

DEPARTMENT OF ECE

A HALF-YEARLY NEWSLETTER

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| AY: 2013-14 | July-Dec | Vol. 6 | Issue - 1 |
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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. A. S. Srinivasa Rao, H.O.D of ECE



Aditya Institute of Technology and Management (AITAM) is one among reputed technical institutes imparting finest quality education. The Electronics and Communication Engineering Department of this institute over the past twelve years has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation. The motivating environment in AITAM for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for environment has carved a niche for itself among the best technical institutes.

In AITAM especially Electronics and Communication Engineering, it is believed and practiced that excellence is a continuous process and in pursuit of which the institute has made deep forays into contributing world renowned technocrats, successful entrepreneurs, competent leaders, innovative scientists and researchers.

Dear Students,

"A desire can change nothing, a decision can change something but a determination can change everything".

Life is a set of problems. You have to solve problems in the domain areas with strong innovative ideas with scientific knowledge. Your commitment to become an engineer by devoting four year academic journey in Electronics and Communication Engineering of AITAM will be fruitful and enjoyable in every aspect and the experience you gain from here and the moments you spend here will be cherished by you throughout your life.

JULY -DECEMBER 2013

FACULTY PUBLICATIONS

1. Prof. A.S. Srinivasa Rao Professor, published a paper titled Design and Analysis of Array Weighted Wide Band Antenna using FRFT IN IAJIT & JARQA University, Jordan Vol.10, Issue 4, July 2013 1683-3198
2. Sri V. Lokesh Raju Associate Professor, published a paper titled Adaptive Histogram and Inter Channel Correlation Based Video Enhancement in IJRRECS Vol 1, Issue 6, Oct, 2013 2321-5461
3. Smt KVL Bhavani Associate Professor, published a paper titled Secure Communication in Low SNR Regime Over Fading Channels in MIMO in IJERA & IJERA Vol 3, Issue 6, Nov-Dec 2013 2248-9622.
4. Smt A. Jayalaxmi Assistant Professor, published a paper titled Analysis of Polynomial Windows for FIR Filters for Better Spectral Response in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 12, Dec 2013 2278-0181
5. Sri K. Krishnam Raju Assistant Professor, published a paper titled Analysis of Polynomial Windows for FIR Filters for Better Spectral Response in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 12, Dec 2013 2278-0181
6. Sri M. Chaitanya Kumar Assistant Professor, published a paper titled Analysis of Polynomial Windows for FIR Filters for Better Spectral Response in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 12, Dec 2013 2278-0181
7. Sri Y. Srinivasa Rao Assistant Professor, published a paper titled Convolution Theorem for Fractional Laplace Transform in IJECIERD & Trans Stellar Vol 3, Issue 4 Oct 2013 2249-684x
8. Sri M.S.R. Naidu Associate Professor, published a paper titled Convolution Theorem for Fractional Laplace Transform in IJECIERD & Trans Stellar Vol 3, Issue 4 Oct 2013 2249-684x
9. Sri P. Sirish Kumar Assistant Professor, published a paper titled Lowpower and Area Efficient Carry Select Adder in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 12-Dec 2013 2278-0181
10. Sri P. Sirish Kumar Assistant Professor, published a paper titled Effective Digital Water Marking Approach using Combined DWT-DCT in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 11 Nov- 2013 2278-0181
11. Sri P. Sirish Kumar Assistant Professor, published a paper titled Performance of Data Services in Cellulor CDMA in Presence of Soft HO Beam Forming and Packet Combining in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 10, Oct 2013 2278-0181
12. Sri P. Sirish Kumar Assistant Professor, published a paper titled Modelling Simulation and Capacity Analysis of Spacially correlated Channel MIMO System in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 10 Oct-2013 2278-0181
13. P.V. Muralidhar Associate Professor published a paper titled "Noise Removal in Cardiac Signal by Shadow Design Filters". IJERT, Volume: 2, issue :10, October 2013
14. P.V. Muralidhar Associate Professor published a paper titled "Analysis of Clonal Algorithm based Window using Fractional Fourier Transform". IJERT, Volume: 2, issue :10, October 2013

- 15 Sri S. Umamaheswara Rao Kumar Assistant Professor, published a paper titled BER Analysis of Heavily Loaded DS-CDMA System by using RMD / MS-MMSE Detection Technique in IJCECE & WAIRCO Vol 1, Issue 1 Dec 2013 2357-2809
- 16 Sri M.V.H. Bhaskara Murthy Associate Professor published a paper titled VLSI Implementation Huffman Decoder using Binary Tree Algorithm in IAEME & IJECET Vol 4, Issue 6, PP 85-92, Nov-Dec 2013 0976-6464
- 17 Sri V. Ashok Kumar Associate Professor published a paper titled Effective Digital Water Marking Approach using Combined DWT-DCT in IJERT & ESRSA Publication Pvt. Ltd Vol 2, Issue 11, Nov- 2013 2278-0181
- 18 Prof. A.S. Srinivasa Rao Professor published a paper titled "Analysis of Clonal Algorithm based Window using Fractional Fourier Transform". IJERT, Volume: 2, issue :10, October 2013
- 19 Prof. A.S. Srinivasa Rao Professor published a paper titled "Noise Removal in Cardiac Signal by Shadow Design Filters". IJERT, Volume: 2, issue :10, October 2013

