## Methodist College of Engineering and Technology Department of Electrical and Electronics Engineering

Academic Year: 2020-21 Annual Report Date of Submission: 7 March 2022

HOD-EEE: Mrs. Y. Mastanamma

No. of faculty members: 12 (1 Professor + 2 Associate Professors + 9 Assistant Professors)

No. of Lab Assistants: 03

## I. List of Patents by Faculty and Students:

AVIDYUTA DVICHAKRAVAHANA	Sl. No.	Name of the Faculty	Title of the Working models / Products		Academic	Remarks
Mr. J. Ramesh Babu Mr. J. Ramesh Babu Mr. S. Y. Mastanamma & Students  2. Dr. Raghu Chandra Garimella Mr. J. Ramesh Babu & Students  4. Dr. Raghu Chandra Garimella Mr. J. Ramesh Babu & Students Mr. J. Ramesh Babu & Students  5. Dr. Raghu Chandra Garimella Mr. J. Ramesh Babu & Students Mr. J. Ramesh Babu & Students  5. Dr. Raghu Chandra Garimella Mr. J. Ramesh Babu & Students  5. Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y Mastanamma Mr. J. Ramesh Babu & Students Mr. J. Ramesh Babu & Students Mr. J. Ramesh Babu & Students  5. Dr. Raghu Chandra Garimella Namburi Nireekshan  Bitti Astita Nagarata Nistantri Samvidha - A Wall Mounted Smart Wiring System  Granted)  Mr. J. Ramesh Babu & Students  Unnamed Aerial Vehicle (Uav) Based Sanitizing System  T. Dr. Raghu Chandra Garimella Nawarnadh Satapathi Mrs. Y Mavareed Electric Extension Box  Mr. J. RajiniKanth  ParjiniKanth  P. RajiniKanth  P. Ra				(if any)	Year	
Mrs. Y.Mastanamma & Students   VIDYUTHA TRAYA CHAKRA   INDIAN   CYCLE	1.	Dr. Raghu Chandra Garimella	AVIDYUTA DVICHAKRAVAHANA –	INDIAN		_
2. Dr. Raghu Chandra Garimella   VIDYUTHA TRAYA CHAKRA   VAHANA - A HYBRID ELECTRICAL   CyCLE		Mr. J. Ramesh Babu	AN ELECTRIC BICYCLE	(Published)		
Wr. J. Ramesh Babu   WAHANA - A HYBRID ELECTRICAL CYCLE   (published)   2021-22		Mrs. Y.Mastanamma & Students				
Mr. J. Ramesh Babu   CYCLE   STORE   Mrs. Y. Mastanamma & Students   ABHIGNA VIDYUT SAMPUTAH- A   INDIAN   (Published)   Awaiting Examination   Awaiting Exami	2.	Dr. Raghu Chandra Garimella	VIDYUTHA TRAYA CHAKRA	INDIAN		-
Mrs. Y.Mastanamma & Students   ABHIGNA VIDYUT SAMPUTAH- A   INDIAN (Published)   Awaiting Examination		Ma I Domoch Dohy		(published)	2021 22	
ABHIGNA VIDYUT SAMPUTAH-A SMART ELECTRIC EXTENSION BOX   AUSTRALIAN (Published)		Mr. J. Kamesh Babu	CYCLE		2021-22	
Mrs. Y. Mastanamma   Mr. J. Ramesh Babu & Students		Mrs. Y.Mastanamma & Students				
Mrs. Y.Mastanamma   Mr. J.Ramesh Babu & Students	3.	Dr. Raghu Chandra Garimella	ABHIGNA VIDYUT SAMPUTAH- A	INDIAN	1	Awaiting Examination
Mr. J.Ramesh Babu & Students		M 37M	SMART ELECTRIC EXTENSION BOX	(Published)		
4. Dr. Raghu Chandra Garimella Mrs. Y.Mastanamma Mr. J.Ramesh Babu& Students  5. Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  6. Dr. Raghu Chandra Garimella Namburi Nireekshan  7. Dr. Raghu Chandra Garimella Namburi Nireekshan  7. Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  8. Dr. Raghu Chandra Garimella Nariburi Nireekshan  8. Dr. Raghu Chandra Garimella P. RajiniKanth  9. Dr. Raghu Chandra Garimella Nariburi Nireekshan  10. Dr. Raghu Chandra Garimella P. RajiniKanth  10. Dr. Raghu Chandra Garimella P. RajiniKanth  10. Dr. Raghu Chandra Garimella P. RajiniKanth  10. Dr. Raghu Chandra Garimella Students  10. Dr. Raghu Chandra Garimella Stude						
BOX   (Filed)	4		A SMART ELECTRIC EXTENSION	AUSTRALIAN	1	_
Mrs. Y.Mastanamma   Mr. J.Ramesh Babu& Students	7.	Dr. Ragnu Chandra Garinicha				
S. Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma						
Swarnadh Satapathi Mrs. Y mastanamma  Samvidha - A Wall Mounted Smart Wiring System  Or. Raghu Chandra Garimella Namburi Nireekshan  Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  Or. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  Or. Raghu Chandra Garimella  Namburi Nireekshan  Dr. Raghu Chandra Garimella  Namburi Nireekshan  Or. Raghu Chandra Garimella  Or. Autolica						
mastanamma   SainVidna - A Wali Mounted   Smart Wiring System   Australian   Mamburi Nireekshan   Based Sanitizing System   Dr. Raghu Chandra Garimella   Namburi Nireekshan   Based Sanitizing System   Mattalian   Mattali	5.					
Smart Wiring System		=	Samvidha - A Wall Mounted	(Granted)		
Control   Cont			Smart Wiring System			
Namburi Nireekshan   Based Sanitizing System   (Granted)	6	Dr. Raghu Chandra Garimella	Unnamed Assist Valida (Usv.)	Australian		
7. Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  8. Dr. Raghu Chandra Garimella  9. Dr. Raghu Chandra Garimella  PUNARUPAYOGA DHANDA DIPA VYAVASTHA – A SYSTEM THAT ILLUMINATES FAILED FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST  10. Dr. Raghu Chandra Garimella  Dr. Raghu Chandra Garimella  PUNARUPAYOGA DISPENSER  Students  Dr. Raghu Chandra Garimella  PUNARUPAYOGA DISPENSER  FAILED FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST  Indian  Australian (Granted)  Australian (Published)  Australian (Published)  Australian (Granted)  Australian (Published)  Dr. Raghu Chandra Garimella  PUNARUPAYOGA DHANDA DIPA Australian (Granted)  Tube Light Without A CHOKE OR BALLAST  Indian  Amended	0.					
7. Dr. Raghu Chandra Garimella Nane Swarnadh Satapathi Mrs. Y mastanamma  8. Dr. Raghu Chandra Garimella  8. Dr. Raghu Chandra Garimella  9. Dr. Raghu Chandra Garimella  10. Dr. Raghu Chandra Garimella  11. Dr. Raghu Chandra Garimella  12. Dr. Australian  13. Dr. Huttic			Based Sanitizing System	(Granica)		h.do?queryString=2021106
Swarnadh Satapathi Mrs. Y mastanamma  Advanced Electric Extension Box  By a trip a construction of the properties of the						
Swarnadh Satapathi Mrs. Y mastanamma  Advanced Electric Extension Box  By analyse (Granted)  Advanced Electric Extension Box  Wireless Monitoring of PV Module Characteristics  P. RajiniKanth  Module Characteristics  P. RajiniKanth  Bulluminates Failed Fluorescent Tube Light Without a Choke or Ballast Students  Flowing Patenty  Australian (Granted)  Awaiting Examination  Amended  Amended	7.		Parinata Vidyut Samyutanam- An	Australian		http://pericles.ipaustralia.go
8. Dr. Raghu Chandra Garimella WIRELESS MONITORING OF PV MODULE CHARACTERISTICS (Published)  9. Dr. Raghu Chandra Garimella PUNARUPAYOGA DHANDA DIPA Australian (Granted)  P. RajiniKanth (Granted)  Dr. Raghu Chandra Garimella VYAVASTHA – A SYSTEM THAT (Granted)  P. RajiniKanth (Granted)  Dr. Raghu Chandra Garimella ELIGHT WITHOUT A CHOKE OR BALLAST  Dr. Raghu Chandra Garimella (Dr. Raghu Chandra Garimella)  Dr. Raghu Chandra Garimella (Dr. Raghu Chandra Garimella)  ELECTRONIC LIQUID DISPENSER (Dr. Raghu Chandra Garimella)		-		(Granted)		v.au/ols/auspat/quickSearch
8. Dr. Raghu Chandra Garimella  WIRELESS MONITORING OF PV MODULE CHARACTERISTICS  P. RajiniKanth  Dr. Raghu Chandra Garimella  PUNARUPAYOGA DHANDA DIPA VYAVASTHA – A SYSTEM THAT ILLUMINATES FAILED FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST  Dr. Raghu Chandra Garimella& Students  ELECTRONIC LIQUID DISPENSER  Consist Patron		mastanamma				.do?queryString=20211047
MODULE CHARACTERISTICS P. RajiniKanth P. RajiniKant						
P. RajiniKanth  ILLUMINATES  FAILED  FLUORESCENT  TUBE  LIGHT  WITHOUT A CHOKE OR BALLAST  P. RajiniKanth  Indian  Amended  Francticus  Amended  Francticus	8.	Dr. Raghu Chandra Garimella				
9. Dr. Raghu Chandra Garimella PUNARUPAYOGA DHANDA DIPA VYAVASTHA - A SYSTEM THAT P. RajiniKanth P. RajiniKanth P. RajiniKanth P. RajiniKanth ULUMINATES FAILED FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST  10. Dr. Raghu Chandra Garimella& Students  ELECTRONIC LIQUID DISPENSER  Requirements  System That (Granted)  Awaiting Examination  Amended  Amended		P. RajiniKanth	MODULE CHARACTERISTICS	(Published)		
9. Dr. Raghu Chandra Garimella PUNARUPAYOGA DHANDA DIPA VYAVASTHA – A SYSTEM THAT P. RajiniKanth ILLUMINATES FAILED FLUORESCENT WITHOUT A CHOKE OR BALLAST  10. Dr. Raghu Chandra Garimella& Students  ELECTRONIC LIQUID DISPENSER  Awaiting Examination Awaiting Examination  Awaiting Examination  Amended		1 . KajiiiiKaitti				
P. RajiniKanth  VYAVASTHA – A SYSTEM THAT (Granted)  ILLUMINATES FAILED  FLUORESCENT TUBE LIGHT  WITHOUT A CHOKE OR BALLAST  10. Dr. Raghu Chandra Garimella&  Students  ELECTRONIC LIQUID DISPENSER  (Design Patent)	0	Dr. Bachy Chandra Carimalla		Australian	-	
P. RajiniKanth  ILLUMINATES FAILED FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST  10. Dr. Raghu Chandra Garimella& Students  ELECTRONIC LIQUID DISPENSER  (Design Patent)	J.	Di. Kagnu Chandra Gariniena				Awalung Examination
FLUORESCENT TUBE LIGHT WITHOUT A CHOKE OR BALLAST  10. Dr. Raghu Chandra Garimella& Students  ELECTRONIC LIQUID DISPENSER  (Design Peters)		P. RajiniKanth		(Granica)		
WITHOUT A CHOKE OR BALLAST   10. Dr. Raghu Chandra Garimella&   ELECTRONIC   LIQUID   DISPENSER   Indian   Amended   Students   Chair Patent   Chair Paten						
Students ELECTRONIC LIQUID DISPENSER (Design Petert)						
Students (Design Petert) Francticus	10.	Dr. Raghu Chandra Garimella&	FIECTRONIC LIQUID DISDENSED	Indian		Amended
WITH TEMPERATURE DETECTOR   Cooling   Landing   Examination		Students	,	(Design Patent)		Examination
			WITH TEMPERATURE DETECTOR	(2001gii i atolit)		

