



# SENSETRONICS

NEWSLETTER

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2021-22

DEPARTMENT OF

ELECTRONICS AND COMMUNICATION ENGINEERING



ADITYA ENGINEERING COLLEGE (A)

APPROVED BY AICTE. NEW DELHI AND AFFILIATED TO JNTU KAKINADA

# ABOUT ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

Established as one of the major departments of the Institute, the Department of Electronics and Communication Engineering at Aditya strives to produce highly competent engineers equipped with advanced professional knowledge, entrepreneurial thinking, professional and ethical attitude, critical problem solving and analytical skills through effective teaching learning process, research and industrial collaboration.

The faculty of the department, a rich blend with academic and industrial experience, have been constantly carrying out research on many cutting-edge technologies with regular publications in ELSEVIER and other top international journals. The academic quality of the department is reflected by the laurels won by the students and the distinguished positions in industry and academia occupied by alumni.

The department strives to upgrade the knowledge of faculty and students by organizing various Workshops, Industry-Institute Interactions, Continuous Improvement Programs inviting eminent personalities from Industry and academic Institutions, Seminars and Research activities.

## VISION OF THE DEPARTMENT

To become a centre of excellence in the field of Electronics and Communication Engineering with technological capability, professional commitment and social responsibility

## MISSION OF THE DEPARTMENT

### ***MISSION 1***

Provide quality education, well-equipped laboratory facilities and industry collaboration.

### ***MISSION 2***

Promote cutting edge technologies to serve the needs of the society and industry through innovative research.

### ***MISSION 3***

Inculcate professional ethics and personality development skills.

# FACULTY PUBLICATIONS

S. No	Authors	Title of the research paper	Name of the journal	Name of the Publisher	Year of publication	Impact factor
1.	Rajyalakshmi Uppada, Satya Prasad Kodati, Koteswara Rao Sanagapallela	Automated Computer Aided Diagnosis Using Altered Multi-Phase Level Sets in Application to Categorize the Breast Cancer Biopsy Images	IETE Journal of Research	Taylor & Francis Online	2021	2.33
2	G S Sahoo, S Routray, K P Pradhan and G P Mishra	Electrical, Optical, and Reliability Analysis of QD-Embedded Kesterite Solar Cell	IEEE Transactions on Electron Devices (IEEE)	SCI, SCOPUS	2021	2.913
3	S Arunmetha, NR Dhineshbabu, Atul Kumar, R Jayavel	Preparation of sulfur doped TiO <sub>2</sub> nanoparticles from rutile sand and their performance testing in hybrid solar cells	Journal of Materials Science: Materials in Electronics	Springer	Oct 2021	2.478
4	R Vettumperumal, NR Dhineshbabu, B Karthikeyan	Material characterizations of Moringa oleifera gum (MOG)	Phosphorus, Sulfur, and Silicon and the Related Elements	Taylor & Francis	Oct 2021	1.082
5	R Vettumperumal, C Maheswaran, J Henry, K Mohanraj, NR Dhineshbabu	Analysis of Electrical and Impedance Properties of the Group-I (Li, Na, K & Cs) Doped ZnO Nanorods	Journal of Electronic Materials	Springer US	Oct 2021	1.938
6	Usha Vengatakrishnan, Kalyanaraman Subramanian, Vettumperumal Rajapand, Dhineshbabu Nattanmai Raman	Effect of Ultraviolet and Solar Radiation on Photocatalytic Dye (Black-E and Congo Red) Degradation Using Copper Oxide Nanostructure Particles	Iranian Journal of Materials Science and Engineering	Iranian Journal of Materials Science and Engineering, Iran University of Science & Technology	Nov 2021	Nil
5	NR Dhineshbabu, R Vettumperumal	Linear and Nonlinear Optical Properties of CuO NPs for Photonics	Journal of Electronic Materials	Springer	June 2021	1.938
6	S Arunmetha, NR Dhineshbabu, Atul Kumar, R Jayavel	Preparation of sulfur doped TiO <sub>2</sub> nanoparticles from rutile sand and their performance testing in hybrid solar cells	Journal of Materials Science: Materials in Electronics	Springer	Oct 2021	2.478



# PHD AWARDED



Dr. Nainavarapu Radha, Associate Professor, Dept. of Electronics and Communication Engineering has been awarded Doctor of Philosophy entitled **“Development and Performance Evaluation of Multi-Focus Image Fusion Algorithms for Visual Sensor Networks Using Image Transforms”** from Acharya Nagarjuna University in the specialization of Digital Image Processing.



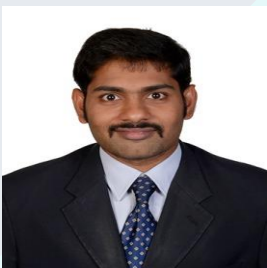
Dr. Santoshkumar Sabat, Assistant Professor, Dept. of Electronics and Communication Engineering has been awarded Doctor of Philosophy entitled **“Analysis of Impact of Primary User Activity and Secondary User Mobility on Spectrum Sensing in Full Duplex Cognitive Radio Network”** from National Institute of Technology, Nagpur in the specialization of Wireless Communication.



