DEPARTMENT OF IT

A HALF-YEARLY NEWSLETTER

AY: 2020-21	Jan-June	Vol. 13	Issue - 2

ADITYA

Institute of Technology and Management

(An autonomous institution)

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ADITYA

Institute of Technology and Management
(An autonomous institution)
Department of Information Technology

Vision

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

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 efficiency for employability increases on a continued basis.

Vision and Mission of the Department

Vision

Create high-quality engineering professionals through research, innovation and teamwork for Information Technology services with outstanding faculty, facilities and education.
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Mission

M1: Information Technology programde dicates itself to provide students with a set of skills,knowledge and attitude that will permit its graduates to succeed and thrive a ssuccessful information technologists.

M2: Enhance overall personality development which includes innovative thinking, Teamwork,entrepreneurskills,communicationskills,employabilityskillsand ethicalconduct.

M3: Ensuring effective teaching–learning process to provide in-depth knowledge of Inter disciplinary areas.

M4: Providing industry interactions through consultancy and sponsored research for the societal needs.

Chairman's Message

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 focused 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.

Dr. K. Someswara Rao
CHAIRMAN

Secretary's Message

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 instills 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.

Sri L.L. Naidu
SECRETARY

Director's Message

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.

Prof. V.V. Nageswara Rao
DIRECTOR

Principal's Message

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.

Dr.A.S.Srinivasa rao
PRINCIPAL

HOD's Message

Information Technology is a professional engineering discipline that deals with application of computers to store, retrieve, transmit and manipulate data.
Our department has a team of qualified and experienced faculty and staff members and we are motivation both faculty and students continuously to improve thequality of educationandtomaintainitspositionofleadershipinengineeringandtechnology. The department guides the students to develop their technical skills and motivate them to learn in research methodology. Our department has been conducting Nationalworkshopsandorganizingseminarssinceitsbeginningtokeepthefaculty and students with the latest developments in the field of technical education. Our department faculties are actively published in reputed international and national journalsandactivelyparticipatedinvariousinternationalandnationalconferences to publish papers.

Dr.B.V.Ramana
HOD of IT Department

Faculty publications

1. Dr. B. V. Ramana,Professor , published a paper titled ''Efficiency measure of Machine Learning Algorithms on Liver Disease Diagnosis'' in Psychology and Education,(ISSN: 0033-3077 scopus), Vol. No. 57, Issue No: 5, 375-383 & Jan 2021

2. Dr. B. V. Ramana, Professor, published a paper titled ''Analysis of Geographical effect of various regions on Liver disease'' in Psychology and Education, (ISSN:0033-3077 Scopus), Vol. No. 57, Issue No: 5, 384-392 & Jan 2021.

3. K.Kavitha, Assistant Professor, published a paper titled 'Detection of Brain Tumour by integration of VGG-16 and CNN Model' in Journal of Information Technology in Industry, Published by: Science Research Society (SRS), (ISSN (Print): 2204-0595 ISSN (Online): 2203-1731), Vol. 9, Issue No.2, 1051,13 - 4 -2021

4. Nibedan Panda, Assistant Professor, published a paper titled 'Oppositional salp swarm algorithm with mutation operator for global optimization and application in training higher order neural networks'' in Multimedia Tools and Applications, Springer(ISSN: 1573-7721 (Online)1380-7501 (Print)SCI), 1-25, 09-01-2021

5. Nibedan Panda, Assistant Professor, published a paper titled 'Solving traveling salesman problem using hybridization of rider optimization and spotted hyena optimization algorithm'' in Expert Systems with Applications (ISSN: 0957-4174 (Online)SCI), Vol-183, 115353, 08-06-2021

6. Swapnarekha. H, Assistant Professor, published a paper titled 'Fusion of Intelligent Learning for COVID-19: A State-of-the-Art Review and Analysis on Real Medical Data.'' in Neurocomputing, Elsevier (https://doi.org/10.1016/j.neucom.2021.06.024 0925_2312), Volume 457, Pages 40-66

7. Swapnarekha. H, Assistant Professor, published a paper titled 'Competitive Deep Learning Methods for COVID-19 Detection using X-ray Images.'' in Journal of The Institution of Engineers (India): Series B, Springer (https://doi.org/10.1007/s40031-021-00589-3 SCOPUS 22502114), 28 April 2021

8. Swapnarekha. H, Assistant Professor, published a paper titled ''An impact study of COVID-19 on six different industries: Automobile, energy and power, agriculture, education, travel and tourism and electronics'' Expert Systems, Wiley (https://doi.org/10.1111/exsy.12677,1468_0394), Volume 457, 11 February 2021

9. Swapnarekha. H, Assistant Professor, published a paper titled 'Covid CT-net: A deep learning framework for COVID-19 prognosis using CT images'' in Journal of Interdisciplinary Mathematics, Taylor & Francis,(https://doi.org/10.1080/09720502.2020.1857905 SCOPUS,0972-0502), Volume 457, Volume 24, Issue 2

