

Aurora Bulletin



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AURORA'S TECHNOLOGICAL AND RESEARCH INSTITUTE

Accredited by NAAC with 'A' Grade

Vision

ATRI seeks to be a center of higher learning that can provide the best learning experience, the most productive learning community, and the most creative learning environment in engineering education and to be recognized as one of the best engineering colleges in India.

Mission

To provide excellent education in Engineering and Technology.

To create environment for quality research and dissemination of knowledge.

To develop entrepreneurship and managerial abilities through world-class engineering and management education.



Contents

Safety of Women, p2
Bridge 2018, p2
Akshaja, p3
Mentoring Workshop, p4 - p5
Cloud Literacy, p6
Auto Desk, p6
NPTEL, p7
Department Events, p8 - p11
NSS Activities, p12-p13
Placements, p13
Sports News, p14
Art Gallery, p15
ATRI in Media, p15
Upcoming Events, p16

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Dear Readers,

Director's Message

October was as eventful as the initial months of this semester, with considerable emphasis on faculty development and student skill enhancement through guest lectures, workshops, industrial visits and social and cultural activities. A workshop for the faculty on Understanding Mentoring and its Challenges, organized with the objective of improving the mentor-mentee relationship, opened up novel areas for discussion and provided insights into the intricacies of the mentoring process. Some of our faculty also attended BRIDGE- the largest industry-institute interaction event that gave valuable inputs on the latest in the technological and entrepreneurial worlds. Cloud Literacy Month Celebrations, workshops, guest lectures, industry visits, poster presentations---organized by various departments and cells went a long way in augmenting students' theoretical knowledge with practical exposure and giving them hands-on experience.

ATRI has always been in the forefront as far as social activities have been concerned, and this month was no exception—a Swachh Bharat-Arogya Bharat Campaign, Cancer Run, Eye and Dental Camp, and a programme on Protection and Safety of Women—created awareness on vital concerns, instilled a sense of social responsibility, and directed our perspectives to pertinent social and moral issues.

Akshaja, ATRI's traditional day, was a day of gaiety and splendor, as students and staff enthusiastically participated in the resplendent Dandiya and Bathukamma festivities.

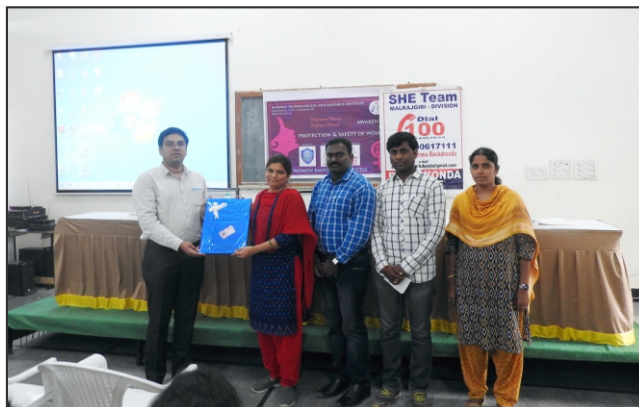
This spirit of bonding and cohesiveness that ATRI displays in all its activities is certainly the secret behind its positive brand image and unparalleled journey to success. Let's keep this spark alive, and remember the legendary basketball player, Michael Jordan's words: Talent wins games, but teamwork and intelligence win championships

Signing off
Director

COLLEGE EVENTS

Awareness programme on Protection and Safety of Women

On 4th October 2018 an awareness programme on *Protection and Safety of Women* was organized by the Women Empowerment Cell in association with SHE Teams. The dignitaries present on the dais, Honourable Chief Guest, Ms. Shaik Saleema, Additional DCP, She Team, Mr. G. Veera Bhadra Sub-Inspector Rachakonda, Director Srikanth Jatla and WEC Co-ordinator, G. Vara Lakshmi participated in lighting of the lamp. This was followed by a welcome song by Ms. Pravalika, ECE II. The Director addressed the gathering and explained the importance of the session. Next SHE Team members showed videos on harassment of women, current problems and new laws, followed by a motivational speech by Chief Guest Ms. Shaik Saleema which inspired lot of young minds. The Vote of Thanks was given by Ms. G. Vara Lakshmi, WEC coordinator. This was followed by a presentation on awareness and usage of Sanitary Napkin Vending Machine and Incinerator by Ms. Rama Devi, CSE Student.

**Participation of ATRI faculty in BRIDGE 2018**

ICT Academy organised 34th edition of BRIDGE, on 24 October, the largest Industry-Institute Interaction event of Asia at Hotel Marigold, Hyderabad. The following Faculty members attended the programme.

