

DEPARTMENT OF ECE
A HALF-YEARLY NEWSLETTER

AY: 2020-21	Jan-June	Vol. 14	Issue - 2
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ADITYA
Institute of Technology and Management
(An autonomous institution)

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ADVITYA 2K20

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. A. S. Srinivasa Rao, PRINCIPAL



It is only through knowledge that man attains Prosperity. Prosperity has to expand or grow to become excellence. The road to excellence is toughest, roughest and steepest in the universe. The world requires and honours only excellence. Excellence has to be acquired from wisdom and intelligence to establish innovation. Promotion of innovation is the new role of education. It is only through innovative thinking the present and the future challenges can be addressed to find dynamic solutions. Technology, a part of excellence, is helpful in removing poverty from the world. According to the statistics 40% of the world's poor are in India. Solution to this challenge relies on Technocrats with confidence and self-reliance. AITAM is the pioneering platform for this expected output. The institution mends the students in building character, strengthening mind, expanding intellect and establishing the vision with a new perspective. The student of AITAM is prepared through rigorous training that makes him to stand on his own feet to lead a prosperous career and life.

Message from Dr. D YUGANDHAR, 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. The department has experienced and well qualified faculty members, well equipped laboratories such as Digital Signal Processing Laboratory, Communication and Microwave Engineering Laboratory, VLSI Design Laboratory, Microprocessor Laboratory and Antenna Design/ Simulation Laboratory etc. 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. Our department has a fine blend of a team of qualified and experienced faculty. We are committed to give our students an outcome based education through outcome based teaching and learning process which provides them an environment to develop critical thinking and problem-solving skills as they advance through the programme. 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. We as a team resolve to take the department to heights of success and prepare our students for future challenges. The activities like Expert Lectures, Site Visits, Technical Events, Sports and Cultural Events, Soft Skills etc widens their horizon and avert them from being monotonous with academics. To conclude, the department catalyzes and assures a very healthy, amicable but a competitive ambience for our future engineers.

Faculty Achievements

1. D.V.L.N.Sastry, P.Kameswar Rao, V.Laxmi, A.Jayalaxmi, J.Swathi, Assist.Prof, published a paper titled Design of Hybrid-optimized Digital FIR Low pass Filter *Compliance Engineering Journal Volume 12, Issue 4, 2021 pages 28-32*
2. **Dr.K.V. Lalithabhavani** Assocs.Prof published a paper titled Kuznets curve with parabolashaped ultra-wideband antenna with defected ground plane for communications Emerald Publishing Limited Vol.No.17, Issue 3, pp.349-359 Date 17th June 2021 1742-7371
3. Dr. Kiran Kumar Patro, Assist.Prof Dr.M.J.M.Rao Prof, published a paper titled Noise removal in long term ECG signals using EMD based threshold method Lecture Notes in Data Engineering and Communication Technologies, Springer, (SCOPUS) Vol. 63, pp.461-469, May-2021
4. Dr. G. Sateesh Kumar. Prof, published a paper titled Secure Opportunistic Watchdog Production in Wireless Sensor Networks: A Review Springer & Wireless Personal Communications 28-04-2021 <https://doi.org/10.1007/s11277-021-08542-9>
5. Dr. G. Sateesh Kumar. Prof, published a paper titled Secure watchdog selection using intelligent key management in wireless sensor networks Elsevier & Materials Today 23-02-2021 <https://doi.org/10.1016/j.matpr.2020.12.10277>
6. Dr. G. Sateesh Kumar. Prof, published a paper titled Residential energy management system using IoT Elsevier & Materials Today 4 January 2021. <https://doi.org/10.1016/j.matpr.2020.10.272>

FDP Attended by the faculty

Dr. D.Yugandhar

1. Applied Deep Learning & Computer Vision for Image & Video Analysis two week workshop jun 21
2. Research trends and practical applications on signal processing & VLSI july 21

Dr.GSSSSV Krishna Mohan

1. Machine learning using python programming 10th to 16th June, 2021

Dr.K.V.L.Bhavani

1. Machine learning using python programming 10th to 16th June, 2021

E.Jaya

1. Machine learning using python programming 10th to 16th June, 2021

K.Krishnam Raju

1. Research trends and practical applications on signal processing & VLSI 18 th to 22 nd june 2021

Y.SRINIVASARAO

1. Physical layer techniques for 5G technologies 1 st to 7th july 2021

Dr. P. Sirish Kumar

Online FDP 7th - 9th June, 2021

26th June- 1st July, 2021

july 1st-July 6th, 2021

Dr.D.H.H.Santhosh

Physical layer techniques for 5G technologies 1 st to 7th july 2021

M.Bala krishna

1. Machine learning using python programming 10th to 16th June, 2021
2. Nano-materials & Nanomechanics and their application in devices and sensors 28-06-21-6 to 02-07-21
3. Research trends and practical applications on signal processing and VLSI 18-06-21 to 22-06-21

B.Rama Rao

1. Wireless communication technologies 21-06-2021 to 25 -06 2021
2. Nano-materials & Nanomechanics and their application in devices and sensors 28-06-21-6 to 02-07-21
3. Research trends and practical applications on signal processing and VLSI 18-06-21 to 22-06-21

