members. It has well equipped laboratories and workshops and includes a CAD/CAM laboratory where students are imparted training in advanced production techniques and design and analysis of machine elements.

The department of Mechanical Engineering has been contributing its humble share of the Mechanical Engineering graduates for national needs. Several of the graduates who have passed out of this department are occupying responsible positions in various Engineering Industries like Hindustan Shipyard Limited, Renault Nissan, Varun Motors, Tata Consultancy Services, HP and IBM and holding responsible positions in the premier educational institutes in and outside India.

#### **ABOUT WORKSHOP**

Manufacturing of components have become an important part in reference to the product development in industries for the service of mankind. The knowledge of manufacturing processes is highly essential for all engineers & technocrats for familiarizing themselves with modern concepts of manufacturing technologies. The basic need is to provide theoretical & practical knowledge of manufacturing process to the entire individual associated with the concerned domain of engineering. Therefore, an attempt has been made through the course to present both theoretical and practical knowledge on advance manufacturing techniques which can caters the general needs of the engineers and technocrats associated in the country. The initiative is advances in modelling, simulation, experimental techniques along with optimization techniques all of which are merging in creating the ability to design and manufacturing process more rapid and at lower cost than traditional approach.

#### **TOPICS TO BE COVERED**

- Fundamental knowledge of principle and physics involved in advance welding and joining process.
- Thermal and structural finite element modelling of welded structures. Principles and physics involved in additive manufacturing (3D printing) process
- > Finite element analysis and modelling of laser based manufacturing process.
- Fundamental knowledge and principles associated with micro forming and micro machining process.
- Different types of unconventional machining process Laser, Abrasive, Water jet and so on
- Hands on session on different (FE software based simulation) on different advanced forming/welding techniques

For Registration, please contact Mr. A.N.S.Surya Prakash, Assistant Professor, Department of Mechanical Engineering.

#### **CHIEF PATRON**

Smt .M.Gnaneswari President , Avanthi Educational Society PATRON Dr. C P V N J Mohan Rao Principal, Avanthi Institute Of Engineering And Technology

#### CHAIRMAN

Sri. V. Harikiran Head of the Department Mechanical Engineering



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#### DEPARTMENT OF MECHANICAL ENGINEERING

# <u>CIRCULAR</u>

Date: 16/10/2017

We are happy to inform you that, Department of Mechanical Engineering, AIET is organizing six day certificate course on "Advancement in Manufacturing Technology" from 23<sup>rd</sup> October, 2017 to 27<sup>th</sup> October, 2017 in Physical mode for all II B. Tech and III B. Tech students. Interested candidates are directed to enrol above course on or before 22/10/2017. For further details contact Course Coordinator Mr. A. N. S. Surya Prakash, Assistant Professor, Mechanical Engineering.

Résource Person Details:

- Sri Santosh Kumar, Advanced & Product Planning Section Manager, Product Planning Department, NISSAN.
- Sri CH. Anil Kumar, Assistant Professor, Department of Mechanical Engineering, GITAM College, Rushikonda, Visakhapatnam.
- Sri S. Chaitanya, Assistant Manager, Wheels India, Chennai.

V. Harikiran

HOD of Mechanical Engineering Department

Copy to: Principal, AIET

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam-531113.



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# **DEPARTMENT OF MECHANICAL ENGINEERING**

#### Advancement in Manufacturing Technology

#### 23rd October 2017 to 27th October 2017

#### Syllabus of the Workshop:

#### Chapter-1

· Fundamental knowledge of principle and physics involved in advance welding and joining process.

#### Chapter-2

• Thermal and structural finite element modelling of welded structures. Principles and physics involved in additive manufacturing (3D printing) process

#### Chapter-3

• Finite element analysis and modelling of laser-based manufacturing process.

#### Chapter-4

•. Fundamental knowledge and principles associated with micro forming and micro machining process.

#### Chapter-5

• Different types of unconventional machining process Laser, Abrasive, Water jet and so on

#### Chapter-6

• Hands on session on different (FE software-based simulation) on different advanced forming/welding techniques

#### **EXPECTED OUTCOMES**

• This workshop will provide insight on manufacturing industries in practical work

• It will strengthen participants skills in selection to perform various engineering operations with high precision results.

• Workshop will help to understand in the multidisciplinary areas such as Railways, automobile, rocket science to use which type of manufacturing machines and process has to be used.

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam-531113.



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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### Advancement in Manufacturing Technology

23rd October 2017 to 27th October 2017

#### Program Schedule

#### DAY-1 (23/10/2017)

9.00 AM to 11.00 AM - Introduction & Physics of Welding

11.00 AM to 11.15 AM - Tea Break

11.15 AM to 1.15 PM - Weld ability aspect of titanium alloy using laser heat source

1.15 PM to 2.15 PM - Lunch Break

2.15 PM to 4.15 PM - Mechanical joining & Joining by Forming (Hands-on training)

#### DAY-2 (24/10/2017)

9.00 AM to 11.00 AM – Numerical & Experimental Thermo-Mechanical Analysis of Plate Forming by Laser Line Heating

11.00 AM to 11.15 AM - Tea Break

11.15 AM to 1.15 PM - Modelling & Monitoring of Laser based manufacturing technology

1.15 PM to 2.15 PM - Lunch Break

2.15 PM to 4.15 PM – Controlled atmosphere laser welding process & development of a suitable heat source model for simulation of laser-based manufacturing process

#### DAY-3 (25/10/2017)

9.00 AM to 11.00 AM - Micro-forming

11.00 AM to 11.15 AM - Tea Break

11.15 AM to 1.15 PM - Magnetorheological finishing process

1.15 PM to 2.15 PM - Lunch Break

2.15 PM to 4.15 PM - Magnetic field assisted finishing of prosthetic implants

#### DAY-4 (26/10/2017)

9.00 AM to 11.00 AM - Introduction to Wire-Arc Additive manufacturing

11.00 AM to 11.15 AM - Tea Break

11.15 AM to 1.15 PM - Redefining construction with 3D printable building materials

1.15 PM to 2.15 PM - Lunch Break

2.15 PM to 4.15 PM - Problem Discussion & Hands on Session

#### DAY-5 (27/10/2017)

9.00 AM to 11.00 AM - Genetic Algorithm for Real Parameters: RGA

11:00 AM to 11.15 AM - Tea Break

11.15 AM to 1.15 PM - Diamond Turning (Hands on Training)

1.15 PM to 2.15 PM - Lunch Break

2.15 PM to 4.15 PM - Valediction/Feedback Session

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam - 531113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, (Approved by AICTE, Permanently Affiliated to JNT University Kakinada ACCREDITED BY NAAC and Recognized under 2(f) &12 (b) by UGC, New Delhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam- 531113 DEPARTMENT OF MECHANICAL ENGINEERING Advancement in Manufacturing Technology From 23-10-2017 to 27-10-2017 STUDENTS ATTENDANCE LISTS

