
Dept. of Freshman Engineering

INDUCTION PROGRAMME 2018-19

The Induction Programme is designed to facilitate the academic, cultural and social adjustment of the first year commencing students. The programme activities are linked to the key strategic goals of the institution, namely enhancing the student experience, developing excellence in learning and teaching, and encouraging participation of students from diverse cultural and social backgrounds.

Audisankara College of Engineering & Technology (Autonomous), Gudur, organized an Induction programme for the newly admitted B.Tech students at the institute premises on 14.06.2018. The major objective of the programme was to make students aware of the academic aspects of the course, the rules and regulations of the Institute and Code of Conduct.

The programme was inaugurated with the lighting of the lamp by Sri Dr. K. Narasimha Reddy, Rtd. Professor, Personality and Development, Dr. A. Jagadeesh, Director of Audisankara Group of Institutions, Dr. A. VAani, Principal, Prof. T. V. Rao, External Academic Advisor, Head of department Dr M.Rajaiah and other dignitaries. In the inception of the programme, a short movie was displayed making students aware about the recent achievements that the institute bagged in.

Dr. A. Jagadeesh, Director, Audisankara Group of Institutions, in his address welcomed and congratulated parents for their acceptance to the ASCET. He motivated students to be professional engineers as although a large number of engineers are produced in India every year, a lesser number of engineers turn into professionals.

Chief Guest, Dr. K. Narasimha Reddy, Rtd. Professor, Personality and Development, while delivering a speech on the occasion, said that one needs to be passionate about achieving his goals. He also stressed the importance of dedication to one's profession and the need to have proper planning before taking up and implementing any project.

In her brief address to the students and parents, the Principal of ASCET expressed delight over the fact that ASCET the Institute had already become a much sought after institution for engineering studies in the Nellore region. He also reiterated the Management's commitment to elevate the Institute to the status of Number 1 engineering college in the state within the shortest time possible.

Dr M.Rajaiah, Head, Department of Humanities and Sciences, informed the students about the various facilities available in the institute for the students. He highlighted the accomplishments of the institute, faculty and emphasized the need for continuous hard work and stressed that getting admission into ASCET is the starting point and not the end of the journey as ASCETian- The Flight to success has just begun.

Apart from dignitaries, Prof. T.V.Rao, a motivational speaker and Academic Advisor also conducted sessions to make students aware about the changes which are going to occur after entering college life. Through team leading games and other activities he guided students how to develop good leadership qualities, stress bearing capacity, innovative ideas, self-confidence and turning to be a successful professional.

The program ended by creating a significant impact on the students of the college and motivating them to achieve great heights.





TRANSCENDENTAL MEDITATION

An awareness programme on Transcendental Meditation was conducted 22.09.2018 in the campus between 10-30 A.M. to 3.30 P.M. Director of the college Dr. B. Dattasreya Sarma has inaugurated the event and the college Vice Principal, Prof. K. Dhanunjay has presided over the function and welcomed the faculty and students. Nearly 800 students and faculty members have participated in this programme. Programme officers of Maharshi, University of Management, USA Dr. Aslee James Deans and Prof. Cecil Pault have jointly organized this programme.

. Dr. Aslee James Deans. has delivered a Special Lecture on “Yoga and Transcendental Meditation”. He focused his light on the remarkable benefits of Transcendental Meditation and how it would change the life a student if followed daily. According to him the following benefits were noted:

- Good concentration and this is one of the most important things which one needs to keep in mind, and it is a great way to keep things in hand and make it easy;

- Calm mind, this is a very important thing, and you need not think about anything else. This is one of the best ways of getting things done in the right way;
- Relaxation and rejuvenation of body and mind;
- Improved communication; and
- Better clarity.

On a physical level, meditation:

- Decreases tension-related pain, like, tension, headaches, insomnia, ulcers, muscle as well as joint problems;
- It lowers the high blood pressure, levels of the blood lactate and reducing the anxiety attacks;
- Improves immune system;
- Increases the serotonin production, which improves behavior and mood; and
- Increases energy level, when you gain an inner source of energy.

