

REPORT ON
INDUCTION PROGRAMME
FOR
FIRST B.TECH STUDENTS
(2018 ADMITTED BATCH)



GUDLAVALLERU ENGINEERING COLLEGE
(An Autonomous Institute with permanent affiliation to JNTUK , Kakinada)

SESHADRI RAO KNOWLEDGE VILLAGE :: GUDLAVALLERU

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Objectives of Induction Programme

1. To create awareness about engineering education and their chosen field.
2. To motivate the students for their studies and for excellence in their profession.
3. To promote bonding between the students and to build relation between teachers and students.
4. To give a broader view of life and understanding of self, people around them, society at large, human relationships, and nature.
5. To make the students understand the importance of building and nurturing character, making it an essential quality of one's life, be it a professional life, civilian life, or as a human being.
6. To impart several meta skills and underlying values to students.
7. To make students feel comfortable in their new environment and to open them up.
8. To set a healthy routine.
9. To help them develop team work and enhance creativity.
10. To create awareness on the communication and other skills required by the employers.

Schedule for First Week (9th – 13th July 2018)

Sl. No	Date	Name of the Event and Resource Persons/ Organization				
		FN Session	AN Session			
1	09-07-2018 (Monday)	Registration & Parents meet				
2	10-07-2018 (Tuesday)	Yoga Practice (06.30AM to 07.30AM)	Presentation of Motivational Videos (09.00AM to 10.00AM)	“Literature in Vernacular Language - Personality Development” Sri Garikapati Narasimha Rao (10.00AM to 12.30PM)	“Classical Dance - An instrument to Attain Eternal Life” Sri.Vedantam Ramalinga Sastry (01.30 PM to 04.00 PM)	Sports & Games (04.40PM to 06.00PM)
3	11-07-2018 (Wednesday)	Yoga Practice (06.30AM to 07.30AM)	Presentation of Motivational Videos (09.00AM to 09.30AM)	"Library Services" Sri.P.Srinivasa Rao (09.30AM to 11.00AM)	"Telugu - Velugulu" Sri.Annadata Parasamani (11.00AM to 12.30PM)	Sports & Games (04.40PM to 06.00PM)
4	12-07-2018 (Thursday)	Yoga Practice (06.30AM to 07.30AM)	Presentation of Motivational Videos (09.00AM to 10.00AM)	“Communicate with Competence” Dr.Ramanujam Parthasarathi (10.00AM to 12.00PM)	"Classical Music-A Path to Glorious Life” Mrs.Lakshmi Narasamma & Team (01.30PM to 04.30PM)	Sports & Games (04.40PM to 06.00PM)
5	13-07-2018 (Friday)	Yoga Practice (06.30AM to 07.30AM)	Presentation of Motivational Videos (09.00AM to 09.30AM)	“Environmental Aspects” (09.30AM to 11.00AM)	Fire Safety and Preventive Measures (11.00AM to 12.30PM)	Sports & Games (04.40PM to 06.00PM)
				Feed back by students (01.30PM to 03.00PM)	“Awareness Programme on Road Safety” Sri Ravi Kumar (03.00PM to 04.30PM)	

Schedule for Second Week (16th – 21st July 2018)

Sl. No	Date	Name of the Event and Resource Persons/ Organization						
		FN Session		AN Session				
1	16-07-2018 (Monday)	Yoga Practice (06.30AM to 07.30AM)	Presentation of Motivational Videos (09.00AM to 09.30AM)	“Origin & development of Telugu Language” Smt.Avula Manjulatha (09.30 AM to 11.00 AM)	“Tips for Healthy Living” Dietician Dr.G.Swarupa (11.00 AM to 12.30 PM)	“Employability Opportunities for Engineers” Sri.K.Sai Krishna (01.30PM to 04.00PM)	Sports & Games (04.40PM to 06.00PM)	
2	17-07-2018 (Tuesday)	----- Department Programs -----						
3	18-07-2018 (Wednesday)	Yoga Practice (06.30AM to 07.30AM)	“Introduction to Indian Constitution” Sri.Gundu Sri Krishna (09.30AM to 11.00AM)	“Tips to Improve Mind Power” Sri.S.Sudheer (11.00AM to 12.30PM)	“Morals and Ethics” H.G.Satya Gopinadh Dasa (01.30PM to 04.40PM)	Presentation of Motivational Videos (04.00PM to 04.40PM)	Sports & Games (04.40PM to 06.00PM)	
4	19-07-2018 (Thursday)	----- Department Programs -----						
5	20-07-2018 (Friday)	Yoga Practice (06.30AM to 07.30AM)	College Rules and Regulations (09.00AM to 10.00AM)	“Students Counseling” Sri.Yandamuri Veerendranadh. (10.00AM to 04.00PM)			Sports & Games (04.40PM to 06.00PM)	
6	21-07-2018 (Saturday)	Yoga Practice (06.30AM to 07.30AM)	“Meditation Practice” (09.00AM to 12.30PM)				Freshers Evening	

Schedule for Third Week

Name of the Program : Engineering Orientation Program

S.No	Department	Duration
1	CE	07-01-2019 to 11-01-2019 & 28-01-2019 to 02-02-2019
2	EEE	28-01-2019 to 02-02-2019
3	ME	30-12-2018 to 05-01-2019
4	ECE	17-12-2018 to 22-12-2018
5	CSE	24-12-2018 to 31-12-2018
6	IT	23-12-2018 to 29-12-2018

MAPPING OF PROGRAMS ORGANIZED WITH OBJECTIVES OF INDUCTION PROGRAM

Program Description / Objectives	Obj 1	Obj 2	Obj 3	Obj 4	Obj 5	Obj 6	Obj 7	Obj 8	Obj 9	Obj 10
Literature in vernacular language - Personality Development by Sri Garikapati Narasimha Rao			✓	✓	✓	✓		✓		
Classical Dance – An introduction through Kuchipudi by Dr. Vedantam Ramlinga Sastry			✓	✓	✓	✓			✓	
Introduction to Library and Information Centre by Sri Pavuluri Srinivasa Rao		✓								
Telugu – Velugulu by Annadata Prasamani			✓	✓	✓	✓	✓			
General Engineering Education by Dr. K.V.S.G. Murali Krishna	✓	✓	✓	✓	✓		✓	✓	✓	
Communicate With Competence by Dr P Ramanujam			✓				✓			✓
Classical Music – A path to glorious Life by Smt. Kandula Lakshmi Narasamma				✓	✓	✓		✓	✓	
India’s Future: On Your Shoulders by Dr. S. Rama Krishna Rao	✓	✓	✓	✓	✓	✓			✓	✓
Fire Safety and Preventive Measures						✓				
Awareness Programme on Road Safety by Sri Ravi Kumar						✓				

Program Description / Objectives	Obj 1	Obj 2	Obj 3	Obj 4	Obj 5	Obj 6	Obj 7	Obj 8	Obj 9	Obj 10
Telugu Language – Origin and Development by Dr. Avula Manjulatha	✓	✓	✓	✓	✓			✓		
Balanced Diet by Dr. G. Swarupa								✓		
Constitution of Republic of India by Sri Gundu Sri Krishna				✓	✓					
Mind Transformation by Sri Saandra Sudhir			✓	✓	✓	✓				
Ethics and Morals by Sri H.G. Satya Gopinath Dasa			✓	✓	✓	✓	✓	✓	✓	
Students Counselling and Personality Development by Sri Yandamoori Veerendranath		✓	✓	✓	✓	✓	✓	✓	✓	✓
Department Specific Activities	✓	✓	✓							

Date: 09th July 2018

Time: 10:00 AM -1:30 PM

Name of the Activity: Registration and interaction with first year students and parents

The induction program started on 09th July with the registration of newly admitted students. After the completion of registration process, a meeting of college authorities with the students and parents was arranged to raise awareness.



Date: 10th July 2018

Time: 10:00 AM -12:30 PM

Name of the Activity: Literature (Classical and Contemporary) in vernacular language - Personality Development.

Speaker: Poet Sri Garikapati Narasimha Rao

Profile: Maha Sahasravadhani, Padhya Kesari, Sri Garikapati Narasimha Rao is a luminary in a unique Telugu literary and intellectual tradition called “Avadhanam” where one subjects himself to the grilling of several literary experts over many hours and days, retaining every sound bite and repeating and reinterpreting when requested. Sri Garikapati has performed many such ‘avadhanams’ and is a household name in the Telugu community across media channels.