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S.NO	ROLL NUMBER	NAME OF THE STUDENT	23.10.2017	24.10.2017	25.10.2017	26.10.2017	27.10.2017
1	15811A0301	ADDALA JAGADISH VARMA	$\checkmark$	$\checkmark$	$\checkmark$	X	$\checkmark$
2	15811A0302	ADDANKI PAVAN SAI VAMSI KRISHNAMACHARYULU	$\checkmark$	~	$\checkmark$	$\checkmark$	$\checkmark$
3	15811A0303	ADI SUDHEERKUMAR	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
4	15811A0306	AMALAKANTI DURGA MANIKANTHA	$\checkmark$	$\checkmark$	$\checkmark$	V	$\checkmark$
5	15811A0308	ANAKAPALLI HARIKRISHNA	×	$\checkmark$	~	$\checkmark$	~
6	15811A0310	ANUPOJU RAJESH	$\checkmark$	~	X	$\checkmark$	
7	15811A0312	BADIGANTLA SAI KUMAR	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~
8	15811A0313	BATTI NAVEEN	$\checkmark$	$\checkmark$	~		$\checkmark$
9	15811A0314	BERA SAI KALYAN	$\checkmark$	$\checkmark$	$\checkmark$	V	~
10	15811A0315	BHAVIRISETTI TEJA	~				~
11	15811A0316	BHEEMARAJU KASI	V	~	$\checkmark$		$\checkmark$
12	15811A0317	BOBBARI KIRAN KISHORE	$\checkmark$	x	$\checkmark$	$\checkmark$	~
13	15811A0319	BODDETI NANI BABU	V	Ń	$\checkmark$	$\checkmark$	~
14	15811A0320	BOLISETTY JAYADEEP	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	×
15	15811A0321	BOREDDY NARENDRA REDDY	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
16	15811A0322	BUDDHA ROHITH KRISHNA RAJKUMAR	×	$\checkmark$	~	$\checkmark$	$\checkmark$
17	15811A0325	CHINTA EKATMA AKHIL	$\checkmark$	$\checkmark$	~	$\checkmark$	~
18	15811A0327	DODDI POLARAJU	$\checkmark$		$\checkmark$		
19	15811A0328	DODDI RAJA SEKHAR	$\checkmark$	$\checkmark$	$\checkmark$	×	$\checkmark$
20	15811A0330	DRAKSHARAPU NARENDRA	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
21	15811A0331	DULAM VARAHALA KUMAR	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
22	15811A0333	EDALADA SAINATH	$\checkmark$		$\checkmark$		
23	15811A0335	ETAMSETTI CHIRANJEEVI	~	$\checkmark$	X	$\checkmark$	$\checkmark$
24	15811A0337	GALI SAMUEL CHRISTOPHER	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~
25	15811A0339	GATREDDI HARISH	$\checkmark$	$\checkmark$	$\checkmark$	$\bigwedge$	
26	15811A0340	GIDUTURI MOHANA VENKATA SIVA KUMAR	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
27	15811A0341	GOLLU CHAITANYA KUMAR	$\checkmark$	$\checkmark$	~	$\checkmark$	X
28	15811A0342	GONNABATHULA KANNAJI	V	$\checkmark$	~	~	$\checkmark$
29	15811A0345	GORLE NANI	V	$\checkmark$	$\checkmark$		$\checkmark$

