

**ANANTHA LAKSHMI**

INSTITUTE OF TECHNOLOGY AND SCIENCES



**NEWS LETTER**

VOLUME: 03

ISSUE: 01



**ELECTRONICS AND  
COMMUNICATION  
ENGINEERING**



**ELECTRO-NEWS**

2022-23 Odd Semester News

*To raise new questions, new possibilities, to regard old problems from a new angle,  
requires creative imagination and marks real advance in science*

*— Albert Einstein*

# ELECTONICS AND COMMUNICATION ENGINEERING

## Vision of the Department

To produce professional engineers in Electronics and Communication with Ethical consciousness to meet local and global demands.

## Mission of the Department

M1: Providing an ambience of teaching-learning process through the state-of-art infrastructure and modern tools for imparting latest technical skills among the students.

M2: Providing student-centric facilities and training for the students to acquire a strong collaboration with Electronics Industry.

M3: Providing value-based education to find solutions for societal needs.

## Program Specific Outcomes (PSO'S)

### **Students must be able to:**

**PSO1:** Design and develop customized electronic circuits for domestic and industrial applications.

**PSO2:** Analyze and design the Digital Systems in Electronics using hardware and modern tools and full fill the gap between academics and industry.

**PSO3:** Apply professional ethics and ethical responsibility to a successful career in open-ended problems of Electronics and Communication Engineering by adhering to technological changes.

## About the Department

Electronics & Communication Engineering can be treated as universal branch among all circuit branches. ECE branch is the most sophisticated, ever demanding and fast growing branch in the engineering curriculum. It covers a wide range of applications which makes our life easier, secure and enjoyable such as Mobile, Television, Radio, Computer, Radar, Satellite etc. The course is useful to design and manufacturing of electronic systems and appliances. Electronic engineers are eligible for opportunities in Hardware, Software and Public Sector Units. The engineers are also employable in IC fabrication and Embedded system development industries.

- 1:** Graduates will be able to acquire the competent knowledge in Electronics and Communication Engineering.
- 2:** Graduates will be able to have successful entrepreneurial and professional engineers in the core and allied areas of electronics and communication engineering.
- 3:** Graduates will possess best communicative skills and work efficiently on team-based projects in electronics, communication, with a sense of social responsibility.

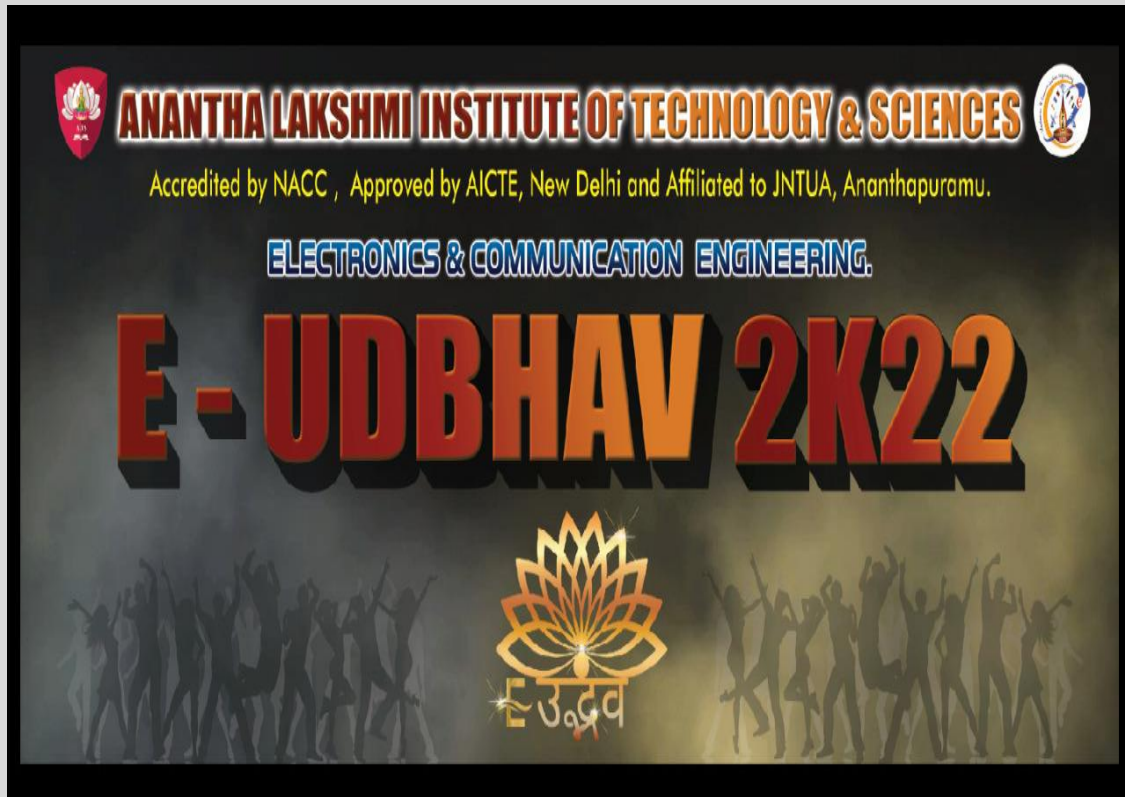
## **PROGRAM EDUCATIONAL OUTCOME'S (PEO'S)**

