

MESSAGE FROM THE HOD'S DESK

To everyone who receives this newsletter, a warm greeting and best wishes are extended. I am delighted to introduce the first issue of the "Electrical Times Newsletter" for academic year 2020-2021. I encourage the students to work hard and put up their best efforts in their technical undertakings in order to achieve fruitful results. I'd would like to express my gratitude to all of my colleagues for their tireless efforts in assisting the department's continuous success. We work hard as a team to bring the department to new heights of success and glory, as well as to achieve our vision.

THE EDITORIAL TEAM**CHIEF EDITOR:**

Dr.K.ManozKumarReddy,
HOD-EEE

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K. Ganga Sunny-II EEE

About the department

The Electrical and Electronics Engineering Department of Aditya College of Engineering is fully Equipped with state of art laboratories' and its faculties consists of highly experienced professors, well qualified associate professors and dynamic assistant professors with commitment to give the young minds the very best they deserve.

VISION OF THE DEPARTMENT

To be a leading department of Electrical Engineering Education and Research.

MISSION OF THE DEPARTMENT

- To produce quality engineers by providing state of the art engineering facilities.
- To impart skill based education and enhance knowledge on electric vehicles.
- To organize professional, cultural and social activities with collaborations.
- To promote training with institution and industry collaborations.

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ACTIVITIES CONDUCTED BY THE DEPARTMENT

Conferences, Seminars, and Workshops - Organized

S. No.	Type of Event	Title of Event	Name of the Coordinator	Resource Person Details	Date/s of the event	No. of Participants
1	Seminar	An Online Seminar on “Power Semiconductor Drives and Applications”	Mrs.K.Lakshmi	Dr Ch. PunyaSekhar, Associate Professor, AcharyaNagarjuna University	4 th Dec,2020	60
2	Seminar	A Seminar on “Advanced Control Systems and Simulations”	Dr.M.Ravindra	Dr. M. Siva Kumar, Professor, EEE Department, Gudlavelleru Engineering College	12 th Dec,2020	45
3	Seminar	A Seminar on “Intellectual Human values and Professional ethics in technical education”	Mr.D.TataRao	Dr.J.HanumantRao, Professor, ACET. Surampalem	17 th Dec,2020	60

FACULTY ACHIEVEMENTS

International Journal/Conference Publications

S.No.	Publication
1	Mr.K.Manoz kumar Reddy made a SCOPUS Publication Journal on “ Design and simulation of high voltage gain current fed full bridge voltage doubler converter fed multi- level inverter for fuel cell powered electric vehicle”in an “International journal of emerging trends in engineering research”with ISBN:2347-3983.
2	Dr.A.S.S. Veerendra Babu published a SCIE Journal on “ Performance analysis of distributed power flow controller with ultra-capacitor for regulating the frequency deviations in restructured” in “ Journal of Energy Storage” with ISBN: 2352-152X, Volume 31, October 2020.
3	Dr.A.Ramesh Published a paper on “:Optimization of Fuzzy Inference System Using Genetic Algorithm” in 3rd International conference on Computing and Communication (IC3-2020) Organized by Sikkim Manipal Institute of Technology, Sikkim with ISBN: 978-981-15-7394-1 on 13 th and 14 th july 2020.
4	Dr.A.Ramesh Published a paper on “Thirteen and Twenty-one level Hybrid H-Bridge Multilevel Inverter Topology for Grid Connected System” in an International Journal of Grid and Distributed Computing with Vol. 13 No. 01 (2020): Vol 13 No 1 (2020)

Seminars/Conferences/Seminars/Workshops/FDPs Attended

S.No	Name of the faculty	Name of the Event	Name of the organizer	Place/ Location	Dates/ Duration
1	Mr.Ch.UP.Kumar	A Five day FDP on “Recent Trends in Electrical Engineering”	Department of Electrical and Electronics Engineering Vishnu Institute of Technology	Bhimavaram, E.G Dist	8 th June to 12 th June 2020
2	Ch.Manoj	3rd International conference on Computing and Communication (IC3-2020)	Sikkim Manipal Institute of Technology, Sikkim	Sikkim	13 th 14 th July 2020
3	M.V.Kumar Reddy	3rd International conference on Computing and Communication (IC3-2020)	Sikkim Manipal Institute of Technology, Sikkim	Sikkim	13 th & 14 th July 2020
4	M.V.Kumar Reddy	Smart Grid Technology and Applications	Dept. of EEE, Indus Institute of Engineering and Technology	Siddipeta, Telangana	4 th Aug 2020
5	M.V.Kumar Reddy	Unsupervised Learning with K-Means Clustering	Dept of ECE, CMR Engineering College	Hyderabad	4 th Aug 2020
6	M.V.Kumar Reddy	Role of IOT in Healthcare during Covid	Dept of ECE, C. Abdul Hakeem College of Engineering & Technology	Vellore	5 th Aug 2020

