



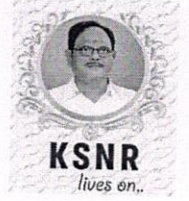
K.S.R.M. COLLEGE OF ENGINEERING

(UGC-AUTONOMOUS)

Kadapa, Andhra Pradesh, India- 516 003

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Lr./KSRMCE/ (Department of E.C.E)/2021-22/

Date: 02.03.2022

To

The Principal,
K.S.R.M.College of Engineering,
Kadapa.

Respected Sir,

Sub:KSRMCE - (Department of E.C.E) -Subject - Requested - Reg.conducting a Guest lecture for students.

It is being brought to your kind notice that, With reference to the cited, the department of Electronics & Communication Engineering would like to conduct a Guest lecture on "**5G Massive MIMO and Beam forming**" on **05-03-2022**. For this event Sri N. Pradeep, Senior Research Engineer, CDOT-Bangalore is acting as a resource person. The objective of this workshop is to introduce basics and recent developments in the field of 5G MIMO and Beam forming .As the coordinator, I would like to request your support and permission to conduct this event from 10:00 AM to 12:00 PM. The participants will be third year students of ECE and faculty.

Thanking you

*Forwarded to the
Principal Sir
G. D.*

Yours Faithfully

K. Pavan Kumar
Assistant Professor
Coordinator

Cc:

To All Deans /HoD's

*Permitted
U. S. S. Muly
02/03/2022*



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No./Circular/1.

Date: 02-03-2022

CIRCULAR

It is hereby informed that A Guest Lecture on “5G Massive MIMO and Beam forming” is going to be organized by department of ECE on 05-03-2022, from 10:00 AM to 12:00 PM.

In this connection, all the third year ECE students and faculty are hereby directed to attend the lecture without fail.

V. S. S. Mm/5
Principal 02/03/2022

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



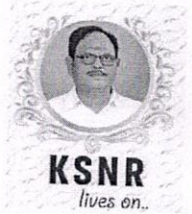
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Department of Electronics and Communication Engineering

A Guest Lecture
On

"5G Massive MIMO and Beam forming"

05th March, 2022

REPORT

Target Group : Faculty & Students

Details of Participants : 09 Faculty and 105 Students

Coordinator : K.Pavan Kumar, Assistant Professor, ECE Dept.,

Organizing Department: Electronics & Communication Engineering

Venue : SJ Seminar Hall

Resource person : Sri. Naru pradeep, Senior Research Engineer, CDoT., Bangalore.

Massive MIMO (multiple- input, multiple-output) technology has been a core component of 5G new radio. Comprised of several multi-antenna techniques, massive MIMO unlocks the full potential of new spectrum, delivering significant increase in network coverage, capacity and user throughput without the need for site densification. Communication service providers can use to boost spectral efficiency. Massive MIMO-which is an extension of MIMO- expands beyond the legacy systems by adding a much higher number of antennas on the base station. The Massive number of antennas helps focus energy, which brings drastic improvements in throughput and efficiency. Along with the increased number of antennas, both the network and mobile devices implement more complex designs to coordinate MIMO operations. These advancements are all aimed at achieving performance improvements needed to underpin the 5G experiences consumers expect in this new era. In this guest lecture the resource person explained 5G massive MIMO beam forming techniques.

List of the participants:

S. No.	Name of the student	Roll No.
1.	Y.Swetha	199Y1A04I4
2.	Y.Sunanda	199Y1A04I1
3.	M.Harika	199Y1A0492
4.	M.Sreevani	199Y1A0489
5.	S.Lakshmi prasanna	199Y1A04D1
6.	P.Geetha Reddy	199Y1A04C5
7.	K.Eeshitha Rachana	199Y1A0473
8.	M.V.Manisha	199Y1A0496
9.	P.Tulasi sree	199Y1A04C1
10.	S.Sai kumar reddy	199Y1A04D6
11.	S.Sudheer Reddy	199Y1A04D5
12.	K.Sai Krishna	199Y1A04D2
13.	S.Jeelan	199Y1A04E0
14.	S.Javeed	199Y1A04D9
15.	N.Brahmam	199Y1A04A8
16.	S.firoz	199Y1A04D7
17.	P.Vamsi	199Y1A04B5
18.	K.Venkatesh	199Y1A0479
19.	M.Gnaneshwar Reddy	199Y1A04A2
20.	P.Sai prajwal	199Y1A04C2
21.	K. Narayana	199Y1A0470
22.	K.Lakshmana	199Y1A0483

