

DEPARTMENT OF ECE
A HALF-YEARLY NEWSLETTER

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ADITYA
Institute of Technology and Management
(An autonomous institution)

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ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI (AUTONOMOUS)

Department of Electronic and Communication Engineering

Vision of the Institute:

To evolve into a premier engineering institute in the country by continuously enhancing the range of our competencies, expanding the gamut of our activities and extending the frontiers of our operations.

Mission of the Institute:

Synergizing knowledge, technology and human resource, we impart the best quality education in Technology and Management. In the process, we make education more objective so that the efficiency for employability increases on a continued basis.

Vision of the Department:

Create high-quality engineering professionals through research, innovation and teamwork for a lasting technology development in the area of Electronics and Communication Engineering.

Mission of the Department:

1. To offer a well-balanced Program of instruction, lab practices, research & development activities, product incubation.
2. Develop accomplished technical personnel with a strong background on fundamental and advanced concepts, have excellent professional conduct.
3. Enhance overall personality development which includes innovative and group work exercises, entrepreneur skills, communication skills and employability.
4. Ensuring effective teaching–learning process to provide in-depth knowledge of principles and its applications pertaining to Electronics & Communication Engineering and interdisciplinary areas.
5. Providing industry and department interactions through consultancy and sponsored research.

Message from Dr. K. Someswara Rao, CHAIRMAN



At AITAM, we are committed to excellence in everything we do. We strive to mould the students in balancing intellectual and practical skills to become leaders in all the fields of Technical know-how and Management. We have created the finest facilities for the students to make the most of their scholastic pursuits. We are closely aligned with the corporate world which ensures exchange of ideas and experiences that keep our curricula focussed on current developments and challenges in the field of engineering. We are firmly committed to research and consulting activities to contribute to the development of the discipline of engineering. Our vitality lies in our spirit of innovation. Our strength lies in our pragmatic approach. Our success lies in our will to do.

Message Sri L.L. Naidu, SECRETARY



Aditya Institute of Technology and Management is founded to meet the increasing demand for competent engineering graduates. Within a short span of its inception, AITAM has grown to be a premier engineering college of its kind and has won laurels and kudos from the industry. The faculty and staff in AITAM are dedicated to providing first-class education that instils strong and potent basic knowledge for sound practice in science and engineering for the well-being of the society. The Institute offers curricula that nurtures creative thinking and prepares students for productive and rewarding careers. The Institute offers programmes that deepen learning experiences of our students and prepare them for successful careers as engineers.

Message from Prof. V.V. Nageswara Rao, DIRECTOR



Engineering education at AITAM is indeed a rewarding intellectual experience. The Institute prepares the engineering professionals of tomorrow imbued with insight, imagination and ingenuity to flourish as successful engineers. Our programs are attuned to the needs of the changing times. The classrooms are ultra-modern; the library and labs are cutting-edge; and all the members of the faculty are workaholic professionals and masters in their fields. Not surprisingly, our students are recruited by such renowned organizations as HCL, Satyam, WIPRO, INFOSYS, TCS, Visual Soft, Innova-Solutions and InfoTech. The exceptional dedication of our students, faculty and staff, and our collaborations with Industry and other institutions ensure that the Institute is well-poised to create a unique niche in the horizons of engineering education.

Message from Dr. K.B. Madhu Sahu, PRINCIPAL



It is only through knowledge that man attains immortality. Knowledge has to expand or grow to remain as knowledge. The road to excellence is toughest, roughest and steepest in the Universe. The world requires and honors only excellence. Available information has to be directed by wisdom and intelligence to create new knowledge. Promotion of creativity is the new role of education. It is only through creative thinking that the present and future problems can be addressed to find dynamic solutions. Technology should be used to help remove poverty from the world. In fact forty per cent of the world's poor are in India. Confidence leads to capacity. It is faith in oneself that produces miracles. Education at AITAM helps build character, strengthen the mind, expand the intellect and establish a culture of looking at problems in a new perspective. The student is put through rigorous training so that he can stand on his own feet after leaving the portals of the Institute.

Message from Dr. Sateesh Kumar, H.O.D of ECE



Aditya Institute of technology and management (AITAM) is one among the reputed engineering colleges imparting finest quality education. The department of Electronics and Communication Engineering was established in the year 2001. Our aim is to produce graduates capable of effectively using professional skills with values for betterment of society and to meet the varying demands of industry and research environment. The department is well equipped with significant infrastructural design and state of art laboratories for both academics and research purpose.

Our department has a fine blend of a team of qualified and experienced faculty. The faculty members have excellent academic credentials. The notable asset of our department is the available diversity of expertise and highly motivated, well experienced faculty members ensure quality education from our department. The faculty and students are associated with memberships of professional bodies such as Institution of Electronics and Telecommunications Engineering (India), Institution of Engineers (India), Indian Society for Technical Education.