11.	Dr. Raghu Chandra Garimella	REMOTE CONTROLLED AIR VEHICLE BASED SANITIZING			Awaiting Examination
	NamburiNireekshana	SYSTEM WITH PAYLOAD CARRIER		2020-21	
	Jarapala Ramesh Babu & Students				
12.	Dr. Raghu Chandra Garimella &	SENSOR OPERATED AUTOMATIC	Australian		https://patents.google.com/
	Students	POTION (S.O.A.P.) DISPENSER	(Granted)		patent/AU2020102940A4/e
					n?oq=AU2020102940A4
13.	Dr. Raghu Chandra Garimella &	DRONEBOT – A HEXACOPTER	Australian		https://patents.google.com/
	Students	BASED PERSONAL ASSISTANT	(Granted)		patent/AU2020102662A4/e
					n?oq=AU2020102662A4
14.	Dr. Raghu Chandra Garimella	MICROCONTROLLER BASED	Indian		Amended
	Dr. Prabhu G. Benakop	INFINITESIMAL NEUTRALIZED	(Published)		Examination
	N. Nireekshan	INFECTIOUS CIDE (M.I.N.I. CIDE)			
	J. Ramesh Babu & Students				
15.	Dr. Raghu Chandra Garimella	Portable Hybrid Power Bank	Australian		https://patents.google.com/
	Bhavani Shankar T.		Patent		patent/AU2020100836A4/e
	Raghavendra Nayak Khethavath		(Granted)		<u>n?oq=AU2020100836A4</u>
16.	Dr. Raghu Chandra Garimella	Solar Powered Hybrid Energy	Indian Patent		https://ipindiaservices.gov.i
	Bhavani Shankar T.	Bank	(Granted)		n/PatentSearch/PatentSearc
	Raghavendra Nayak Khethavath	Duin			<u>h/ViewPDF</u>