Salient Points Conveyed: Sri Rao’s invocation with his own compositions on divinity has tuned everyone into rapt attention for his words to follow. He continued with many similes, metaphors and allegories which captured the attention of all the audience. He lamented that such a treasure of knowledge and wisdom is remaining



untapped, as the younger generations glue their eyes to screens big and small. He elaborated on how information is transformed to knowledge by action and further to wisdom by practice and perseverance. He advised the students to acquire a habit of respecting others, particularly



parents and teachers who have a keen interest in their development. By posing riddles in language and solving them, he demonstrated how the discrimination, memory and intelligence can be continuously improved. Only by guiding our mind into the unknown do we develop new mental pathways and improve our personality. He has quoted

prolifically from classical Telugu Literature. By taking very well known incidents in the

puranas he has introduced the 'dimension' of context into perceived problems. When we look at a problem sans the context, it appears to be insurmountable. However, by bringing the context into the fore, we will discover opportunities to overcome the very problems. He has convinced the audience based on his own life experiences.

He has concluded his innovatory interaction by giving a seven- fold process to adopt in one's daily life that shall transform one's experience of life into an empowering and exhilarating one. The audience had frequently broken into laughter and finally paid a standing ovation in gratitude to the blessings bestowed by Sri. Garikapati Narasimha Rao. The members of the management, staff and students have felicitated the speaker and also sought his benedictions off the stage.

Date: 10th July 2018

Time: 1:30 PM - 4.00 PM

Name of the Activity: Classical Dance – An introduction through *Kuchipudi*.

Speaker: Dr. Vedantam Ramlinga Sastry

Title of the session: Classical Dance – An introduction through *Kuchipudi*.

About the topic and speaker: India has Classical art forms which are unique to the region and language of its varied peoples. As *avadhanam* is unique to the Telugu speaking people, the *Kuchipudi* dance form is also unique to the Telugu Culture. Tamil, Malayalam and Odia people have their own classical dance forms viz. Bharata Natyam, Kathakali and Odissi. Unlike other South Indian classical dance forms, Kuchipudi is the name of the village in Krishna district where this dance form has been codified by its exponent *Sri Siddhendra Yogi* in the 12th Century.



Potti Sri Ramulu Telugu University in Hyderabad supports Kuchipudi training through ‘*Sri Siddhendra Yogi Kalakshetram*’ located in Kuchipudi where training is offered in various classical art forms including Kuchipudi. Gudlavalleru Engineering College invited the Principal of *Kalakshetram*, *Dr. Vedantam Ramlinga Sastry* and his students to come and perform in the programme. *Sri Sastry* introduced the *Natya Sastra* to the audience which is a classical work on performing arts. All the dance styles in India, viz. Bharata Natyam, Kuchipudi, Kathak, Kathakali, Mohini Attam, Odissi, Manipuri have their roots in Bharata Muni’s *Natya Sastra*. All these styles have their unique expression, dressing, makeup, facial expressions intensity and story line. The very first codification of this art form is attributed to Sri Bharati Muni’s work ‘*Natya Sastra*’ and is dated to the 2nd century B.C. This work has about 6,000 verses which are grouped into 36 chapters.

Dance is also a medium of communication which engages our powerful faculties, the sense of sight and sound simultaneously, thus making a powerful impact on the audience. The



sense of harmony, aesthetics and order is entailed by a detailed grammar akin to spoken language where letters make words, which make sentences, paragraphs and so on to communicate simple or complex ideas. Similarly, the pose, movements, mudras, sequences and so on were demonstrated by his students as he

explained the significance of each of them. One of the performers hails from a poor family in Telangana and has left everything behind to learn and master this dance form. He gave an impressive performance. Just like any art form, Kuchipudi is formally taught and one can pursue up to doctoral studies. Exponents of this dance form have travelled widely in the world to give performances. Unlike music trends such as pop, hip hop, rock and



roll, Jazz which came and went classical dance forms have retained patronage over hundreds of years and continue to enthrall audience worldwide. The students thoroughly enjoyed the performances by artistes of their age group and learned the concepts of classical dance.

Title of the session: Introduction to Library and Information Centre.

About the topic and speaker: Gudlavalleru Engineering College is equipped with one of the most spacious and well stocked and updated libraries in the region. Additionally, all Departments have their specific libraries. The English Language Training Centre has a unique collection of fiction, non-fiction, and news periodicals. The centre also has a book-lovers club which meets regularly to discuss books.

The objective of this session was to emphasize the importance of consulting peer-reviewed and published material on technical matters. This session was organized to inform the students on what the library provides and how they should make the best use of them. Sri *Pavuluri Srinivasa Rao*, a retired librarian from a reputed college in the nearby town of Gudiwada was invited to guide the students on acquiring a habit of reading books and researching technical ideas. He shared the data related to the area, number of books, sections, timings of the library, the process of literature review and so on, which the student would go through in subsequent years of his/her engineering education.

Sri Rao also shared his work and interests in philanthropy post-retirement as a librarian. He appealed to the students to consider their careers as channels to reach out to the society and serve others. He emphasized that pursuit of happiness through luxuries and personal aggrandizement has proved futile time and again.

He quoted from *dharmic* literature that human life is a rare gift out of the eight lakh life forms and its objective is to serve others and not to squander it in petty achievements. One should consider the society as an extended family and strive for its betterment. This is not to say that one can ignore his immediate family. Just like Sravana in Ramayana who personally carries his parents on his shoulder for pilgrimage, charity begins at home but our ethos is to consider 'Vasudhaika Kutumbakam' - The world is one family.

The students have heard his talk with great attention.

Title of the session: Telugu – Velugulu

About the topic and speaker: Telugu is an ancient language. It has a prolific film industry, producing films for everyday in the year. For such prodigious output, the language should be doing quite well. Yet, the language is dying out due to fascination with America and modern living. We started using English words for such basic terms like, rice, salt, water which might have existed in the language forever. Yet, there are some initiatives to enhance Telugu Vocabulary with words for modern ideas and items like phone, computer, internet, and airhostess and so on.

Telugu is considered the Italian of the east and is especially amenable to poetry and lyrics as it is evidenced by the carnatic music tradition of South India. Gudlavalleru Engineering College invited ‘Annadata Prasamani’, a lecturer in Commerce at Sunrise Engineering College, Ongole to enlighten and entertain the students with his rhyming sentences, riddles and critiques of today’s society. Sri Mani’s session was a riot of laughter and the students simply couldn’t imagine such a command on the Telugu Language used so fluidly and spontaneously. Sri Mani gave new expansions and meaning to words like TEACHER, MADAM, STUDENT, INDUCTION, PARENTS, MID, SEMESTER which were witty yet thought provoking. They would change the way the students thought about various aspects of student life.



Students in Andhra generally invest a lot of time and energy in movies and activities around movie stars and are mostly confined to their smart phones and laptops. Sri Mani admonished the students in his idiosyncratic way, which the students approvingly accepted, to venture out of their rooms and explore the outdoors.

He criticised the media for sensationalising news and ignoring the real heroes and their stories of selfless sacrifice. He also illustrated by humming old and new film songs to show the change of language and the priorities of Telugu society. His many stories of leadership and sacrifice have inspired the students to prioritise their time in student life.

Title of the session: General Engineering Education

About the topic and speaker: Access to engineering education in the Telugu states has dramatically increased in the past couple of decades. Government fees reimbursement schemes have also encouraged enrolment from those sections of society which hitherto has not entered engineering professions. This is a daunting challenge for both teachers and students to impart technical knowledge and skills to students who may not have had a very good grounding in STEM (Science-Technology-Engineering-Mathematics) disciplines and English Language.

Dr. K.V.S.G. Murali Krishna, Principal of JNTU College of Engineering, Narasaraopet is a polymath and a passionate personality development speaker. He took various aspects of engineering education and dispelled the myths around them with demonstration and participation from students. He started with etymology of masking, intelligence, knowledge and engineering. He showed how knowledge enhances itself by sharing it with others. For various aspects of engineering, he offered a plan of study and practise and emphasized that drawing is the language of engineering and mathematics is the language of science, both first year subjects with notoriety for being difficult to pass. He showed how one can easily pass and possibly master these subjects.



He took up language and literature and in his characteristic way entertained and informed students about how to ‘break and spell’ and even guess the meaning of words accurately. He also made students memorize seemingly difficult Sanskrit verses in a short time by explaining their literal meaning and

the context. He related the love and grasp of language to communication skills and how they influence career progression of an engineer.

Dr. Krishna who is a prolific author is quite well read and has taken some famous quotes such as ‘veni-vedi-vici’ and given them an academic content by translating them as ‘observe, absorb, apply’. He explained the application of this paradigm to acquire language, technical and interpersonal skills. His rounding up of the session was a retelling of his home environment, his bonding with his mother and sister. He showed how inspiration and perspiration when matched in the right proportions can magically transform ones personality and life.

Dr. Krishna is a prominent environmentalist with deep knowledge of the socio-economic context and the environment-development nexus of the residual state of A.P. He has walked the students through the vast natural resources, district-wise of the state and gave ideas on how engineers can create economic opportunities for themselves and others in the state without migrating to the new world.

Dr. Krishna’s engagement would freeze time in its tracks and no one wanted to leave the venue after he called it a day. The college buses had to wait until the students grabbed copies of his books from the table outside the venue to keep themselves inspired and directed towards their goal.