Dr. Vishnu Vardhan Gudla, Assistant Professor in the department of Electronics and Communication Engineering, has been awarded Doctor of Philosophy for the successful completion of his thesis defense entitled **“Spectral and Energy Efficient Spatial Modulation based MIMO Techniques for Next Generation Wireless Networks”** from “Vellore Institute of, Vellore, Tamil Nadu in the specialization of Wireless Communications.



Dr. Jagatpati Raiguru, Assistant Professor, Department of Electronics and Communication Engineering, has been awarded Doctor of Philosophy entitled **“Promoting Earth Abundant Semiconductor-CZTS as Hole Transporting Material for Perovskite Solar Cell Application”** from National Institute of Technology, Rourkela, Department of Electrical Engineering.



Dr. M Hari Kishor, Sr. Assistant Professor in the department of Electronics and Communication Engineering has been awarded Doctor of Philosophy for the successful completion of his thesis defense entitled **“DESIGN AND CHARACTERIZATION OF HYDROGEN BOND FERROELECTRIC LIQUID CRYSTALS FOR DEVICE APPLICATIONS”** from “ANNA UNIVERSITY, Chennai, Tamil Nadu in the specialization of Information and Communication Engineering.

## FACULTY AWARDS

S. No	Authors	Award Details	Month & Year	Name of the Publisher/Organization /Institute
1.	Dr. N.R. Dhineshababu	Young Scientist Award-2021	June,2021	Institute of Researchers
2.	Dr. N. R. Dhineshababu	Young Researcher 2021	November-2021	Venus International Foundation
3.	Dr. Girija Shankar Sahoo	Young Scientist Award	November-2021	International Conference for award winners on Engineering, Science and Medicine, held on 12-Nov-2021, Chennai, India, Organized by VDGGOOD Professional Association.

## RESEARCH GRANT RECEIVED



Dr. Rajyalakshmi Uppada, Professor of ECE Department received a research grant of Rs. 8, 73, 667 /- under MODROB-Rural scheme from AICTE to purchase the three kits namely Satellite, Antenna and Doppler Radar equipment's. Project duration is from 12-02-2020 to 11-08-2022. This is to enrich the research activities in the department of ECE, Aditya Engineering College (A), Surampalem.

## DEPARTMENT ACTIVITIES

- A Three Day Faculty Development Programme on “Satellite, Antenna and Radar Communication Trainer Kits”



- A One Day Faculty Workshop on “Satellite, Antenna and Radar Communication Trainer Kits”













## PLACEMENTS

24-08-2021

**ADITYA ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**DXC TECHNOLOGY SELECTED STUDENTS**

 <b>Ms. LAKSHMI SATYA VENKATA DURGA</b> (18A91A0466)	 <b>Ms. D. PRATHYUSHA</b> (18A91A0475)	 <b>Mr. SAI PRAKASH</b> (18A91A0477)	 <b>Mr. CH. VINEELA GOPI</b> (18A91A0480)	 <b>Mr. K. VEDA SRUJANA REDDY</b> (18A91A0487)
 <b>Mr. N. VASU</b> (18A91A0498)	 <b>Ms. P. KAMALA HARSHITHA</b> (18A91A04A6)	 <b>Mr. T. HARI SRI DURGA PRASAD</b> (18A91A04B6)	 <b>Mr. V. ANVITHA</b> (18A91A04B8)	 <b>Ms. M. DHANA LAKSHMI</b> (19A95A0411)

\*\*\* Congratulations \*\*\*



**ADITYA ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**SELECTED STUDENTS**



**N. VENKATA SAIRAM**

18A91A04G3



**O. PRASANTH KUMAR**

18A91A04G6



**P.SAIACHYUTH**

18A91A04H0



**R.V. SAI KRISHNA**

18A91A04H1



**SANKISA ANIL KUMAR**

18A91A04H4



**SYED BHANU AKTHARUN**

18A91A04H6



**VELPURI NITHIN BALAJI**

18A91A04H7



\*\*\* *Congratulations* \*\*\*

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Staff & Students

**ADITYA ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**SELECTED STUDENTS**



**ANUSHA AVALA**

18A91A04C4



**G. LAKSHMI AISHWARYA**

18A91A04D3



**KOPPULA SUSHMA**

18A91A04E9



**MARNI SUSHMASRI**

18A91A04F4



**MATTA DIVYA NANDANA**

18A91A04F5



**M.SAI SRINIVASA ANKIT**

18A91A04F9



**MD SABIHA SULTHANA**

18A91A04G1



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8-10-2021

## ADITYA ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Capgemini

SELECTED STUDENTS



Ms. AKKINA SATYA SOWMYA  
(18A91A0401)



Mr. CHEERLA NAGA PAVAN KALYAN  
(18A91A0405)



Ms. SAI SYAMALA JOGA  
(18A91A0421)



Ms. RAMYA PALURI  
(18A91A0441)



Mr. KRISHNA KARTHIK VANARASI  
(18A91A0454)