#### **II.** Activities/Events/ Placements related to EEE Students:

## 1. Total number of workshops / programs conducted by the department during the academic Year 2020-21.

S.No.	Title of the Program	Date(s) conducted	Students group	No. of Participants	Sponsored by institute/self	Benefit to the students
1	WEBINAR ON RENEWABLE ENERGY SOURCES USING MATLAB	28-05-2020	ALL EEE students	92	ONLINE MODE	YES
2	RENEWABLE ENERGY SCENARIO IN INDIA	30-05-2020	ALL EEE students	110	ONLINE MODE	YES
3	INDIA-THE RISE OF ELECTRIC VECHICLES	25-05-2021	ALL EEE students	120	ONLINE MODE	YES

## 3. Training and Placements details (during Academic Year 2020-2021):

S. No.	Organization name	Total
1	HCL	6

## 4. Real Time Projects by the Department:

Many of the projects are of Real time, students with their interest and enthusiasm have done many projects. List of projects is given below

- 1) MICROCONTROLLER BASED UV GERMICIDE
- 2) ELECTRIC TRICYCLE
- 3) SOLAR BASED ELECTRIC VEHICLE WITH ULTRA SONIC SENSOR AND LDR
- 4) ELECTRIC KART
- 5) SMART HYBRID SOLAR HELMET
- 6) A NOVAL TYPE OF MULTI-FUNCTIONAL 6 PROPELLER AERIAL VEHICLE
- 7) HAND MOVEMENT BASED HOME APPLIANCES CONTROL SYSTEM USING MEMS SENSOR
- 8) HOME AUTOMATION WITH SOLAR TRACKING SYSTEM
- 9) SCROLLING DIGITAL ALARM DISPLAY FOR SWITCH YARD/POWER HOUSE USING BLUETOOTH
- 10) VOICE CONTROLLED AUTOMATIC DUSTBIN
- 11) ULTRASONIC BRAKING BASED SOLAR VEHICLE WITH LIGHT DEPENDENT RESISTOR
- 12) SOLAR GROSS CUTTER
- 13) VEHICLE TRACKING SYSTEM USING GPS &GSM
- 14) REMOTE CONTROLLED AIR VEHICLE BASED SANITIZING SYSTEM WITH PAY LOAD CARRIE

#### 5. Result Analysis during last Academic Year i.e., 2020-2021, I Sem & II Sem:

#### Semester-I

Sl. No.	Semester	Appeared	Passed	Fail	Pass%
1	III Sem	57	35	22	61.4
2	V Sem	70	47	23	67.14

#### Semester-II

Sl. No.	Semester	Appeared	Passed	Fail	Pass%
1	IV Sem	57	36	21	63.15
2	VI Sem	70	52	18	74.28
3	VIII Sem	61	58	03	95.08