Dr. K. Nagajyothi, Dean (R&D)
 Ms. M. Chaitanya, Professor (Mech Engg)
 Ms. A. Durgapavani, HoD (CSE)
 Ms. K. Kavitha, HoD (IT)
 Ms. N. Kranthi Kumar, HoD (Civil)
 Ms. K. Lakshmi Prasanna, Assoc. Prof (EEE)



Ministry of Electronics and Information Technology, MHRD, AICTE and organisations including Syntel, Oracle, Salesforce, Autodesk, Aviva, The Hindu supported the event. Renowned academicians and industry experts shared their experience and thoughts on the theme of BRIDGE 2018, Fostering India for Industry 4.0. The following discussions were held during the event:

- Fusing technologies for IR 4.0
- Disruption to jobs and skills
- Adapting to the digital revolution
- IR 4.0 for the social revolution
- Strengthening the education ecosystem for IR 4.0
- Future of economic progress

Dr Anil D. Sahasrabudhe, Chairman, AICTE inaugurated the event and the other speakers were Mr. Krishna Bodanapu, CEO, Cyient, Mr. T.N. Manoharan, Chairman, Canara Bank, Dr. Neethu Bhagat, Dy. Director, AICTE, Mr. Rohit Pareek, Senior Director, Oracle, Mr. Denny Julius, Director, TCS, Mr. Anand Pillai, Education lead, Autodesk, Mr. Durga Prasad, Amazon Web services, Mr. Chalapathy, Director, Virtusa, Mr. Kiran, Client solutions architect, IBM, Pundi Sriram, Co-founder of STEP. The Hindu Group. Apart from the interactive sessions, lucky draws were held to draw the attention of participants. Mr. N. Kranthi Kumar, HoD (Civil), ATRI has won prize during a lucky draw.

AKSHAJA - Traditional Day

ATRI 's traditional day *Akshaja*, Bathukamma, and Dandiya were celebrated on 12 October 2018. To mark the Navaratri Utsav and present the collective Indian culture in all its colour and glory, splendor and charm, the faculty and students of ATRI brought alive the different ethnic dance forms and their importance. It is a well-known fact that an institution plays a vital role in developing the right attitude among students so that they build productive and healthy bonds with people of all cultures at home and abroad. The anchors explained that the celebration of Dandiya and Bathukamma in one way or another connected them as a nation. They cordially welcomed the delightful audience to witness the daylong events, Rangoli, Mehendi, Photography, Art and join the Bathukamma and Dandiya festivities. The highlight of the evening was the ethnic fashion show. The gorgeously dressed students walked down the ramp to compete for the grand finale of Mr. and Ms. Ethnic. The Director, Mr. Srikanth Jatla symbolically inaugurated the programme by lighting the lamp. Later the Director addressed the gathering and highlighted that though India was witnessing a digital revolution, its multicultural and multilingual practices continue to shape the values, habits and beliefs of the nation and provide them with a sense of identity. It is this identity that lends a certain spirit to bond families, cultures and communities across the nation and preserve their history for the future generations. The event was a call for the best talent on campus. To showcase the blend of India's rich heritage and culture, Ms. Anujna of CSEII presented a semi-classical dance. Members of Suswara Club rendered a special song commemorating the Ethnic day. Ms. Yagna of CSE III, through the medium of dance, portrayed the sublimity of Indian art. No cultural event is complete without a Bollywood dance. There was a foot tapping dance by the 'Footloose' crew of the Nritya Club.

The audience was treated to the most awaited 'Dandiyanite' with DJs rolling out rocking, foot stomping numbers that made everyone let down their hair and dance into the night.



Workshop on 'Understanding Mentorship & Challenges'

A one-day workshop on mentoring for faculty members, *Understanding Mentorship & Challenges* was held on 27 October 2018. The workshop was organized by the Student Mentoring Committee and Department of H&AS. The objective of this workshop was to help faculty members understand the importance of student mentoring, roles and responsibilities of a mentor, essential communication skills, challenges involved and how to improve the mentor-mentee relationship.

Dr P. Bharathi, Professor, Dept. of H&AS, and Co-Convenor of the workshop opened the proceedings with a welcome statement and in her preliminary remarks, spoke about the vast scope of mentoring and how mentoring is beneficial to students and to the institution. Ms M. Chaitanya, Associate Professor, Dept. of Mechanical Engineering, Coordinator, Student Mentoring Committee, and Convenor of the workshop, in her introductory address, spoke about the conception and genesis of this workshop. Our Director, Sri SrikanthJatla, in his brief speech, spoke about the reasons for holding this workshop and its significance for all faculty members and expressed his hope that the workshop would succeed in its aim of ushering in a robust mentoring culture in the college. Dr P. Bharathi introduced the resource person for the workshop, Dr V. Sudhakar, Professor, Dept. of Education, The EFL University, Hyderabad, to the participants. Dr Sudhakar was welcomed with a flowering plant by our Director, Sri SrikanthJatla.



The workshop was split into two sessions. In the first session, Dr Sudhakar initially talked about understanding mentoring as a multi-disciplinary knowledge system and the complexities that underpin this concept. As teachers we have to come out of the limitations of our practices and interrogate ourselves, without which it is just impossible to professionalize our mentoring processes, he said. He went on to describe mentoring as a process of building supportive relationships, a scaffolding process, a reflective process, a career development process, a teaching-learning process, and a combination of coaching counselling, and assessment.