FACULTY DEVELOPMENT PROGRAMME/WORKSHOPS ATTENDED

S. No.	Name of The Faculty	Name of The Programme	Dates	Venue
1	Dr.B.V.Ramana	One week online FDP on "Machine Learning Using Python Programming"	10th - 16th June 2021	AITAM, Tekkali
2	Dr.G.Nageswara Rao	One week online FDP on "Machine Learning Using Python Programming"	10th - 16th June 2021	AITAM, Tekkali
3	Dr. B.ramesh Naidu	Two week online FDP on "Machine Learning Using Python Programming"	April 22nd to May 5th,2021	AITAM, Tekkali
4	Dr. B.ramesh Naidu	One week online FDP on "Machine Learning Using Python Programming"	10th - 16th June 2021	AITAM, Tekkali
5	K.Kavitha	One week online FDP on "Machine Learning Using Python Programming"	10th - 16th June 2021	AITAM, Tekkali
6	Sri Ch. Chandrasekhar	Two week online FDP on "Machine Learning Using Python Programming"	April 22nd to May 5th,2021	AITAM, Tekkali
7	Sri Ch.Chandrasekhar	One week online FDP on "Machine Learning Using Python Programming"	10th - 16th June 2021	AITAM, Tekkali
8	Sri Ch. Chandrasekhar	One Week Online FDP on "Creative and Innovative Teaching Strategies for the New Normal"	May 24-31, 2021	SSN College of Engineering
9	V.A.G.RAJU	Two week online FDP on "Machine Learning Using Python Programming"	April 22nd to May 5th,2021	AITAM, Tekkali
10	V.A.G.RAJU	One week online FDP on "Machine Learning Using Python Programming"	10th - 16th June 2021	AITAM, Tekkali
11	V.A.G.RAJU	Multi Technology	28th June-3rd July 2021	GMRIT,Rajam
12	H.Swapna Rekha	Machine Learning using Python Programming	10th -16th June,2021	AITAM, Tekkali
13	H.Swapna Rekha	Machine Learning	4th-6th June,2021	Department of CSE, RISE Krishna Sai Prakasam Group of Institutions, Ongole
14	H.Swapna Rekha	Data Science and its Applications with Python	10th-19th May, 2021	Department of Computer Science and Engineering, NIT Warangal

FACULTY WORKSHOPS ORGANISED

S. No.	Name of The Faculty/Convenor	Name of The Programme	Dates	No.of Participants
1	Dr. B.ramesh Naidu	Two week online FDP on "Machine Learning Using Python Programming"	April 22nd to May 5th,2021	60
2	Dr. B.ramesh Naidu	One week online FDP on "Machine Learning Using Python Programming"	June 10th to June 16th,2021	150
3	V.A.G.Raju	Two week online FDP on "Machine Learning Using Python Programming"	April 22nd to May 5th,2021	60
4	V.A.G.Raju	One week online FDP on "Machine Learning Using Python Programming"	June 10th to June 16th,2021	150
5	Nibedan Panda	Two week online FDP on "Machine Learning Using Python Programming"	April 22nd to May 5th,2021	60
6	Nibedan Panda	One week online FDP on "Machine Learning Using Python Programming"	June 10th to June 16th,2021	150

CONFERENCES ATTENDED

S. No.	Name of The Faculty	Title	Name of the Conference	Venue & Dates
1	H.Swapna Rekha	Deep Learning for COVID-19 Prognosis: A Systematic Review	International conference on Computational Intelligence in Pattern Recognition	24th and 25th `April 2021, Organizer :IEM, Kolkata.

PATENTS

S. No.	Name of The Faculty	Title of Patent	Details of Application	Date of applied or Publication	Status - Published/Applied
1	Dr.G.Nageswara Rao	**A Novel Global Secure Management System with Smart Card for IoT and Cloud Computing**	Application No.202141000635 A Date of filing of Application :07/01/2021	05/02/2021	Published

STUDENT ACHIEVEMENTS

Perfomance in 1st B.Tech

S. No.	Regd.No	Name of The Student	Award Name
1	19A51A1208	BUGATA PRIYANKA	GOLD
2	19A51A1249	SARMISTA NAYAK	SILVER

Perfomance in 2nd B.Tech

S. No.	Regd.No	Name of The Student	Award Name
1	18A51A1230	MICHEETI SRAVYA	GOLD
2	18A51A1210	BORRA ASHWEEJA	SILVER

Perfomance in 3rd B.Tech

S. No.	Regd.No	Name of The Student	Award Name
1	17A51A1222	SIVAKUMAR PANDA	GOLD
2	17A51A1217	RAJAMHANTI DURGA JAHNAVI	SILVER

PLACEMENTS

S. No.	Roll No	Student Name	Year of Passing	Name of Employer
1	17A51A1222	Sivakumar Kumar Panda	2021	DXC TECHNOLOGY
2	17A51A1227	Appaji Woonna	2021	DXC TECHNOLOGY
3	17A51A1222	Sivakumar Panda	2021	TCS NQT
4	17A51A1201	Naveenkumar Andhavarpu	2021	Tudip Technologies
5	17A51A1209	GONAPA KALIVARA PRASAD	2021	TCS CODEVITA
6	17A51A1211	Maneesha Kandula	2021	ACCENTURE
7	17A51A1227	Appaji woonna	2021	WIPRO
8	17A51A1228	Siva Parvathi Kanuri	2021	WIPRO
9	17A51A1222	Sivakumar Panda	2021	WIPRO

List of NSS Activities for A.Y.2020-2021

Programme 1

Activity Name: BRAIN & SPINE THERAPY YOGA WITH MIND MEDITATIONS

Venue: D Block seminar Hall in the College.