23.	M.Gangadhar	199Y1A0497
24.	P.Venkata Anjaneyulu	199Y1A04B4
25.	M.Subrahmanyam	199Y1A04A7
26.	R.Madhu Reddy	199Y1A04C9
27.	K.Anji	199Y1A0482
28.	K.Prakash	199Y1A0484
29.	M.Prakash Reddy	199Y1A0490
30.	M.Chandra Sekhar	199Y1A0495
31.	P.Kaushik	199Y1A04C4
32.	N.Sainath	199Y1A04B2
33.	P.Obulaiah	199Y1A04B7
34.	M.Gowtham	199Y1A0498
35.	K. Aravind Kumar	209Y5A0409
36.	S. Sudarshan	199Y1A04F0
37.	V. Yuvaraju	199Y1A04H4
38.	K. Mohan Vamsi	209Y5A0408
39.	G.Vijay kumar Yadav	209Y5A0405
40.	K.Manjunatha	209Y5A0407
41.	M.Venkata ramana	209Y5A0412
42.	T.Ramanjaneyulu	199Y1A04G1
43.	Y.Tarun kumar reddy	199Y5A04I8
44.	Y.Rajinikanth	199Y1A04I7
45.	T.Siva tulasidhar	199Y1A04G2
46.	Y.Vinay Kumar	199Y1A04H8

47.	V.Naresh	199Y1A04H6
48.	S.Vishnu vardhan Reddy	199Y1A04F5
49.	S.Santosh	199Y1A04F4
50.	S.Venkata naga Sai	199Y1A04F3
51.	V.Subha Reddy	199Y1A04G0
52.	Y.Obul Reddy	199Y1A04I3
53.	Y.C.Punith	199Y1A04I6
54.	V.Vishnu	199Y1A04H2
55.	M.Bharath	199Y1A04J0
56.	K. Sarath	199Y1A04H0
57.	Y.Vamsi Krishna	199Y1A04I0
58.	S.Musab Ahmadh	199Y1A04E6
59.	S.Yunoosh Hussain	199Y1A04E9
60.	S.Sameer Ahmad	199Y1A04F1
61.	S.Sadak Ali	199Y1A04E8
62.	SMD.Yaseen	199Y1A04E4
63.	V.Hemanth Sai Reddy	199Y1A04H3
64.	T.Akash Reddy	199Y1A04G5
65.	T.Naveen Kumar	199Y1A04G6
66.	S.Lakshmi Priya	199Y1A04F6
67.	Y.Pavani	199Y1A04I2
68.	P.Venkata Lakshmi	209Y5A0416
69.	M.Venkata Harika	209Y5A0413
70.	E.Neelavathi	209Y5A0402

71.	G.Manichandana	209Y5A0404
72.	S.Rummesa Kousar	199Y1A04E7
73.	V.Swetha	199Y1A04G9
74.	T.Sai Akila	199Y1A04G3
75.	T.Mounika	199Y1A04F9
76.	S.Nandini	199Y1A04F8
77.	Y.Sowmya Latha	199Y1A04H9
78.	Y.Bharathi	199Y1A0409
79.	U.Anuhya Bhai	199Y1A04G8
80.	M.Sravanthi	199Y1A04A6
81.	K.Sumithra	199Y1A0474
82.	P.Lingeshwari	199Y1A04C0
83.	N.Maneesha	199Y1A04B1
84.	M.Pavani	199Y1A04A0
85.	K.Archana	199Y1A0477
86.	Y.Aparna	199Y1A04I5
87.	R.Keerthana	199Y1A04C8
88.	N.Jyothika	199Y1A04B0
89.	R.Niharika	199Y1A04C7
90.	M.pranitha	199Y1A04A5
91.	P.Sumathi	199Y1A04B8
92.	M.Sudha Rani	199Y1A0493
93.	M.Ruchitha	199Y1A04A3
94.	K.Prashanthi	199Y1A0469