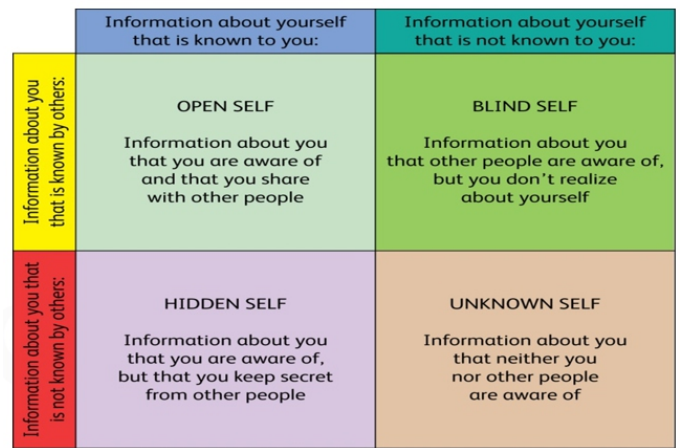
Dr. Sudhakar introduced psychological concepts like Johari's Window and Maslow's Pyramid. Whereas Johari's Window helps us reflect upon our own personalities, Maslow's Pyramid is a tool to understand self-actualization. With the help of such tools, teachers can become effective mentors employing structure and clarity, motivation, questioning, and dialogue in the mentoring process. Dr Sudhakar concluded the first session by explaining the various models of teacher knowledge like content knowledge, general pedagogical knowledge, pedagogical content knowledge, curriculum knowledge, knowledge of learners, knowledge of education context, and finally, knowledge of educational ends, purposes, and value, and their philosophical and historical grounds.

The second session was devoted to hand-out based activities where all faculty members participated enthusiastically. The Mentoring Scale activity saw participants categorizing themselves under labels like Sociability, Dominance, and Openness based on their responses. In the Listening Skills Self-Assessment Audit activity participants responded to a series of sub-questions under the head-question "Are You Paying Attention?" These were followed by the questionnaire on Mentoring Styles and a Mentoring Competence Self-Assessment questionnaire. The second session ended with the participants tackling the Learning Styles questionnaire, designed by Peter Honey and Alan Mumford to find out preferred learning styles of people. In a brief valedictory ceremony, Sri Srikanth Jatla, Director, presented a plaque to the resource person, Dr V. Sudhakar, as a gesture of our appreciation and gratitude. Ms M. Chaitanya, Convenor of the workshop, proposed the vote of thanks.

Write-up on Theories - The Johari Window

A Johari window is a psychological tool created by Joseph Luft and Harry Ingham in 1955. It's a simple and useful tool for understanding and training:

- self-awareness
- personal development
- improving communications
- interpersonal relationships
- group dynamics
- team development; and
- inter group relationships



The Johari window model is used to enhance the individual's perception on others. This model is based on two ideas- trust can be acquired by revealing information about you to others and learning yourselves from their feedbacks. Each person is represented by the Johari model through four quadrants or window pane. Each four window panes signifies personal information, feelings, motivation and whether that information is known or unknown to oneself or others in four viewpoints.

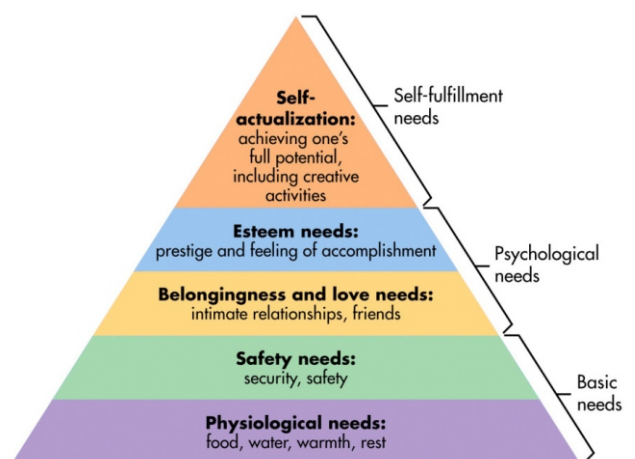
The Johari Windows is made of four regions or quadrants:

- Open Self – What others know about you and you know too..
- Blind Self – What others know about you, but you don't.
- Hidden Self – What others don't know about you, but you do. It's your secrets.
- Unknown Self – What others don't know about you and you don't either.

It is one of the few tools out there that has an emphasis on “soft skills” such as behaviour, empathy, co-operation, inter group development and interpersonal development. It's a great model to use because of its simplicity and also because it can be applied in a variety of situations and environments.