FACULTY CONFERENCES

1. Sri P.V. Muralidhar Associate Professor, has presented a paper titled 'Generalization of Windows using Discrete Fractional Fourier Transform' International Conference on Innovations in Engineering and Technology Bangkok, Dec 25,26- 2013
2. Sri T. Viswanadham Assistant Professor, has presented a paper titled 'Generalization of Windows using Discrete Fractional Fourier Transform' International Conference on Innovations in Engineering and Technology Bangkok, Dec 25,26- 2013
3. Sri B. Rama Rao Associate Professor has presented a paper titled CPW - FED Monopole Antenna with L Shape and Stair Shape Slot for Dual Band WLAN / WIMAX Applications International Conference on Innovations in Engineering and Technology Bangkok, Dec 25,26- 2013
4. Sri. P.V. Muralidhar Associate Professor, published a paper titled Convolution Theorem for Fractional Laplace Transform International Conference on IJECIERD & Transteller Vol.3, Issue 4, Pp: 37-40, Oct, 2013 2249-684X (Print), 2249-7951 (Online)
5. Sri. B. Rama Rao Associate Professor, published a paper titled Design of Circular with triangle Microstrip Fractal Antenna for Dual Band and UWB Applications International Conference on IJSER & IJSER Vol. 4, Issue 7, Pp: 1203-1206, July, 2013 2229-5518.
6. Sri. P.V. Muralidhar Associate Professor, published a paper titled Convergence Newton-Codes Quadrature of Difference Sampling Period to Bilinear Transformation International Conference on IJECCE & IJECCE Vol. 4, Issue 4, Pp: 1282-1284 July, 2013 2249-071X

FACULTY DEVELOPMENT PROGRAMME/WORKSHOPS/CONFERENCES ATTENDED

1. Prof. A.S. Srinivasa Rao Professor 15th to 20th July, 2013 QIP Short Term Course on Fundamentals of Signal Processing for Antenna Arrays IIT, Kharagpur
2. Prof. A.S. Srinivasa Rao Professor, Sri. G. Sateesh Kumar Associate Professor, Sri. D. Yugandhar Associate Professor, Sri. B. Rama Rao Associate Professor & Sri. P.V. Muralidhar Associate Professor on 30th & 31st Aug, 2013 National Workshop on Advances in Signal Processing (NWASP-13) Andhra University, Visakhapatnam Workshop.
3. Sri. P.V. Muralidhar Associate Professor 30th Sep, 2013 Short Term Course on Pedagogy Training (Basic Module) NITTTR, Chandigarh Short Term Course

4. Sri. Ch. Rajasekhar Sri. M V H B Murthy. Sri. K Chitambara Rao Associate Professors Smt. A Jaya Laxmi Smt. E Jaya Smt. J Swathi Sri. K Krishnam Raju Ms. Laxmi Vandana Sri. M Chaitanya Kumar Sri. T Viswanath Sri. N Ashok Kumar Sri. P Kameswara Rao Sri. P Krishna Rao Sri. P Sirish Kumar Assistant Professors 19-25, August, 2013 A One week workshop on Global navigation and Satellite Systems AITAM, Tekkali Workshop

GUEST LECTURES

1. Prof S.K.Nayak has delivered a guest lecture on Applications of Dsp on 06-07-13
2. Dr. D.Ranganath, Deputy director doordarshan has delivered a guest lecture on Advanced communication systems on 13-07-13
3. Sri R.Radhakrishna, senior consultant CTS, Hyderabad has delivered a guest lecture on Testing methodologies in SDLC on 27-07-13
4. Prof G.Tirumalarao has delivered a guest lecture on Noise reduction techniques in image processing on 03-08-13



5. Sri K.Maleeswararao, associate consultant, TCS Hyderabad has delivered a guest lecture on Software skills on 31-08-13



6. Sri D.Pavan ,scientist C,ISRO has delivered a guest lecture on Antennas on 21-09-13



**Editorial Board
Faculty**

1. P.Kameswara Rao
2. L Rambabu

Students

1. D.Manohar, IV-ECE-A
2. K.Sravani, VECE-A
3. P.Gopi, IVECE-B



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