

DEPARTMENT OF ECE

A HALF-YEARLY NEWSLETTER

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ADITYA

Institute of Technology and Management

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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.

JULY 2015-DECEMBER 2015

Faculty publications

1. M N V S S Kumar A new method of target tracking by EKF using bearing and elevation measurements for underwater environment Vol 74, Issue 1, Pp 221-228 Dec, 2015 0921-8890
2. M.N.V.S.S Kumar GPS C/A Code Multipath error Estimation for Surveying applications in Urban Canyon Volume 372, pp:135-142 Dec, 2015 978-81-322-2728-1
3. Sri A. S. Srinivasa Rao Analysis of steganographic colour image by using integer wavelet transformation Vol 10, Issue 2, Pp 66-76 October, 2015 2454-1796
4. M Jayamanmadharao Sorensen filter for impulse noise removal Vol 10, Issue 17, Pp 37639-37644 Sep, 2015 0973-4562
5. A. S. Srinivasa Rao Audio Forensic Using DWT – LSB Vol6, Issue 6, Pp 8-15 August, 2015 0976 – 6464
6. A Rajesh Impact of Receiver systems and channels parameters on distributes computing power ratio in OFDMA based wireless distributed computing network Vol.4, Issue 8, Pp 44-48 August, 2015 2278-1021
7. V. Ashok Kumar Performance Evaluation of Edge Directional Image Interpolation Scheme Vol 6, Issue 4, Pp 606-611 Aug, 2015 2229-6093
8. M L Naidu, L Rambabu Smart antenna system design using adaptive beam forming algorithms to minimize noise Vol 4, Issue 7, Pp 2322-2325 July, 2015 2278-7798
- 10 A. S. Srinivasa Rao An Approach to Manage Handover Decision Process in Heterogeneous Networks Using Fuzzy Logic Vol.10, Issue 11, Pp 28023 – 28030 July, 2015 0973 – 4562

FACULTY CONFERENCES

1. Dr. MNVSS Kumar Assoc. Professor, has presented a paper titled Analysis of X - ray images based on orthogonal wavelets for detection of minute fractures International conference on advances in signal processing and communications - 2k15 at Narasaraopet Eng. College, Guntur Dist. 4th & 5th July 2015
2. Dr. MNVSS Kumar Assoc. Professor, has presented a paper titled Hyperbolic multilateration to determine location of an unknown target International conference on advances in signal processing and communications - 2k15 Narasaraopet Eng. College, Guntur Dist. 4th & 5th July 2015
3. Dr. MNVSS Kumar Assoc. Professor, has presented a paper titled Analysis of chirp technology sonar mounted on AUV International conference on advances in signal processing and communications - 2k15 at Narasaraopet Eng. College, Guntur Dist. 4th & 5th July 2015
4. Dr. MNVSS Kumar Assoc. Professor, has presented a paper titled Convergence issues of Taylor series method in determining unknown target location using hyperbolic multilateration International conference on science, & Management research Vel Tech multitech Dr. Rangarajan Dr. Sakunthala Engg. College, Chennai, Tamilnadu, INDIA

5. Dr. MNVSS Kumar Assoc. Professor, has presented a paper titled Analysis of X-ray images using MRA based biorthogonal wavelets for detection of minute fractures International conference on science, & Management research Vel Tech multitech Dr. Rangarajan Dr. Sakunthala Engg. College, Chennai, Tamilnadu, INDIA
- 8 Dr. MNVSS Kumar Assoc. Professor, has presented a paper titled Performance evaluation of standard positioning service GPS receiver with LS & LQ estimators over southern region of Indian sub continent International conference on science, & Management research Vel Tech multitech Dr. Rangarajan Dr. Sakunthala Engg. College, Chennai, Tamilnadu, INDIA.
- 9 M.N.V.S.S Kumar Assoc.Professor, has presented a paper titled GPS C/A Code Multipath error Estimation for Surveying applications in Urban Canyon Springer LNEE Series on Microelectronics, Electromagnetics and Telecommunications GITAM, Dec 2015

FACULTY DEVELOPMENT PROGRAMME/WORKSHOPS ORGANIZED

1. A Five Day International Workshop on “Reviving Education by Implementing Active & Guided Inquiry Experiences in Science, Technology, Engineering, Math & Management (REIMAGINE STEM)” A Faculty development Programme (FDP) was organized in the CSE department from 3rd -7th Aug, 2015 , Supported by EnhanceEdu, IIIT Hyderabad. The resource persons were Dr. Clifton Kussmaul, Muhlenberg College, USA, Dr. Kelly Butler, Chestnut Hill College, USA & Fulbright-Nehru Scholar at VNRVJIET, Hyd, Prof. Sandhya Kode, Director, EnhanceEdu, IIIT-Hyderabad.