Maslow's Theory of Motivation and Self Actualization

Abraham Maslow developed a theory called the hierarchy of needs. He was one of the founders of humanistic psychology, which emphasizes the individual's potential and stresses the importance of growth and self-actualization. What motivates human behavior? The Maslow's hierarchy of needs is one of the best-known theories of motivation. Maslow's hierarchy is most often displayed as a pyramid. The lowest levels of the pyramid are made up of the most basic needs, while the most complex needs are at the top of the pyramid. Needs at the bottom of the pyramid are basic physical requirements including the need for food, water, sleep, and warmth. Once these lower-level needs have been met, people can move on to the next level of needs, which are for safety and security. As people progress up the pyramid, needs become increasingly psychological and social. Soon, the need for love, friendship, and intimacy become important. Further up the pyramid, the need for personal esteem and feelings of accomplishment take priority. Like Carl Rogers, Maslow emphasized the importance of self-actualization, which is a process of growing and developing as a person in order to achieve individual potential. The important thing to recognize is Maslow's contention that one's sense of well-being. i.e. the 'feel good factor' increases as the higher level needs are met.



Congratulations!!!!

To the crew of Nrithya club who won the group dance competition and G.Amitesh Lohit the coordinator of the club won the solo dance competition held at Osmania University, Hyderabad.

Members : G.Amitesh Lohit, A.Dhanush Raj, D.Akshaya Reddy, K.Anand Kumar, S.Yagnasree, M.Sai Chandana, Jerry Selvam, Namrata Kapoor, K. Deepya, J.Samyuk



Cloud Literacy Month Celebrations

The Career Development Cell and Department of Information Technology jointly organised Cloud Literacy month/day celebrations and test on 31.10.2018. Around 122 students of first year and second year B Tech participated in this event along with the faculty members. Mr. Balaji, Relationship Manager, ICT Academy addressed the gathering and briefed the audience about Amazon Web Services Educate Programme and Cloud Literacy day. Mr. Balaji and Mr. Gopal, Team member of ICT Academy elaborated about the test. They also informed that a badge will be given to every student passing in the exam apart from getting \$75 worth cloud space for free. The students attended the test comprising of video questions, comprehensions and basic concepts of computer. Dr. K. Nagajyothi, Coordinator, CDC and Ms. K. Kavitha, HOD/IT coordinated the programme and test.



Thought Leadership Meet by Autodesk

Thought Leadership Meet was organized by the ICT Academy in association with Autodesk at Marigold Hotel, Hyderabad on 23rd October 2018. It was an exclusive leadership session for the management level people like Chairman, Secretary, Principal, Director and Dean of leading Engineering Institutions. The main aim of the programme was to develop Engineers for the Future of Making Things. Sr. Anand Pillai, Education Lead, Autodesk was the key-note speaker and briefed audience on the innovations in design thinking. Around 40 delegates from various Institutions participated in the meet. Dr. K. Nagajyothi, Dean R & D and Prof. M. Chaithanya attended the programme.



FACULTY AND STUDENTS EXCEL IN NPTEL EXAMS HELD ON 07.10.2018

List of Faculty members

S.No.	Name of The Faculty	Course	Certificate Type
1	Dr Poonam Minocha	Technical English for Engineers	Gold+Elite+Topper
2	Dr. K. Nagajyothi	Stress management	Elite
3	Dr. P. Bharathi	Technical English for Engineers	Elite
4	Ms. S. Anuradha	Business Analytics, Data mining and Modelling using R	Elite
5	Ms. G. Sumalatha	Stress management	Elite
6	Ms. Sowmya.M.	Data Base Management System	Successfully completed

List of Students

S.No.	Name of The Student	Course	Certificate Type
1	ChandaAlekyia	R Programming	Gold+Elite+Topper
2	Harsh Nandwani	Programming Data Structures and Algorithms using Python	Elite+Topper
3	MethriMalleswari	R Programming	Elite
4	Sushmitha	R Programming	Elite
5	S. Navya	Data Base Management System	Elite
6	K. Lakshmi Prasanna	Cloud Computing	Successfully Completed

SPORTS

Reliance Foundation Youth Sports Foot Ball
Championship on 30-10-2018

NAME OF THE STUDENT	DEPT/ YEAR
Sandeep Thapa	IT
Shaik Shoukath Vali	ECE
V.P . Bharadwaj	ECE
Tanuj Purohit	CSE
R. Ujjwal	ECE
Radhesh Kumadala	EEE
Rsv. Siddhartha	CSE
Sada Siva	IT
B. Ghadai	CSE
Dheeraj Raj	IT
Mohit Pasupuleti	CSE



DEPARTMENT EVENTS

Department of English**Workshop on Proactive Communication Skills**

The Department of Humanities and Applied Sciences, ATRI conducted a one-day workshop on Proactive Communication Skills by Mr. Parthasarathi, Soft skills and faculty Trainers on 1/10/2018 for B Tech I students so that they get an extra edge to fine-tune their listening and speaking skill sets and become effective communicators.