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30	15811A0346	GORLE SAI KUMAR	~		V V		V
31	15811A0347	GUDLA FEROSE KUMAR	$\checkmark$	$\checkmark$			
32	15811A0348	GURRALA MOHAN	V	×	$\checkmark$	V	V
33	15811A0350	JALAPALA SHIVA	V	V	V	V	
34	15811A0352	K YASWANTH KUMAR	~	V	X	<ul> <li>✓</li> </ul>	V
35	15811A0353	KADIYALA NAGENDRA	1				
		KUMAR	<ul> <li>✓</li> </ul>	V	V	V C	V
36	15811A0354	KAJA CHANDRAMOULI	X	V	V	V	V
37	15811A0355	KALIGATLA SAI CHANDU	~	$\checkmark$	$\checkmark$	V	Y
38	15811A0357	KAMIREDDI SAI KRISHNA		v	V	X	V
		RAJU	V	V	V		
39	15811A0359	KANDIKUPPA THARUN	V	$\checkmark$		$\checkmark$	r
		KUMAR			V		V
40	15811A0360	KANITHI AJAY	V	×	×	×	
41	15811A0361	KANNAM NILESH	V	×	V	V .	r
42	15811A0362	KARANAM RAMOJI	V	V	V	V	V
43	15811A0363	KARRI BHASKAR	V		V C	V	×
44	15811A0364	KARRI SRAVAN KUMAR	$\checkmark$	V .	$\checkmark$	<u> </u>	V
45	15811A0365	KATROJU RUPESH	V	$\checkmark$	V	$\checkmark$	V _
46	15811A0366	KATTAMURI SAI VENKATA	V	$\checkmark$	X	$\checkmark$	V
		RAMANA					
47	15811A0369	KADIMI SAI SUNITHA	V	<ul> <li>✓</li> </ul>	V	V	X
48	15811A0370	REDDY POOJA	V	<ul> <li>V</li> </ul>	Y	V	V
49	15811A0371	KOTLA RAMASIVA	X	V	V	$\checkmark$	V
50	15811A0373	KOTTE THARUN	V	$\checkmark$	$\checkmark$	$\checkmark$	V
51	15811A0374	KUSALAPUDI KASU BABU	$\checkmark$	· 🗸 ·	V	×	V
52	15811A0376	MALLA POORNA		7	-		~
52	1381170570	CHANDRASEKHAR	V	$\checkmark$	$\checkmark$	V	$\checkmark$
53	15811A0377	MAMIDANNA SANDEEP	$\checkmark$	$\checkmark$	N	$\checkmark$	$\checkmark$
54	15811A0378	MANGA VINAY SANTOSH	$\checkmark$	$\checkmark$	~	$\checkmark$	V
55	15811A0379	MANJEETI NAVEEN	V	$\checkmark$	V	$\checkmark$	X
56	15811A0382	MILARU SUBHASH	V	×	$\checkmark$	V	$\checkmark$
57	15811A0383	MOHAMMAD BHASEER	×	V	V	V	V
58	15811A0384	MOLUGU SAMPREETH	V	V	$\checkmark$	V	V
59	15811A0385	MUDDA PAVAN SAI	V	V	$\checkmark$	V	V
60	15811A0387	MUKALA KARUN RAVI TEJA	$\checkmark$	V	$\checkmark$	V	×
61	15811A0389	NAGUDASARI SASI VADAN	$\checkmark$	r	$\checkmark$	$\checkmark$	V
62	15811A0390	NOTLA ANIL KUMAR	V	$\checkmark$	V	$\checkmark$	$\checkmark$
63	15811A0391	BODDU NAVEEN	$\checkmark$	$\checkmark$	x	V	V
64	15811A0394	PALLAM NARENDRA SAI KUMA		$\checkmark$	V	$\checkmark$	V
65	15811A0395	PAPPALA SRINIVASARAO	V	V	V	V	V
66	15811A0396	PEDDINTI PREM KUMAR	Ý	V	$\checkmark$	×	V
67	15811A0397	PEELA JAGADEESH	$\checkmark$	V	V	V	V
68	15811A0399	PENTA SRIKANTH	x	$\overline{\mathbf{V}}$	V	V	~
69	15811A03A1	PETHAKAMSETTY HEMANTH HARSHA VARDHAN	~	×	V	V	V
70	15811A03A2	PILLA VINOD KUMAR	V	V	$\checkmark$	V	V
71	15811A03A3	POLA SURESH	V	V	V	r	V
72	15811A03A6	POLINA VINAYKUMAR	V	V	V	V	x
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73	15811A03A7 P	RATHIPATI LAXMANA RAO	×	V	V	V	V	
74	15811A03A8 P	ULAVARTHI MURTHY BABU	$\checkmark$	$\checkmark$	V	~	V	r
75	15811A03B1 F	ACHAPATHI GOPI	$\checkmark$	V	V	V	V	E
76		RAJANA DURGAPRASAD	$\checkmark$	$\checkmark$	$\checkmark$	X	V	5
77		RATNALA VIKAS	$\checkmark$	X	$\checkmark$	V	V	1
78		REDDYPALLI DILIP VAMSI	$\checkmark$	$\checkmark$	$\checkmark$	/	V	1
79		REKAPALLI MADHU	$\checkmark$	$\checkmark$	×	V	$\checkmark$	
80		SAI JAGANNADHA SAHU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	
81		SANAPATHI SAI KUMAR	V	$\checkmark$	$\checkmark$	$\checkmark$	×	
82		SARAGADAM JAYA KRISHNA	$\checkmark$	$\checkmark$	V	V	V	_
83		SENAPATHI VENKATESH	$\checkmark$	×	$\checkmark$	V	V	
84		SIDDA VARAPRASAD RAO	Ý	V	V	V	$\checkmark$	
85		SURISETTI PRAMOD KUMAR	$\checkmark$	V	V	X	V	
86		SURISETTI SUDHEER KUMAR	$\checkmark$	V	V	V	$\checkmark$	
87	15811A03C7	SURLA MURALI	×	$\checkmark$	V	V	V	
88	15811A03C9	TERAPALLI MURALI KRISHNA	$\checkmark$	~	V	V	V	
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89	15811A03D0	NAIDU	$\checkmark$	V	V	<u> </u>		
90	15811A03D1	THATTA ARAVIND KUMAR	$\checkmark$	$\checkmark$	$\checkmark$	V	_ V	
91	15811A03D3	UGGINA PRADEEP KUMAR	V	×	~	Y	$\checkmark$	
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92	15811A03D4	DURGAPRASAD	$\checkmark$	V	V		V	
93	15811A03D5	VARRI CHARAN KUMAR	X	$\checkmark$	V	V	V	
94	15811A03D6	VASA SAI KUMAR	V	V	V	V	V	
95	15811A03D7	VEGI RAMU	V	Y	X	N	Ŷ	
96	15811A03D9	VENTURI RAM PRASAD	~	V	V	V	V	-
97	15811A03E0	VIYYAPU ASHOK SAI	V	V	$\checkmark$	V	V .	-
98	15811A03E1	YELLAPU YESWANTH	V	V	V	✓ 1	×	-
99	16815A0301	PEDIREDLA HEMA NEERAJA	v	×	V	V	V	
100	16815A0302	ATTUMURI VARAPRASAD	V	V	X	$\checkmark$	$\checkmark$	-
101	16815A0303	BANTUPALLI SRI HARSHA	V	$\checkmark$	V	$\checkmark$	V	4
102	16815A0305	BYLAPUDI SEKHAR	×	V	$\checkmark$	V	V	4
103	16815A0306	CHINTALA ASHOK KUMAR	V	V	V	V	×	_
104	16815A0307	CHINTHALA POTHURAJU	V	$\checkmark$	V	~	V	_
105	5 16815A0308	EEGALA VENKATESH	V	V	V	V	~	_
106	5 16815A0309	GARIKINA SOMESWARA RAO	V	V	V	$\checkmark$	V	
107	7 16815A0310	GIDUTHURI GIREESUBABU	X	V	V	V	V	
108		GOLLU SWAMY	$\checkmark$	~	~	V	$\checkmark$	
10	9 16815A0313	JOMMALA MAHESH	V	V	$\checkmark$	V	X	
110	0 16815A0314	KALLEMPUDI KISHORE	V	V	V	V	~	
11	1 16815A0316	KARANAM CHANDRA MOULI	$\checkmark$	×	~	v	V	
11	2 16815A0317	KARANAM RAVI TEJA	~	V	×	V	V	
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11	4 16815A0320	) KORADA UDAY KUMAR	$\checkmark$	$\checkmark$	V	V.	V	
11	5 16815A0321	KORUPROLU YESU RAJU	$\checkmark$	~	$\checkmark$	$\checkmark$	~	
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73	15811A03A7	PRATHIPATI LAXMANA RAO	X	V	V	V	V
74	15811A03A8	PULAVARTHI MURTHY BABU	$\checkmark$	$\checkmark$	V	<ul> <li>V</li> </ul>	V
75	15811A03B1	RACHAPATHI GOPI	$\checkmark$	$\checkmark$	V	V	V
76	15811A03B2	RAJANA DURGAPRASAD	$\checkmark$	$\checkmark$	$\checkmark$	×	$\checkmark$
77	15811A03B3	RATNALA VIKAS	V	X	$\checkmark$	V	V
78	15811A03B4	REDDYPALLI DILIP VAMSI	$\checkmark$	$\checkmark$	$\checkmark$	V	$\checkmark$
79	15811A03B5	REKAPALLI MADHU	$\checkmark$	$\checkmark$	×	V	V
80	15811A03B8	SAI JAGANNADHA SAHU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
81	15811A03B9	SANAPATHI SAI KUMAR	V	V	$\checkmark$	V	×
82	15811A03C0	SARAGADAM JAYA KRISHNA	$\checkmark$	$\checkmark$	V	$\checkmark$	V
83	15811A03C2	SENAPATHI VENKATESH	$\checkmark$	×	V	V	V
84	15811A03C3	SIDDA VARAPRASAD RAO	$\checkmark$	$\checkmark$	V	V	$\checkmark$
85	15811A03C5	SURISETTI PRAMOD KUMAR	$\checkmark$	V	V	X	$\checkmark$
86	15811A03C6	SURISETTI SUDHEER KUMAR	$\checkmark$	V	V	×	$\checkmark$
87	15811A03C7	SURLA MURALI	x	$\checkmark$	V	V	V
88	15811A03C9	TERAPALLI MURALI KRISHNA	$\checkmark$	~	V	V	$\checkmark$
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89	15811A03D0	NAIDU	$\checkmark$	V	V	×	V
90	15811A03D1	THATTA ARAVIND KUMAR	$\checkmark$	$\checkmark$	~	V	V
91	15811A03D1	UGGINA PRADEEP KUMAR	V	×	$\checkmark$	Y	$\checkmark$
91	13811A03D3	VARRE APPALA SATYA	V		•		
92	15811A03D4	DURGAPRASAD	$\checkmark$	$\checkmark$	V	$\checkmark$	V
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93	15811A03D5	VASA SAI KUMAR	×	× ·	V	V	V
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95	15811A03D7	VEGI RAMU	$\checkmark$		$\overline{\checkmark}$	V	
96	15811A03D9	VENTURI RAM PRASAD	V	V			V
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99	15811A03E1 16815A0301	PEDIREDLA HEMA NEERAJA	V V	× ~	V	V	V
99 100 101	15811A03E1 16815A0301 16815A0302 16815A0303	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD	V V V	× ~ ~	× × ×		V V
99 100 101 102	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR	V V X	× ~ ~	× × ×		
99 100 101 102 103	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA			× × ×		
99 100 101 102 103 104	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0307	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU		× ~ ~			
99 100 101 102 103	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR					
99 100 101 102 103 104 105 106	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0307 16815A0308 16815A0309	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO					
99 100 101 102 103 104 105 106 107	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0307 16815A0308 16815A0309 16815A0310	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU					
99 100 101 102 103 104 105 106 107 108	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0307 16815A0308 16815A0309 16815A0310 16815A0312	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY					
99 100 101 102 103 104 105 106 107 108 109	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0307 16815A0308 16815A0309 16815A0310 16815A0312 16815A0313	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH					
99 100 101 102 103 104 105 106 107 108	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0307 16815A0308 16815A0309 16815A0310 16815A0312	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY					
99 100 101 102 103 104 105 106 107 108 109 110 111	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0306 16815A0307 16815A0308 16815A0309 16815A0310 16815A0312 16815A0314 16815A0316	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH KALLEMPUDI KISHORE KARANAM CHANDRA MOULI					
99 100 101 102 103 104 105 106 107 108 109 110 111 112	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0306 16815A0308 16815A0309 16815A0310 16815A0312 16815A0313 16815A0314 16815A0317	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH KALLEMPUDI KISHORE KARANAM CHANDRA MOULI KARANAM RAVI TEJA					
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0306 16815A0307 16815A0309 16815A0309 16815A0310 16815A0312 16815A0314 16815A0316 16815A0317 16815A0319	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH KALLEMPUDI KISHORE KARANAM CHANDRA MOULI KARANAM RAVI TEJA					
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0306 16815A0307 16815A0309 16815A0309 16815A0310 16815A0312 16815A0314 16815A0316 16815A0319 16815A0320	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH KALLEMPUDI KISHORE KARANAM CHANDRA MOULI KARANAM RAVI TEJA KONATHALA CHAITANYA					
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0306 16815A0307 16815A0309 16815A0310 16815A0312 16815A0313 16815A0314 16815A0316 16815A0317 16815A0319 16815A0320 16815A0321	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH KALLEMPUDI KISHORE KARANAM CHANDRA MOULI KARANAM RAVI TEJA KONATHALA CHAITANYA KORADA UDAY KUMAR					
99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	15811A03E1 16815A0301 16815A0302 16815A0303 16815A0305 16815A0306 16815A0306 16815A0307 16815A0309 16815A0309 16815A0310 16815A0312 16815A0314 16815A0316 16815A0319 16815A0320	PEDIREDLA HEMA NEERAJA ATTUMURI VARAPRASAD BANTUPALLI SRI HARSHA BYLAPUDI SEKHAR CHINTALA ASHOK KUMAR CHINTHALA POTHURAJU EEGALA VENKATESH GARIKINA SOMESWARA RAO GIDUTHURI GIREESUBABU GOLLU SWAMY JOMMALA MAHESH KALLEMPUDI KISHORE KARANAM CHANDRA MOULI KARANAM RAVI TEJA KONATHALA CHAITANYA					