STUDENTS PARTICIPATION

1. K. Vijay Kumar 14A55A0412 III ECE-A has participated in paper presentation event on TECHNOZION, NIT WARANGHAL 30, 31 November, 2015
2. H. Shanmukha rao(13A51A0455) B. Bhagavath Dev(13A51A0414) III ECE-A has participated in paper presentation event on TECHNOZION, NIT WARANGHAL 30, 31 November, 2015
3. B. Surendra (13A51A0418) Jesse Evans (13A51A0413) III ECE-A Has participated in paper presentation event on TECHNOZION, NIT WARANGHAL 30, 31 November, 2015
4. A.L. Prasanna (14A51A0404) B. Sweth (14A51A0426) II ECE-A has participated in paper presentation event on TECHNOZION, NIT WARANGHAL 30, 31 November, 2015
5. K.G. Prasanna (14A51A0471) II ECE-B has participated in paper presentation event on GUSAC CARNIVAL, GITAM, VIZAG 8th -10th. October-2015
6. M. Anil Kumar (14A51A0488) II ECE-B Has participated in paper presentation event on TECHNICHE, IIT GOUHATI 3rd -6th September- 2015
7. V. Vinay (14A51A04G3) II ECE-C Has participated in paper presentation event on TECHNICHE, IIT GOUHATI 3rd -6th September- 2015

STUDENT ACHIEVEMENTS

S.No.	Nature of the Activity	Student Name & Regd. No.	Class	Name of the Event And Venue	Dates
1	PPT on A New Revolutionary System to detect human beings buried under earth quack rubble by Microprocessors and Microcontrollers	K. Vijay Kumar 14A55A0412	III ECE- A	TECHNOZION, NIT WARANGHAL	30, 31 November, 2015
2	FOXHUNT	H. Shanmukha rao (13A51A0455) B. Bhagavath Dev (13A51A0414)	III ECE- A	TECHNOZION, NIT WARANGHAL	30, 31 November, 2015
3	FOXHUNT	B. Surendra (13A51A0418) Jesse Evans (13A51A0413)	III ECE- A	TECHNOZION, NIT WARANGHAL	30, 31 November, 2015
4	AREIAL TRAMLIN	A.L. Prasanna (14A51A0404) B. Swetha (14A51A0426)	II ECE- A	TECHNOZION, NIT WARANGHAL	30, 31 November, 2015
5	PPT	K.G. Prasoon (14A51A0471)	II ECE- B	GUSAC CARNIVAL, GITAM, VIZAG	8 th -10 th , October-2015
6	PPT	M. Anil Kumar (14A51A0488)	II ECE- B	TECHNICHE, IIT GOUHATI	3 rd -6 th September- 2015
7	PPT	V. Vinay (14A51A04G3)	II ECE- C	TECHNICHE, IIT GOUHATI	3 rd -6 th September- 2015

INDUSTRIAL TOURS

Year	Section	Date(s) of visit	Place
III	ECE-C	22/11/15	Radar Visakhapatnam



GUEST LECTURES

1. Dr. D.Ranghanath, Deputy director doordarshan, has delivered a guest lecture on Global positioning system On 18-07-15



2. Dr.Raj kumar goswamy, Indian Navy Commodore, visakhapatnam, has delivered a guest lecture on Advanced communication systems On 25-07-15
3. Sri Y.Gopala rao, Rtd Professor A.U, has delivered a guest lecture on Antennas On 01-08-15

4. Sri G.Tirumalarao , Rtd Professo , has delivered a guest lecture on Image processing On 01-08-15 Prof S.K.Nayak, has delivered a guest lecture on Embedded systems On 16-08-15



Editorial Board

Faculty:

1. Dr.P. Prasantham
2. P.Kameswara Rao

STUDENTS:

1. B. Aswini , IV-ECE- A
2. P. Ravi Teja, IV-ECE-B
3. T. Ravi Sankar, IV-ECE-C



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