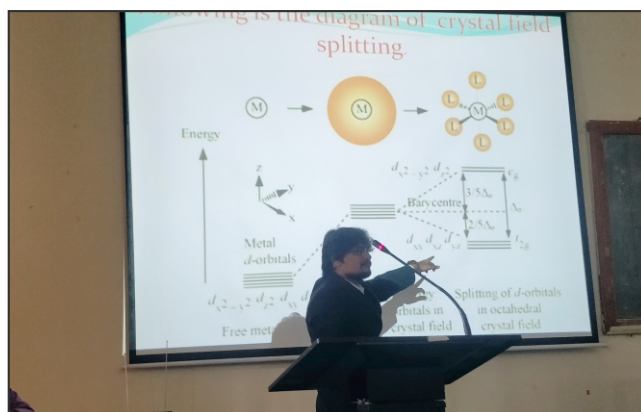


Some excerpts: Communication is both proactive and reactive. In this era of stressful management and specializations, proactive communication pushes creative thinking and strategizes information to be relevant, less stressful and effective. While proactive speaker can well engage an enemy or stranger through proactive dialogue without fear, resentment, and uncertainty, a reactive speaker hinders communication by reacting to situations. The measure of success in matters of family, business, profession, and entrepreneurial activities is proactive communication or communication quotient. Ideally, communication quotient is defined better by IQ, EQ, AQ & DQ. The art of being an excellent proactive communicator is to prevent a situation from turning into a crisis. It means to troubleshoot issues beyond proactive thinking, reading, and leadership through time-saving ideas. Language and communication are essential to each other and to optimize the dissemination of information and bring about global unity through intelligent conversation, there is a great need to develop proactive communication strategies.

It not only allows an individual to grow beyond measurable goals but also leads to better understanding of the needs and vulnerable points before they turn into issues. Prevention is better than cure, as a proactive intervention in anticipating the crisis and exploring avenues for better communication. Indeed, proactive communication elevates society from pseudo-ideology and pseudo-literature; helps save the environment and individuals whose prayers have lost its touch of purity and reduced into a prayer of negotiation, to know the future. Proactive communication inculcates ethical values, faith, and contemplative practices in students which will best reflect in their education, employment, and entrepreneurship. Only teachers can help students communicate proactively. Mr. Parthasarathy presented a PPT on the various proactive skills, approaches, strategies, responses, assessments, including interventions and risks involved in friendship and attitude as well. From preventive to proactive, from bullying on the streets to JAM, presentation skills and PPT, areas that covered academic needs the presentation was beneficial.

Department of Chemistry**Guest lecture on 'Molecular Orbitals and Theories of Bonding'**

The H&AS Department, ATRI invited Dr. K. Shirish Kumar, Associate Professor, Dept of Chemistry, VBIT, Ghatkesar, Telangana to deliver a Lecture on the topic "Molecular Orbitals and Theories of Bonding" for the students of B.Tech First Year (CSE, IT and EEE) on 29th September 2018. The programme started with Mr. G. Vikranth, Assistant Professor in Chemistry, ATRI introducing the expert faculty, Dr. K. Shirish Kumar to the students and inviting him to deliver the lecture. Dr. K. Shirish Kumar started his lecture with an introduction to "What is an Orbital, what are atoms, what are electrons and Why are they important to Molecular Orbital and Theories of bonding".



He explained the Linear combination of Atomic orbitals (LCAO), he started his explanation from basics and went on about Molecular Orbital theory of 1,3 Butadiene and Benzene. Dr.K.Shirish Kumar also explained the importance of Molecular Orbital Energy level diagram of Nitrogen (N₂) and Oxygen (O₂). Dr.K.Shirish Kumar further discussed the Crystal Field Splitting of Transition Metal ion d-orbitals in Tetrahedral, Octahedral and Square Planar geometries. Dr.K.Shirish Kumar concluded his lecture by stating that the students would definitely come across the importance of Molecular Orbitals and Theories of bonding discussed in the lecture and expressed confidence that students would utilize them effectively and perform well in their academics. After the conclusion of the talk, Mr.G.Vikranth, Asst. Prof of Chemistry, H&AS Department proposed vote of thanks on behalf of the college management, director and department of H&AS.

Poster Presentation Competition

Department of Humanities and Applied Sciences Conducted a Poster Presentation, Computer Science and Engineering students participated in the Poster Presentation.

Dr. K. Nagajyothi, Professor and Dean R&D, Judge for the poster presentation decided the best posters and announced Tanya bearing Roll No 18841A05P5 as the First best poster and Srikanth Shyam Sunder bearing Roll No 18841A05P2 as the Second best poster. The details are as follows:



Roll No	Name of the Student	Topic of the Poster
18841A05P2	SrikanthShyam Sunder	Modern Periodic table
18841A05J2	Sravanthi	Safety Measures in the Chemistry Lab
18841A05M5	Mounika	Preparation of ASPIRIN
18841A05J4	SaiDeepthi	Surface Tension of liquids
18841A05P7	Vinitha	Viscosity of liquids
18841A05P5	Tanya	General Chemical Reactions

Department of Computer Science and Engineering

Poster Presentation Competition

The objective of conducting this activity was to improve the presentation and communication skills of students. In this competition four topics were given for preparing posters i.e., 1. China's Artificial Lunar Project, 2. Technologies Behind Space Station, 3. Gadgets Used by Secret Agents and 4. Crypto Currency Technologies. Students could select any one topic based on their area of interest. In this competition 12 groups participated with each group consisting of three members. Students from different branches like Electronics, Computer Science, Information Technology and Mechanical engineering participated. The event



started as the students placed the posters in the assigned slots and judges evaluated the posters for 50 marks based on different parameters like impact at first glance, design, presentation and innovation. Ms. G. Alekya, Ms. M. Malleswari, Ms. S. Navya of CSE-III were the Winners and Ms. Ramadevi, Mr. Harsh Nandwani of CSE-IIIB were the Runner Up.