118	16815A0324	KURMAPU KRISHNA RAO	x	$\checkmark$	~	$\checkmark$	V
119	16815A0325	MALLA DHANAJI VASU	V	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
		MUMMIDISETTI SOMANATH					
120	16815A0327	GUPTA	V	V	$\checkmark$	V	$\checkmark$
121	16815A0329	NANDAVARAPU MURALI	V	V	V	×	$\checkmark$
		PALLAPU SAI RUSHENDRA					
122	16815A0331	CHAKRAVARTHY	$\checkmark$	$\checkmark$	V	$\checkmark$	V
123	16815A0332	PITANA PRUDHVI RAJ		×		7	
		PRASADI VENKATA DURGA				1	
124	16815A0333	VARA PRASAD	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	V
125	16815A0334	PUDI JAGADEESH	$\checkmark$	V	X	Ń	V
		SAMPATH RAVINDRA VARMA					
126	16815A0335	BODDU	$\checkmark$	$\mathbf{v}$	$\checkmark$	✓	V
		SANAPATI					
127	16815A0336	THARAKESWARARAO	$\checkmark$	$\checkmark$	$\checkmark$	V	×
	1		1.11				
128	16815A0337	SARAGADAM DAMODAR RAO	$\checkmark$	V	$\checkmark$	$\checkmark$	V
129	16815A0338	SIYADRI DARAMAHESH	$\checkmark$	×	V	V	$\sim$
130	16815A0339	TAMARANA KUMAR		$\overline{\mathbf{v}}$	- V		V
131	16815A0340	YELLAPU NAGENDRA BABU	$\checkmark$	<b>√</b>	<b>√</b>	×	×
132	16815A0341	KOLLI DURGA ADI NARAYANA	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
133	16811A0301	AKOJU DURGA PRASAD	$\checkmark$	$\checkmark$	×	$\checkmark$	V
134	16811A0302	AKULA KIRAN		$\checkmark$	$\checkmark$	$\checkmark$	×
135	16811A0304	ALLU LAKSHMI VENKATA PRASAD	<b>V</b>	V	$\checkmark$	$\checkmark$	V
120	16811A0305					V	
136 137	16811A0305	ANGULARI VENKAT SUDHEER			V		V
137	16811A0308	ANNEPU RAMMOHANA RAO	×		V	V	~
	16811A0309	BOBBILI PURUSHOTHAM KUMA		✓	-	V	
139	10811A0309	BODDU TARUN	$\checkmark$	✓	V	V	X
140	16811A0310	BOGUDU ANUMANTH SIVA SAI	$\checkmark$	V	$\checkmark$	V	
1 4 4	1601140211	KISHORE			1		V
141	16811A0311	BOLEM KANAKA VARAPRASAD	$\checkmark$	V	$\checkmark$	X	V
142	16811A0314	CHINTAKAYALA MANIKANTA SWAMY	$\checkmark$	<b>√</b>	V	V	×
143	16811A0315	DADLA KRISHNA RAO		×	V	V	V
144	16811A0316	DASARI MANIKANTA RAJULU	V	V	~	V	V
145		DOLA DILEEP KUMAR	V	V	X	V	V
146	16811A0319	EERLA GANESH	V	~	× /	V	V
147	16811A0320	EYYAPU TRILOK SAI	V	V	V	V	V
148		GADE SAI KUMAR	V	V	$\checkmark$	V	V
149	16811A0322	GALLA YESWANTH NAGA	×			V	V
4.5.5		KUMAR		$\checkmark$	$\checkmark$	v	
150		GANTA JOHN	<u> </u>	V	V	X	V
151		GAVIREDDI DATTASAI	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	V
152		GAVVA SAI GANGADHAR	<ul> <li>Image: A start of the start of</li></ul>	X	×	$\checkmark$	V
153		GEDDAM RAMESH	$\checkmark$	~	$\checkmark$	$\checkmark$	$\checkmark$
154		GORLI SAI KUMAR	V	$\checkmark$	$\sim$	Ń	$\checkmark$
155	16811A0329	JANAPALA SATYA GANESH	٢	$\checkmark$	V	X	V