- Graduates can acquire competent knowledge in Electronics and Communication Engineering.
- Graduates can have successful entrepreneurial and professional careers in the core and allied areas of electronics and communication engineering.
- Graduates can possess communication skills and work efficiently on team-based projects in electronics, and communication with a sense of social responsibility.

## DEPARTMENT ACTIVITIES

### 1. **TECHNICAL SYMPOSIUM (e-Udbhav-2K22)**

Department of ECE has organized a National Level Technical Symposium “e-Udbhav-2k22” on 08-06-2022- to 09-06-2022. The chief guest for the program was Sri Dr. S Chandra Mohan Reddy garu, Associate Professor of ECE & Controller of Examination (PG), JNTU Ananthapuramu, Ananthapuramu. A total of 10 events were organized as listed below:









## 2. FDP/WORKSHOP/STTP

Department of ECE has conducted an offline Four-day Workshop to students on “Python Programming” by Ananthalakshmi institute of Technology and Science, Ananthapuramu from 12<sup>th</sup> to 15<sup>th</sup> Sep 2022.

<p><b>About the College</b></p> <p>Anantha Lakshmi Institute of technology and sciences (ALITS) is promoted by the Anantha Lakshmi educational Society, which was founded to educate and empower the youth who play a decisive role in shaping the destiny of the nation. The College was established in the year 2008 with an objective to impart quality education to students in the field of Technology and Management studies. The college has all modern facilities and hostels for boys and girls within the campus. The college is affiliated to J.N.T.U.A. Anantapuramu and AICTE New Delhi. ALITS has emerged as one of the premier Engineering College in the state with an overall intake of 1500 students in various UG and PG including B.Tech, M.Tech, and MBA.</p> <p><b>Vision</b></p> <p>To produce professional engineers in Electronics and Communication with Ethical consciousness to meet local and global demands</p> <p><b>Mission</b></p> <p><b>M1:</b> To Provide an ambience of teaching-learning process through the state-of-art infrastructure and modern tools for imparting latest technical skills among the students.</p> <p><b>M2:</b> To Provide Students centric facilities and training for the students to have a strong collaboration with Electronics Industry.</p> <p><b>M3:</b> To Provide and internalize the value-based education by encouraging the solutions for societal needs.</p>	<p><b>About ECE Department</b></p> <p>The ECE program at ALTS started in 2008. Recognized by AICTE and affiliated to JNTUA, Ananthapuramu, the current intake is 180 students. The Department of Electronics and Communication Engineering (ECE) at ALTS symbolizes the ALTS tradition of excellence as a leader in electronics and communication engineering education and research. The Department is dedicated to education, research and overall excellence.</p> <p>A ALTS – ECE graduate is suitably equipped to pursue career in electronics, communication and IT industry, research, or post-graduate studies in the country or abroad. Further through a unique program we promote entrepreneurship in budding engineers.</p> <p><b>Registration</b></p> <p>The interested participants have to send their registration form in the prescribed format duly attested by the head of the institution along with the registration fee in the form of a Demand Draft, drawn in favour of Principal, Anantha Lakshmi Institute of Technology and Sciences, and Payable at any Bank in A.P.</p> <p><b>Registration Fee</b></p> <table border="1"> <thead> <tr> <th>Category</th> <th>Registration Fee (Per person/paper)</th> </tr> </thead> <tbody> <tr> <td>Participants from R &amp; D Organizations &amp; Industry</td> <td>500</td> </tr> <tr> <td>Faculty from Academic Institutions</td> <td>400</td> </tr> <tr> <td>Research Scholars</td> <td>300</td> </tr> </tbody> </table>	Category	Registration Fee (Per person/paper)	Participants from R & D Organizations & Industry	500	Faculty from Academic Institutions	400	Research Scholars	300	<p><i>In Association with</i></p> <p><b>THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS, INDIA</b></p>  <p><b>A Four Days Workshop On</b> Python Programming 12<sup>th</sup> Sep -15<sup>th</sup> Sep, 2022</p> <p><b>Organized by</b> <b>Department of Electronics and Communication Engineering</b></p>  <p>Anantha Lakshmi Institute of Technology and Sciences Anantapur-515721 Andhra Pradesh <a href="http://www.alits.ac.in">www.alits.ac.in</a> ☎: +91 9000092589</p>
Category	Registration Fee (Per person/paper)									
Participants from R & D Organizations & Industry	500									
Faculty from Academic Institutions	400									
Research Scholars	300									