Department of Electronics and Communication Engineering

Guest Lecture – Mathematical Magics

The ECE Dept. conducted a guest lecture "Mathematical Magics" in association with IETE on 5th October 2018 from 1:30 to 4:30pm for First Year Students by Mr. Vikram Kumar, M.S from IIT Chennai, Freelance trainer and Serial entrepreneur. The Guest lecture began with a welcome address by HoD, Mr. M. Shraavan Kumar Reddy. The guest lecture 'Mathematical Magics' was based on simple Math logics using concepts which students learned in their school. It was a two hour session filled with a lot of logical, brain-twisting and creative games. The students were called upon the stage to perform various activities along with the resource person. It was an interactive session wherein the students were involved in solving the mathematical puzzles. It started with a game using cards based on the concept of odd and even numbers. The resource person introduced us with a unique method which could calculate the date of birth of any person accurately. In a similar way students were shown various short cuts to solve complicated mathematical problems like addition and multiplication of huge numbers. Lastly a vote of thanks was given by Mrs. P. Mamatha, ECE Dept., and this concluded the session.



Guest Lecture - Signals and Systems

The ECE Department organized a Guest Lecture on "Signals and Systems" on 5th October 2018. The Guest lecture began with welcome address by, Mr. M. Shraavan Kumar Reddy, Head of the Department, ECE. He introduced and welcomed Mr. Vikram Kumar, M.S from IIT Chennai. Freelance trainer and Entrepreneur, Resource Person to deliver the lecture. In this Lecture, Mr. Vikram Kumar, explained Fourier Transform properties like Time Shifting and Frequency Shifting etc. He then moved on to the basics of the MATLAB. One of the real time problems was considered where the noise is mixed with original signal; he explained the solution with the help of MATLAB. He explained the process to reduce the noise from the recorded voice or sound using simple MATLAB code. The complete filter design using MATLAB was very well explained. He also briefed the students about the difference between the speech signal and the audio signal. The resource person also covered the basics of Image Processing; he explained it using a basic application. For example, a person's image was taken, looking towards right; then using the MATLAB code, the direction of the face changed to left. Lastly a Vote of Thanks was given by Mrs. N. Nirmala Devi, ECE Dept and this concluded the session.



Industrial visit to Kwality Photonics

The Dept of ECE has organized an Industrial visit to Kwality Photonics Pvt. Ltd on 11th October 2018 which has ultra-modern fully automatic Light Emitting Diodes (LED) plant. Faculty Coordinators Mrs. J. Santhoshini, Asst Prof., Mrs. T. Sirisha, Asst Prof and Mr. M. Mahendhar Reddy, Asst Prof accompanied the IIInd year students. Kwality Photonics manufactures high, medium and low power LEDs, LED segment displays and Opto Electronic products. The company's raw materials are imported from foreign vendors like Japan, Taiwan, China and USA to ensure quality inputs. Kwality Photonics uses a variety of machines in the LED manufacturing. The students were allowed to have a glance of all the machinery, some of them are

- 1) Automatics die borders
- 2) Curing Equipment
- 3) Automatic wire borders
- 4) Product Testers
- 5) Encapsulation Dispensers
- 6) Automatic reel packing machines.

The students were also allowed to view the various stages in LED manufacturing in the industry. Finally the students had a great experience and also gained immense real time knowledge of the fabrication of different types of LEDs.



Department of Electrical and Electronics Engineering

Workshop on SMART GRID

The Department of EEE conducted a one day Workshop on SMART GRID on 4th Oct 2018. All the IInd and IIIrd year EEE students and the EEE faculty attended the workshop. The speaker, Prof. Srikrishna Mallavarapu covered many topics.

It is evident that electricity is the basic requirement for citizens, mobility, industry, and establishments. The growing demand for electricity and migration from traditional generation to alternative energies makes the grids to be smart. Integration of distributed energy resources communication data analytics for a sustainable power has become important.



Smart Grid is an electricity supply network that uses digital communications technology to detect and react to local changes in usage. A smart grid can help utilities conserve energy, reduce costs, increase reliability and transparency, and make processes more efficient. A smart grid is an electrical grid which includes a variety of operational and energy measures including smart meters, smart appliances, renewable energy resources, and energy efficient resources. Electronic power conditioning and control of the production and distribution of electricity are important aspects of the smart grid.