Date: 12th July 2018

Time: 09:30 AM -12:30 PM

Title of the session: English

About the topic and speaker: Talk on ‘Communicate with Competence’ by Dr P Ramanujam, Senior Professor of English and Director, ELT Centre.

This interactive talk in which Prof. Ramanujam quizzed the students throughout the session focused on three aspects:

- Why do we often talk about communication in terms of skills?
- The “what” of communication.
- The ‘how’ of communication.

After a good deal of discussion in which Dr Ramanujam drew upon Bill Gates, Steve Jobs, and Ratan Tata as well as shared anecdotes about skills making a difference in communication, he said, ‘Communication only means, in a sense, *giving information*. Communication skills means *giving information* well or *giving information effectively*.

Next, he dealt with the WHAT of communication, using a popular story about a parrot that spoke five languages, and asked the students why it died, unable to use any one of the five languages to save itself when it was about to be killed. It failed to communicate, he said, because, though it knew five languages, it did not know what to say when its life was in danger. ‘There are quite a lot of people who are like the parrot of the story. Often, their communication fails because they don’t know what to say in a communicative moment, especially in a difficult



situation. In communication through English, we often think that we fail to communicate because our English is poor. It is a wrong assumption. Often, we fail because our thinking is poor; it is inadequate. In other words, we fail because we are not clear about our message. Language is only a medium. If the mind is clear, the expression will be clear to a reasonable extent. An American writer called Emerson said that a man’s expression is his mind’s voice. ‘Wooden minds, wooden voices,’ he said. So, the first lesson for you is: Be clear in your thinking; be clear about what you want to say. That is the first important requirement in communication.’

Turning to the HOW of communication, the professor told a story from AG Gardiner’s essay, ‘On Saying Please,’ and asked the students why the passenger had got thrown out of the lift instead of being taken in the lift to the top floor. Here again, the communication failed because the passenger did not know the *how* of communication: he failed to be polite in asking for a service.

In the rest of the discussion, Dr Ramanujam used examples from classroom incidents, Facebook Messenger chats and Whatsapp messages to drive home the idea that in communication, that what and the how are of primary importance. He concluded his talk as follows: ‘The point, simply, is this. You must be clear about what you want to say. But, you must also know how to say it. How to say something involves a proper choice of words –

using words which will carry sense to others, avoiding words which will confuse or mislead others, and avoiding words which will sound impolite, discourteous, or negative. The talk went down well with the students.

Quiz Contest

A quiz on various aspects English language were conducted in the second session of the programme.s The faculty members of the department of English conducted the whole session with lot of dynamism. Students showed a lot of interest in the activity and participated with greater energy.

1. SPELL-BEE:

PROCEDURE: The Spell-Bee is conducted in rounds. Each team spells one-word that fits in the given context in each round. The word list contains homonyms, homophones.

OBJECTIVE: Enhance student's knowledge of spelling; helps them learn concepts and in the process of using correct English.



2. FASTEST FINGER FIRST -DICTIONARY:

PROCEDURE: This is a buzzer round. Ten words are displayed on the screen each time. A time of 60 seconds is given. The teams discuss and arrange the words in the alphabetical order and press the buzzer, to answer first.

OBJECTIVE: Help students understand the skill of dictionary reference.

3. RIDDLES:

PROCEDURE: One/two line riddles are asked team wise.

OBJECTIVE: Requires comprehension. Improves critical thinking and jogs students' memory.

4. PICTOWORD:

PROCEDURE: Each team will be shown set/s of pictures. The teams will have to guess the word using the pictures.

OBJECTIVE: Requires knowledge of basic vocabulary, ability to relate and quick grasping. Helps build vocabulary.

Date: 12th July 2018

Time: 1:30 PM -04:30 PM

Title of the session: Classical Music – A path to glorious life.

About the topic and speaker: Carnatic Music is the South Indian classical music tradition encompassing all the states speaking Dravidian languages. The ‘Kritis’ or compositions in Carnatic music are in Sanskrit as well as Tamil, Kannada and Telugu. Historically, music has been used by the classical composers as a medium to connect with divinity. As such compositions are intended to compose and concentrate over energies inward. Music is defined and regulated to the finest detail with grammar and constructs. Film music which is so popular in the Telugu states across age, socio-economic divides, draws its inspiration from classical music. All the accomplished music directors and playback singers have trained in classical music before starting their career in the film industry.



Smt. Kandula Lakshmi Narasamma, Lecturer of Vocal Music at Ghantasala Venkateswara Rao Government Music College, Vijayawada and her team of vocalists and instrumentalists were invited to introduce classical music and demonstrate how it is a part of every one’s life. Smt. Narasamma has first introduced the domain of Indian classical music and its two main

divisions, the Hindustani tradition of Northern India and the Carnatic Tradition of Southern India. She herself is born into a family of accomplished music exponents. Her grandfather who worked at Akashvani, Vijayawada known to the Telugu people as Mallik who has rendered tunes to Annamacharya's Kirtanas.

She recounted the stories of the legendary personalities and their contribution to Carnatic music starting with Purandara Dasa who is considered the originator of the Carnatic Tradition. Next the trio of Tyagaraju, Muthuswamy Dikshitar, Syama Sastry, all contemporaries and hailing from the Tanjavur region of Tamil Nadu were introduced and their compositions were sung. They were from the 16th Century. In later centuries, Sri Annamacharya's and Ramadasu's compositions have enriched the bhakti movement centred around the punya kshetrams of Tirumala and Bhadrachalam. Music, like Language, has Sa, Ri, Ga, Ma, Pa, Da, Ni, as the letters which are grouped to form svaras, svaras to ragas, and so on. There are 72 Mela Karta ragas which form the basis for the entire corpus of classical compositions. After introducing the structure and the components of Carnatic Music, the team has picked up specific ragas and performed the classical composition and followed it with a popular film song that draws upon the classical one's lines, tune or rhythm. This was a revealing moment for all the audience. It was mind blowing to see the blatant appropriations of classical music and its works in popular film music.

While the classical composition was played, many a student had guessed, sometimes correctly, the film songs that were based on it. The team leader Mrs. Narasamma narrated her experiences with younger audience in classical music concerts who would mistake the film version to be an original and the classical version to be a copy of the filmy one. It is understandable when remix artists would take popular film songs and sing religious lyrics to that tune.

The 36th, 29th, 15th, 22nd, 20th, 23rd, 22nd, 28th mela karta ragas were performed with appropriate classical composition and film songs based on them.

The entire program was engaging yet relaxing for all. Music can relax, heal and rejuvenate a person to renew their endeavours with fresh energy.

Title of the session: India's Future: On Your Shoulders.

About the topic and speaker: The I/c Vice Chancellor of JNTUK and the Vice Chancellor of Krishna University Dr. S. Rama Krishna Rao has visited the college to address the students. Dr. S. Rama Krishna Rao retired from the Andhra University, Waltair as a Professor of Civil Engineering and is a widely respected academician, administrator and environmentalist. Dr. Rao advised the students to make the best use of their time while at Gudlavalleru Engineering College. He

emphasized the importance of undergoing practical training and doing internships in relevant companies. He elaborated on the value chain of key industries that contribute to the Indian economy and showed why it is important for engineers to have a holistic view. He stressed on the importance of interdisciplinary projects in the final year which can better the student's employment opportunities. This was



substantiated by his consulting and regulatory experience with manufacturing and processing industries. He reiterated the university's commitment to a ragging-free environment. He spoke of the various progressive university policies introduced to motivate students. As an environmentalist, he appealed to the students to



support the Swachh Bharat initiative of the government by keeping Gudlavalleru Engineering College Campus clean.

Title of the session: Fire Safety, Preventive Measures, Fire Fighting and First Aid.

About the topic and speakers: Manmade and natural disasters have become more frequent and their impact is dramatic on densely populated geographies like India. As modern society increasingly spends its time indoors in highly regulated environments, electricity or fuel induced hazards have become constants threats to property and life. In this regard, the disaster relief team from the nearby town Gudivada was invited to conduct fire safety awareness workshop for all the first year students.

The fire rescue team was led by the station Chief who has kindly brought in a fire engine, safety equipment, harnesses, fire extinguisher, and a host of other emergency related paraphernalia. They started by analysing fire, the constituents of the combustion process and the common cases for fire accidents in non-industrial buildings. They explained that fire accidents are of 3 categories. These are based on the three essential conditions for fire viz. Fuel, Heat and Oxygen. By eliminating any of these three, one can put off the fire. Fires are classified on a scale from 1-10. A material burns only when the fire is between 1.8 to 9.5.



1. Fire can be doused with water.
2. Fire can be put off by foam.
3. Fire can be put off by cutting fuel supply.



Fires can also be classified based on the residue left after the fire, for example. Plastic, wood, cloth etc., these fires can be put off by reducing heat or spraying water.

