



SENSETRONICS

NEWS LETTER

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DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING



ADITYA ENGINEERING COLLEGE (A)

Approved by AICTE
New Delhi and Affiliated to JNTU Kakinada



ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established with the inception of the college in the year 2001 with an intake of 60 students and now it has been expanded to an intake of 240 students. It offers a Master's program in VLSI Design with a current intake of 12 students. The department has dedicated faculty and well-equipped laboratories like Electronic Devices and Circuits lab, Microwave Engineering and Optical Communication Lab, Digital Signal Processing lab, Project lab, etc, to provide a platform for practical aspects of learning.

The Department of ECE has an IETE student forum, under which the department organizes professional activities including guest lectures, workshops, and seminars, technical festivals SPARK under the umbrella of VEDA to enrich the knowledge of students. For better placements, we have a strong technical team (Technical hub) to train our students in coding practices and problem-solving skills.

The department has signed MOUs with Electropro Pvt.Ltd, Edgate Technologies & Texas Instruments, and Tessolve Semiconductor Pvt. Ltd. We are happy to say that our college is having MoUs with Andhra Pradesh State Skill Development Centre (APSSDC), Applied Robot Control (ARC), AWS Educate, Ui Path, CISCO, Salesforce, Oracle Academy, etc. We are very happy to say that most of our students have been trained and certified in various new technologies and trends which are necessary for the current industries from the first year onwards. We are glad to share this message of our students have been placed with the highest package of 12 lakhs.

VISION OF THE DEPARTMENT

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

MISSION OF THE DEPARTMENT


M1: Provide quality education, well-equipped laboratory facilities and industry collaboration.

M2: Promote cutting edge technologies to serve the needs of the society and industry through innovative research

M3: Inculcate professional ethics and personality development skills

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

The graduates of the Program will

- **PEO1:** Adapt the learning culture needed for a successful professional career and pursue research.
 - **PEO2:** Build modern electronic systems by considering technical, environmental and social contexts.
 - **PEO3:** Communicate effectively and demonstrate leadership qualities with professional ethics.
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FACULTY PUBLICATIONS JOURNALS

S.No.	Name of the Faculty as Author	Title of the Paper	Name of the Journal	ISSN Number	Month	UGC/SCI E/Scopus	URL/DOI
1	Dr. G. Suresh	Logistic-map based fragile image watermarking scheme for tamper detection and localization	Multimedia Tools and Applications	1573-7721	Dec	SCIE	https://link.springer.com/article/10.1007/s11042-022-13630-4
2	Dr. Tathababu Addepalli, Mr. V. Satyanarayana	Design and Experimental Analysis of Dual-Port Antenna with High Isolation for 5G Sub 6 GHz: n77/n78/n79 and WiFi-5 Bands Applications	IETE Journal of Research	0974-780X	Jan	SCIE	https://www.tandfonline.com/doi/abs/10.1080/03772063.2023.2167740
3	Dr. D.V.N.Koteswara Rao	A Compact Novel Lamp Slotted WLAN Band Notched UWB Antenna Integrated with Ku Band	Progress In Electromagnetics Research C	1937-8718	Jan	SCOPUS	https://www.jpier.org/issues/volume.html?paper=22111703
4	Dr. Tathababu Addepalli, Mr. V. Satyanarayana	Compact 'q'-Shaped Connected Ground 4-Element MIMO Antenna for X-Band Applications	Progress In Electromagnetic Research C	1937-8718	Feb	SCOPUS	https://www.researchgate.net/publication/368780785_Compact_'q'-Shaped_Connected_Ground_4-Element_MIMO_Antenna_for_X-Band_Applications
5	Dr. N. R. Dhineshababu	Influence of Magnetic Wood on Mechanical and Electromagnetic Wave-Absorbing Properties of Polymer Composites	International Journal of Polymer Science	1687-9430	Feb	SCIE	https://www.hindawi.com/journals/ijps/2023/1142654/
6	Dr. Tathababu Addepalli	Fractal Loaded, Novel, and Compact Two-and Eight-Element High Diversity MIMO Antenna for 5G Sub-6 GHz (N77/N78 and N79) and WLAN Applications,	Electronics	2079-9292	Feb	SCIE	https://www.mdpi.com/2079-9292/12/4/952