FACULTY ACHIEVEMENTS

List of Patents

Sl. No.	Name of the Faculty	Patent details	Area of the patents files/ obtained	Status	Filing agency
1	Mr.K.Manoz Kumar Reddy	Safe Driving and Accident Prevention using wireless transmitter Traffic control	Electronic Communicati on Engineering	Published on 31/07/2020	Intellectual Property India
2	Dr.M. Ravindra	Multimodal fuzzy logic based variable pitch angle control system for wind turbines	Mechanical Engineering	Published on 04/09/2020	Intellectual Property India
3	Dr.M. Ravindra	Machine Learning Based Smart Electric Vehicle Battery Management System	Computer Science Engineering	Published on 06/11/2020	Intellectual Property India

Member of External Bodies/Agencies

Sl. No.	Name of the Faculty	Name of the external body/ Agency	Position	Duration / Tenure
1	Mr.Ch.UP.Kumar	WASET Scientific and Technical Committee & Editorial Review Board on Energy and Power Engineering	Committee member, Reviewer	since 2020
2	Mr.Ch.UP.Kumar	Advances in Science Technology and Engineering System Journal	Editorial Board Reviewer	27 March 2020

FACULTY ACHIEVEMENTS

NPTEL/OTHER CERTIFICATION COURSES

S.NO	Name of the Faculty	Name of the Course	Dates/ Duration	Remarks
1	Mr.K.Manoz Kumar Reddy	Solar Energy and Electrical System Design	28 th july 2020/4 weeks	An online non-credit course authorized by University at Buffalo, The State University of New York and offered through Coursera
2	Mr.K.Manoz Kumar Reddy	Introduction to Artificial Intelligence	8 th july 2020/4 weeks	An online non-credit course authorized by IBM and offered through Coursera
3	Mr.K.Manoz Kumar Reddy	Machine Learning for All	21 st july 2020/4 weeks	An online non-credit course authorized by University of London and offered through Coursera
4	Mr.K.Manoz Kumar Reddy	Solar Energy Codes, Permitting and Zoning	7 th Aug 2020/4 weeks	An online non-credit course authorized by University at Buffalo, The State University of New York and offered through Coursera
5	Mr.K.Manoz Kumar Reddy	Introduction to Electronics	10 th june 2020/4 weeks	An online non-credit course authorized by Georgia Institute of Technology and offered through Coursera
6	Mr.K.Manoz Kumar Reddy	Understanding Research Methods	4 th june 2020/4 weeks	An online non-credit course authorized by University of London and SOAS University of London and offered through Coursera
7	Mr.K.Manoz Kumar Reddy	Solar Energy Systems Overview	20 th july/4 weeks	An online non-credit course authorized by University at Buffalo, The State University of New York and offered through Coursera
8	Mr.K.Manoz Kumar Reddy	Getting Started with AI using IBM Watson	11 th july 2020/4 weeks	An online non-credit course authorized by IBM and offered through Coursera
9	Dr.M.Ravindra	Electrical Power Systems	26-07-2020/ 4 weeks	online non-credit course offered by University of Buffalo and state university of New york
10	Dr.M.Ravindra	what is Data Science	07-07 2020/4 weeks	online non-credit course offered by IBM
11	Dr.M.Ravindra	Solar Energy and Electrical System Design	14-08-2020/weeks	online non-credit course offered by University of Buffalo and state university of New york
12	Dr.M.Ravindra	A Short course on "Learn to design your own Solar Home system"	14-09-2020	As a part of energy literacy drive of energy Swaraj foundation
13	Mr.M.V.Kumar Reddy	Electrical Power Systems	26-07-2020	online non-credit course offered by University of Buffalo and state university of New york

FACULTY ACHIEVEMENTS

Professional Society Memberships

Sl. No.	Name of the Faculty	Name of the Professional Society	Membership Number	Life/Annual
1	Mr.K.Manoz kumar Reddy	MISTE	LM 54949	Life
2	Dr.M.Ravindra	IAENG	226969	Life
3	Mrs.K.LAKSHMI	MISTE	LM 121105	Life
4	Mr.M.V.Kumar Reddy	MISTE	LM12116	Life
5	Mr.D.Tata Rao	MISTE	LM121104	Life
6	Mr.Ch.UP Kumar	MISTE	LM101844	Life
7	Mr.Ch.UP Kumar	IAENG	134262	Life