Mental Benefits

The meditation also brings brainwave pattern in alpha state, which promotes healing. The mind gets fresh, delicate as well as beautiful. This cleans and nourishes you within as well as calms you when you feel unstable, overwhelmed, and emotionally shut down. So, with regular practice of meditation:

- Emotional stability improves;
- Anxiety decreases;
- Happiness increases;
- Creativity increases;
- Problems become smaller;
- Gain clarity & peace of mind; and
- Intuition develops.

The programme was brought to an end with vote of thanks and felicitation to the resource persons.

విద్యార్థులకు యోగా, ధ్యానం అవసరం

గూడూరుగ్రామీణం,

న్యూస్టుడే : విద్యార్థులు ఒత్తిడిని అధిగమించేందుకు యోగా, ధ్యానం అవసరమని యూఎస్ఎఫ్ఓకి చెందిన మహర్షి మేనేజ్మెంట్ యూనివర్సిటీ మేనేజ్మెంట్ ప్రొఫెసర్లు అశీ జేమ్స్ డీస్, సీనిల్ పార్ట్ సూచించారు. గూడూరు పట్టణంలోని ఆదిశంకర ఇంజనీరింగ్ కళాశాలలో విద్యార్థులకు ధ్యానం,



ధ్యానం ఆవశ్యకతను వివరిస్తున్న ప్రొఫెసర్లు

యోగాపై సోమవారం ప్రత్యేక అవగాహన కార్యక్రమాన్ని నిర్వహించారు. ఈ సందర్భంగా ప్రొఫెసర్లు మాట్లాడుతూ మానవుని ఆరోగ్యానికి యోగా ఎంతో కీలకమన్నారు. నేటి పడుగుల ప్రపంచంలో ప్రతిఒక్కరూ ఆరోగ్యంపై శ్రద్ధను మరిచారని, డబ్బు సంపాదనే ధ్యేయంగా జీవిస్తున్నారని వివరించారు. రోజూ ఉదయం, సాయంత్రం ధ్యానం నేర్చుకోవడం ఎంతో మంచిదన్నారు. ఈ కార్యక్రమంలో కళాశాల చైరెక్టర్ దత్తాత్రేయశర్మ, ఏవో రామయ్య, కళాశాల ప్రతినిధులు ధనుంజయ, వేణుమాధవ్, రాజయ్య, భాస్కర్ రావు తదితరులు పాల్గొన్నారు.

ANTI RAGGING PROGRAMME

At ASCET campus, The National Service Scheme of Audisankara College of Engineering and Technology (Autonomous) has conducted anti-ragging awareness classes on 15.09.2018. The programme was presided over by Dr. B.dattatreya Sarma, Principal ASCET. The programme was inaugurated by Smt. N. Santhi , 7th Additional District judge cum Chairman, MAndal Legal Services Committee, Gudur, Sri. K.S. Rama Rao, Senior Civil Judge, Gudur and their crew. The chief guest, Smt. N. Santhi talked on legal and criminal procedures of ragging. The session ended with a pledge taken by the students that they will not directly or indirectly involve in any activity that may hurt the feelings of the fresher's.

Audisankara has decided to take stringent actions against students involved in ragging based on the recommendations made by the honorable Supreme Court, UGC and Governments. A meeting convened by Director, Principal and HODs on 13th June 2018 has decided to strengthen monitoring at hostels and classrooms to check incidents of ragging and entrusted the Director, Department of Youth Welfare to co-ordinate the anti-ragging awareness activities in the campus . It is further decided to provide enough publicity in the campus against such barbarism through awareness programmes, posters and flex boards.

The college has made wide arrangements to prevent ragging in the Campuses of the college before the commencement of classes of new batch. In this view institute has formed a College level monitoring cell, Anti-ragging committee and Anti ragging squads at Department level. A combined meeting of committees has discussed various actions to be taken to prevent the menace of ragging from the campus and decided to start the awareness programme for seniors from 22nd July, 2018 onwards.

Sri. K.S. Rama Rao, Senior Civil Judge, Gudur, inaugurated the anti-ragging campaign at KVT Auditorium on 15.09.2018. Sri. SK. Afsar Basha, Asst. SI, Gudur delivered key note address.