Our students earned name and fame all over the globe and rendering best of their services to topmost companies. The department of ECE endeavors to provide to our students best professional opportunities and look forward their bright future. We as a team resolve to take the department to heights of success and prepare our students for future challenges. We are striving hard continuously to improve upon the quality of education. Our goal is to ensure that the education we provide opens the doorway to greater opportunities.

Faculty Achievements

1. M. Lakshmu Naidu, Dr.B. Rama Rao, M. Bala Krishn Assist.Prof, Prof. Assit.Prof published a paper titled Design and Implementation of Pentagon Patch Antennas with slit for Multiband Wireless Application
2. Dr.B. Rama Rao Prof published a paper titled Modified Phase Sequence in Hybrid Pts Scheme for PAPR Reduction in OFDM Systems Springer Nature Singapore Pte Ltd. 2019 H. S. Saini et al. (eds.), Innovations in Electronics and Communication Engineering, Lecture Notes in Networks and Systems 33
3. M.Lakshmu Naidu, B.Rama Rao Assist.Prof, Prof. published a paper titled Compact Spiral Shape Microstrip Patch Antenna for LTE Applications with Defected Ground Structure International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-6S3, April 2019.
4. Dr B. Rama Rao published a paper titled IMPLEMENTATION OF FPGA-BASED ARTIFICIAL NEURAL NETWORK (ANN) FOR FULL ADDER
5. M. Chaitanya Kumar, M. Bala Krishna, Laxmi Vandana, P. Sirish Kumar Assist.Prof. published a paper titled SMART PARKING SOLUTIONS – IT'S NOT ABOUT THE PARKING
6. HARIHARA SANTOSH DADI Assoc.Prof. published a paper titled HUMAN TRACKING USING WEIGHTED RUNNING WINDOW BACKGROUND MODEL BASED GMM 2019 JETIR January 2019, Volume 6, Issue 1 www.jetir.org (ISSN-2349-5162) JETIR1901109 Journal of Emerging Technologies and Innovative Research (JETIR)
7. Anil Kumar Bethapudi, D.V.L.N Sastry, P. Kameswara Rao J. Swathi Assistant Professor published a paper titled MEDICAL IMAGE ENHANCEMENT BY HYBRID IMAGE FUSION TECHNIQUE International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056
8. Ch. Rajasekhara Rao, K. Krishnam Raju, L. Rambabu Assoc.Prof, Assistant Professor published a paper titled IMPLEMENTATION OF MESI PROTOCOL USING VERILOG International Conference on Communication and Signal Processing, April 4-6, 2019, India
9. Lalitha Bhavani Konkyana Assoc.Prof, published a paper titled A Review on Microstrip Antennas with Defected Ground Structure Techniques for Ultra-Wideband Applications *International Journal on Engineering Applications (I.R.E.A.)*, Vol. 7, N. 3 ISSN 2281-2881 May 2019
10. Lalitha Bhavani Konkyana Assoc.Prof, published a paper titled Design and Analysis of Dual Notch Band Ultra-Wide Band Antenna Using Complementary Split Ring Resonator for Wireless Applications International Conference on Communication and Signal Processing, April 4-6, 2019, India
11. Lalitha Bhavani Konkyana Assoc.Prof, published a paper titled Comparative Analysis of Three Single Trait Biometric Authentication Models
12. P. Sirish Kumar P. Krishna Rao Y. Srinivasa Rao Assist.Prof, published a paper titled COMPARISON OF DIFFERENT MEASUREMENT APPROACHES FOR LOCATING THE RECEIVER POSITIONING SYSTEMS International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-00563
13. P Krishna Rao, Assist.Prof, published a paper titled Enhancement of Old Images and Documents by Hybrid Binarization Techniques
14. P. Sirish Kumar, Sanapala Umamaheshwararao, M. Bala Krishna, L. Rambabu, Assist.Prof, published a paper titled CONGESTIVE HEART FAILURE RECOGNITION BY ANALYZING THE ECG SIGNALS USING WAVELET COEFFICIENTS International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-9, July 2019

15. S Umamaheswararao, M N V S S Kumar Assist.Prof, Assoc.Prof published a paper titled Investigation of underwater sound wave propagation characteristics for channel modelling
16. P Sirish Kumar Assist.Prof, published a paper titled A Hypothetical Analysis on GPS Evolution, Error Sources, Accuracy Measures and Positioning Services
17. J Swathi, Dr B. Rama Rao Assist.Prof., Prof published a paper titled Design of compact broadband microstrip antenna For uwb applications