### 3. ADD ON COURSE

Department of ECE has conducted ADD-ON course on “Python PCB DESIGN FUNDAMENTALS” for III B.Tech ECE students with 3hrs/week/section.

### STUDENT PRESENTATIONS





Latitude: 14.596843  
 Longitude: 77.655802  
 Elevation: 464.11m  
 Accuracy: 2.5m

## 1. PUBLICATIONS

SL NO	Name of Person	Tittle	Volume	Journal	
1.	Dr. Y L Ajay kumar	Implementation of video Compression Based on Spatial-Temporal Resolution Adaptation pp. 758-763	Volume 13, Issue No:07, :ISSN NO: 0377-9254	Journal of Engineering Sciences	Jul-2022
2.	N.Naveen kumar	Implementation of video Compression Based on Spatial-Temporal	Volume 13, Issue No:07, :ISSN NO:	Journal of Engineering Sciences	Jul-2022

		Resolution Adaptation pp. 758-763	0377-9254		
3.	Dr.M.Sreeraj	Implementation of video Compression Based on Spatial- Temporal Resolution Adaptation pp. 758-763	Volume 13, Issue No:07, :ISSN NO: 0377-9254	Journal of Engineering Sciences	Jul-2022
4.	N.Naveen kumar	Design of novel adder for efficient image and video processing accelerators	Volume 13, Issue No:12, :ISSN NO: 0377-9254	Journal of Engineering Sciences	Dec-2022
5.	Dr. Y L Ajay kuma	Design of novel adder for efficient image and video processing accelerators	Volume 13, Issue No:12, :ISSN NO: 0377-9254	Journal of Engineering Sciences	Dec-2022
6.	N.Naveen kumar	Design of innovative 2-4 and 4-16 mixed- logic line decoders using cmos logic gates	Volume XIV,Issue XII,ISNN NO:0022-1945	Journal of inter disciplinary cycle research	Dec-2022
7.	Dr. Y L Ajay kumar	Design of innovative 2-4 and 4-16 mixed- logic line decoders using cmos logic	Volume XIV,Issue XII,ISNN NO:0022-1945	Journal of inter disciplinary cycle	Dec-2022

		gates		research	
8.	P.Chandana	Design of high performance VLSI multiplier with redundant binary compression	Volume 13, Issue No:12 :ISSN NO: 0377-9254	Journal of Engineering Sciences	Dec-2022
9.	Dr. Y L Ajay kumar	Design of high performance VLSI multiplier with redundant binary compression	Volume 13, Issue No:12, :ISSN NO: 0377-9254	Journal of Engineering Sciences	Dec-2022
10.	Y.Nirmala	Design of approximate multipliers by using hybrid technique	Volume XIV, Issue No:XII, ISSN NO: 0866-936	The international journal of analytical and experimental modal analysis	Dec-2022
11.	Dr. Y L Ajay kumar	Design of approximate multipliers by using hybrid technique	Volume XIV, Issue No:XII, ISSN NO: 0866-936	The international journal of analytical and experimental modal analysis	Dec-2022
12	B.V.Aravind	Design of high performance	Volume IX, Issue No:XII,	Journal of applied	Dec-2022

		prediction logic with dynamic timing error avoidance	ISSN NO: 1076-5131	science and computations	
13.	Dr. Y L Ajay kuma	Design of high performance prediction logic with dynamic timing error avoidance	Volume IX, Issue No:XII, ISSN NO: 1076-5131	Journal of applied science and computations	Dec-2022
14	N.Naveen kumar	Design of area-efficient and highly reliable RHBD10T memory cell for aero space applications	Volume IX, Issue No:XII, ISSN NO: 2278-4632	Juni khyat Journal	Dec-2022
15	B.V Aravind	Design of area-efficient and highly reliable RHBD10T memory cell for aero space applications	Volume IX, Issue No:XII, ISSN NO: 2278-4632	Juni khyat Journal	Dec-2022
16	G.Aruna kumari	Design of area-efficient and highly reliable RHBD10T memory cell for aero space applications	Volume IX, Issue No:XII, ISSN NO: 2278-4632	Juni khyat Journal	Dec-2022
17	Dr. Y L Ajay kumar	Implementation of efficient multi adder using GDI based hybrid digital circuits	ISSN:2231-3990	Alochana chakra journal	Aug-2020