156	16811A0330	JEERU AYYAPPA	×	$\checkmark$	$\checkmark$	$\checkmark$	V
157	16811A0332	KANCHI SHANMUKHA TEJA	V	$\checkmark$	$\checkmark$	V	V
158	16811A0333	KARANAM SATHISH	$\checkmark$	X	V	V	V
159	16811A0334	KOILADA MANIKUMAR	$\checkmark$	V	$\checkmark$	V	V
160	16811A0335	KORUPOLU HARI KIRAN	V	V	V	V	X
161	16811A0336	KOSURU CHANDRA SEKHAR	$\checkmark$	V	Ň	V	V
162	16811A0337	KOYYA RAVI TEJA	V	$\checkmark$	X	V	V
163	16811A0338	KUPPA VENKATESH	$\checkmark$	V	V	V	V
164	16811A0339	LINGAM JOSHI SAI JASWANTH	✓	$\checkmark$	$\overline{\checkmark}$	$\checkmark$	V
165	16811A0340	MALLA CHANDU	×	$\checkmark$	$\checkmark$	$\checkmark$	V
166	16811A0341	MALLA KUMAR	$\overline{\mathbf{v}}$	N N	$\checkmark$		V
167	16811A0343	MATTE VARA PRASAD	$\checkmark$	$\checkmark$	<u> </u>	×	V
168	16811A0344	MEESALA SHYAM PRASAD		V			V
169	16811A0345	MOHAMMED SHABZAN	$\overline{\mathbf{v}}$	$\checkmark$		V	X
		MOPADA LIKHIL NAGA				v	
170	16811A0346	KRISHNA BABU	$\checkmark$	~	V	$\checkmark$	1
		MUPPIDI GIRI SAI VENKATA					
171	16811A0347	DURGA PRASAD	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	~
		NAGIREDDY LEELA SATYA			1		
172	16811A0348	PRASANNA	$\checkmark$	×	$\checkmark$	~	×
173	16811A0349	NAGULAPALLE SAI KUMAR	~	~	~	~	
174	16811A0351	NALLABELLI RAMA SEKHAR	~ ~		×	x	~
175	16811A0352	NALLALA CHARAN			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
175	16811A0353	NAMMINA SOMESH		~			
170	16811A0354	NEERUKONDA PRABHU DEVA		V V	×		V
178	16811A0355	NETHINTI THARUN KUMAR	x	$\overline{\checkmark}$	$\checkmark$	$\overline{\checkmark}$	
179	16811A0356	PACHIKORA AYYAPPA				$\checkmark$	
180	16811A0357	PAILA PAVAN KUMAR	$\sim$	$\checkmark$	$\sim$		V
181	16811A0358	PAKKURTHI BALAJI		<ul> <li>✓</li> <li>✓</li> </ul>	$\checkmark$	V V	Y
181	16811A0359	PALLA GANESH				×	
183	16811A0360	PALLA VENKATESH		V (	- V	$\checkmark$	
184	16811A0361	PANDRANKI TEJESWARA RAO		V	~		×
185	16811A0363	PEELA ARUN KUMAR	V	×		V	
185	16811A0364	PENTAKOTA PHANI KUMAR			-	V	V
187	16811A0365	PERLA HEMANTH KUMAR	 	V	V		
187	16811A0365	PETLA PAVAN KUMAR	▼	<u> </u>		V (	V
100	10011A0300	POLIREDDI VISHNU	v	<b>∕</b>	V	✓	V
189	16811A0367	VARAHALA NAIDU	$\checkmark$	V	V	$\checkmark$	V
100	16811A0369						
190	16811A0369 16811A0370	POTTI PRATAP POTTI SOMESWARA RAO	~	~		V	
191			×	$\checkmark$		×	
192	16811A0371	RAPETI AVINASH RAVADA RAJARAO			✓ ✓	~	V
193	16811A0372	RAVADA RAJARAO RITHVIK RANJAN	V	X		X	X
194	16811A0373		V		V	×	V
195	16811A0374	RUNKU RAMBABU	V .	- V	X	V	r
196	16811A0375	SARAGADAM GANESH			~	<ul> <li>✓</li> </ul>	V
197	16811A0376	SENAPATHI HEMANTH KUMAR				X	1
198	16811A0377	SHAIK MANSOOR	V 1	- V	V	×	V
199	16811A0378	SOORA SAI PAVAN	×		$\checkmark$	<ul> <li>✓</li> </ul>	V
200	16811A0379	SOWBANDI MOHAN SATYA SAI	\[         \]     \[         \[         \]     \[         \[         \]     \[         \[         \]     \[         \[         \]     \[         \[         \]     \[         \[         \[         \[	V	V.	V,	V
201	16811A0380	SURISETTI VIJAYA SIVA	V	$\checkmark$	x		×

