DEPARTMENT OF ECE

A HALF-YEARLY NEWSLETTER

AY: 2017-18	Jan-June	Vol. 10	Issue - 2

ADITYA

Institute of Technology and Management

(An autonomous institution)

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ADITYA INISTITUTE 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. MSR Naidu, Assoc.Prof, published a paper titled Shannon and Fuzzy entropy based Evalutionary Image Thresholding for Image Segmentation Alexandria Engineering Journal hosted by ELSEVIER (2018) 57,1643-1655
2. Dr. B. Rama Rao, Prof, published a paper titled Side lobe information mitigation with new phase sequence for hybrid PTS scheme IJET 7,4.6,246-249
3. M.S.R. Naidu Assoc.Prof, published a paper titled, Applications of soft computing techniques in digital image segmentation IJERA 8,9,45-50
4. V. Ashok Kumar Assoc.Prof, published a paper titled digital imagewater marking : survey IJAMTES 8,1,127-141
5. M. Lakshmu Naidu, Dr.B. Rama Rao, M. Bala Krishna Asst.Prof,Prof,Asst.Prof published a paper titled, Design and Implementation of Pentagon Patch Antennas with slit for Multiband Wireless Applications IRJET 5,12,1143-1148
6. Ch. Rajasekhar Rao Assoc.Prof, published a paper titled, A Novel Segmentation Algorithm for Feature Extraction of Brain MRI Tumor Advances in Intelligent Systems and Computing (AISC, volume 701) jan2018

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	Dr. A.S. Srinivasa Rao	Principals of communications	Successful completion	12
2	Dr. G. Sateesh Kumar	Principals of communications	Successful completion	12
3	Dr. B. Rama Rao	Digital signal process	Successful completion	12
4	Sri M.V.H.B. Murthy	Principals of communications	Successful completion	12
5	Sri G.S.S.S.S.V.K. Mohan	Process control	Successful completion	12
6	Sri D. Yugandhar	Digital signal process	Elite	12
7	Sri M. S. R. Naidu	Electronic circuits	Elite	12
8	Smt. K. V. L. Bhavani	Principals of communications	Successful completion	12
9	D.H.H.Santosh Kumar	Digital signal process	Elite+Top5%	12
10	Smt. A. Jayalaxmi	Biomedical signal process	Elite	12
11	Sri M. Balakrishna	Digital signal process	Elite+Top5%	12
12	Sri DVLN Sastry	Microprocessor and	Elite	12

		Microcontroller			
13	*Sri T. Viswanadham*	Microprocessor and Microcontroller	Elite		12
14	*Ms. Vandana Laxmi*	Biomedical signal process	Elite		12
15	*Smt. J. Swathi*	Biomedical signal process	Elite		12
16	*Sri B. Anil Kumar*	Microprocessor and Microcontroller	Elite		12
17	*Sri P. Kameswara Rao*	Microprocessor and Microcontroller	Successful completion		12
18	*B.Jyothi*	Biomedical signal process	Successful completion		12

Student Achievements

S.No.	Nature of the Activity	Student Name & Regd. No.	Class	Name of the Event and Venue	Dates	Awards
1.	ETHICAL HARDWARE HACKING	M.SAI KUMAR 15A51A0495	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	3RD PRIZE
2.	ETHICAL HARDWARE HACKING	K. AVINASH 15A51A0485	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	3RD PRIZE
3.	ETHICAL HARDWARE HACKING	M.SHARAN 15A51A04A5	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	3RD PRIZE
4.	IOT CERTIFICATE NOT SUBMITTED	T. SAI MONICA SOWMYA SRI 16A51A04G1	II-C	IIT MADRAS (center at hyderabad)	May 16 to June 1st 2018	Participation
5.	FACE DETECTION AND TRACKING	S. SRISAI 16A51A04E1	II-C	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
6.	FACE DETECTION AND TRACKING	U. URMILA REDDY 16A51A04G0	II-C	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
7.	FACE DETECTION AND TRACKING	MUKESH PEDDINA 15A51A04A4	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation

S.no	Nature of the Activity	Student name & Reg.no	class	Name of the event and Venue	Dates	Award/ Reward
8.	FACE DETECTION AND TRACKING	P.HARSHITHA 15A51A04A9	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
9.	FACE DETECTION AND TRACKING	M.PAVANI 15A51A0498	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
10.	FACE DETECTION AND TRACKING	K.SAI MANOHAR 15A51A0481	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
11.	FACE DETECTION AND TRACKING	K.NAVYA 15A51A0487	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
12.	FACE DETECTION AND TRACKING	P.V.V.KRISHNA KANTH 15A51A04B7	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation
13	FACE DETECTION AND TRACKING	L.SRIJA 15A51A0493	III-B	SAASHTRA-2018,IITM	4-6 JAN 2018	Participation

S.no	Nature of the Activity	Student name& Reg.no	class	Name of the event and Venue	Dates	Award/ Reward
2.	Cyber Security & ethical hacking	B.Amulya	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate
3.	Cyber Security & ethical hacking	G.Madhavi	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate
4.	PCB Design	B.Vanita	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate

5.	Course on Model United Nations &Diplomacy	AbhinayKarteek	E.C.E	MYCAPTAIN (NSRCEl& IIM-Banglore)	July'18 to Aug'18	Certificate of completion
6.	Paper presentation on AI technology	B.Amulya	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate
7.	PCB Design	B.Vanita	E.C.E	TechnoXian GMRIT,Rajam	2 to 3rd Feb'18	Participation certificate
8.	Workshop on Recent Trends In Communication Technology	GudlaMadhuri	E.C.E	AITAM ,tekkali (in association with IEEE)	23rd Feb'18	Participation Certificate
9.	Cyber security & Ethical Hacking	B.Anusha	E.C.E	TechnoXian GMRIT,Rajam	2 to 3rd Feb'18	Participation certificate
10.	Cyber Security & ethical hacking	B.Anusha	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate
11.	Workshop on Recent Trends In Communication Technology	B.Anusha	E.C.E	AITAM ,tekkali (in association with IEEE)	23rd Feb'18	Participation Certificate
12.	Megathon	CH.Manasa	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate
13.	Advanced workshop in 3D-	A.NayvaSriRR	E.C.E	STEPCON'18	2 to 4th	Participation

	printing			GMRIT,Rajam	Feb'18	certificate
14.	Cyber security & Ethical Hacking	G.Madhuri	E.C.E	TechnoXian GMRIT,Rajam	2 to 3rd Feb'18	Participation certificate
15.	Workshop on IoT	G.Damayanti	E.C.E	Wissenaire'18 IIT-Bhuvaneshwar	2018	Participation Certificate
16.	RPI for IoT	A.NavyaSri	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate
17.	Workshop on IoT	B.koteswara Rao	E.C.E	Wissenaire'18 IIT-Bhuvaneshwar	2018	Participation Certificate
18.	PCB Design	AarthiMahapatro	E.C.E	TechnoXian GMRIT,Rajam	2 to 3rd Feb'18	Participation certificate
19.	English Language Proficiency	B.Amulya 15A51A0428	E.C.E	AITAM, tekkali		Certificate of Completion

20.	Paper presentation	B.Amulya 15A51A0428	E.C.E	ASPIRE'18 aitam,tekkali	23&24th Feb'18	Participation certificate
22.	RPI for IoT	B.Koteswararao	3rd yr ECE	ASPIRE'18 aitam,tekkali	23&24th Feb'18	Volunteer Certificate
23.	RPI for IoT	AarthiMahapatro	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate

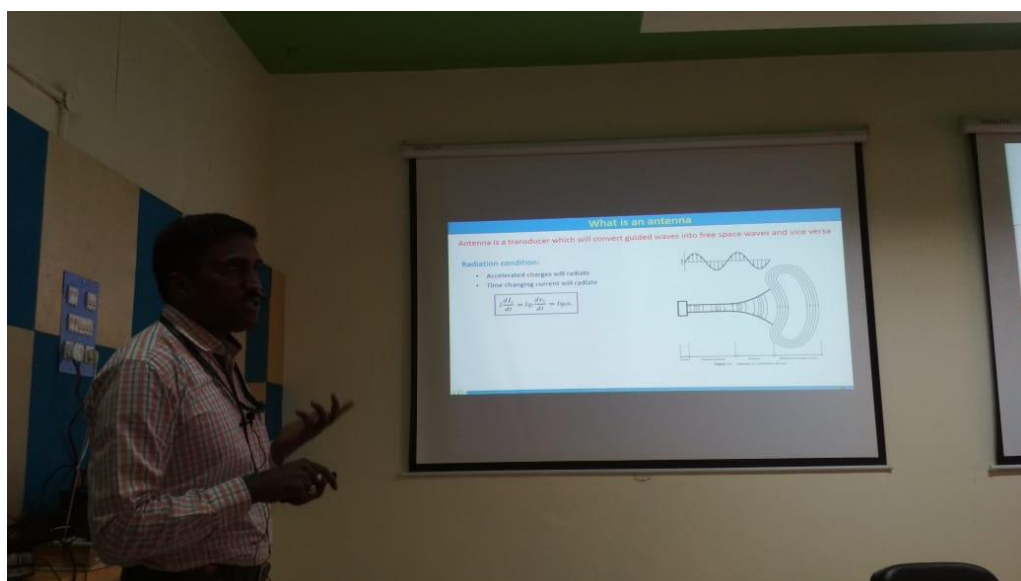| 24.	Workshop on IoT	BoyinaPraneetha	E.C.E	Wissenaire'18 IIT-Bhuvaneshwar	2018	Participation Certificate
26.	PCB Design	ArthiMahapatro	E.C.E	STEPCON'18 GMRIT,Rajam	2 to 4th Feb'18	Participation certificate
28.	RPI for IoT	BoyinaSuryateja	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate
29.	RPI for IoT	ArunTilak Lade	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate
30.	Cyber security & Ethical Hacking	B.Amulya	E.C.E	TechnoXian GMRIT,Rajam	2 to 3rd Feb'18	Participation certificate
31.	RPI for IoT	A.LaxmiPrasanna	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate
32.	RPI for IoT	BattulaJaswanth	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate
33.	Home Automation & Rover	B.Amulya	E.C.E	AITAm, Tekkali (association with IETE)	22 to 24th Feb'18	Participation Certificate
35.	RPI for IoT	AravindBuchireddy	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate
36.	RPI for IoT	Aleti Krishna Chandra Mouli	E.C.E	Shaastra,18 IIT Madras	2018	Participation Certificate

37.	Home Automation & Rover	Baratam Padma Priya	E.C.E	AITAm, Tekkali (association with IETE)	22 to 24th Feb'18	Participation Certificate

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

Programme 1

Activity name : Rally for Rivers

Date **:** 01-02-2018

Brief report:

As it is our responsibility to save our rivers, we must do something. We had a campaign in the surrounding colleges of Tekkali to make more aware of rivers. A toll free no was given to all the students and they were asked to give missed call to take further steps of saving our rivers. No of students attended : 350

No of faculty attended : 03

Programme 2

Activity Name : Free Eye check up

Date   **:** 01-02-2018

Brief report:

As a part of health check-up, a free eye check-up camp was successfully organized in the college campus by Dr. Sheila's eye hospital, Sompeta. The camp was conducted for drivers, sweepers and students.

No of students attended   : 300

No of Faculties attended   : 20

Programme 3

Activity Name: Mahasivaratri festival

Date:04-03-2018

Brief report:

On the occasion of Maha siva ratri festival the NSS volunteers served the devotees at lord siva temple in Ravivalasa village with the help of village committee.

No of students attended : 120

No of faculty attended :02

Programme 4

Activity Name: International Yoga day

Date: 21-06-2018

CULTURAL PROGRAMMES (ASPIRE2K18)

EEE department students participated in cultural programmes in ASPIRE2K18.

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