The Guests, Sri. Harnath Prasad Rao, Sri. A. Parvathaiah, Sri. M.V. Krishnaiah Advocates also spoke on the occasion. They said “Ragging is a menace to the society and it should be curbed at root level by educating the students in their campus”.

They explained the consequences of ragging and the Anti Ragging Law in detail. They said, “India is the largest democracy in the world, where we have a lot of freedom. But this does not give the liberty to do whatever we want, so there are limits for everything. If that limit is crossed then the legal cell takes authority and formulates certain rules to curb the menace prevailing in the society. They also said Supreme Court of India has taken a strong stand to curb ragging”.

Mr. G. Hari Krishna, Asst. Professor, Dept. of H&S, welcomed the guests and proposed the vote of thanks.







Audisankara organised a fresher's party for their freshers . A little lilting music and the chink of ice, new faces, smiles all along, resounding laughter- yes it is party time! Students need moments to chill out. The very purpose of Fresher's Day party was to welcome newcomers in a friendly atmosphere and avoid social evils, to encourage their creative impulses to boost their confidence.

It started off with lamp lightening by Director, Dr. Dattateya Sarma, Vice Principal, Prof. K. Dhanunjay, and the chief guest, Sri Sandra Sudheer Kumar, Psychologist and Motivational Speaker and All heads of the different departments along with a welcome address for all the freshers. "Our holy script is our guiding light in life – the direction of a teacher is biggest lesson for the students and every individual should aspire to inculcate the values for achieving the set goals" said Director during the event.

The fresher's party was celebrated with fun and masti . Such programs are organized so as to generate the feeling of fraternity among seniors and juniors. All the events were artistically and beautifully presented in colours as well as style. The audience were kept enthralled for three hours by mind, blowing performances of dances, songs and mimicry. There were hit dance numbers and various games which entertained all. Participants were supported and encouraged by everyone as they performed on the stage. . The main challenge of the event Mr. and Ms. Fresher were selected, on the basis of their performance in three different rounds. First, it was the Introduction Round followed by a Talent Round and then the grand final "Question-Answer" Round with the top two contestants vying for Mr. and Ms. Fresher crown in each course.

Around 700 students participated in this and lunch followed the program. By the time the party came to an end, all the students were begging for more. Fresher's loved the welcome given to them and appreciated the whole-hearted efforts of their seniors and the university. It is said that a good start signifies a great end, and the fresher's could not have asked for a better kick off.









ASCET

Audisankara College of Engineering and Technology
(Autonomous)

COUNSELING CODE: SANK

Date: 05/10/2018

INDUSTRIAL VISIT (ISRO, SRIHARIKOTA)-REPORT

- **Date of Visit : 05/10/18(Friday)**
- **Reporting time : 9.00 Hrs**
- **No. of persons Visited : 160 (Including staff & Bus Crew)**

As an intrinsic and compulsory part of Industrial Learning and Operations by ASCET, the students of I B.Tech ECE & EEE had a one day industrial visit to Satish Dhawan Space Center, SHAR, Sriharikota on 5/10/2018 accompanied by Mr. G. Hari Krishna, Asst Professor, Mr. Ch. Suresh, Asst Professor, Dr. C. Giridhar, Assoc. Professor, Mr. T. K. Madhu Sudhan, Asst. Professor, Mrs. Y. Uma Devi, Asst. Professor and Mrs. B. Padma, Asst Professor.

Visitors (students and the accompanying staff total 160 students) travelled to SDSC SHAR by transportation provided by the ASCE management. The journey commenced at around 7.00 AM from College Campus and reached SDSC SHAR at around 9:00AM on 5/10/2018. After several security checks and administrative formalities, visitors were taken to a central building. In this place, they were demonstrated a video – ‘Gateway to Space’ – on the ISRO, its history, and the current facilities available. After the video, questions were fielded to the official, and they were answered with ease.