The second class of fire can be put off by spraying foam which blankets the burning matter and cuts off the oxygen supply. The third type which is generally associated with handling fuels can be cut off by restricting fuel

supply. Using various fire extinguishers demonstration on putting off fires was given. At the household level, LPG safety is important. The team then demonstrated how to check a gas cylinder for leaks and what to do in the case of a fire. They dispelled the myths about blast of cylinders by explaining that it could happen only under extreme conditions or due to significant time delay. A few girls among the students volunteered to practice the use of fire extinguishers. Quoting incidents where young people drowned in water bodies, the fire rescue team have demonstrated rescue methods and tips to improvise available material as floating buoys.

The session ended with the fire rescue team demonstrating how to assist disaster relief team in administering first aid and relief operations.

Date: 13th July 2018

Time: 1.30 PM – 3.00 PM

Title of the session: Awareness Programme on Road Safety

About the topic and speaker: The students of Gudlavalleru Engineering College are a common sight in the Gudlavalleru Village, be it the railway Station, Road junctions or the habitations surrounding Seshadri Rao Knowledge Village. What is more, a large number of students commute on bicycles and two wheelers, often with friends, riding pillion. There have been fatal mishaps in the past and hence it was important to sensitize the freshers' to the issue of road safety.



Mr. Ravi Kumar, the MVI (Motor Vehicle Inspector) of the Road Transport Authority, Gudivada and his team conducted an awareness session. They started by explaining the provisions of the Motor Vehicle Act and the requirements for a rider and the vehicle to legally

ply on public roads. Also, the process of obtaining a driving license for non-commercial vehicles was explained. The students benefited by getting to know the meanings of various road signs and the implications of not complying with them. The speaker said that Krishna District, particularly the coastal area is densely populated and has a high rate of road accidents. The most common cause of death are ignoring safety features like wearing a helmet, seat belts and not following or giving proper road signals. He added, the youth should avoid speaking on cell phones while driving and drunk. Pedestrians are prone to accidents either while walking on the wrong side or crossing without checking the traffic.

The session ended with the speaker stressing on the need to carry his driving license, the registration certificate, the motor insurance policy and the Pollution Under Control Certificate while driving on the road.

Date: 16th July 2018

Time: 9.30 AM – 11.00 AM

Title of the session: Telugu Language – Origin and Development.

About the topic and speaker: Telugu Language is one of the Dravidian Languages and is spoken by the Andhra People. Andhra is likely the oldest ethno-political identity of a place and people with continuous existence. With westernization taking its toll on culture and attitudes of people, language has also been impacted. It was necessary to investigate the origin and development of Telugu Language in a non-specialist sense. Dr. Avula Manjulatha, former Vice-Chancellor of the ‘Sri Potti Sri Ramulu Telugu University’ was invited to address the students on ‘Telugu Language-its origin and development’. She started by examining the popular notion of antiquity of the language. Dr. Manjulatha explained the efforts she made for the attainment of classical status to Telugu Language, she went on to relate the golden period of Telugu literature and works of many poetry both by the courtiers and kings of south Indian empires. By relating the conquest of India by non-indic people and the influence of their rule on native culture and languages, she arrived at the present. Today, the north Indian languages’ antiquity can be traced to 8th



century C.E. There are 24 languages in the Dravidian group, one is still extant in Afghanistan. Telugu is a south central Dravidian language and some tribal languages like chenchu, gondi also fall within this family. Today, there are 7,000 spoken languages in the world and about 842 languages with more than 10,000 speakers in India. The number was more than double just 50 year ago. She said , language is a reflection of the society. The history of language is thus a history of the people who spoke that language. Today 9 out of 10 Telugu people do not have command over their mother tongue Telugu. Command on language also means a clear understanding of the circumstances under which one continues his/her life. Command over language can significantly improve one's material condition.



She has urged the students to improve their communication in Telugu. She has also urged the teachers and the parents of students to encourage learning of Telugu and using it for creative expression. The lecture was very thought provoking and inspired all to take their mother tongue seriously.

Date: 16th July 2018

Time: 11.00 AM – 12.30 PM

Title of the session: Balanced Diet

About the topic and speaker: Dr. G. Swarupa, dietician at Andhra Hospitals, Vijayawada was invited to address the students on the importance of a balanced diet. She started by explaining that the food what we eat in the present days is quite different from what older generations consumed. The older generations ate 'whole' foods that were easily digested. They also ate fresh food and what was grown by themselves and locally. Thus growing food, preparing it and



consuming it has become an important part of Indian culture. However, in today's digital world, food is considered just a fuel and we consume highly processed 'refined' foods that give 'instant' energy which has a negative effect on human health and initiates many life style diseases. Fibre which was responsible for slow digestion and sustained release of energy is now almost absent in the refined foods. So, Dr. Swarupa said one should make sure they get 25gm of dietary fibre for smooth functioning of dietary digestive system and to avoid cancer of the digestive tract. It is especially important for girls to take dietary fibre in their daily diet.

She educated the students that carbohydrates are an important group in our diet and almost everyone does overshoot the recommended daily intake of carbohydrates. The energy to work comes from carbohydrates. These should be 50-60% of the diet by calories. However we have simple carbs like sugar and complex carbs like starches. Simple carbs like sucrose, glucose, fructose are found in cane sugar and fruits. These immediately join the bloodstream and spike the glucose levels. Complex carbs such as starches found in potatoes, tubers and grains take time to digest and allow sustained release of energy. 1g of carbohydrate releases 4 calories. An individual in the 18-22 age group needs 1800 calories daily.

Further she spoke in detail about the required nutrients and the foods that provide them. She also emphasized on the intake of protein which is the next important component of diet. They comprise amino acids which are the building blocks of living cells to all living beings. The unused protein in the body is converted to fat. Animal Origin foods such as fish, eggs, milk, colostrum, meat contain the complete set of amino acids necessary for human beings. Plant origin foods such as lentils (grams), beans, nuts, sprouts also contain proteins but in an incomplete composition. So it is imperative for vegetarians to depend on a diverse source of protein to completely get their protein requirement.

She spoke on fats which are also an essential part of our diet and it is in fact these that impart taste to our food. They are categorised as saturated fats, such as hydrogenated vegetable oil, sunflower oil, palm oil etc., and clarified butter (ghee), etc; which are unsaturated fatty acids. It is recommended to reduce the intake of fats. Increase of cholesterol in blood can lead to coronary diseases. Particularly, the more refined an oil is, the more unhealthy it could be. 1g of oil releases 9 calories when burnt by the body. Fast food, Soda has high content of sugar, salt and refined oil, which are all bad for human health.

Vitamins and minerals are micro nutrients and can be obtained from fruits and spices. Vitamins are either water soluble or fat soluble. Water soluble vitamins which are not used in the human body are lost through urine. Therefore one has to include vitamins through fruits and salads in their everyday diet. Human body has this special facility of synthesizing its vitamin-D requirement when skin is exposed to Ultra-Violet rays. By exposing oneself to the sun for 10-15 minutes and one can meet his/her daily need of vitamin – D.

Dr. Swarupa emphasized on the need of regular exercise to avoid diseases like diabetes , hypertension and obesity.

Date: 18th July 2018

Time: 9.30 AM – 11.00 AM

Title of the session: Introduction to the ‘Constitution of Republic of India.

About the topic and speaker: Sri Gundu Sri Krishna is a high court lawyer based in the town of Vuyyuru, explained to the students the role of a constitution in a democratically ruled country like India. He is also a social activist and takes up public causes in his legal cases. He



has narrated the history behind the formation of the constituent assembly, its members and the unique features of the Indian constitution. He cited that Dr.Ambedker proposed equal rights for women. He explained that the constitution of India has demarcated the 1. Legislature 2. Executive and 3. Judiciary in the Government of

India. Understanding the powers and limitations of these organs of the government is important to get things done in a democracy. The legislature makes laws and has to enjoy the confidence of the house which in turn has to be popular with the electorate. The executive implements the provisions in the law to the satisfaction of the electorate. The judiciary is the interpreter of laws when there is a



disagreement between the state and the citizen or between the legislature and the executive. He illustrated this with some historic judgements given by the Supreme court of India.

He also explained why and how the constitution is amended from time to time. He said that the constitutional provisions about the centre, state and concurrent lists also affect the long term issues such as interstate water disputes. It is essential that every citizen, particularly the youth understand their duties and conferred by the constitution of India.

Date: 18th July 2018

Time: 11.00 AM – 12.30 PM

Title of the session: Mind Transformation.

About the topic and speaker: Generation Z is born and brought up in a ‘connected’ environment where a smart phone and laptop are as much a necessity as food and water.



When they step outside the restrictions of home or school hostel, the newfound freedom throws open many for entertainment which sometimes lead to enslavement or addiction to technology or worse. It is important to identify priorities and create an empowering microcosm while they undergo engineering

education. Mr. Saandra Sudhir is trained as an engineer and has further pursued his passion to become a professional motivational speaker. He hails from Nellore and operates out of Hyderabad.