202         16811A0381         TALARI MAHESH         Y         V         V         V           203         16811A0382         TAMARANA RAVITEJA         V         V         V         V           204         16811A0382         THATKONDA NAGA SAI KIRAN         V         V         V         V         V           205         16811A0384         THOKADA SRINU VASU         V         V         V         V         V         V           206         16811A0384         VAKADA NAGA RAJU         V         V         V         V         V         V           208         16811A0384         VCIANARESH         V </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
203       16811A0382       TAMARANA RAVITEJA       ✓       ✓       ✓       ✓       ✓       ✓         204       16811A0383       THATIKONDA NAGA SAI KIRAN       ✓       ✓       Ý       ✓         205       16811A0384       THOKADA SIRNU VASU       ✓       Ý       ✓       ✓       ✓         206       16811A0385       UDATHA GUNA SUBRAMANYAM       ✓       ✓       ✓       ✓       ✓       ✓         207       16811A0387       VANGAPANDU JAGAN SAI       ✓	202	16811A0381	TALARI MAHESH	X	$\checkmark$		$\checkmark$	$\checkmark$
205         16811A0384         THOKADA SRINU VASU         V         V         V         V           206         16811A0385         UDATHA GUNA SUBRAMANYAM         V <td>203</td> <td>16811A0382</td> <td>TAMARANA RAVITEJA</td> <td></td> <td>V</td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td>V</td>	203	16811A0382	TAMARANA RAVITEJA		V	$\checkmark$	$\checkmark$	V
203       103011.0035       UDATHA GUNA SUBRAMANYAM       V       V       V       V         207       16811.40385       UDATHA GUNA SUBRAMANYAM       V       V       V       V         208       16811.40386       VAKADA NAGA RAJU       V       V       V       V       V         208       16811.40386       VEGI HAREESH       V       V       V       V       V         210       16811.40388       VERU SALKRISHNA       V       V       V       V       V         211       16811.40391       VOLUL HANISH       V       V       V       V       V         212       16811.40391       VOLUL HANISH       V       V       V       V       V         213       16811.40391       VOLUL HANISH       V       V       V       V       V         214       16811.40391       VOLUL HANISH       V	204	16811A0383	THATIKONDA NAGA SAI KIRAN	$\checkmark$	<ul> <li>✓</li> </ul>		X	$\checkmark$
206         16811A0385         UDATHA GUNA SUBRAMANYAM         ✓	205	16811A0384	THOKADA SRINU VASU	V	V	X	$\checkmark$	$\checkmark$
1001100011001100011000110001100011000	206	16811A0385	UDATHA GUNA SUBRAMANYAN		$\checkmark$	$\checkmark$	$\checkmark$	$\sim$
208       16811A0387       VANGAPANDU JAGAN SAI       ✓	207	16811A0386	VAKADA NAGA RAJU	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
209       16811A0388       VEGI HAREESH       V       V       V       V       V         210       16811A0388       VENU SAI KRISHNA       V       V       V       V       V         211       16811A0391       VOLLA KALVAN KUMAR       V       V       V       V       V         212       16811A0391       VOLLU HANISH       V       V       V       V       V         213       16811A0392       VYBOINA ASHOK KUMAR       V       V       V       V       V         214       16811A0392       VYBOINA ASHOK KUMAR       V       V       V       V       V         215       16811A0394       YARRAMSETTI HEMANTH SAI PRUDHVI       V       V       V       V       V       V         216       16811A0395       YEDURU HARISH       V	208	16811A0387	VANGAPANDU JAGAN SAI	$\checkmark$	V		$\sim$	$\checkmark$
210       16811A0389       VENU SAI KRISHNA $\checkmark$ <td< td=""><td>209</td><td>16811A0388</td><td>VEGI HAREESH</td><td><math>\checkmark</math></td><td>V</td><td>1</td><td><math>\sim</math></td><td><math>\checkmark</math></td></td<>	209	16811A0388	VEGI HAREESH	$\checkmark$	V	1	$\sim$	$\checkmark$
211       16811A0390       VINDULA KALYAN KUMAR       ✓	210	16811A0389	VENU SAI KRISHNA	$\checkmark$	1	~	V	V
212         16811A0391         VOLLU HANISH         ✓	211	16811A0390	VINDULA KALYAN KUMAR		$\checkmark$		6	V
100         1000000000000000000000000000000000000	212	16811A0391	VOLLU HANISH	$\checkmark$	$\checkmark$	V	V	~
214         16811A0393         PRUDHVI         V	213	16811A0392	VYBOINA ASHOK KUMAR	$\checkmark$	×	$\checkmark$	$\sim$	×
10         10         V			YALAMANCHILI VENKATA					
215       16811A0394       PRASAD       X       V       V       V         216       16811A0395       YEDURU HARISH       V       V       Y       V         217       16811A0395       YEDURU VUJAY KUMAR       V       V       V       V         218       16811A0397       INDALA PRASAD       V       V       V       V         218       16811A0397       INDALA PRASAD       V       V       V       V         219       16811A0398       JALLI VENKATESH       V       X       V       V         220       17815A0301       ALLA MEGHANA SANTHI       V       V       V       V         221       17815A0304       ARGA RAJESH       V       V       V       V         222       17815A0305       BALLA RAHUL       V       V       V       V         224       17815A0306       BONDALA HARISH KUMAR       V       V       V       V         225       17815A0307       CH BHAVANI       V       V       V       V       V         226       17815A0310       CHINTAKAYALA VENKATA       V       V       V       V       V         228       17815A0311	214	16811A0393	PRUDHVI	V	$\checkmark$		$\checkmark$	· ~
PRASAD         A <td></td> <td></td> <td>YARRAMSETTI HEMANTH SAI</td> <td>7</td> <td></td> <td></td> <td></td> <td></td>			YARRAMSETTI HEMANTH SAI	7				
1217       16811A0396       YELLAPU VIJAY KUMAR       V       V       V       V         218       16811A0397       INDALA PRASAD       V       V       V       V         219       16811A0398       JALLI VENKATESH       V       V       V       V         210       17815A0301       ALLA MEGHANA SANTHI       V       V       V       V         220       17815A0302       ANGA RAJESH       V       V       V       V         211       17815A0302       ANGA RAJESH       V       V       V       V         221       17815A0305       BALLA RAHUL       V       V       V       V         222       17815A0306       BONDALA HARISH KUMAR       V       V       V       V         224       17815A0306       BONDALA HARISH KUMAR       V       V       V       V         225       17815A0308       CH BHAVANI       V       V       V       V       V         226       17815A0310       CHIBLA RAO       V       V       V       V       V         227       17815A0310       CHIBLA RAO       V       V       V       V         228       17815A0310	215	16811A0394	PRASAD	$\times$	$\checkmark$	~	$\sim$	~
217       16811A0396       YELLAPU VIJAY KUMAR       ✓       <	216	16811A0395	YEDURU HARISH	$\checkmark$	$\sim$	Ŷ	N	$\checkmark$
218       16811A0397       INDALA PRASAD       ✓ </td <td>217</td> <td>16811A0396</td> <td>YELLAPU VIJAY KUMAR</td> <td><math>\checkmark</math></td> <td><math>\checkmark</math></td> <td></td> <td></td> <td><math>\checkmark</math></td>	217	16811A0396	YELLAPU VIJAY KUMAR	$\checkmark$	$\checkmark$			$\checkmark$
219       16811A0398       JALLI VENKATESH       V       X       V       X         220       17815A0301       ALLA MEGHANA SANTHI       V       V       V       V         221       17815A0302       ANGA RAJESH       V       V       V       V         221       17815A0302       ANGA RAJESH       V       V       V       V         222       17815A0305       BALLA RAHUL       V       V       V       V       V         223       17815A0306       BONDALA HARISH KUMAR       V       V       V       V       V         224       17815A0306       BONDALA HARISH KUMAR       V       V       V       V       V         225       17815A0307       CH BHAVANI       V       V       V       V       V       V         226       17815A0308       CHIPTAKAYALA VENKATA       V       V       V       V       V       V         228       17815A0310       CHINTAKAYALA VENKATA       V       V       V       V       V       V       Z         230       17815A0312       DANIMIREDDI ASHOK       V       V       V       V       Z         231       17815A0	218	16811A0397	INDALA PRASAD	V	$\sim$	~ ~	$\checkmark$	
220       17815A0301       ALLA MEGHANA SANTHI       V       V       V       V         221       17815A0302       ANGA RAJESH       V       V       V       V         222       17815A0302       ARJILI RAJASEKHAR       ×       V       V       V         223       17815A0305       BALLA RAHUL       V       V       ×       V         224       17815A0305       BONDALA HARISH KUMAR       V       V       V       V         224       17815A0306       BONDALA HARISH KUMAR       V       V       V       V         225       17815A0308       BONDALA HARISH KUMAR       V       V       V       V         226       17815A0310       CH BHAVANI       V       V       V       V       V         227       17815A0310       CHINTAKAYALA VENKATA VARAHA SATYA PRAKASH       V       V       V       V         228       17815A0310       DANIMIREDDI ASHOK       V       V       V       V       V         230       17815A0312       DANIMIREDDI ASHOK       V       V       V       V         231       17815A0315       GORLI PAWAN KUMAR       V       V       V       V	219	16811A0398	JALLI VENKATESH	$\checkmark$	×	$\checkmark$	V	
222       17815A0304       ARJILLI RAJASEKHAR       \$       V       \$       \$       V       \$       \$       V       \$       \$       V       \$ <t< td=""><td>220</td><td>17815A0301</td><td>ALLA MEGHANA SANTHI</td><td></td><td></td><td>V</td><td>~</td><td>N</td></t<>	220	17815A0301	ALLA MEGHANA SANTHI			V	~	N
22217815A0304ARJILLI RAJASEKHAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22317815A0305BALLA RAHUL $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22417815A0306BONDALA HARISH KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22517815A0307CH BHAVANI $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22617815A0308CH YESWANTH DURGA $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22717815A0310CHIINTAKAYALA VENKATA $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22817815A0310CHIINTAKAYALA VENKATA $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22917815A0312DANIMIREDDI ASHOK $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23017815A0314DUPPATLA VINAY $\%$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23117815A0315GORLI PAWAN KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23317815A0318KADIYAM PRAVEEN KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23417815A0320KAMBAM BHASKAR REDDY $\%$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23517815A0321KANDREGULA SURESH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23817815A0323KANDREGULA SURESH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23917815A0324KANNAM SATYA VENKATA $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23917815A0324KARI VENKATESH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ <td>221</td> <td>17815A0302</td> <td>ANGA RAJESH</td> <td>V</td> <td><math>\sim</math></td> <td><math>\checkmark</math></td> <td>V</td> <td><math>\checkmark</math></td>	221	17815A0302	ANGA RAJESH	V	$\sim$	$\checkmark$	V	$\checkmark$
22317815A0305BALLA RAHUL $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22417815A0306BONDALA HARISH KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22517815A0307CH BHAVANI $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22617815A0308CH YESWANTH DURGA CHELLA RAO $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22717815A0310CHINTAKAYALA VENKATA VARAHA SATYA PRAKASH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22817815A0310CHINTAKAYALA VENKATA VARAHA SATYA PRAKASH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 22917815A0311DAKARAPU DURGA PRASAD $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23017815A0312DANIMIREDDI ASHOK $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23117815A0314DUPPATLA VINAY $冷$ $\checkmark$ $\checkmark$ $\checkmark$ 23217815A0317GORLI PAWAN KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23317815A0318KADIYAM PRAVEEN KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23417815A0320KAMBAM BHASKAR REDDY $\%$ $\checkmark$ $\checkmark$ $\checkmark$ 23517815A0321KANDRAKOTA KRANTHI KUMAR $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23817815A0324KANDREGULA SURESH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23917815A0324KANNAM SATYA VENKATA SAI $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ 23417815A0324KANDREGULA SURESH $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$	222	17815A0304	ARJILLI RAJASEKHAR	x	$\checkmark$	V	× ,	
22417815A0306BONDALA HARISH KUMAR $\checkmark$	223	17815A0305	BALLA RAHUL		V			
22517815A0307CH BHAVANI $\checkmark$ <th< td=""><td>224</td><td>17815A0306</td><td>BONDALA HARISH KUMAR</td><td>V</td><td></td><td></td><td></td><td></td></th<>	224	17815A0306	BONDALA HARISH KUMAR	V				
22617815A0308CH YESWANTH DURGA CHELLA RAO $\checkmark$	225	17815A0307	CH BHAVANI	$\checkmark$	$\sim$			
CHELLA RAO       V	226	1791540209	CH YESWANTH DURGA					
227       17815A0310       VARAHA SATYA PRAKASH       ×	220	1/815A0308	CHELLA RAO	$\checkmark$	. 🗸	$\checkmark$	$\checkmark$	×
227       17815A0310       VARAHA SATYA PRAKASH       ×			CHINTAKAVALA VENKATA					
228     17815A0311     DAKARAPU DURGA PRASAD     ✓     ✓     ×     ×     ×       229     17815A0312     DANIMIREDDI ASHOK     ✓     ✓     ✓     ×     ✓       230     17815A0314     DUPPATLA VINAY     ×     ✓     ✓     ✓     ✓       231     17815A0315     GORLI PAWAN KUMAR     ✓     ✓     ✓     ✓     ✓       232     17815A0317     JAYACHANDRA NAVEEN     ✓     ✓     ✓     ✓     ✓       233     17815A0317     JAYACHANDRA NAVEEN     ✓     ✓     ✓     ✓     ✓       233     17815A0318     KADIYAM PRAVEEN KUMAR     ✓     ✓     ✓     ✓     ✓       234     17815A0320     KAMBAM BHASKAR REDDY     ×     ✓     ✓     ✓     ✓       235     17815A0321     KANDRAKOTA KRANTHI     ✓     ✓     ✓     ✓     ✓       236     17815A0322     KANDREGULA SURESH     ×     ×     ✓     ✓     ✓       238     17815A0324     KANNAM SATYA VENKATA     ✓     ✓     ✓     ✓     ✓       239     17815A0326     KARI VENKATESH     ✓     ✓     ✓     ✓     ✓       240     17815A0327     KINTADA VENKATESH     ×<	227	17815A0310		$\checkmark$	×	$\checkmark$	$\checkmark$	
229       17815A0312       DANIMIREDDI ASHOK       V <th< td=""><td></td><td></td><td>VARAHA SATTA PRARASH</td><td></td><td>A</td><td></td><td>v</td><td></td></th<>			VARAHA SATTA PRARASH		A		v	
229       17815A0312       DANIMIREDDI ASHOK       V <th< td=""><td>228</td><td>1781540311</td><td>DAKARAPI DURGA PRASAD</td><td>-</td><td></td><td></td><td></td><td></td></th<>	228	1781540311	DAKARAPI DURGA PRASAD	-				
230     17815A0314     DUPPATLA VINAY     N     V     V     V       231     17815A0315     GORLI PAWAN KUMAR     V     V     V     V       232     17815A0315     GORLI PAWAN KUMAR     V     V     V     V       232     17815A0317     JAYACHANDRA NAVEEN     V     V     V     V       233     17815A0317     JAYACHANDRA NAVEEN     V     V     V     V       233     17815A0318     KADIYAM PRAVEEN KUMAR     V     V     V     V       234     17815A0318     KAMBAM BHASKAR REDDY     N     V     V     V       235     17815A0320     KAMBAM BHASKAR REDDY     N     V     V     V       236     17815A0321     KANDRAKOTA KRANTHI     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA THANUJ     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA     V     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V     V				V	$\checkmark$	$\checkmark$	×	V
231       17815A0315       GORLI PAWAN KUMAR       V       V       V       V         232       17815A0317       JAYACHANDRA NAVEEN KUMAR       V       V       V       V       V         233       17815A0317       JAYACHANDRA NAVEEN KUMAR       V       V       V       V       V         233       17815A0318       KADIYAM PRAVEEN KUMAR       V       V       V       V         234       17815A0320       KAMBAM BHASKAR REDDY       X       V       V       V         235       17815A0321       KANDRAKOTA KRANTHI KUMAR       V       V       V       V         236       17815A0322       KANDRAKOTA KRANTHI KUMAR       V       V       V       V         237       17815A0323       KANDREGULA SURESH       V       V       V       V         238       17815A0324       KANNAM SATYA VENKATA SAI       V       V       V       V         239       17815A0326       KARRI VENKATESH       V       V       V       V       V         240       17815A0327       KINTADA VENK ATESH       V       V       V       V       V       V	229			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
231       17815A0315       GORLI PAWAN KUMAR       V       V       V       V         232       17815A0317       JAYACHANDRA NAVEEN KUMAR       V       V       V       V         233       17815A0317       JAYACHANDRA NAVEEN KUMAR       V       V       V       V         233       17815A0318       KADIYAM PRAVEEN KUMAR       V       V       V       V         234       17815A0320       KAMBAM BHASKAR REDDY       X       V       V       V         235       17815A0321       KANDRAKOTA KRANTHI KUMAR       V       V       V       V         236       17815A0322       KANDREGULA SURESH       V       V       V       V         237       17815A0323       KANDREGULA THANUJ       V       V       V       V         238       17815A0324       KANNAM SATYA VENKATA SAI       V       V       V       V         239       17815A0326       KARRI VENKATESH       V       V       V       V       V         240       17815A0327       KINTADA VENK ATESH       V       V       V       V       V	230		DUPPATLA VINAY		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
232       17815A0317       KUMAR       ✓       ✓       ×	231	17815A0315	GORLI PAWAN KUMAR	$\checkmark$	$\checkmark$	~	$\checkmark$	
KUMAR     V     V     V     V     X     V       233     17815A0318     KADIYAM PRAVEEN KUMAR     V     V     V     V       234     17815A0320     KAMBAM BHASKAR REDDY     X     V     V     V       235     17815A0321     KANDRAKOTA KRANTHI KUMAR     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA THANUJ     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA SAI     V     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V     V       240     17815A0327     KINTADA VENKATESH     X     V     V     V	232	17815A0317			5			
234     17815A0320     KAMBAM BHASKAR REDDY     V     V     V     V       235     17815A0321     KANDRAKOTA KRANTHI     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA SURESH     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V       240     17815A0327     KINTADA VENKATESH     V     V     V			KUMAR	$\checkmark$	$\checkmark$	$\checkmark$	$\times$	~
234     17815A0320     KAMBAM BHASKAR REDDY     V     V     V     V       235     17815A0321     KANDRAKOTA KRANTHI     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA SURESH     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V       240     17815A0327     KINTADA VENKATESH     V     V     V	233	17815A0318	KADIYAM PRAVEEN KIMAP		× *			
235     17815A0321     KANDRAKOTA KRANTHI KUMAR     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA THANUJ     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA SAI     V     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V     V				$\checkmark$	$\checkmark$	$\checkmark$	V	$\checkmark$
235     17815A0321     KANDRAKOTA KRANTHI KUMAR     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA THANUJ     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA SAI     V     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V     V	234	17815A0320	KAMBAM BHASKAR REDDV	~	D.	1		S
235       17815A0321       KUMAR       V       V       V       V         236       17815A0322       KANDREGULA SURESH       V       V       V       V         237       17815A0323       KANDREGULA THANUJ       V       V       V       V         238       17815A0324       KANNAM SATYA VENKATA       V       V       V       V         239       17815A0326       KARRI VENKATESH       V       V       V       V         240       17815A0327       KINTADA VENKATESH       V       V       V       V				P	$\checkmark$	V	V	$\checkmark$
KUMAR     V     V     V     V       236     17815A0322     KANDREGULA SURESH     V     V     V     V       237     17815A0323     KANDREGULA THANUJ     V     V     V     V       238     17815A0324     KANNAM SATYA VENKATA     V     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V     V       240     17815A0327     KINTADA VENKATESH     V     V     V     V	235	17815A0321		-				
237     17815A0323     KANDREGULA THANUJ     V     V     V       238     17815A0324     KANNAM SATYA VENKATA     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V       240     17815A0327     KINTADA VENKATESH     V     V     V				$\checkmark$	$\checkmark$	~	$\checkmark$	$\checkmark$
238     17815A0324     KANNAM SATYA VENKATA       239     17815A0326     KARRI VENKATESH       240     17815A0327     KINTADA VENKATESH				$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
238     17815A0324     KANNAM SATYA VENKATA SAI     V     V     V       239     17815A0326     KARRI VENKATESH     V     V     V       240     17815A0327     KINTADA VENKATESH     V     V     V	237	17815A0323		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	V
239         17815A0326         KARRI VENKATESH         V         V         V         V           240         17815A0327         KINTADA VENKATESH         V	238	17815A0324						
240 17815A0327 KINTADA VENKATESH X	220	1781540226			-	~		
$\sim$ $\sim$ $\sim$ $\sim$ $\sim$ $\sim$								V
	240	1/015A052/	INITADA VENKATESH	X	$\checkmark$	$\checkmark$	$\checkmark$	V