Date: 29th January, 2021 at 2:00 pm

Chief Guest: Brain Yogi P.Sreenivas Rao, International Awardee & Trainer

Brief Report:

College NSS unit organized a program in collaboration with Tapasya Educational Trust, Bengaluru on "BRAIN   & SPINE THERAPY YOGA WITH MIND MEDITATIONS" by International Awardee & Trainer: Brain Yogi   P.Sreenivas Rao Ji from Bangalore . He emphasized that Stress related symptoms such as nervousness and irritability are not necessarily bad things, but when they persist for weeks on end they can lead to increased heart rate and blood pressure, muscle tension, lingering restlessness, insomnia, panic, and depression. The yogic methodology includes breath control, and several body poses and exercises called asanas which bring substantial pain relief recondition the spine.

No. of Students participated: 100

No. of Faculties participated: 5

Programme 2

Activity Name: Gandhi Vardhanti

Venue: F Block lawns in the College.

Date: 30/1/2021.

Brief report:

      On this day the NSS volunteers paid rich tributes to Mahatma Gandhi with a garland. College director made a speech on Gandhiji's truth and non-violence. And he also advised the students to follow the principles and life of Mahatma Gandhi.

No. of Students participated: 40

No. of Faculties participated: 10

Programme 3

Activity Name: Pulse Polio Programme

Date: 31/1/2021.

Brief report:

On this day the NSS volunteers helped in Pulse Polio Programme in K.Kotturu village

No. of Students participated: 20

No. of Faculties participated: 02

Programme 4

Activity Name: Yoga practice sessions

Date: 06/02/2021.

Venue: A Block in the MBA Department of AITAM, TEKKALI.

Chief Guest: Yoga Guru Sri. Ramarao garu

Brief report: The yoga sessions began with a small prayer followed by warm up practices. Surya Namaskar was performed along with other asanas, including standing, sitting, prone and spine postures. The camp concluded with a short prayer. Addressing the event, Yoga Guru Ramarao garu from Srikakulam explained the importance and the need for yoga in today's world. He stressed not only the health benefits of yoga but also on how it can contribute to the well-being of the humanity. On this occasion, Dean Dr.D.Vishnu Murthy, HOD of MBA Dr. K.Venugopal, NSS PO Dr. B. Balaram ,HOD of IT Dr.B.V.Ramana faculties and students participated in this program.

No of students attended: 45

No of Faculties attended: 06

Programme 5

Activity Name: TRIBUTE FOR THE INDIAN SOLDIERS

Date: 14th February, 2021 at 2:30 pm

Venue: at A Block seminar Hall in the College.
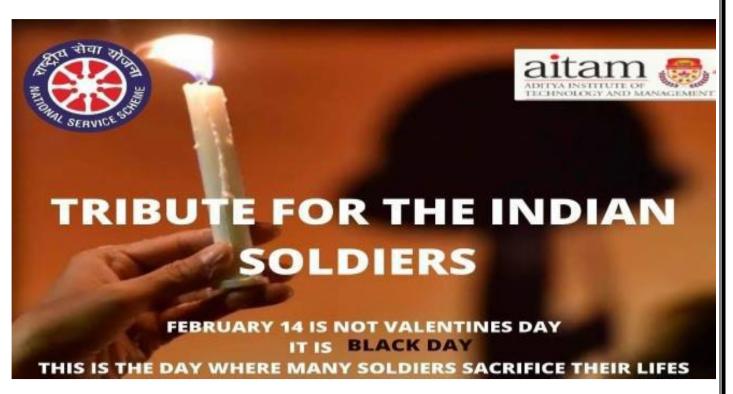
Brief report:

Today is the day to mark two years of the Pulwama terror attack, when 40 Indian soldiers were martyred in one of the worst terror attacks in Jammu and Kashmir. It happened after a suicide bomber rammed an IED-laden vehicle into the security convoy. The convoy had 78 buses in which around 2,500 personnel were travelling from Jammu to Srinagar. The attack, which was reported near Awantipora at nearly 3:15 pm resulted in the death of 40 CRPF Jawans, while many others were left injured.

We have started this program with the introduction of Pulwama terror attack by NSS PO Dr. B. Balaram, followed by Principal's address. In this regard, we have offered prayers to BHARATA MATA and garlanded by the principal Dr. A.Srinivasa Rao. To show some tribute for the soldiers, we maintained two minutes of homage exactly at 3:15 pm and thereafter the programme was concluded with National Anthem, Jana Gana Mana.

No of students attended: 200

No of Faculties attended: 10

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