He engaged the students with many motivational stories and made them clap, laugh, cry, dance and soak in the ambience of the riot of his performance. Through the story of 3 kings who gave away money, food, tools for work to a village he made the students identify the importance of providing livelihood



to others. Quoting Steve Jobs, he said those who don't dream big end up working to fulfill

others dreams. He in a different context said , creation comes by practice and one should try to do things differently. We often end up doing jobs that we hate, buy things we don't need to impress others whom we don't know. Citing his experiences of coaching corporate employees, he emphasised the need to be at the leading edge of one's domain. Time during these 4 years is the biggest investment and one should not squander away this most valuable asset. One should overcome fear by valuing the opportunity as greater than fear. He appealed to the students to take care of their parents in their old age. His anecdotes, stories and examples have enlivened and enthralled the students and charged with taking their education and career seriously, for their sake and their parents' sake.

Date: 18th July 2018

Time: 1.30 PM – 4.40 PM

Title of the session: Ethics and Morals

About the topic and speaker: With the liberalisation, privatisation and globalisation of Indian economy, Indian society had to suddenly grapple with opportunities and challenges on



the global stage. This led to the emergence of a few Indian businesses which have gone global. This also led to many upstarts making a quick buck by bending the rules and mending their morals. Many scams, frauds have become a staple of news headlines. Even Education and Healthcare have become businesses with maximising throughput and the profit being the

prime goals. It is amidst this milieu that students needed to be reminded how ethics and morals are inherent in self fulfillment and the long term sustenance of a civilized society.

H.G. Satya Gopinadh Dasa is a temple administrator and preacher in the ISKCON movement, based in Rajamahendravaram, A.P.

He was initiated by H.H. Jaya Pataka Swami, a direct disciple of H.D.G. A.C. Bhaktivedanta



Swami, the founder Acharya of ISKCON. As a long time practitioner of Sanatana Dharma, he expounded the fundamental beliefs of the Indian philosophy and how it forms the warp and weft of the moral fabric of Indian civilisation.

He started by stating that man is not just a 'Social Animal'. Religion is the distinction between man and animal. He illustrated this with a comparison by saying that if we hang a board (Silence please) in a room full of canines, it does not make a difference to their behaviour. Clarifying that religion is universal, he opined that religion has to be that which brings people together and not that which divides us. He also stated that Almighty has reached out to human beings according to time place and circumstances which have, overtime, become rigid religious codes. Identifying oneself with the rituals and ignoring the spirit of religion has led to violent confrontation between civilizations.

In a media saturated world, one is constantly prodded to 'succeed' in life. Such success is often measured in the amount of money one earns. However, money alone without character cannot make one happy. He said, if we learn to create a win-win propositions in our dealings we are sure to lead a happy life amidst a happy society.

If one practices selfless love, caring and sharing he is sure to receive all the things he aspires for in his life. If we become an embodiment of moral values and ethics, wealth and happiness come to us.

Student life in engineering can be very stressful for some either due to circumstances or due to unrealistic career goals. Instead of ending one's life abruptly, they should consider failure as a stepping stone in the path to success. He quoted many stories from puranas which inspired the students to be determined in their purpose, in the face of adversity.

The world of social media, online games, dark web and digital dating has created virtual worlds which completely distract the students and damage their career prospects. One has to live in reality and pursue meaningful goals than ephemeral happiness in the virtual world. Such afflicted persons often find friends and parents as a nuisance. In this day and age, the packing or outward appearances have become more important than the product which they seek to sell. One should first realise that a product we 'need' actually does not need to be marketed. To make us 'want' them they market the products and eventually when everyone wants them, they become needs.

Prabhuji encouraged students to pose questions and then answered them with wit and reason.

Date: 20th July 2018

Time: 10.00 AM – 4.00 PM

Title of the session: Students Counselling and Personality Development.

About the topic and speaker: In the present system, the fate of a student's admission or employment is decided in a few hours of examination or a few minutes of personal interview. The years of life ahead are on these few hours or minutes of life spent on campus. So, it is imperative upon the student to be well prepared for these important events of life.

Sri Yandamoori Veerendranath is a celebrity writer in the Telugu States with many novels, screenplays and motivational books to his credit. He conducts workshops for team building and motivation. He was on the board of interviewers of many companies. He was invited to interact with the first year students.



At the end of the two week induction program, Sri Yandamoori chose to revisit and consolidate the concepts and their understanding of the previous sessions. He started by helping students to define success in a participatory approach. Every student who came forward to interact was encouraged by gifts (chocolates). He said success is possible by reaching a goal. It entails the 6 opulences, namely, health, wealth, fame, love, enthusiasm and wisdom. Later, his lecture followed the sequence of developing these six opulences. Developing these 6 opulences entails work at the physical, mental and emotional levels.

He spent a good amount of time on giving students study tips and techniques. He explained how to develop concentration. He urged students to abstain from social media, internet, food ,movies, television, gossiping. On Sundays and holidays one should practise silence for at least three hours.

He gave tips on how to engage the five knowledge acquiring senses while studying. One should face a wall and avoid distractions. One should take a bath and keep the skin clean



and fresh. One should play instrumental music in appropriate ragas to enhance mood and concentration. One should light incense sticks to engage ones nose and suck on a pod of clove to engage the sense of taste. During the time of exams it is particularly important to retain focus and concentration. He shared tips on how to retain focus. He then gave






tips on time management by organising the nature of our daily tasks in a Johari window with urgent and important values on scales. He gave tips to avoid tension overcoming laziness and acting mindfully in our daily activities.

Towards the end of the session he made students answer test of vocabulary, language skills, presence of mind and spontaneity.

Some of the students received Sri. Yandamoori's books as prizes for participating in the discussions. Most of the students wanted to buy his books to learn and get better in improving their personality.

Engineering Orientation Program

Objective: To promote multidisciplinary technical skills in Engineering Education

	Technology Tools	Skills acquired
	Career Counselling - Orientation on all branches in Engineering, Career Pathways, Industry trends	Broad outlook on Engineering & technology
	RAPTOR - Rapid Algorithmic Prototyping Tool for Oriented Reasoning	Computational Thinking & Problem Solving
	MIT App Inventor - Mobile Application Development	Architecting & Developing Mobile Apps
	Mathics - Computational Knowledge Engine - Numerical Computation	Numerical Computation, Application of Mathematics to problems in Engineering
	AWS - Cloud Literacy Badge	Understanding of H/W & S/W, Networks, Internet, Cyber Security and Cloud Literacy



DEPARTMENT OF CIVIL ENGINEERING

**I YEAR INDUCTION
PROGRAMME REPORT**

INDUCTION PROGRAMME SCHEDULE (17&19th July 2018)

Venue: N 407, New Academic Block

Day 1 : 17-07-2018 (Tuesday)

9.00 AM – 9.20 AM - Playing the Promo Video about the department

9.20 AM – 9.40 AM - Faculty Introduction

9.40 AM – 10.10 AM - Overview of Civil Engineering Research and Practice **By**

Dr.S.R.K.Reddy

10.10 AM – 10.50 AM - Introduction to the Department of Civil Engineering **By**

Dr.P.Kodanda Rama Rao

10.50AM –11.00 AM – **Break**

11.00AM –11.35 AM – Students introduction

11.35AM – 12.20PM – Watching videos on the state-of-art in Civil Engineering

12.20PM – 1.30PM – **Lunch Break**

1.30 PM – 1.50 PM – **Message by senior students**

1.50 PM – 3.00 PM – Interaction with **Alumni, Mr. V.Raghava Kumar** Research Scholar,
IIT Bombay

3.00 PM – 3.15 PM – **Break**

3.15 PM- 4.15 PM –Interaction With **Mrs. Prachi**, Assistant Manager, Tata Consulting
Engineers, Mumbai

Day 2: 19-07-2018 (Thursday)

9.00 AM – 10.45 AM - **Specialization-wise overview** of Civil Engineering Streams

Structural Engineering – **Mr. K. Venkateswara Rao**

Environmental Engineering – **Dr. G. Reddy Babu**

Geomatics Engineering – **Mr. N. Siva Kishan**

Geotechnical Engineering – **Mr. Phani Kumar.V**

Water Resource Engineering – **Mr. G. Sai Krishna**

Transportation Engineering – **Mr. P. Gireesh Kumar**

10.45AM – 11.00 AM – **Break**

11.00AM – 12.20 AM - Visit to **Civil Engineering Labs**

12.30PM – 1.30PM – **Lunch Break**

1.30 PM – 2.30PM – Professional bodies

Institution of Engineers (India) **(IE)(I)** - **Dr.P.Kodanda Rama Rao**

The Indian Society for Technical Education **(ISTE)** – **Mr AH L Swaroop**

Royal Association of Civil Engineering **(RACE)**- **Mr V Raghu Deep**

2.30 PM – 3.00 PM - Role of Civil Engineers in dealing with disasters such as Earthquake & Tsunamis

by **Dr.S.R.K.Reddy**

3.00 PM – 4.30PM – Visit to **Boys'Hostel (Boys) and Girls' Hostel (Girls)**

Mapping of program objectives with department activities:

Objectives

1. To create awareness about engineering education and their chosen field.
2. To motivate the students for their studies and for excellence in their profession.
3. To promote bonding between the students and to build relation between teachers and students.
4. To give a broader view of life and understanding of self, people around them, society at large, human relationships, and nature.
5. To make the students understand the importance of building and nurturing character, making it an essential quality of one's life, be it a professional life, civilian life, or as human being.
6. To impart students several meta skills and underlying values.
7. To make students feel comfortable in their new environment and to open them up.
8. To set a healthy routine.
9. To help them develop team work and enhance creativity.
10. To create awareness on the communication and other skills required by the employers.