7	Dr. Tathababu Addepalli	A detailed insight of 2× 2 high isolation wideband dual notched band MIMO antenna with evolution initiated by theory of characteristics mode	International Journal of Microwave and Wireless Technologies	1759-0795	Feb	SCIE	https://www.cambridge.org/core/journals/international-journal-of-microwave-and-wireless-technologies/article/abs/detailed-insight-of-2-2-high-isolation-wideband-dual-notched-band-mimo-antenna-with-evolution-initiated-by-theory-of-characteristics-mode/57DA3900EFB5E88F066AB2E9C058D0AE
8	Dr. Tathababu Addepalli	Design and analysis of nonagonal patch unite with rectangular shaped 4-element UWB-MIMO antenna for portable wireless device applications.	Analog Integrated Circuits and Signal Processing	1573-1979	Feb	SCIE	https://link.springer.com/article/10.1007/s10470-023-02138-y

CONFERENCES

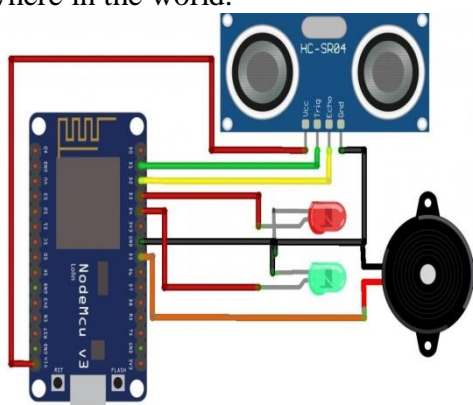
S. No.	Name of the Faculty as Author	Other Authors	Title of the Paper	Name of the Conference	Date/s	ISBN/ISSN Number	URL/DOI
1	Dr. Rajyalakshmi Uppada	Dr. N. Radha	Altered Neural Net for Breast Histological Image Catagorization	International Conference on Intellegent and Innovative Technolgies in Computing, Electrical, Electronics	27-28 January , 2023	978-1-6651-9260-7	https://ieeexplore.ieee.org/abstract/document/10091027
2	Dr. Rajyalakshmi Uppada	Ms. Sujata Pedada, Ms. Himabindu Chinni	Novel Neural Network for Breast Cancer Diagnosis	5 th IEEE International Conference on Electrical, Computer and Communication Technologies	22-24 Feb 2023	In Press	

3	Dr. Tathababu Addepalli	Dr. Anvesh kumar Nella; Dr. Manish Sharma; Dr. V. Srinivas	A Wideband High Directional Bow - Tie Antenna for Automatic Dependent Surveillance – Broadcast	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	12-16 December 2022	978-1-6654-5203-8	https://ieeexplore.ieee.org/document/10047641
4	Dr. Tathababu Addepalli	Dr. Rajasekhar Manda	Design, Analysis and Experimental Verification of 4-Element MIMO Antenna for 5G Sub:6 GHz N77/N78 and N79 band Applications	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	12-16 December 2022	978-1-6654-5203-8	https://ieeexplore.ieee.org/document/10047788
5	Dr. Tathababu Addepalli	Dr. Jagadeesh Babu Kamili; Dr. Kiran Kumar Bandi; Dr. Rajasekhar Manda	Fractal Based 8-Element Multiple Input Multiple Output (MIMO) Antenna for 5G Sub: 6 GHz and WLAN Applications	IEEE Microwaves, Antennas, and Propagation Conference (MAPCON)	12-16 December 2022	978-1-6654-5203-8	https://ieeexplore.ieee.org/document/10046731

STUDENT ACTIVITIES

An Innovative project done by the Students to detect **FLOOD WARNING USING NODE MCU**.