NPTEL COURSES DONE BY FACULTY

S.No.	Name of the faculty	Name of the NPTEL course registered	Certificate awarded: Elite+Gold/Elite/Successful completion etc.	Duration of the course (in Weeks)
1	<i>Dr. A.S. Srinivasa Rao</i>	Principals of communications	Successful completion	12
2	<i>Dr. G. Sateesh Kumar</i>	Principals of communications	Successful completion	12
3	<i>Dr. B. Rama Rao</i>	Digital signal process	Successful completion	12
4	<i>Sri M.V.H.B. Murthy</i>	Principals of communications	Successful completion	12
5	<i>Sri G.S.S.S.S.V.K. Mohan</i>	Process control	Successful completion	12
6	<i>Sri D. Yugandhar</i>	Digital signal process	Elite	12
7	<i>Sri M. S. R. Naidu</i>	Electronic circuits	Elite	12
8	<i>Smt. K. V. L. Bhavani</i>	Principals of communications	Successful completion	12
9	<i>D.H.H.Santosh Kumar</i>	Digital signal process	Elite+Top5%	12
10	<i>Smt. A. Jayalaxmi</i>	Biomedical signal process	Elite	12
11	<i>Sri M. Balakrishna</i>	Digital signal process	Elite+Top5%	12
12	<i>Sri DVLN Sastry</i>	Microprocessor and Microcontroller	Elite	12
13	<i>Sri T. Viswanadham</i>	Microprocessor and Microcontroller	Elite	12
14	<i>Ms. Vandana Laxmi</i>	Biomedical signal process	Elite	12
15	<i>Smt. J. Swathi</i>	Biomedical signal process	Elite	12
16	<i>Sri B. Anil Kumar</i>	Microprocessor and	Elite	12

		Microcontroller		
17	<i>Sri P. Kameswara Rao</i>	Microprocessor and Microcontroller	Successful completion	12
18	<i>B.Jyothi</i>	Biomedical signal process	Successful completion	12

Student Achievements

S.No	Year	Name of Student	Achievement / Award
2018-19			
1	I ECE	POTNURU PRANEETHA	GOLD MEDAL
2	I ECE	SANAPALA REVATHI	SILVER MEDAL
3	II ECE	PAIDI SIREESHA	GOLD MEDAL
4	II ECE	KURMANA SAISANTOSH	SILVER MEDAL
5	III ECE	RANGOYI JEEVITHA	GOLD MEDAL
6	III ECE	BAMMIDI HARITHA	SILVER MEDAL
7	IV ECE	RANGOYI JEEVITHA	GOLD MEDAL
8	II ECE	KITTALI JAGADEESH	BHAGHYALAXMI AWARD
9	II ECE	KARANAM SUDHARSAN	BHAGHYALAXMI AWARD

INDUSTRIAL TOURS

The III ECE students went on a long tour that includes an industrial visit to **RAM TECH, Hyderabad** and excursion trip to Bangalore, Hyderabad, Chennai and Ooty.

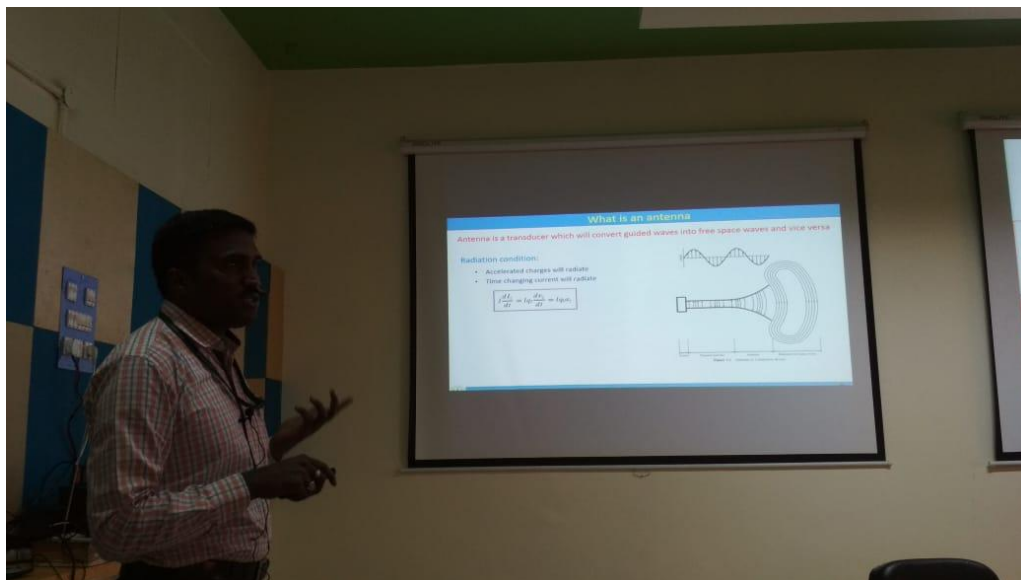


Guest lecture

1. Sri. A Rajesh gave a guest lecture on wireless communication



2. Sri. Dr.K. Ranga RAO gave a guest lecture on patch antenna



3. Dr. S. Ramarao gave a guest lecture on Faculty development



The AITAM students went on Football match at LBRCE Millavaram



EXTENSION ACTIVITIES

CULTURAL PROGRAMMES (ASPIRE2K18)

ECE department students participated in cultural programmes in ASPIRE2K19.







Editorial Board

STAFF:

Dr. P.Prasantham(BS&H)

P.Kameswara Rao

STUDENTS:

Yaswanth Kumar, III- ECE-C



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