Dr. M.V.H.Bhaskara Murthy

1. 1NBA Accreditation Process 28-06-21 to 02-07-21
2. Machine learning using python programming 10th to 16th June, 2021
3. Wireless Communication Technologies 21-06-21 to 25-06-21

Webinar attended by faculty

1. Krishna Mohan GSSSSV MBA Webinar 17th April, 2021 Online AITAM, Tekkali

Workshops attended by faculty

1. Chiranjeevulu Divvala attended Webinar Online Chebrolu Engineering College 23-05-2021
2. Chiranjeevulu Divvala attended Webinar Online Aditya Institute of Technology and Management, Tekkali. 27-02-2021
3. Chiranjeevulu Divvala attended Webinar Online Chebrolu Engineering College 23-05-2021
4. Chiranjeevulu Divvala Webinar Online PACE Institute of Technology and Sciences 08-07-2021
5. Chiranjeevulu Divvala attended FDP Online Narayana Engineering College, Guduru 01-

07-2021 to 06-07-2021

6. Chiranjeevulu Divvala attended FDP Online Electronics and ICT Academy IIT Guwahati 12-07-2021 to 23-07-2021
7. Dr. P. Sirish Kumar attended Workshop May Online Pantech Prolabs Pvt, Ltd 24- May 28, 2021
8. Dr. P. Sirish Kumar attended Workshop Online Pantech Prolabs Pvt, Ltd May 17th- June 17th, 2021
9. Dr. P. Sirish Kumar attended Workshop Online Pantech Prolabs Pvt, Ltd June 28- July 2, 2021
10. Dr. P. Sirish Kumar attended Workshop Online Pantech Prolabs Pvt, Ltd July 5- July 9, 2021
11. Dr. P. Sirish Kumar attended Workshop Online Pantech Prolabs Pvt, Ltd July 5- July 9, 2021
12. M.Balakrishna attended FDP Online "Atal Bihari Vajpayee Indian Institute of Information Technology and Management." 21-06-2021 to 25 -06 2021
13. B.Rama Rao attended FDP Online "Atal Bihari Vajpayee Indian Institute of Information Technology and Management." 21-06-2021 to 25 -06 2021

NPTEL COURSES DONE BY FACULTY

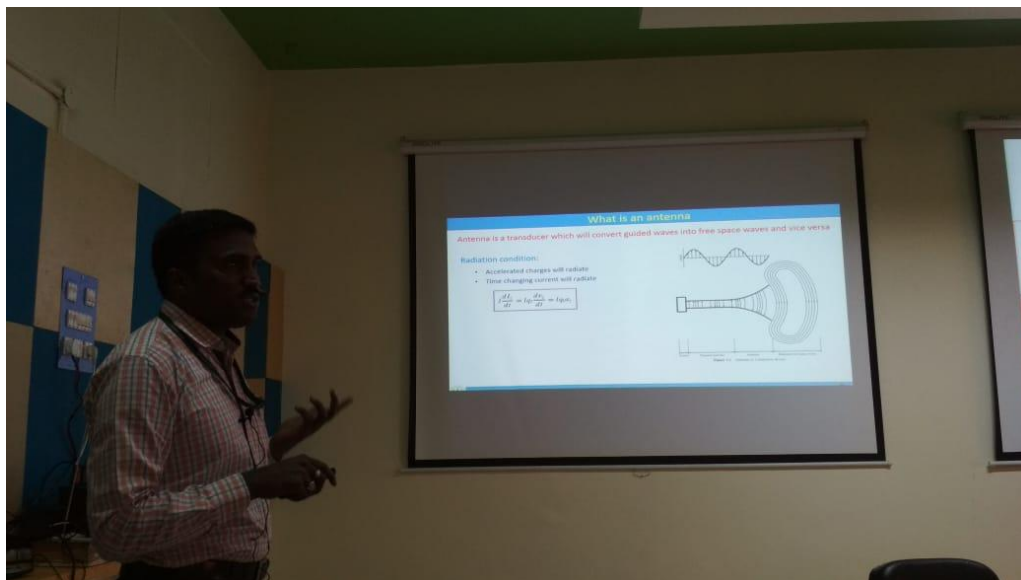
S.No.	Name of the faculty	Name of the NPTEL course registered	Certificate awarded: Elite+Gold/Elite/Successful completion etc.	Duration of the course (in Weeks)
1	<i>Ms. Vandana Laxmi</i>	Physics of materials	Elite	8
2	<i>Ms. Vandana Laxmi</i>	Solar photo voltaics	Elite	8

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



EXTENSION ACTIVITIES

Programme 1

Activity name : Food ball

Date : 09-11-2019



Brief report:

As a part of college level food ball championship at LBRC Millavaram students got a first place

Programme 2

Activity Name : Free Dental check up

Date : 28-12-2019



Brief report:

As a part of health check-up, a free dental check-up camp was successfully organized in the college campus by Dr. J.Bala Prasad dental hospital, Tekkali. The camp was conducted for drivers, sweepers and students.

No of students attended : 300

No of Faculties attended : 20

Editorial Board

STAFF:

P.Kameswara Rao

STUDENTS:

K.Santhosh Kumar, II- ECE-C

P.Sandeep, III-ECE-C

L.Sravni, IV- ECE-B



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