The smart grid system applies AMI sensing, measurement and control devices with two-way communications to the power grid's production, transmission, distribution and consumption segments to enable real-time pricing, monitoring and conservation. These technologies communicate information about grid conditions to system users, operators and automated devices, making it possible to respond dynamically to grid condition changes

"About Smart Meters

"Application of Smart Grid

" Smart grid in India

Department of Civil Engineering

Guest Lecture on Fluid Mechanics

Department of Civil Engineering organized a Guest Lecture on Fluid Mechanics on 04.10.2018 from 10.00am to 12.00pm. The speaker was introduced by Mr. Syed EashanAdil, Head of the Department, Civil Engineering. Mr.S.K.Chandras has an industrial experience of 25 years with BHEL and was associated with Aurora's Engineering College, Bhongir for five years till 2017.



The session was a brain storming one at the beginning where the speaker posed basic questions for better interaction with the students. Meaning of the words Fluid and Mechanics were explained. This was followed by making the students understand the concepts like Basic laws of Physics, branches of Mechanics, types of stresses, viscosity, surface tension, types of flows through open channel and closed channel, types of pumps. The explanation on Venturimeter was simple and clear. Post-lecture, the session ended with Vote of Thanks by the Coordinator followed by photo session.

NSS EVENTS



Swachh Bharat – Arogya Bharat

On the occasion of 150th Birth Anniversary of Mahatma Gandhi on October 2nd 2018, The Seva Bharathi (a reputed Nationwide social service organization) in association with GHMC and State NSS cell, Government of Telangana organized a massive Swachh Bharath – Arogya Bharath programme at 66 centers of Government Hospitals, Railway Stations and other important public places in Hyderabad as part of 'Swachh Hi Seva' movement started by the Hon'ble Prime Minister of India.



JNTUH and all affiliated colleges under JNTU participated in this seva programme. Around 2000 volunteers from all colleges under JNTU participated very actively in cleaning the premises of Gandhi Hospital and

Secunderabad Railway station. The volunteers cleaned the footpaths, platforms, Rathifile Bus stand and parking places. 50 volunteers from Aurora's Technological and Research Institute participated in the cleaning programme under the guidance of NSS Programme Officer D. Venu Gopal Reddy .The Volunteers created awareness among the public about the importance of cleanliness in our lives.

Eye Camp and Dental Camp

As the aim of NSS is "Personality Development of the Student through Community Services", ATRI NSS unit in collaboration with Vasan Eye Care, Hyderabad conducted an eye camp and dental camp on October 30th in the campus from 10 am to 4 pm at Seminar Hall Students from different departments participated in the event and we got 200 registrations for eye camp and 100 registrations for dental camp. Many staff and students visited the camp for checkup and the doctors gave suggestions to them. All the NSS volunteers helped the students and staff in registration and participated under the guidance of NSS Programe Officer D. Venu gopal Reddy in the event with enthusiasm and determination and made the event a grand success.



Cancer Run at Necklace Road

The Grace Cancer Foundation, Hyderabad in association with Aurora Consortium, Chikadapally has organized the Cancer Run 2018 on 7-10-2018 from 6 am to 9 am at People's Plaza, Necklace road . The main aim of the Cancer Run 2018 was to create awareness among the people to set new limits and reduce the Cancer risk and be physically fit. The foundation invited people of all walks of life to join the fight and run alongside those who are impacted by cancer.

The Race was in three different categories of 2K run/walk, 5k run/walk and 10k timed run. Sri Anil Kumar ,IPS ,ACP (Traffic) Hyderabad, flagged – off the run. Sri JayeshRanjan , IAS ,Principal Secretary ,IT AND I & C, Govt. of Telangana ,inaugurated the Grace Cancer Screening Bus and Ms. Sangita Reddy , Jt. Managing Director , Apollo Hospitals Group distributed the prizes to the winners . Guests of honour at the flag off and valedictory programmes were Mr. Nimmatoori Raja Babu, Chairman , Aurora Group of Educational Institutions, Sri Rajeswararao, MLC, Ms. Deepa Saxena , Mrs India , Telangana , Ms Vidya Sravanthi , Social Entrepreneur . The organizers of the run Dr. Chinna babu Sunkavalli, Founder & CEO , Grace Cancer foundation and Dr Hemanth Vudayaraju , Robotic Surgical Oncologist, Marathoner & Race Director, were also present on the occasion .



Grace Cancer Foundation ,a charity organization working towards providing succor to cancer patients initiated the cancer run to raise public awareness against cancer, its prevention and early detection .Over 200 Cancer Survivors participating in the run was the highlight and was instrumental in instilling confidence and hope among those afflicted with cancer and sending the message that cancer after all is conquerable .

Dr. Chinna babu Sunkavalli speaking on the occasion said that the biggest problem in India as far as cancer is concerned is the late detection of the disease , often so late that very little can be done. Cancer can't be treated at that stage .These is because people in rural areas and villages neglect seeking immediate help. If detected early, cancer can be treated. But with Grace Cancer Foundation launching the Grace Screening Bus, people in the remotest places can be screened for cancer and access treatment. This is a good initiative and helps the people. 2000 students from all Aurora group of colleges participated in this cancer run .300 students, NSS Volunteers, faculty members, NSS Programme officer, Heads of the Departments and Director from ATRI took part in the Cancer Run Programme.