141       1701.5023       RONDA MANIKANTA       ×<	C III	1701540200	WONTH HADING TO AN C					V
243       17815A0330       KRISHNA BANDI       ✓       ✓       ✓       ✓         244       17815A0332       MAJII HEMA SATYA SAI       ✓       ✓       ✓       ✓         245       17815A0333       MALLA JAYA PRADEEP       ✓       ✓       ✓       ✓         246       17815A0333       MAMIDI SHYAM       ✓       ✓       ✓       ✓         246       17815A0335       MAMIDA SHYAM       ✓       ✓       ✓       ✓         247       17815A0335       MANGALAGIRI SHANMUKA       ✓       ✓       ✓       ✓         248       17815A0336       MARISETTI ARIVINDA MOULI       ✓       ✓       ✓       ✓         249       17815A0339       NAKKA APPALARAJU       ✓       ✓       ✓       ✓         250       17815A0340       NAKKA APPALARAJU       ✓       ✓       ✓       ✓         251       17815A0341       NELLURI SAI       Ç       ✓       ✓       ✓       ✓         252       17815A0342       PAILA JEEVAN KUMAR       ✓       ✓       ✓       ✓       ✓       ✓       ✓         253       17815A0343       PALIPIN GANESH       ✓       ✓       ✓       ✓				1			~	V
244       17815A0332       MAJII HEMA SATYA SAI       ✓				V	$\checkmark$	-		N
245         17815A0333         MALLA JAYA PRADEEP CHANDRA         V	243			$\checkmark$	$\checkmark$			/
245       17815A0333       CHANDRA       V       V       V       V       V         246       17815A0334       MAMGALAGIRI SHANMUKA       V       V       V       V         247       17815A0335       SURYA SAI       V       V       V       V         248       17815A0336       MARISETTI ARIVINDA MOULI       V       V       V       V         249       17815A0336       MARISETTI ARIVINDA MOULI       V       V       V       V         250       17815A0339       NAKKA APALARAJU       V       V       V       V         251       17815A0340       NAKKA APALARAJU       V       V       V       V         252       17815A0341       NELURI SAI       V       V       V       V         253       17815A0342       PAILA RIVENA       V       V       V       V         254       17815A0343       PALIPINI GANESH       V       V       V       V       V         255       17815A0347       PEDAPTI NAVEEN       V       V       V       V       V         255       17815A0348       PITTA KOTESWAR RAO       V       V       V       V       V       Z	244	17815A0332			~	V	$\checkmark$	
247         17815A0335         MANGALAGIRI SHANMUKA SURYA SAI         V	245	17815A0333		~	V	$\checkmark$	$\times$	V
247       17815A0335       SURYA SAI       V       V       V       V         248       17815A0336       MARISETTI ARIVINDA MOULI       V       V       V       V         249       17815A0336       MYLAVARAPU SUMANTH       V       V       V       V         250       17815A0338       MYLAVARAPU SUMANTH       V       V       V       V         251       17815A0340       NAKKA APALARAJU       V       V       V       V       V         251       17815A0340       NAKKA APALARAJU       V       V       V       V       V       V         252       17815A0340       NAKKA APALARAJU       V	246	17815A0334	MAMIDI SHYAM	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	V
249         17815A0338         MYLAVARAPU SUMANTH         ✓          253         1781	247	17815A0335		V	V	V	V	V
250       17815A0339       MAKKA APPALARAJU       V       V       V       V         250       17815A0339       NAKKA HARI KRISHNA       V       V       V       V         251       17815A0340       NAKKA HARI KRISHNA       V       V       V       V         252       17815A0340       NAKKA HARI KRISHNA       V       V       V       V         252       17815A0341       NELLURI SAI       S       V       V       V       V         253       17815A0342       PAILA JEEVAN KUMAR       V       V       V       V       V         254       17815A0343       PALIPINI GANESH       V       V       V       V       V       V         255       17815A0345       PAPU BALA GANAPATHY       V </td <td>248</td> <td>17815A0336</td> <td>MARISETTI ARIVINDA MOULI</td> <td><math>\checkmark</math></td> <td>×</td> <td><math>\checkmark</math></td> <td></td> <td></td>	248	17815A0336	MARISETTI ARIVINDA MOULI	$\checkmark$	×	$\checkmark$		
251       17815A0340       NAKKA HARI KRISHNA       ✓       ✓       ✓       ✓       ✓         252       17815A0340       NAKKA HARI KRISHNA       ✓       ✓       ✓       ✓       ✓       ✓         252       17815A0341       NELLURI SAI       ×       ✓	249	17815A0338	MYLAVARAPU SUMANTH	<ul> <li>✓</li> </ul>	×	V	$\checkmark$	$\checkmark$
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۵ COORDINATOR