THE ‘GATEWAY TO SPACE VIDEO’

The GSLV and PSLV are the two launch vehicles used presently by ISRO to launch satellites into the geosynchronous and polar orbits consequently. The GSLV has 3 stages – the first is a solid (fuel) stage, the second a liquid (fuel) stage and the third is a cryogenic stage. The satellites launched so far have applications in the manner that National development/infrastructure, telecom, disaster warnings, resource management, etc.

The PSLV can launch multifarious satellites concurrently at an ignoble cost and high fidelity. The various facilities at SDSC were listed and their functions are annotated in brief. Weather prediction is another substantial factor at the time of launch, and the SHAR aggrandizes this facility too. The latest addition to the SDSC was the S200 propellant plant. The strap on motors, their dimensions and use were elucidated.

The launch procedure begins at (t-57) hours. At this time, the liquid propellants are filled into the system. At (t-16) hours, the mobile service car is withdrawn and the system is connected to the Launch and Mission control centre (which are placed 6km from the launch site) through electrical wires only. The cryogenic fuel is set around the launch site. The performance is monitored in real time. At about 17 minutes after blast off, the GSLV completes the mission – puts the satellite in geosynchronous orbit.

The Sriharikota Range has been chosen for its proximity to the equator and to use the rotation of the earth. It is close to Lake Pulikat and is about 100 km north of Chennai and close to the Bay of Bengal. After this, visitors were taken to several locations within the SDSC, with a guide to explain the locations.

MISSION CONTROL CENTRE

After another round of security checks, visitors were seated in the visitor's box where the VVIP's are seated during launches. Here, visitors were told about the history and geographical features of SHAR. The SHAR was renamed SDSC after former ISRO chairman Prof. Satish Dhawan on the 5th of September, 2002. The range is about 175 sq. km in area and has a coastline of 60km.

The mission control is the focal point of controlling the vehicle. There are 8 'hold buttons' at different places around the range. In case of abnormalities in subsystems (affecting the health of the rocket), the hold button is used to terminate the countdown. In case the abnormality has been resolved, the first row is used to supervise the control of the launch vehicle. The second and third rows control the operations on the vehicle. Various chiefs of operations are seated in these rows. These computers are connected by Ethernet and fibre optics.

There is a separate ring safety server which is controlled by a senior scientist. In case of abnormalities in the path of the rocket, this person can detonate the rocket so that the rocket is blown up over the sea and does not affect neighbouring human population. There are 45 levels of information relating to the launch of the rocket. The vehicle Director authorises the launch at (t-16) minutes. An automatic sequence program checks the health of the rocket (with respect to various parameters) and ensures that any deviations in the parameters are within specific limits.

LAUNCH OF SOUNDING ROCKET

Since we visited the SHAR during World Space Week, the authorities have arranged a launch of Sounding Rocket. It was scheduled at 12.50pm on the same day. We reached there by 11.44 am and kept waiting for its launch. The officials gave us detailed information about World Space Week. The counting of time has been announced for every 5 minutes. When the clock ticks

against 12.50 pm, there was a sound and we witnessed the take off of a rocket. Our eyes were filled with delight and amusement looking at that wonder.

ISRO TELEMETRY, TRACKING AND COMMAND NETWORK (ISTRAC) SHAR GROUND STATION

Various animations related to the tracking rockets and the orbiting of satellites was shown. There was another animation of the Chandrayaan's route to the moon. The MIP had to make 5 orbits around the earth and 4 around the moon before impact. Each orbit around the earth was of increasing height and each orbit around the moon was of decreasing height.

LAUNCH PAD II

This is the location that we see every time a launch is broadcast on television. The rocket is assembled and brought to the launch pad. The rocket is electrically insulated from lightning by 4 lightning protection towers. These towers also house high resolution cameras at several levels to monitor the various stages of the rocket. These cameras are protected by concrete enclosures. The launch pad itself is about 70m high. This means that the protection towers are even taller. An anchor is present to hold the rocket in place until the time of blast off.