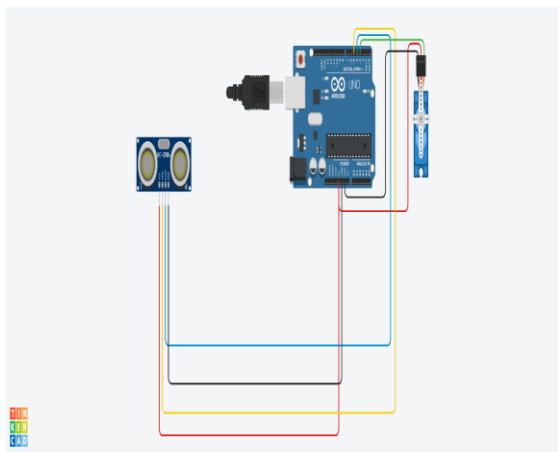
- The purpose of this project is to sense the water level in river beds and check if they are in normal condition. If they reach beyond the limit, then it alerts people through LED signals with buzzer sound as well as internet applications. Here we are using the Ultrasonic HC-SR04 sensor to sense the river level and Node MCU ESP8266 Microcontroller for data processing. The processed data will be uploaded to the Thing Speak IOT Cloud Platform. Using which river levels can be monitored graphically from anywhere in the world.



III ECE-B
 21A91A0469
 21A91A0423
 21A91A04C0
 21A91A0496
 21A91A0476

An Innovative project of **AUTOMATIC HAND WASH USING WITH ULTRA SONIC SENSOR**

- The Main Objective of this automatic hand washer will remove any germs on the hands efficiently and will reduce the health-care associated infections which occur among the health care workers. The lack of hygiene especially in the hands can cause deathly disease to spread through contacts.



III ECE-A
20A91A0407
20A91A0423
20A91A0428
20A91A0443

STUDENT PARTICIPATIONS IN TECHNICAL EVENTS

S.NO	Name of the Student	Name of the Event	Event Attended	Venue	Dates of the Event
1	Mandapalli Raviteja	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022
2	Maddukuri Sai Ganesh	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022
3	Kondeti Shamitha	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022
4	Jagarlamudi Anvitha	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022
5	Valle Bhagya Sri	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022
6	Chinthalapati Durga Prasad	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022
7	Duggudurthi Tejaswi Durga	VALIANT 2K22	Technical Quiz	Vishnu Institute of Technology, Bhimavaram,	22 nd & 23 rd December 2022

Value Added Course

- 78 students got enrolled and 78 Students completed A Value Added Course on AWS Cloud Computing with 36 hrs of duration held from 13/2/23 to 18/2/23.

PLACEMENTS

S.NO	Name of the Company	Selected	Package
1	Inviz.Ai	1	12.00 LPA
2	Netmeds	1	8.00 LPA
3	TCS Digital	2	7.2LPA
4	The Tech Destiny	2	7.00 LPA
5	ADP	6	6LPA
6	Unschool	1	6.50 LPA
7	ZF India	11	6.00 LPA
8	Hexaview Technologies	1	6.00 LPA
9	Extra Marks	1	6.00 LPA
10	Jio Platforms	4	6.00 LPA
11	Nineleaps	1	6.00 LPA
12	Kyndryl	16	5.60 LPA
13	Evertz India	1	5.50 LPA
14	iQuadra	1	5.40 LPA
15	DigitalTrust	1	5.20 LPA
16	Divami	1	5.00 LPA
17	Lekha Wireless Solutions	1	5.00 LPA
18	MuSigma	3	5.00 LPA
19	Qspiders	2	5.00 LPA
20	Tessolve Semiconductor	5	4LPA
21	Deloitte USI	6	4.50 LPA
22	DXC Technology	108	4.20 LPA
23	EMBE Automations	1	4.20 LPA
24	ZenQ	7	4.00 LPA
25	VIT Infotech	1	4.00 LPA
26	Value Momentum	6	4.00 LPA
27	Altognito Systems	4	4.00 LPA
28	Hexaware Technologies	44	4.00 LPA
29	MagikMinds	1	4.00 LPA
30	MOUNTBLUE	3	4.00 LPA
31	Netenrich	1	3.50 LPA
32	TCS Ninja	16	3.36 LPA
33	Tech Mahindra	3	3.25LPA
34	ALOHA	1	3.20 LPA
35	Palle Technologies	2	3.00 To 8.00 LPA
36	Park Control & Communications	2	3.00 to 6.00 LPA
37	Acuvate	3	2.5LPA
38	Surya Tech Solutions	16	2.92
	TOTAL	287	

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