Objectives Activity	1	2	3	4	5	6	7	8	9	10
Overview of Civil Engineering research and practice	✓									
Introduction to the department of Civil Engineering	✓		✓							
Interaction between IV B.Tech and I B.Tech students							✓			
Interaction with alumni										✓
Specialization-wise overview of Civil Engineering streams	✓									
Visit to Civil Engineering laboratories and infrastructure.	✓									
Introduction to professional bodies such as IE (I), ISTE, and RACE.						✓				
Role of Civil Engineers in dealing with disasters such as earthquake & tsunamis.	✓									

Date: 17th & 19th July 2018

Time: 09:00AM-04:30 PM

Name of the Activity: Overview of Civil Engineering Research and Practice

Objective of the Activity:

- To create awareness about Civil Engineering and advancements in Civil Engineering

Speaker: Dr.S.R.K.Reddy, Senior professor of Civil Engineering, GEC.

Salient Points Conveyed:

Dr.S.R.K.Reddy spoke on the importance of Civil Engineering in present days for getting various government and private sector jobs that are available for budding engineers, and day to day technology in various fields of engineering that is developing at an exponential rate. It is now high time to the scientists and engineering researchers to take up research activity on live projects that are useful and required to face the future technological challenges and societal problems. Innovation and creativeness go together to achieve the result of any research.



Name of the Activity: Introduction to the Department of Civil Engineering

Objective of the Activity:

- To create awareness about facilities in department of Civil engineering and introduction of faculty.

Speaker: Dr.P.Kodanda RamaRao

Salient points Conveyed:

Dr.P.Kodanda RamaRao introduced teaching staff to students and also told the students about various facilities available in the department of Civil Engineering like department library, laboratories, academic achievements, placements etc. He gave a valuable message about career opportunities in the field of Civil Engineering and Civil Engineers must be equipped with in-depth knowledge of traditional, fundamental principles and new technologies in order to address the complex, interdisciplinary problems faced within society. We are committed to provide not only the technical education to our students but also the leadership qualities through which they can create employment to others. Department provides various programs which includes undergraduate, postgraduate and research. Our strategy of teaching the programme is industry & research oriented which can cope with the demands of today's world. The undergraduate course aims at strengthening the knowledge of fundamentals through practical based teaching. The postgraduate program guides the students to understand & identify their own interest areas in the field of Civil Engineering, from where they can carry their further research.



Name of the Activity: Interaction between IV B.Tech and I B.Tech students

Objective of the Activity:

- To interact with senior students for better understanding of new environment.

Interaction between IV B.Tech and I B.Tech students:

Students expressed their views about the importance of academic life and also gave their suggestions to manage the time and grab the opportunities provided by the college. They advised the juniors to maintain proper rapport with the faculty and also suggested them to utilize the library and other college facilities efficiently. They also shared their experiences in the college.

Name of the Activity: Interaction with Alumni.

Objective of the Activity:

- To create awareness about requirements of employers in the field of civil engineering and advancements in research.

Speaker: Mr. V.Raghava Kumar.....

Profile: Mr. V.Raghava Kumar completed Bachelor of Technology in Gudlavalleru Engineering College and got Masters Degree from IIT and presently doing his research work in IIT Bombay.

Salient points Conveyed:

Gudlavalleru Engineering College offers a blend of learning, amusement and integration of enduring principles. For a Civil Engineering student it provides a wide arena of the field and thus I get to learn something new with every subject. The entire study environment makes it easy for a student to learn and inculcate the spirit to stand out amongst the talented and hard-working students. What amazes me is the plethora of extracurricular activities that the Institute offers hence compelling every student to explore and pursue his/her multi talents. The Institute manages both the areas extremely well and the student always finds himself in a pool of never ending opportunities, be it technical or non-technical. The professors are good at imparting quality education to the students. Never can a student find himself lost in a concept and professors not being able to rescue him. The Institute's library serves as the

ultimate answer to all our queries in terms of number of books, papers, periodicals and helping staff and how to use time efficiently within the campus.



Name of the Activity: Specialization-wise overview of Civil Engineering streams

Objective of the Activity:

- To create awareness about various specializations in Civil Engineering

Salient points Conveyed:

Structural Engineering: (Sri K. Venkateswara Rao)

He delivered some significant points of structural engineering as a part of civil engineering. He started with some pre-requisites of structural engineering which are required for a structural engineer such as knowledge of Applied Mechanics, Material Science, and Mathematics to understand and predict how structures support and resist self weight and imposed loads. Later he explained about concrete and its ingredients such as cement, fine aggregate and coarse aggregate and also covered some important points about reinforcement used in construction of various structures because it plays a vital role in designing various members in a structure. Finally, he concluded his message with various advancements taken place in structural Engineering such as designing structures against earth quake and wind loads.

Geo - Technical Engineering: (Sri Phani Kumar. V)

He gave message in the form of a video lecture with more practical examples. Firstly, he explained the importance and history of geo - technical engineering in constructing various structures. Secondly, he explained not only contributions made by pioneers of geo technical engineers from past 17th century to till date and also explained various earth pressure theories.

In addition, he explained about various foundations and their practical application. He also talked about failures of structures with poor soil conditions with real time examples.

Transportation Engineering: (Sri P Gireesh Kumar)

He has given a brief introduction about importance of transportation in our daily life and different modes of transportation facilities available at present. In general he discussed about the construction of the pavements. The importance of traffic regulation for the safe transport is also one of the points discussed by him.

Water Resources Engineering: (Sri G. Sai Krishna)

He started with availability of water on earth's surface and also gave information about necessity of water for human beings. Then he dealt with Water Resources Engineering (WRE) with the provision of water for human use, and the development of techniques for the prevention of destruction from floods. Water resources engineering is not only about prevention of floods but also includes the planning and management of facilities that are constructed for these tasks like making canals for irrigation and sewers for drainage and to avoid water logging, and all other issues related with the usage and control of water.

In addition, he gave some statistical information on water requirements of society and the environment. Initially an estimate is carried out regarding the water available, the demand now and projected demand when the work will complete and future considerations, later requisite infrastructure is designed not only in structural point of view but also including the water treatment plants and the pipes network, for the conveyance of water to the taps and waste water from the toilets to the treatment units.

Environmental Engineering: (Sri. K Visesh Kumar)

He explained the basic principles of Environmental engineering to improve the environment, control water and air pollution, dispose of solid and hazardous waste, and tackle other issues related to public health. The main goal of this field is to provide a healthy environment for human beings. He gave information about history and developments from past centuries

In addition, this engineering specialization also deals with worldwide environmental issues such as the consequences of acid rain, depletion of the ozone layer, and air and water pollution from industrial sources. Environmental issues have recently commanded a lot of attention due to the threat of global warming.

Geomatics Engineering: (Sri N. Siva Kishan)

Geographical Information Systems is the latest incarnation of the foundation of all engineering trades namely surveying. The Great Trigonometric Arc Survey carried out by Indians during the 18th Century for East India Company was the greatest scientific experiment ever carried out in human history. Many breakthroughs in understanding the shape and size of the earth, the absolute elevations of the peaks of mountains were accomplished. This has later evolved in Civil Engineering practice. By applying the latest information and communication technology we now have the digital version of measurement of earth and its varied location intelligence applications that we transformed education, business and science. B.Tech. Civil Engineering curriculum offers Surveying, Photogrammetry, Remote Sensing, GIS and GPS modules that give an ample opportunity to the students to gain knowledge in the domain.

Name of the Activity: Visit to Civil Engineering Laboratories and infrastructure.

Objective of the Activity:

- To create awareness about different laboratories available in the department of Civil engineering.

This session is about introducing laboratories and latest equipment which are helpful for producing quality projects. Besides this they were familiarized with department facilities such as seminar halls, classrooms, faculty cabins etc.