95.	G.Vishnuvardhan Naidu	199Y1A0449
96.	K.Janardhana	199Y1A0467
97.	G.Yeshwanth	199Y1A0450
98.	G.siva Kumar	199Y1A0443
99.	G.Upendra	199Y1A0440
100.	G.Prasanna Kumar	199Y1A0448
101.	D.Vikas	199Y1A0437
102.	G.Sharath	199Y1A0452
103.	SMD.Riyaz	199Y1A04E1
104.	M.venkata Ramana	209Y5A0412
105.	J.Anjali	199Y1A0455

Photos of the event:




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DEPARTMENT OF ECE

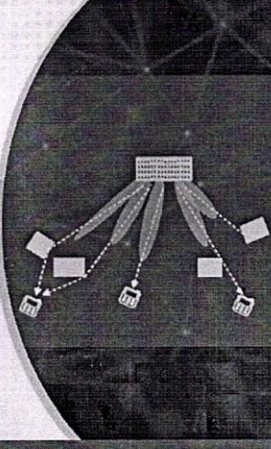
Guest Lecture on
“5G Massive MIMO and Beam forming”



05-03-2022
10:00 AM to 12:00 Noon



SJ-seminar hall



Coordinator & Organizer
K. Pavan Kumar,
Asst.Professor, ECE dept.
Resource Person
Sri.Naru.Pradeep,
Senior research engineer, CDoT,Bangalore


Dr. G. Hanumanth Rao (Principal)


Dr. V.S.S. Murthy (Managing Director)

Dr. Kandula Chandra Obal Reddy (Correspondent Secretary, Treasurer)

Smt. K.Rajeswari (Vice - Chairman)

Sri K. Madan Mohan Reddy (Chairman)




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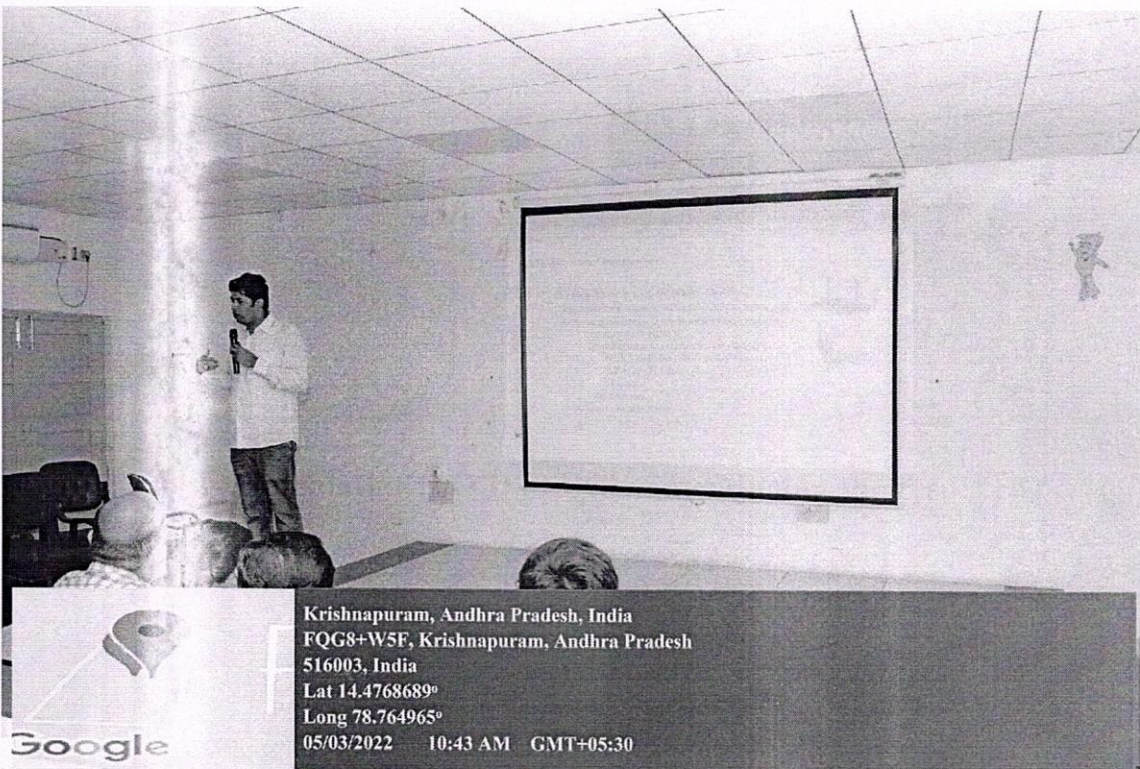