## **II. Faculty Activities:**

# 1. Details of the Seminars/ Conferences / Workshops /Refresher Courses / Orientation Courses/ FDPs attended during the academic year 2020-21

Sl. No.	Name of the Faculty	Name of the FDP	Organized by	Date(s) and Duration
1.	A. Archana	MOODLE Learning Management System	JNTU COLLEGE OF ENGINEERING SULTANPUR AND SPOKEN TUTORIAL PROJECT, IIT BOMBAY	10-15 June 2020 and one week
2.	A. Archana	Technological Advances in Power Switching Converters for Renewable Sources and Fuel Cell Technology for E-vehicles	BAPATLA ENGINEERING COLLEGE	01-06-2020 to 05-06- 2020 and 5 days
3.	N. Nireekshan	Recent trends in renewable energy sources and their integration to smart grid	ST. PETER'S ENGINEERING COLLEGE	23.11.2020 to 28.11.2020
4.	N. Nireekshan	Recent advances in electrical engineering (raee-2020)	VEMU INSTITUTE OF TECHNOLOGY	03-06-2020 to 07-06-2020
5.	N. Nireekshan	Advances and Challenges In Industrial Automation, E-vehicles, Product and Process Controls Manufacturing in Electrical and Electronics Engineering	QIS COLLEGE OF ENGINEERING AND TECHNOLOGY	3.06.2020 to 7.06.2020.
6.	N. Nireekshan	Recent Trends in Power Systems	SHARAD INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING YADRAV	22nd June 2020 to 26th June 2020

7.	N. Nireekshan	Recent Strategies on	GMR INSTITUTE OF	June 15 - 19,
		Micro- and Smart-Grid	TECHNOLOGY, RAJAM	2020
		Tachnologies		
		Technologies		
8.	N. Nireekshan	Technological Advances	BAPATLA	01-06-2020
		in Power	ENGINEERING COLLEGE,	to
		Switching Converters for	BAPATLA	
		Renewable Energy		05-06-2020
		Sources and Fuel Cell		
		Technology for E-vehicles		
0	NI NI last	I. 4	DVDIT HVD	15 <sup>TH</sup> TO
9.	N. Nireekshan	Industrial relevance of electrical engineering	BVRIT HYD	$20^{\text{TH}}$ JUNE
		ciccincar engineering		2020
10.	N. Nireekshan	Electric power grid	KITS, GUNTUR	09/06/2020
		modernization trends,		to
		Challenges and		12/05/2020
		opportunities		13/06/2020.
11.	Rajini Kanth P.	One week FDP on	SHARAD INSTITUTE IF	22 <sup>nd</sup> to 26 <sup>th</sup>
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	"Recent trends in Power	TECHNOLOGY,	June, 2020
		systems"	MAHARASHTRA	
12.	Rajini Kanth P.	Effective role of teachers in	Geethanjali Institute of	6th June
12.	Rajiiii Raiiai I .	enhancing standards of	science and technology.	2020
		technical education		
13.	Rajini Kanth P.	Research challenges and	Vignan's Nirula Institute of	10th to 15th
13.	Kajim Kanui i .	application of	technology and science	Aug 2020
		computational tools in	<i>σ,</i>	
		electrical engineering		
14.	Rajini Kanth P.	Energy Engineering	AICTE ATAL	21st to 25th
				Sep 2020
15.	Rajini Kanth P.	Recent trends in renewable	St.Peter's Engineering college	23rd to 28 th
		energy sources and their		Nov 2020
		integration to smart grid		
16.	Rajini Kanth P.	Power system dynamics,	NPTEL-AICTE	Jan to April
		control and monitoring		2021 (12
				weeks)