Separate pipes are present to deliver cryogenic fuels, which are supplied at 180 degrees Celsius. Finally, there are exhaust deflection ducts which deflect the exhaust gases through underground tunnels to a place which is a few tens of metres away. In case the flame returns to the rocket, balance will be lost and the rocket may topple. The tunnels are filled with water to reduce pressure and temperature. Also, cryogenic fuel tanks are available in separate towers. Each floor in the launch pad is 4m high. This launch pad is called 'umbilical' due to the presence of the pipes which feed fuel to the rocket.

LAUNCH PAD I

Unlike the 'umbilical' type, this is a pedestal type. The whole tower moves away from the rocket just before the blast off. As a particular 'fuel regulation' process was taking place at the time, entry was denied.

ASSEMBLY AND STATIC TEST AND EVALUATION COMPLEX

This was the last location visited in the range. Two buildings constitute the complex – the assembly building and the test buildings which are placed adjacent to each other. Motors which are in excess of 2m dia are present and they are fabricated in Mumbai.

Several tests are done on a launch vehicle, such as vibration test, centrifugal test, and static test. Of these, only the static test is done in SHAR. There are two kinds of static tests – ballistic test and the other is to optimize insulation. After assembly, the motors are tilted horizontally and they are integrated to floating members. From a calibration curve, the strain is converted to thrust and the motor is characterized. Flexible nozzles of the strap on motors are also tested on this test bed.

CONCLUSION

The overall experience was fascinating and exhilarating. We, the staff and students of ECE & EEE Departments, Audisankara College of Engineering & Technology (Autonomous), Gudur perceive the complex working and incessant effort of the scientists who work to make each launch a successful sensation. The inspiration derived was well worth the time spent.

Our students and accompanied staff returned with newly found patriotism, delight and amusement as the trip revealed India to be a superpower in Space Sciences.







ASCET

Audisankara College of Engineering and Technology
(Autonomous)

COUNSELING CODE: SANK

Date: 09/10/2018

INDUSTRIAL VISIT (ISRO, SRIHARIKOTA)-REPORT

- **Date of Visit : 09/10/18(Tuesday)**
- **Reporting time : 9.00 Hrs**
- **No. of persons Visited : 190 (Including staff & Bus Crew)**

INTRODUCTION

SHAR is a rocket launch centre operated by Indian Space Research Organization (ISRO). It is located in Sriharikota in Andhra Pradesh .Sriharikota launching range was renamed 2002 after ISRO's former chairman Satish Dhawan. The centre became operational in 1971 when an RH-125 sounding rocket was launched .The first attempted launch of an orbital satellite “ Rohini 1 A” on Aug 1979. SHAR facility now consists of two launch pads.

An industrial visit was organized by Audisankara College of Engineering and Technology for 1st year students (CSE,CIVIL & MECHANICAL), to the Satish Dhawan Space Centre, Sriharikota [SDSC, SHAR on 09th October 2018.

The trip was organized and coordinated under the flagship of Dr. Y. Harnath, Assoc. Professor, Mr. V. Jagadesh, Asst. Professor, Mr. P. V. Ramanaiah, Asst. Professor, Mrs. V. S. Samyuktha, Asst. Professor and Mrsy. Nagaveni, Asst. Professor. Our Vice Principal, Prof. K. Dhanunjay, personally requested the director of SDSC, SHAR to provide his students an opportunity to explore the milieu of satellites and rockets.

SDSC, SHAR, the rocket launching centre, operated by the ISRO, has a unique combination of facilities of solid propellant production plant, a rocket motor static test facility, telemetry, tracking and so on. On 09th October, the students were taken to the island and were shown 2 launching stations, under the guidance authorities of SDSC. One station had a PSLV C-27 with Indian Regional Satellite System (IRNSS) 1-D satellite, which was successfully launched on 28th march'15 . The highly secured control room was also visited, where the students saw the scientists working on live projects which was mind stirring and extremely motivating. “I am feeling so lucky! Seeing those people work there, it was a “dream come true” experience for me . Even I wish to join ISRO now”, said a student.

The trip was a huge success and was a “once in a lifetime” opportunity for all the budding engineers who grasped all the latest technological advancements. Every student was highly fascinated and deeply intrigued by looking at those engineered marvels.