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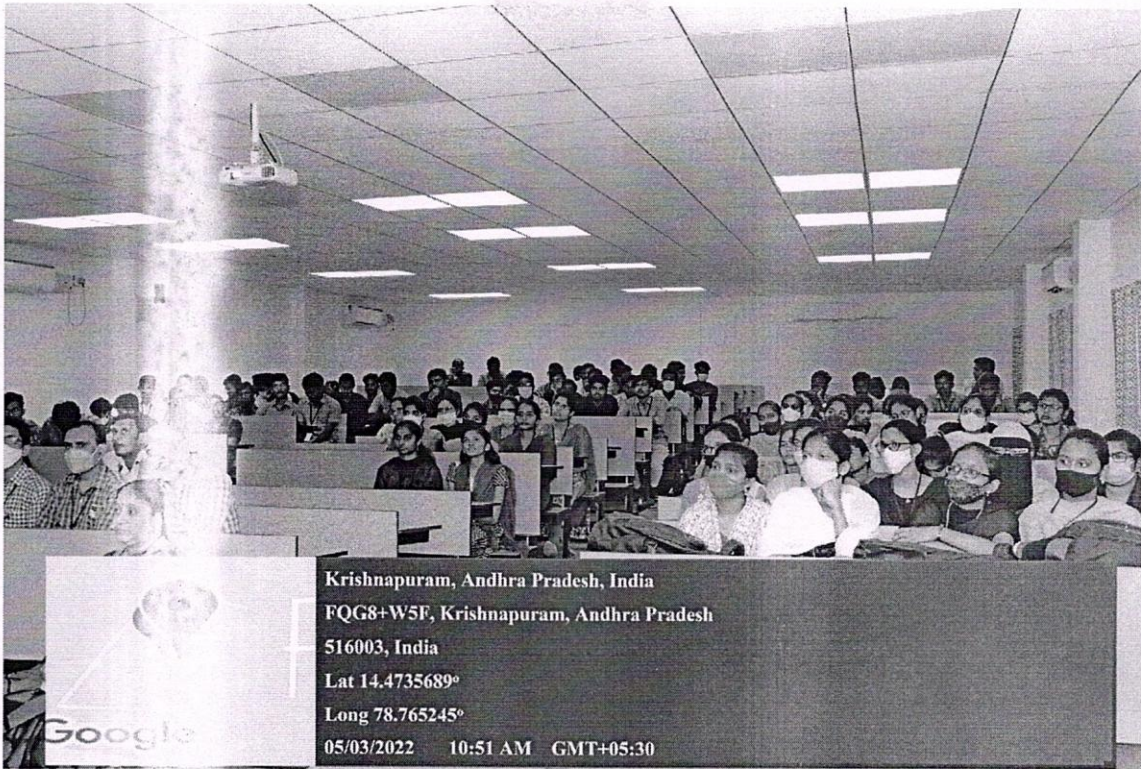
Fig (a):Poster of the Guest lecture