	T			1
17.	Rajini Kanth P.	Industrial training in data	NSIC hyderabad	1st July to
		science using python		15th July
				2021
18.	Rajini Kanth P.	Online Certification course	NPTEL, IIT Roorkee	12 Weeks
	3	"Computer Aided Power		
		System Analysis		
19.	Rajini Kanth P.	Online Certification course	NPTEL, IIT Roorkee	12 Weeks
19.	Kajini Kanui I .	"Fundamentals Of Artificial	NY TEE, III NOOTKEE	12 WEEKS
		Intelligence"		
		intelligence		
20.	Rajini Kanth P.	Online Certification course	NPTEL, IIT Roorkee	12 Weeks
		"Power System Dynamics,		
		Control and Monitoring"		
21.	Y. Mastanamma	A Five Day Faculty	MAHAVEER INSTITUTE	10.08.2020 to
		Development Programme	OF SCIENCE AND	14.08.2020
		on "Novel Technologies in	TECHNOLOGY,	
		Electrical Engineering	HYDERABAD	
22.	Y. Mastanamma	A Five Day Faculty	VISHNU INSTITUTE OF	08.06.2020 to
		Development Programme	TECHNOLOGY,	12.6.2020
		on "Recent Trends in	BHIMAVARAM	
		Electrical Engineering		
23.	Y. Mastanamma	Introduction to web	SPOORTHY	17th to 19th
		development	ENGINEERING COLLEGE	July 2020
			,HYD.	
24.	Y. Mastanamma	National Level webinar on	Institute of Academic	27 th to 31
		Current trends in research &	excellence,Hyderabad &	August 2021
		innovation, research paper	CETED, Telangana State	(1 week)
		publications, IPR and		
		patents, research projects		
		fundraising for faculty of		
		HEI		
25.	V. Saketha	One week FDP on	SHARAD INSTITUTE IF	22 <sup>nd</sup> to 26 <sup>th</sup>
		"Recent trends in Power	TECHNOLOGY,	June, 2020
		systems"	MAHARASHTRA	
1	1			

26.	K. Pulla Reddy	Technological Advances in Power  Switching Converters for Renewable Energy Sources and Fuel Cell  Technology for E-vehicles	BAPATLA ENGINEERING COLLEGE	01-06-2020 to 05-06- 2020
27.	K. Pulla Reddy	Recent Challenges and Emerging Techniques on Microgrid	DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING,G.NARAYA NAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE (FOR WOMEN)	16th to 20th June 2020 with a score of 65%
28.	K. Pulla Reddy	Reliability and its Applications to Power systems and Drives	University college of Engineering,Osmania university,Hyderabad	26th to 27th June ,2020
29.	K. Pulla Reddy	Recent Trends in management	GATES INSTITUTE OF TECHNOLOGY,ANANTAP UR	13-7-2020 to 19-07-2020
30.	K. Pulla Reddy	Latest Trends on Solar CELL Technology	HYDERABAD INSTITUTE OF ELECTRICAL ENGINEERS	6th June 2021
31.	K. Pulla Reddy	Challenges And Advanced Trends In Micro Grid And Smart Grid	Stanley College of Engineering & Technology for Women,Hyderabad	30-8-2021 to 3-09-2021
32.	A. Archana	"Fundamentals of Geographic Information System"	METHODIST College of Engineering and Technology	06-June- 2020/ 1 Day
33.	A. Archana	Now and Future: Climate Change and Food Systems	METHODIST College of Engineering and Technology	06-June- 2020/ 1 Day
34.	A. Archana	"Intellectual Property Rights and Patents	Vaageswari College of Engineering	16-June- 2020/ 1 Day
35.	A. Archana	Grid connection of Renewable Energy Generation- Challenges and Solutions	Nalla Narasimha Reddy Education Society's Group of Institutions	15.7.2020/ 1 Day
36.	CVR Sriilalit Narayana	Electrical Engineering in Industry	Bharat Institute of Engineering and Technology	25 <sup>th</sup> ,27 <sup>th</sup> and 29 <sup>th</sup> June 2020 3 days