PLACEMENTS NEWS

Placements Cell conducted Campus Recruitment Training (CRT) for all IV year students of ATRI from 28-09-2018 to 14-10-2018 on campus. FACE Academy conducted the classes. The components of the CRT programme were

- a)Pre Assessment test
- b)Training provided in the areas of Quantitative, Reasoning, Soft skills, communication, Verbal...etc
- c)Mock interviews, GD Practicing
- d)Post Assessment test

As part of the training , practice material was provided to the students by the Face academy. Face academy provided valuable information on career Planning. Students experienced the mock interviews too. The aspirants were happy with the training and their doubts were clarified by resource person. A total of 351 students participated in the CRT.

SPORTS EVENTS

Reliance Foundation Youth Sports Hyderabad District Senior (Category) Boys&Girls College Championship

Athletics Winners & Participants

Student Name	Event	Dept
M. SaiPrakash	Long Jump/ 3 rd Place 4*100mts Relay	CSE III
Pradeep Reddy	Shot Put / 3 rd Place	ECE-II
M.Sindhuja	Shot Put / 3 rd Place	ECE IV



Athletics Participants

Student Name	Event	Dept
Ramu	100mts, 4*100mts	ME IV
Rakesh	4*100mts Relay	ECE-IV
Ruthvik	4*100mts /Relay	ECE-IV
Nandajeeth	1500mts	ME IV
Laxman	200mts	ECE-I
DevendraNadh	Shot Put	ECE-I
Jaykrishna	400mts	ECE IV
Sindhu Reddy	100mts	ECE I
JaspreethKaur	400mts	ECE I
Sravani	Shotput	ECE II
Krishna	800mts, 1500mts	CE III
K .Vinay	3000mts	CSE-II



Jntu-H Selections Trial Soft Ball Conducted on 23-10-2018 at CMR

Name	Branch
Rakesh	ECE-IV
B.V.S .Jay Krishna	ECE-IV
Melvin	CSE-IV
Kushik	MECH-I
Ravi Sing	CIVIL-I
Anurag	CSE-III

Rakesh Was Selected For Jntu-H



ART GALLERY



పెంచిన ప్రేమ
 పాగు తెందుకక పోయినా కన్న తల్లివయ్యవు
 గోరుముద్దలు పెట్టకపోయినా ప్రేమను పంచావు
 ఎత్తుకొని అలిం చాపోయినా చేయక నిచ్చావు
 మా ఎదుగుడులకేసం కరుగుతూ వెలసులు సిపావు
 భసురాగ్రకి భర్తం సువ్వు
 క్రాగ్రాగ్రకి కూపం సువ్వు
 మా జెవిలాగ్రకి పరమాత్మం సువ్వు సువ్వు !
 P.Mamatha
 Sr. Asst. Prof
 ECE dept

- P. Mamatha, Asst. Professor, ECE



- B. Malathi, Assoc. Professor, CSE

ATRI IN MEDIA

అరోరాలో ఉచిత కంటి వైద్య శిబిరం

మేడిపల్లి: పర్వతాపూర్లోని అరోరా టెక్నాలజీ కల్, రీసెర్చ్ ఇన్స్టిట్యూట్ ఎన్ఎస్ఎస్ విభాగం ఆధ్వర్యంలో వానన్ ఐ కేర్ సహకారంతో మంగళ వారం కళాశాలలో ఉచిత కంటి, దంత వైద్య శిబిరాన్ని నిర్వహించారు. కళాశాల డైరెక్టర్ శ్రీకాంత్ జట్లా ముఖ్యఅతిథిగా హాజరై వైద్య శిబిరాన్ని ప్రారంభించారు. ఈ శిబిరంలో దాదాపు 400 మంది విద్యార్థులు, అధ్యాపకులు, సిబ్బంది తదితరులు పరీక్షలు చేయించుకున్నారు. ఈ కార్యక్రమంలో వానన్ ఐ కేర్ ప్రతినిధి ప్రసన్నకుమార్, డాక్టర్లు, కళాశాల ఎన్ఎస్ఎస్ ప్రోగ్రామ్ అధికారి డి.వేణుగోపాల్ రెడ్డి, విద్యార్థులు పాల్గొన్నారు.



పరీక్షలు నిర్వహిస్తున్న వైద్యులు

UPCOMING EVENTS

Date	Event
1 st November 2018	A Two Day workshop on Advanced Manufacturing Systems, ME
2 nd November 2018	Industrial visit to Ramtech Industries, ME
3 rd November 2018	Guest Lecture on Advanced IC Engines, ME
5 th November 2018	Quiz competition in Chemistry
12 th November 2018	Guest Lecture on Vocabulary Skills, English
26 th November 2018	Guest Lecture on Spectroscopic Techniques and its Applications



Contact Us

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