Laboratories and in – charge:

Engineering Mechanics (Mr. S. Arun Chaitanya)

Engineering Geology (Mr. N. Haripavan)

Surveying (Mr. G. Sai Krishna)

Geotechnical Engineering (Mr. Phani Kumar. V)

Concrete Technology (Mr. K. Venkateswara Rao)

Structural Engineering (Mr. A.H.L Swaroop)

Transportation Engineering (Mr. K. Vishes Kumar)

Water and Waste water Engineering (Mr. G Reddy Babu)

GIS&CAD Lab (Mr. Y. Vinod Kumar)

Name of the Activity: Introduction to professional bodies such as Institution of Engineers (IE), The Indian Society for Technical Education (ISTE), and Royal Association of Civil Engineering (RACE).

Objective of the Activity:

- To create awareness about engineering professional bodies.

Institution of Engineers (IE): (Dr.P. Kodanda Rama Rao)

He started with the origin of the Institution of Engineers (India) and The Indian Society for Technical Education (ISTE) and then stated how it is helpful to the students in the present to perform well in the course as well in future. It is devoted to promote efficiency and ethical practice in engineering services and committed to disseminate the information on the recent developments in engineering amongst the professionals. IEI helps engineering professionals to undertake planned and structured Training Programmes, Seminars, Workshops, etc. for Continual Professional Development (CPD) of the professionals.

IEI supports Continuing Professional Development to its members and engineering professionals in following ways:-

- Training Program at Engineering Staff College of India.
- Technical Activities at Different parts of the country.
- Awards & Scholarship.

The Indian Society for Technical Education (ISTE): This is the leading national professional non-profit making society for the technical education system in our country with the motto of career development of teachers and personality development of students and overall development of our technical education System. Student associations of ISTE are run at college level to develop students' personality and to enhance their technical knowledge by conducting workshops on various topics.

Royal Association of Civil Engineering (RACE) : (Mr. A.H.L Swaroop)

He explained to the students why RACE is formed and how it is useful to the students to overcome problems within in the department. It was introduced by first batch students of Civil Engineering department and the main motto of this body is to improve their technical

knowledge and also to help them excel in all aspects by providing proper communication, organization and leadership skills.



Name of the Activity: Role of Civil Engineers in dealing with disasters such as Earthquake & Tsunamis and giving information to raise awareness about how to prevent them.

Objective of the Activity:

- To raise awareness about facilities available in the department of Civil Engineering and also introducing the faculty members of the dept. to the students.

Speaker: Dr.S.R.K.Reddy

Salient points Conveyed:

Planet Earth is in dynamic state and creates natural hazards. Bitter failure examples during recent and past earthquakes followed by tsunamis, reveal that frequency of occurrence of earthquakes and tsunamis will increase in future.

It is well known fact ,in the event of constructing many high rise buildings, reservoir projects, flyovers etc., coming up structures located in seismic regions are vulnerable against earthquake forces and coastal structures against tsunamis. Hence, it is now high time to take up and design the structures against such dynamic forces, practically when they rest on loose soils.



**DEPARTMENT OF ELECTRICAL AND
ELECTRONICS ENGINEERING**

**I YEAR INDUCTION
PROGRAMME REPORT**

INDUCTION PROGRAMME SCHEDULE

	9:00 A.M -10:00 A.M	10:00A.M- 12:20 P.M	L U N C H B R E A K	1:20P.M- 4:20P.M
17-07-2018	Department Profile (Dr. L. Ravi Srinivas)	Evolution of Electrical Engineering (Mr. B. Dasu)		New Dimensions to Electrical Engineering (Mr. Md. Rafi Khan)
19-07-2018	Laboratories and Electrical Substation Visit (Mr. A. Amarendra)			Operation of thermal power plant and career prospects in electrical engineering (Er. B .Ravi Kiran)

**PROGRAMME OBJECTIVES MAPPING WITH THE INDUCTION
PROGRAMME CONDUCTED ON 17-07-2018 AND 19-07-2018**

OBJECTIVE	17-07-2018			19.07-2018	
	9:00 A.M -10:00 A.M	10:00A.M- 12:20 P.M	1:20P.M- 4:20P.M	9:00 A.M -12:20 A.M	1:20P.M- 4:20P.M
To create awareness about engineering education and their chosen field.	X	X	X		
To motivate the students for their studies and for excellence in their profession.	X		X		X
To promote bonding between the students and to build relation between teachers and students.	X				
To give a broader view of life and understanding of self, people around them, society at large, human relationships, and nature.	X				
To make the students understand the importance of building and nurturing character, making it an essential quality of one's life, be it a professional life, civilian life, or as human being.	X				
To impart students several meta skills and underlying values.		X	X		
To make students feel comfortable in their new environment and to open them up.	X				
To set a healthy routine.				X	
To help them develop team work and enhance creativity	X			X	X
To create awareness on the communication and other skills required by the employers					X

Date: 17-07-2018

9.00 A.M TO 10.00 A.M

Name of the Activity: Department Profile

Objective: To create awareness on various academic rules and regulations in Electrical and Electronics Engineering to the students.

Speaker: Dr. L. Ravi Srinivas
Professor & HOD, Department of EEE,
Gudlavalleru Engineering College

Salient points conveyed:

- The history of EEE department starting from 1998 with an intake of 40 students till now with the intake of 180 students.
- The facilities available in the department, department achievements.
- AICTE schemes sanctioned to the department.
- Year-wise programmes conducted in the department and in the college.

10.00 A.M TO 12.20 P.M

Name of the Activity: Evolution of Electrical Engineering

Objective: To create awareness about evolution of electrical engineering.

Speaker: Mr. B. Dasu
Associate Professor, Department of EEE,
Gudlavalleru Engineering College

Salient points conveyed:

The presentation involved

- an animated video on Evolution of Electrical Engineering.
- highlights about various scientists involved in the evolution
- various inventions in Electrical Engineering right from the bulb by Thomas Alva Edison to the alternator by Nikola Tesla.
- various methods of power generation from renewable (thermal, nuclear) and non-renewable (hydel, solar and wind) energy resources.
- various switch gear equipment used for power system protection.
- Paradigm shift and various other changes in technology over last few decades;
- an engineer's view on global warming.

1.20 P.M TO 4.20 P.M

Programme Title: New Dimensions in Electrical Engineering

Objective: To familiarize the new entrants about the significance of electrical engineering and career opportunities.

Speaker: Mr. Md. Rafi Khan

Associate Professor, Department of EEE
Gudlavalleru Engineering College

Salient points conveyed:

The session involved

- animated videos on production of power in various power plants (hydel, thermal, nuclear, solar and wind).
- clear schematic approach of power flow right from the power plant to the consumer end. Various stages of power flow such as generation, transmission, distribution and utilization.
- brief introduction to various equipment used in power systems.
- brief view on Indian power grid divisions and state electricity board and also statistics related to Indian Power Grid.
- development of communication skills; ability to communicate properly is the principal criteria for being a good professional.
- discussion on being positive - positive frame of mind is the key to success in any situation of life;
- discussion on self belief - how to increase self belief in everyday life of a student



Date :19-07-2018

9.00 A.M TO 12.20 P.M

Programme Title: Labs and Electrical Substation Visit

Objective: To have a preliminary knowledge in electrical power scheduling, control in power distribution systems and to provide necessary information on laboratories.

Speaker: Mr. A. Amarendra

Associate Professor, Department of EEE

Gudlavaluru Engineering College

Salient points conveyed:

The visit involved

- taking the students to electrical substation located in the college campus.
- Demonstrating how an electrical substation works and about the working of important components such as Feeder, Transformer, Switchyard, Bus-bars, Panels, CT, PT measuring devices , Changeovers, Circuit breakers, Underground cables, Generators etc.
- Taking the students to the laboratories to have basic idea of rules, dos and don'ts in performing the experiments .
- Explaining to them about the basic usage of various tools and measuring devices in conducting the experiments.



1.20 P.M TO 4.20 P.M

Programme Title: Operation of thermal power plant and career prospects in electrical engineering

Objective: To prepare students for a professional career in various fields and bring awareness about various requirements needed to be a true professional.

Speaker: Er. B. Ravi Kiran

Speaker Introduction:

- ❖ Er. B. Ravi Kiran was born on 26/06/1970 at Krishnayapalem village, Guntur District.
- ❖ B. Tech from JNTU, Kakinada and M.Tech (Power Systems) from IIT Kharagpur.
- ❖ Joined as Assistant Engineer in APSEB in the year 1992 and posted to Vijayawada.
- ❖ Working as Divisional Engineer (Electrical) in VTPS stage II(2x210MW) since 2008.



Salient points conveyed:

The presentation involved

- complete operation of thermal power plant Dr. NTTPS, Ibrahimpatnam.
- how to prepare for professional career in various professional fields, necessities for being a true professional.
- educational resources for students, how to excel in education with values; need of discipline in student life
- discussed what practical approach students should adopt when appearing for job interview and how knowledge can be applied during interview process; examples shared from his own experience.
- discussion on the bridge between the student and the industry - how a person should accustom with the industry
- how to incorporate scientific knowledge in professional life
- perspectives of an engineer; discussion from a student's view point; knowledge should be the primary objective of every engineer.
- discussion on technology and governance; approach that should be adopted by the engineers to be a part of technological development around the society.