Ms. HARIKA CHALAPATHI  
(18A91A0467)



Ms. GOLLAPALLI USHA YASASWI  
(18A91A0479)



Mr. KIRAN MATTA  
(18A91A0489)



Mr. APPAREDDY MEDAPATI  
(18A91A0490)



Mr. KUSUMA KALYAN  
(18A91A0497)



Mr. SOMAROUTHU VENKATA VAMSI  
(18A91A0483)



Ms. J. SRI KAVYA GOLUGURI  
(19A95A0402)



Mr. PENKATA JANAKI DURGAPRASAD  
(19A95A0413)

\*\*\* Congratulations \*\*\*

## ADITYA ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



Capgemini  
CONSULTING. TECHNOLOGY. OUTSOURCING

SELECTED STUDENTS



MELLIMI SANKEERTHANA  
18A91A04F8



UPPALAPATI PADMA  
18A91A04N4



KAGITA VARUN  
18A91A04J8



N.S. G. SUMANTH VARMA  
18A91A04L7



V.V S S RAJYALAKSHMI  
18A91A04N5

\*\*\* Congratulations \*\*\*

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Staff & Students



**ADITYA ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

 **Capgemini** **SELECTED STUDENTS**  
CONSULTING TECHNOLOGY OUTSOURCING

  
**ADDANKI HARIKA**  
 18A91A04C1

  
**ANUSHA AVALA**  
 18A91A04C4

  
**JAMI BHAVYA**  
 18A91A04E1


  
**B.LAKSHMI SOWJANYA**  
 18A91A04F1

\*\*\* *Congratulations* \*\*\*

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Staff & Students*

**ADITYA ENGINEERING COLLEGE (A)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

*Congratulations*  
**Infosys®** Selected Students  
**#HackWithInfy**

  
**Mr. N. KUSUMA KALYAN**  
 18A91A0497

**ADITYA ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

 **SELECTED STUDENTS**

  
**MEDAPATI RITESH REDDY**  
 18A91A04F6

  
**SYED BHANU AKTHARUN**  
 18A91A04H6

  
**YAMAJALA NAGA PRANATHI**  
 18A91A04H9


  
**PERURI MOHANA SATYA**  
 18A91A04M3

\*\*\* *Congratulations* \*\*\*


*Management Staff & Students*

**ADITYA ENGINEERING COLLEGE (A)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

 *Congratulations*  
**Selected Students**

  
**Mr. J. SIVARAMAKRISHNA GANESH**  
 18A91A0420








  
**Ms. M. MOHANA SNIGDHA**  
 18A91A0427

  
**Ms. P. KAMALA HARSHITHA**  
 18A91A04A6

*Management Staff & Students*

24-08-2021

**ADITYA ENGINEERING COLLEGE (AUTONOMOUS)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**  
**EMPHASIS SELECTED STUDENTS**


				
<b>Ms. A. SATYA SOWMYA</b> (18A91A0401)	<b>Mr. CH. NAGA PAVAN KALYAN</b> (18A91A0405)	<b>Mr. J.S.KRISHNA GANESH</b> (18A91A0420)	<b>Ms. M. MOHANA SNIGDHA</b> (18A91A0427)	<b>Ms. M. GEETHA SREE</b> (18A91A0428)
				
<b>Ms. N.R. TEJASWINI</b> (18A91A0434)	<b>Ms. S. DEEPTHI</b> (18A91A0449)	<b>Mr. V.V.V. DURGA PRASADA</b> (18A91A0455)	<b>Mr. G. MANIKANTA</b> (18A91A0476)	<b>Ms. G. USHA YASASWI</b> (18A91A0479)
				
<b>Mr. N. KUSUMA KALYAN</b> (18A91A0497)	<b>Ms. P. SUPRIYA</b> (18A91A04A0)	<b>Mr. G.S.V. CHOWDARY</b> (19A95A0409)	<b>Ms. M. PALLAVI</b> (19A95A0410)	<b>Mr. P.V. JANAKI DURGAPRASAD</b> (19A95A0413)


\*\*\* Congratulations \*\*\*

12-11-2021

**ADITYA ENGINEERING COLLEGE (A)**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

*Congratulations*

 **5.2 LPA Selected Student**  
 Seamless | Secure | Simplified



**Mr. DHANA SUNIL YALAMAPALEPU**  
**18A91A0457**

*Management Staff & Students*





## **EDITORIAL BOARD**

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**Mr.V.Satyanarayana, Assistant Professor**  
**Mrs.G.Jyothirmai, Assistant Professor**  
**Mr. Bhagat Kumar, Assistant Professor**

### **STUDENTS**

**P.Sai Achyuth IV B.Tech.**  
**G.Tarun IV B.Tech.**  
**P. Dhanunjay III B.Tech.**  
**Praveen III B.Tech.**  
**Sai Teja III B.Tech.**  
**G.Jyoshna III B.Tech.**  
**M.Surya Swamy III B.Tech.**  
**T.D.K.V.V.S.Sairam II B.Tech.**  
**V.Edukondalu II B.Tech.**