37.	CVR Sriilalit Narayana	Research Opportunities in Electrical Engineering	Tirumala Engineering College	1 <sup>st</sup> June to 5 <sup>th</sup> June 2020 6 days
38.	CVR Sriilalit Narayana	Outcome Based Education	University college of Engineering, Hyderabad	12 th to 14 <sup>th</sup> August 2020 3 days
39.	CVR Sriilalit Narayana	Recent Trends in Electrical Engineering	Vishnu Institute of Technology	8 <sup>th</sup> to 12 <sup>th</sup> June 5 days
40.	CVR Sriilalit Narayana	Recent Trend sin Power Systems	Sharad Institute of Technology	22 June to 26 <sup>th</sup> June 2020 5 days
41.	CVR Sriilalit Narayana	Technological Advances in Power switching converters	Bapatla Engineering College	1 <sup>st</sup> June to 6 <sup>th</sup> June 2020 6 days
42.	CVR Sriilalit Narayana	Workshop on MATLAB and SIMULINK	New Horizon College of Engineering	1 <sup>st</sup> Sept to 4 <sup>th</sup> Sept 2020 4days
43.	CVR Sriilalit Narayana	Crypto Currencies and Block Chain	Chalapathi Institute of Engineering and Technology	19 <sup>th</sup> Aug 2020
44.	CVR Sriilalit Narayana	Recent Development s in Nano Structured Metals	IFERP	25 OCT 2020
45.	CVR Sriilalit Narayana	Transformation of Business Operations in Industry	IFERP	31 OCT 2020
46.	CVR Sriilalit Narayana	Optical Wireless Communication – Challenges	IFERP	3 OCT 2020
47.	CVR Sriilalit Narayana	Personality Development and Winning Attitude	IFERP	18 Sept 2020
48.	CVR Sriilalit Narayana	Latest Trends in Nano Technology	IFERP	10 Sept 2020
49.	CVR Sriilalit Narayana	Scope Opportunities and Challenges in Electric Vehicles	IFERP	12 Sept 2020
50.	CVR Sriilalit Narayana	Technology Based Teaching in Class Room	IFERP	10 Sept 2020
51.	CVR Sriilalit Narayana	Basic Design Concepts of Substation and Switch yard	G Narayanamma Institute of Technology & Science	6 <sup>th</sup> June 2020

52.	CVR Sriilalit Narayana	Power Converters Configuration and Applications	G Narayanamma Institute of Technology & Science	4 <sup>th</sup> June 2020
53.	CVR Sriilalit Narayana	Fundamentals of GIS	Methodist College of Engineering & Technology	6 <sup>th</sup> June 2020
54.	CVR Sriilalit Narayana	Believe in power of mentoring	PSR Engineering College	5 <sup>th</sup> June 2020
55.	CVR Sriilalit Narayana	Solar Energy – Introduction and current trends	Poornima Institute of Engineering & Technology	4 <sup>th</sup> June 2020
56.	CVR Sriilalit Narayana	Nuances in NAAC	Visvesvaraya Technological University	14 <sup>th</sup> AUG 2020
57.	CVR Sriilalit Narayana	Lighting Systems Concepts	HIEE	16 <sup>th</sup> July 2020
58.	N. Nireekshan	Power converters topologies in renewable energy source	EEE,NADIMPALLY STYANARAYANA RAJU ,AP	6 <sup>TH</sup> JUNE 2020
59.	N. Nireekshan	Road map to get a quality patent	DEPT OF EEE,AMET CHENNAI	13 TH JUNE 2020
60.	N. Nireekshan	Power conditioning system for remote microgrid and reliability assessment	JERUSALEM COLLEGE OF ENGINEERING	13 <sup>TH</sup> JUNE 2020
61.	N. Nireekshan	Recent trends in power systems	SHARAD INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING	26 TH JUNE 2020
62.	E. Saidulu	Webinar on Power converters configurations and applications.	G.Narayanamma institute of technology and engineering.	4 <sup>th</sup> June 2020/1 day
63.	E. Saidulu	Webinar on Power converter topologies in renewable energy sources.	Nadimpalli satyanarayana raju institute of technology.	6 <sup>th</sup> June 2020/1 day
64.	E. Saidulu	Webinar on PFC Based AC-DC LED Driver Circuits.	VAAGDEVI College of engineering.	8 <sup>th</sup> June 2020/1 day
65.	E. Saidulu	Webinar on Effective role of teachers in enhancing standards of technical education.	Geethanjali institute of science and technology.	6 <sup>th</sup> June 2020/1 day
66.	J.Ramesh Babu	Teaching and Learning Tools Setup and Assessments for Next Generation	B V Raju Institute of Technology	12-14 May- 2020