HOD

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam - 531113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Approved by AICTE, Permanently Affiliated to JNT University Kakinada, ACCREDITED BY NAAC and Recognized under 2(f) &12 (b) by UGC, New Delhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

# **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Mrs		(	of	
	has part	icipated in the	Certificate Co	ourse entitled
on "Advancement in Manufacturing Tech	hnology'	' during from	23 <sup>rd</sup> October	2017 to 27 <sup>th</sup>
October 2017 in Department of Mechanical	Enginee	ring.		

Coordinator

HOD

Principal



(Approved by AICTE, Permanently Affiliated to JNT University Kakinada, ACCREDITED BY NAAC and Recognized under 2(f) &12 (b) by UGC, New Delhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

# DEPARTMENT OF MECHANICAL ENGINEERING

A 5-Day Workshop on

# Advancements in Manufacturing Technology

Dated on - 23rd October 2017 to 27th October 2017



COORDINATOR

HOD

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam-531113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY (Approved by AICTE, Permanently Affiliated to JNT University Kakinada, ACCREDITED BY NAAC and Recognized under 2(f) &12 (b) by UGC, New Delhi) Tamaram, Makavarapalem, Narsipatnam (RD), Visakhapatnam-531113

# **Department of Mechanical Engineering**

Dt: 29/10/2017

#### BRIEF REPORT

Department of Mechanical Engineering, Avanthi Institute of Engineering and Technology had organized a certificate course on "ADVANCEMENT IN MANUFACTURING TECHNOLOGY" from 23<sup>rd</sup> Oct 2017 to 27<sup>th</sup> Oct 2017

We had Mr. Santosh Kumar, Advanced & Product Planning Section Manager from NISSAN as the speaker gave a proper definition and explained the need for manufacturing process provide theoretical & practical knowledge, he extensively explained the plus points of this technology. One of the major advantage is easier, faster and more effective communication.

We had CH. Anil Kumar, Assistant Professor, Mechanical Engineering Department from LENDI College, He explained about Thermal & Strucatural finite element modelling of welded structure principles and additive manufacturing process. He gave the limitations Often large costs involved with using the latest technology (especially for small businesses) increased risk of job cut, They are generally used for Nano Technology, 3D printing.

We had S. Chaitanya, Assistant Manager from Wheels India, He discussed some of the topics during the course, the different types of Unconventional machining process Laser, Abrasive jet, Water jet. The Process of Advanced Forming/Welding Techniques also explained. He concluded the course with feature of utilised by mechanical engineer in industries.

Coordinator

Head of the Department

Head of the Department Department of Mechanical Engg. Avanthi Institute of Engg. & Tech., Makavarapalem, Visakhapatnam- 531113.