Fig(b): Prof.G.Hemalatha(H.O.D of ECE) introducing the resource person



Fig(c): Resouce person Sri.N.Pradeep giving lecture to audience



Fig(d): Audience listening to the Guest lecture

K.P.K.
Co-ordinator:
K.Pavan Kumar

H.O.D

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

S.No	Name of Student	Roll No	Email id	Signature
1.	Y. Swetha	19941A0414	19941A0414@ksrmce.ac.in	Y. Swetha
2.	Y. Sunanda	19941A0411	19941A0411@ksrmce.ac.in	Y. Sunanda
3.	M. Harika	19941A0492	19941A0492@ksrmce.ac.in	M. Harika
4.	M. Sreevani	19941A0489	19941A0489@ksrmce.ac.in	M. Sreevani
5.	S. Lakshmi prasanna	19941A04D1	19941A04D1@ksrmce.ac.in	S. Lakshmi prasanna
6.	P. Greetha Reddy	19941A04C5	19941A04C5@ksrmce.ac.in	P. Greetha Reddy
7.	K. Eeshitha Rachana	19941A0473	19941A0473@ksrmce.ac.in	Eeshitha Rachana
8.	M.V. Manisha	19941A0496	19941A0496@ksrmce.ac.in	M.V. Manisha
9.	P. Tulasi sree	19941A04C1	19941A04C1@ksrmce.ac.in	Tulasi sree
10.	S. Sai kumar reddy	19941A04D6	19941A04D6@ksrmce.ac.in	S. Sai kumar reddy
11.	S. Sudheer Reddy	19941A04D5	19941A04D5@ksrmce.ac.in	Sudheer Reddy
12.	K. Sai Krishna	19941A04D2	19941A04D2@ksrmce.ac.in	Saikrishna
13.	S. Jeevan	19941A04E0	19941A04E0@ksrmce.ac.in	Jeevan
14.	S. Javeed	19941A04D9	19941A04D9@ksrmce.ac.in	Javeed
15.	N. Baahman	19941A04A8	19941A04A8@ksrmce.ac.in	Baahman
16.	S. Firoz	19941A04D7	19941A04D7@ksrmce.ac.in	S. Firoz
17.	P. Vamsi	19941A04B5	19941A04B5@ksrmce.ac.in	Vamsi
18.	K. Venkatesh	19941A0479	19941A0479@ksrmce.ac.in	K. Venkatesh
19.	M. Gnaneshwar Reddy	19941A04A2	19941A04A2@ksrmce.ac.in	Gnaneshwar Reddy
20.	P. Sai prajwal	19941A04C2	19941A04C2@ksrmce.ac.in	Sai prajwal
21.	K. Narayana	19941A0470	19941A0470@ksrmce.ac.in	Narayana
22.	K. Lakshmana	19941A0483	19941A0483@ksrmce.ac.in	Lakshmana
23.	A. Udaykumar	19941A0497	19941A0497@ksrmce.ac.in	A. Udaykumar
24.	P. Venkatas Anjanayulu	19941A04B4	19941A04B4@ksrmce.ac.in	Anjanayulu
25.	M. Subramanyam	19941A04A7	19941A04A7@ksrmce.ac.in	Subramanyam
26.	R. Madhu Reddy	19941A04C9	19941A04C9@ksrmce.ac.in	R. Madhu Reddy
27.	K. Anji	19941A0482	19941A0482@ksrmce.ac.in	K. Anji
28.	K. Prakash	19941A0484	19941A0484@ksrmce.ac.in	K. Prakash
29.	M. Prakash Reddy	19941A0490	19941A0490@ksrmce.ac.in	M. Prakash Reddy
30.	M. Chandra Sekhar	19941A0495	19941A0495@ksrmce.ac.in	M. Chandra Sekhar
31.	P. Koushik	19941A04C4	19941A04C4@ksrmce.ac.in	P. Koushik
32.	N. Sainath	19941A04B2	19941A04B2@ksrmce.ac.in	N. Sainath
33.	P. Obuliah	19941A04B7	19941A04B7@ksrmce.ac.in	P. Obuliah
34.	M. Gowtham	19941A0498	19941A0498@ksrmce.ac.in	M. Gowtham
35.	K. Aravind Kumar	20945A0409	20945A0409@ksrmce.ac.in	K. Aravind Kumar
36.	S. Sudharsan	19941A04E0	19941A04E0@ksrmce.ac.in	Sudharsan
37.	Y.V. Yuvavajju	19941A04H4	19941A04H4@ksrmce.ac.in	Yuvavajju
38.	K. Mohanvamsi	20945A0408	20945A0408@ksrmce.ac.in	K. Mohanvamsi