Research Publications – Book & Book Chapters

Sl. No	Name of the Faculty Author	Title of the Book Chapter	Name of the Publisher	ISBN Number	URL
1	Dr. A.Ramesh	Model-Order Reduction and Reduced Controller Design Using Routh Approximation and Factor Division Method	Springer, Singapore.	978-981-15-7394-1	https://doi.org/10.1007/978-981-15-3828-5_11
2	Dr.A.Ramesh	Optimization of Fuzzy Inference System Using Genetic Algorithm	Springer, Singapore	978-981-15-7394-1	https://doi.org/10.1007/978-981-15-7394-1_21
3	Dr.M.Ravindra	A Sensitivity Based Approach for Optimal Allocation of OUPFC Under Single Line Contingencies	Springer, Singapore.	978-981-15-3828-5	https://doi.org/10.1007/978-981-15-3828-5_11

STUDENT ACHIEVEMENTS

LIST OF STUDENT PARTICIPATION IN VARIOUS ACTIVITIES

S.No	Name of the student	Name of the event	Topic	Venue	Date
1.	K. Ganga Sunny	National level E quiz on Applied Chemistry	Quiz	Usha Rama College of Engineering and Technology	16-07-2020
2.	D. Kameswara Rao	Energy Literacy	Learn to design your own solar home system	Swaraj Foundation in Association with Aditya College of Engineering, Surampalem	14-09-2020
3	K. Ganga Sunny	Digital VEDA 2K21	Quiz	Aditya Engineering College, Surampalem	15-09-2020
4.	K. Ganga Sunny	Sparkle Minds	National level Technical Quiz Competition	Jntuk, Vizianagaram	21-09-2020
5.	K. Ganga Sunny	National Library week 2020 competitions	Quiz	Aditya Engineering College, Surampalem	17-11-2020
6.	C. Ravi babu	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
7.	P. Sai Krishna	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
8.	K.N.G. Arun Pratap	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
9.	T.Surendra	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
10.	M.Saitarun	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
11.	S.Jagadeeswari	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
12.	G. Abhishek	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
13.	B. Krishna Chaitanya	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
14.	K.Ganesh	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
15.	T.Neelima	VIBA	COVID-19 Quiz	Vaagdevi College of Engineering, Proddatur	10-06-2020
16.	V.Anil Kumar	MATLAB	Technical Quiz on MATLAB-Online	Pace Institute Of Technology And Sciences, Ongol	22-05-2020
17.	Ch.Surya Vamsi MATLAB	MATLAB	Technical Quiz on MATLAB-Online	Pace Institute Of Technology And Sciences, Ongol	22-05-2020
18.	K.DivyaLahari	MATLAB	Technical Quiz on MATLAB-Online	Pace Institute Of Technology And Sciences, Ongol	22-05-2020

STUDENT ACHIEVEMENTS

TOPPERS LIST



8.76 (2nd Place)
18MH5A0219
YELLAPU MANIKANTA SWAMY



8.90 (1st Place)
18MH5A0213



7.21 (1st Place)
20MH5A0213
NAKKA HEMANTH KUMAR



7.00 (2nd Place)
19MH1A0204
KON KAMAN AJUOT TENG



8.57 (1st Place)
18MH1A0204
TUMPALA NEELIMA



8.43 (2nd Place)
19MH5A0231
KOMMANA HARIDATTA

Congratulations!

STUDENT ACHIEVEMENTS

STUDENTS PAPER PUBLICATIONS

S.NO	NAME OF THE STUDENT	PAPER TITLE	ISSN/ISBN NO.	INDEX NO UGC/SCOPUS/INTERNATIONAL CONFERENCES	DOI
1	KARRI SUDHES WARI (18MH5A0206) R.V.GANESH (18MH5A0214)	MODEL-ORDER REDUCTION AND REDUCED CONTROLLER DESIGN USING ROUTH APPROXIMATION AND FACTOR DIVISION METHOD	ISBN: 978-981-15-7394-1	SPRINGER	10.1007/978-981-15-7394-1_16
2	S.NAGA VEERABABU (18MH5A0216) K.ROJA (16PA1A0238)	OPTIMIZATION OF FUZZY INFERENCE SYSTEM USING GENETIC ALGORITHM	ISBN: 978-981-15-7394-1	SPRINGER	10.1007/978-981-15-7394-1_21
3	P.SRI VENKATA SATISH [18MH5A0211], Y.MANIKANTA SWAMY (18MH5A0219)	FRACTIONAL-ORDER EXTREMUM SEEKING MPPT FOR PHOTOVOLTAIC SYSTEM	ISSN:978-981-15-7394-1	SPRINGER	10.1007/978-981-15-7394-1_21

Congratulations!