18	Dr. Y L Ajay kumar	A Novel method to reduce area and power consuming arithmetic operation in FIR filter design	0886-9367,XII,8	IJAEMA	Aug -2020
19	N.Naveen kumar	Miniature insert feed of micro strip patch antenna the usage of defected ground shape for wireless program	ISSN:2454-9150	IJAREAM	Mar- 2021
20	P.Chandana	Miniature insert feed of micro strip patch antenna the usage of defected ground shape for wireless program	ISSN:2454-9150	IJAREAM	Mar- 2021

## 2. FDP/WORKSHOP/STTP/SEMINAR/WEBINAR

1. **Dr. Y L AjayKumar**, Participated in a fivedays offline FDP on “Introduction of Accreditation Mechanism & NBA Approach” during 11th May to 15thMay 2020 organized by Internal Quality Assurance Cell, Padm. Dr. V. B. Kolte College of Engineering, Malkapur (M.S.), India.
2. **N Naveen Kumar**, Participated in a Five Days Faculty Development Program on “Fundamentals of Electromagnetics” during 12<sup>th</sup> to 16<sup>th</sup> June 2023 organized by department of ECE, Vajra Institute of Technology. Gokarna, Karnataka.
3. **T G Tejaswani**, Participated in a Five days Faculty Development Program on “Introduction to ML, NLP and Chat Bot” during 31<sup>st</sup> March to 4<sup>th</sup> April 2023 organized by department of ECE, S.V Engineering ( Autonomous ), Tirupati, Andhra Pradesh.

4. **V Aruna Kumari**, Participated in a one week online Faculty Development Program on “Business intelligence & Big Data Analytic” during 9<sup>th</sup> Dec to 16<sup>th</sup> Dec 2021 organized by department of ECE, S.V Engineering ( Autonomous ), Tirupati, Andhra Pradesh.
5. **N Sravani**, Participated in an one week online FDP on "Tools for Scientific Communication and Effective Teaching" during 2<sup>nd</sup> June 2020 to 4<sup>th</sup> June 2020, organised by Dept of ECE, VAAGDEVICOLLEGE OF ENGINEERING, Vijayawada, Andhra Pradesh.

### 3. PATENTS

S.NO	Name of person	Title	Volume	Journal	Year
1	Dr. Y L Ajay kumar	Glitch - optimized circuit blocks for high - performance booth multipliers with low power	Volume XV, Issue No:IV, ISSN NO: 0022-1945	Journal of Interdisciplinary cycle research	APR-2023
2	Y.Nirmala	Glitch - optimized circuit blocks for high - performance booth multipliers with low power	Volume XV, Issue No:IV, ISSN NO: 0022-1945	Journal of Interdisciplinary cycle research	APR-2023
3	K.Sireesha	Volume XV, Issue No:IV, ISSN NO: 0022-1945	Volume XV, Issue No:IV, ISSN NO: 0022-1945	Journal of Interdisciplinary cycle research	APR-2023
4	Dr. Y L Ajay kumar	Volume XV, Issue No:IV, ISSN NO:	Volume XV, Issue No:IV, ISSN NO:	Journal of Interdisciplinary cycle research	APR-2023

		0022-1945	0022-1945		
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#### 4. MEMBERSHIP

The following faculty are having Membership in Prestigious Organizations:

Sl.No	Name of the Faculty	Designation	Registered Professional Society	Professional Society Number/Year
1	Dr. Y. L. Ajay Kumar	Associate Professor	IAENG	187849
2	Dr. N. Chitra	Associate Professor	IAENG	2021
3	G. Aruna Kumari	Associate Professor	IAENG	2021
4	B. V. Aravind	Assistant Professor	IAENG	2021
5	S. Shabbir Ali	Assistant Professor	IAENG	2021
6	N Naveen Kumar	Assistant Professor	IAENG	2021
7	Y.B.Shabber Hussain	Assistant Professor	IAENG	2021
8	Y. Nirmala	Assistant Professor	IAENG	2021
9	P Chandana	Assistant Professor	IAENG	2021
10	C. Karishma	Assistant Professor	IAENG	2021
11	M.Mounika	Assistant Professor	IAENG	2021
12	P. Bhuvanewari	Assistant Professor	IAENG	2021
13	K Sajida	Assistant Professor	IAENG	2021
14	E Ganga Saraswathi	Associate Professor	IAENG	2021
15	N. Yerri Swamy	Associate Professor	IAENG	2021
19	S. Shameera Begam	Assistant Professor	IAENG	2021
17	M.Suguneswari	Assistant Professor	IAENG	2021
18	G.S .Baba Junaid	Assistant Professor	IAENG	2021
19	N.Sravani	Assistant Professor	IAENG	2021
20	Shaik Jubeda Begum	Assistant Professor	IAENG	2021

21	C.Obulesu	Assistant Professor	IAENG	2021
22	Dr.M.V Sreeraj	Associate Professor	IAENG	2021
23	Dr.M.Chandrasekhar Reddy	Associate Professor	IAENG	2021
24	M.Ramesh Naidu	Assistant Professor	IAENG	2021
25	R.K.Thanush	Assistant Professor	IAENG	2021
26	V.Hari Prasad	Assistant Professor	IAENG	2021
27	M.Rajesh	Assistant Professor	IAENG	2021
28	B.Saimani	Assistant Professor	IAENG	2021
29	G.Mahesh	Assistant Professor	IAENG	2021
30	T.Shashidhar	Assistant Professor	IAENG	2021
31	K.Adinarayana	Assistant Professor	IAENG	2021
32	J.Mohammad Ghazi	Assistant Professor	IAENG	2021
33	V.Damodar	Assistant Professor	IAENG	2021
34	T.swarnalatha	Assistant Professor	IAENG	2021
35	K.valibabu	Assistant Professor	IAENG	2021
36	P.Hassena Bhanu	Assistant Professor	IAENG	2021
37	C.Shankar	Assistant Professor	IAENG	2021
38	B.Bhagya	Assistant Professor	IAENG	2021
39	L.Prasad Naik	Assistant Professor	IAENG	2021
40	J.Phaneendra	Assistant Professor	IAENG	2021
41	J.Hema Madhuri	Assistant Professor	IAENG	2021

## 5. PLACEMENTS

The following is the data of IV ECE (2019-23 Batch) B.Tech student Placements.

S.No.	Organization	CTC	Count
1	IBM	2.00	4

2	INTELLIPAAT	7.25	3
3	Kodnest	1.5	2
4	MAINTEC	1.6	29
5	QSPIDERS	1.0	2
6	RELIANCE SMSL	2.16	1
7	SBET	2.7	48
8	SUTHER LAND	2.5	30
9	Tes Digital	7	10
10	Tech Mahindra	1.8	46

**30** ALTS Students achieved Placements  
in the Leading Multinational Company

**7** **tcs** with the Highest  
Package of  
**LAKHS**  
Per Annum

**NAAC**  
ACCREDITED

**524+**  
PLACEMENTS  
IN 2022-23

**Anantha Lakshmi**  
INSTITUTE OF TECHNOLOGY & SCIENCES

**DIPLOMA : CSE | ECE | EEE**  
**B. TECH : ECE | ECE (VLSI) | CSE | CSM | CSD | EEE | CIVIL | Mech.**  
**MBA | MCA | M. TECH**

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## 6. INTERNSHIPS

III B.Tech ECE student B Shoba Rani bearing Roll No. 192G1A0414 has successfully completed the two months online internship on “Wireless Communication” From 10<sup>th</sup>Aug 2022 to 10<sup>th</sup>Oct 2022 organized by dept., of Electronics and Communication Engineering, in Open Silicon Pvt. Ltd., Bangaluru.

## CERTIFICATE OF INTERNSHIP

*This is to certify that Mr./Miss. BOYAPATI SHOBA RANI (192G1A0414) of B.Tech (ECE), students of ANANTHA LAKSHMI INSTITUTE OF TECHNOLOGY AND SCIENCES, Itikalapalli(V), S.K. University, Ananthapuramu (Dist.) Andhra Pradesh has completed his/her Internship/Industrial training program on WIRELESS COMMUNICATIONS collaboration with OPEN SILICON, BANGALORE for a period of 10 AUG 2022 to 10 OCT 2022.*

*Their conduct during the training period was satisfactory and we wish them all success for their future endeavor.*

*Warm Regards*

For Open-Silicon Research Private Limited

  
  
Syathia Kiran  
Director - Human Resources

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