67.	J.Ramesh Babu	Renewable Energy	Methodist College of	28 -may-
07.	J.Kaillesii Dabu	Renewable Energy Sources Using MATLAB	Engineering and	2020
		Sources Using WATLAB	8	2020
60	I Damaala Dalau	World Intellectual	Technology Crescent institute of	26 Mary
68.	J.Ramesh Babu			26-May-
	TD 1 D 1	Property Rights(IPR)	science and technology	2020
69.	J.Ramesh Babu	Outcome based	Sinhgad institute of	7-May-2020
<b>5</b> 0	T.D. 1.D.1	education OBC	technology and science	1135
70.	J.Ramesh Babu	e-vehicles for sustainable	Geethanjali institute of	14-May-
		transportation	science and technology	2020
71.	J.Ramesh Babu	Online Teaching	AQHTIO-CE000086	13-May-
		Methods		2020
72.	J.Ramesh Babu	Electric vehicles	Attended	ATAL-
				Fr.C.Rodrigu
				e Institute of
				Technology
73.	J.Ramesh Babu	Hybrid Electric Vehicles	Attended	CVR
		and Battery Management		college of
		Systems		Engineering
74.	J.Ramesh Babu	Electric vehicles	Attended	ATAL-K S
				Rangasamy
				college of
				Technology
				1 connotogy
75.	J.Ramesh Babu	Trends and challenges of	Attended	Chaitanya
		hybrid electric drive		Bharathi
		utilities in transport sector		Institute of
		utilities in transport sector		Technology
				1 connotogy
76.	J.Ramesh Babu	Thermal Power and	Attended	NITTTR,
		Energy Engineering		Chennai
		•		

## 2. Details of Research Publications (during Academic Year 2020-2021):

Sl.	Title of paper	Name of the author/s	Name of journal	ISBN/ISSN
No.				number
1	A Novel Proficient	T.V. Suresh Kumar,	Solid State Technology	0038-111X
	Secure Routing	Dr. Prabhu G		
	Strategy In Mobile Ad	Benakop		
	Hoc Frame Using			
	Heuristic-Based Load			
	Balancing Protocol			
2	Direct-Driven	Y. Mastanamma, Dr.	The International journal of	ISSN
	Permanent Magnet	D. Subbarayudu	analytical and experimental	NO:0886-
	Synchronous		modal analysis	93672
	Generator Based			
	Wind Energy			
	Conversion System			
	with A Neutral-Point			
	Clamped Grid-Side			

Sl. No.	Title of paper	Name of the author/s	Name of journal	ISBN/ISSN number
	Converter			
3	Image processing based assessment of explosive energy distribution in mine blast - Case study	Raghu Chandra Garimella, Rajasekhar Ballari, and Rama Sastry Vedala	Advances and Applications in Mathematical Sciences	ISSN 0974- 6803
4	Designing an efficient forecasting routing protocol to secure the mobile ad hoc network communication	T.V. Suresh Kumar and Dr. Prabhu G Benakop	Bulletin Monumental	e-ISSN 0007-473X
5	A Secure Routing Protocol for MANET using Neighbor Node Discovery and Multi Detection Routing Protocol	T.V. Suresh Kumar and Dr. Prabhu G Benakop	International Journal of Engineering Trends and Technology (IJETT) – Volume 68 Issue 7 - July 2020	ISSN: 2231- 5381
6	CmosRf Transceiver For Wireless Sensor Networks In Medical Field	Chandrasekhar Kandagatla , Dr.Prabhu G. Benakop	International Journal of Future Generation Communication and Networking	ISSN:2233- 7857
7	CMOS Applications and Implementation Procedure of Wireless Multimedia Sensor Network	Chandrasekhar Kandagatla, Dr. Prabhu G. Benakop	Design Engineering	ISSN:119342
8	Progress in Biomedical Field with an Advancement of CMOS RF Transceiver Using Wireless Sensor Network	Chandrasekhar Kandagatla, Dr. Prabhu G. Benakop	Design Engineering	ISSN:119343

- 3. Mrs. Y.Mastanamma, Associate Professor had submitted her Ph.d. Thesis and waiting for Viva-Voce.
- 4. HOD-EEE has attended BOS meetings which were conducted online by Osmania University and given suggestions for AICTE curriculum.

#### Y.Mastanamma

Head of the dept-EEE