S.No	Name of Student	Roll No	Email id	Signature
01	V. Nares h	199Y1A04H6	199Y1A04H6@ksrmce.ac.in	V. Nares h
02	S. vishnu vardhan reddy	199Y1A04F5	199Y1A04F5@ksrmce.ac.in	S. vishnu
03	S. Santhosh	199Y1A04F4	199Y1A04F4@ksrmce.ac.in	Santhosh
04	S. Venkata raga sai	199Y1A04F3	199Y1A04F3@ksrmce.ac.in	S. Venkata raga
05	V. Subha Reddy	199Y1A04G0	199Y1A04G0@ksrmce.ac.in	V. Subha Reddy
06	Y. Akul Reddy	199Y1A04F3	199Y1A04F3@ksrmce.ac.in	Y. Akul Reddy
07	Y. C. Punith	199Y1A04G6	199Y1A04G6@ksrmce.ac.in	Y. C. Punith
8	V. Vishnu	199Y1A04G6	199Y1A04G6@ksrmce.ac.in	V. Vishnu
9	M. Bhavath	199Y1A04J0	199Y1A04J0@ksrmce.ac.in	M. Bhavath
10	K. Sarath	199Y1A04H0	199Y1A04H0@ksrmce.ac.in	K. Sarath
11	Y. Vamsi Krishna	199Y1A04I0	199Y1A04I0@ksrmce.ac.in	Y. Vamsi Krishna
12	S. M. G. Sab Ahnab	199Y1A04E6	199Y1A04E6@ksrmce.ac.in	S. M. G. Sab Ahnab
13	S. YUNOOSH HUSSAIN	199Y1A04E9	199Y1A04E9@ksrmce.ac.in	S. YUNOOSH HUSSAIN
14	G. Vijay Kumar	209Y5A0405	209Y5A0405@ksrmce.ac.in	G. Vijay Kumar
15	K. Manjunadha	209Y5A0407	209Y5A0407@ksrmce.ac.in	K. Manjunadha
16	M. Venkata Ramana	209Y5A0412	209Y5A0412@ksrmce.ac.in	M. Venkata Ramana
17	T. Ramanjaneyulu	199Y1A04G1	199Y1A04G1@ksrmce.ac.in	T. Ramanjaneyulu
18	Y. Tharun Kumar	199Y1A0418	199Y1A0418@ksrmce.ac.in	Y. Tharun Kumar
19	S. Sameer Ahmad	199Y1A04F1	199Y1A04F1@ksrmce.ac.in	S. Sameer Ahmad
20	S. Sadah Ali	199Y1A04E8	199Y1A04E8@ksrmce.ac.in	S. Sadah Ali
21	T. Siva Thylasidhar	199Y1A04G2	199Y1A04G2@ksrmce.ac.in	T. Siva Thylasidhar
22	Y. Vinay Kumar	199Y1A04H8	199Y1A04H8@ksrmce.ac.in	Y. Vinay Kumar
23	Y. Rajini Kanth	199Y1A04I7	199Y1A04I7@ksrmce.ac.in	Y. Rajini Kanth
24	S. M. D. Yasser	199Y1A04E4	199Y1A04E4@ksrmce.ac.in	S. M. D. Yasser
25	V. Hemanth Sai Reddy	199Y1A04H3	199Y1A04H3@ksrmce.ac.in	V. Hemanth Sai Reddy
26	M. Venkata Hanika	209Y5A0413	209Y5A0413@ksrmce.ac.in	M. Venkata Hanika
27	T. Akash Reddy	199Y1A04G5	199Y1A04G5@ksrmce.ac.in	T. Akash Reddy
28	Y. Pavani	199Y1A04I2	199Y1A04I2@ksrmce.ac.in	Y. Pavani
29	P. Venkata Lakshmi	209Y5A0416	209Y5A0416@ksrmce.ac.in	P. Venkata Lakshmi
30	E. Neelavathi	209Y5A0402	209Y5A0402@ksrmce.ac.in	E. Neelavathi
31	S. Lakshmi Priya	199Y1A04F6	199Y1A04F6@ksrmce.ac.in	S. Lakshmi Priya
32	T. Naveen Kumar	199Y1A04G6	199Y1A04G6@ksrmce.ac.in	T. Naveen Kumar
33	G. Vishnuvardannaidu	199Y1A0449	199Y1A0449@ksrmce.ac.in	G. Vishnuvardannaidu
34	K. Janardhana	199Y1A0467	199Y1A0467@ksrmce.ac.in	K. Janardhana
35	G. Sharath	199Y1A0452	199Y1A0452@ksrmce.ac.in	G. Sharath
36	P. Vikash	199Y1A0427	199Y1A0427@ksrmce.ac.in	P. Vikash
37	J. Anjali	199Y1A0455	199Y1A0455@ksrmce.ac.in	J. Anjali
38	S.M.D. Riyaz	199Y1A04E1	199Y1A04E1@ksrmce.ac.in	S.M.D. Riyaz