**DEPARTMENT OF MECHANICAL
ENGINEERING**

**I YEAR INDUCTION
PROGRAMME REPORT**

PROGRAM SCHEDULE

Time	9:00 A.M - 11:00 A.M	11:00 A.M - 1:00 P.M	2:00 P.M - 2.30 P.M	2.30 P.M - 3.30 P.M	03:30 P.M - 04:00 P.M
Day 1 (17-07-18)	Department Profile by HoD	Mechanical Engineering and its Significance	Academic Rules and Regulations	Stream-wise Presentation	Presentation on Overview of Laboratories
Time	9:00 A.M - 11:20 A.M	11:20 A.M - 12:40 P.M	2:00 P.M - 3:30 P.M	03:00 P.M - 04:00 P.M	03:00 P.M - 04:10 P.M
Day 2 (19-07-18)	Career Opportunities for Mechanical Engineers	Significance of Thermal Energy in Day-to-day Life	Career Opportunities	Introduction to ME,ISTE,IEI,ASME, and GO-KART by Seniors	Visit to Laboratories

S.No	Name of the programme	Overall Objectives									
		1	2	3	4	5	6	7	8	9	10
1	Department Profile							√			
2	Mechanical Engineering and its Significance			√							
3	Academic Rules and Regulations	√									
4	Stream wise Presentation	√									
5	Overview of Laboratories	√									
6	Career Opportunities for Mechanical Engineers		√								
7	Significance of Thermal Energy in Day-to-day Life	√									
8	Career Opportunities		√								
9	Introduction to ME,ISTE,IEI,ASME, and GO-KART by Seniors		√								
10	Visit to Laboratories	√									

Date: 17th July 2018
11.00

Time: 9.00-

Name of the Activity: Introduction to the Department of Mechanical Engineering

Objective: To create awareness about the department and advancements in Mechanical Engineering and make students feel at home.

Speaker: Dr.M.R.Ch.Sastry, Professor & Head of the Department of ME, GEC

Salient points covered :

Head of the department introduced faculty members who have been the backbone of department and presented a brief report on the department profile to students, which includes, year of establishment of the department and its intake. Further, he introduced the vision, mission of the department, computational facilities, infrastructure, and physical resources-laboratories of the department. He also mentioned about successful alumni who have become entrepreneurs and pursued higher studies.

Date :17th July 2018
1.00

Time : 11.00-

Name of the Activity: Mechanical Engineering and its significance

Objective :To motivate the students for their studies and for excellence in their profession.

Speaker: S.S .Subramanya Sastry

Profile :S.S .Subramanya Sastry, presently working with Cyient Limited as Deputy General Manager (Technical). He graduated in year of 1984 from U.V.C.E, Bangalore and post graduated in year of 2000 from U.V.C.E, Bangalore and has 34 years of experience in the Aerospace domain. He has good number of international/national publications and attended conferences. He has served as a member of many professional bodies such as NAFEMS international Composite Working Group, NAFEMS Indian Council and Technical Expert etc.

Salient points covered: S.S. Subramanya Sastry delivered a lecture on “Mechanical Engineering and its significance” on 17th July 2018 to first year mechanical students. He said that Mechanical engineering plays a critical role in manufacturing industry technologies, from cars to airplanes to refrigerators. It enables us to do many daily activities with ease, as it brings advanced technologies to our modern society. It is one of the most important subdivisions of engineering, because without it, many of the technologies we use every day would not have been possible. A Mechanical Engineer' plays a key role to facilitate in building of such technologies.

- Eliminate excessive usage of resources by optimizing and improving efficiency.
- Innovation and seeping through new realms.

- Management and maintenance.
- Teaching and research oriented fields



Date :17th July 2018

Time : 14.00-15.00

Name of the Activity: Academic Rules and Regulations

Objective: To create awareness about engineering education and examination system.

Speaker: Dr.K.Syam Sundar, Professor & CoE (Autonomous)

Salient points covered: Dr. K. Syam Sundar delivered lecture on “Academic Rules and regulations” on 17th July 2018 to newly admitted mechanical engineering students. He gave brief explanation about all rules and regulations of internal and external examinations of Gudlavalleru Engineering College (Autonomous).

The following points are covered in the lecture:

- ❖ Programme offered :B.Tech Program
- ❖ B.Tech Programmes
 - Duration of the Program
 - Minimum Instruction Days
 - Eligibility Criteria for Admission
 - Course Structure
 - Medium of Instruction
 - Syllabus
 - Attendance Regulations
 - Examinations and Scheme of Evaluation
 - Criteria for Passing a Course
 - Supplementary Examinations
- Conditions for Promotion
- Revaluation
- Readmission Criteria
- Break in Study

Date :17th July 2018

Time : 15.00-

16.00

Name of the Activity: Stream wise presentation

Objective: To create awareness about engineering education and help students choose their field.

Guest: Dr. A. Jawahar Babu, K. Ch. Kishore Kumar, and Dr. D. RangaBabu

Salient points Covered:

In this section Dr. A. Jawahar Babu, K. Ch. Kishore Kumar, and Dr. D. Ranga Babu were gave presentations on production stream, Design stream and Thermal Stream.

Production stream:

Production engineering is a combination of manufacturing technology, engineering sciences and management science. A production engineer typically has knowledge of wide of engineering practices and is aware of the management challenges related to production.

Production engineering encompasses the application of castings, machining processing, joining processes, metal cutting & tool design, metrology, machine tools, machining systems, automation, design of automobile parts, and machine designing and manufacturing. Production engineering also overlaps substantially with manufacturing engineering and industrial engineering. The names are often interchangeable.

A **design engineering** is involved in any of various engineering disciplines including civil, mechanical, electrical, chemical, textiles, aerospace, nuclear, manufacturing, systems, and structural /building/architectural. Design engineers tend to work on products and systems that involve adapting and using complex scientific and mathematical techniques. The emphasis tends to be on utilizing engineering physics and sciences to develop solutions for society.

Thermal Engineering is a study of energy transport particularly in nanoscale structure to obtain knowledge and understanding of the scientific effects on physical world that can engineer discoveries in industrial energy applications. The thermal engineering is heat transfer, thermodynamics, energy conversion, and HVAC applications.

Thermal engineering is practiced by mechanical engineers and chemical engineers. One or more of the following disciplines may be involved in solving a particular thermal engineering problem: Thermodynamics, Fluid mechanics, Heat transfer, or Mass transfer. One branch of knowledge used frequently in thermal engineering is that of thermofluids.

Date :17th ,July2018

Time :16.00-

16.30

Name of the Activity: Importance of Laboratories and Presented by Lab In-Charges.

Objective: To impart the practical knowledge in their chosen field.

Speaker: In-Charges of all Laboratories

Salient points Covered: Laboratory experiences play a central role in engineering education, developing hands-on skills, and bridging the gap between theory and practice. One study suggests that engineering students view themselves as innately practical individuals. It follows that engineering laboratory experiences should be both natural and formative for engineering students. In the context of teaching and learning strategies the objective of practical activity is to improve the student's knowledge gained from classroom lectures and tutorials.

Date :19th ,July2018
11.00

Time :9.00-

Name of the activity: Career Opportunities for Mechanical Engineers

Objective: To motivate the students to study better and achieve excellence in their profession.

Speaker: N. Bhanu Gopal, Project Manager (Technical), Cyient Limited, Hyd.

Profile: N. Bhanu Gopal presently working with Cyient Limited as Project Manager (Technical). He graduated in Mechanical engineering in the year 2003 from Gudlalleru Engineering College, Gudlavalleru and did his Post graduation in M.E CAD/AM in the year of 2006 from Andhra University, Visakhapatnam. He worked as Junior Scientist in NSTL, Visakhapatnam from 2006 to 2007 and, then joined as assistant Design Engineer in CYIENT LTD, Hyderabad in 2007 and played different challenging roles and he is highly analytical, performance-driven engineering professional with 10+ years' experience creating innovative, cost-efficient designs.

Salient points Covered:

N. Bhanu Gopal delivered lecture on "Mechanical Engineering and its Significance" on 18th July 2018 to mechanical first year students. He said that Mechanical Engineering is a diverse and flexible engineering discipline. Mechanical engineers work in number of fields including design of machinery, controls, vibrations and acoustics, power generation, renewable energy, energy conservation, fluid flow and heat transfer applications, and air-conditioning. The program uses math, science, engineering science, and engineering design.

Mechanical Engineers have tremendous scope in the fields of:

Automobile Industry-Cement Industry-Steel Industry-Power sector-Hydraulics-Manufacturing plants -Drilling and Mining Industry-Oil and Gas industry-Aeronautical Industry-Biotechnology- Nanotechnology-Defence sector.

Teaching-Research and Development.



Date:19th ,July2018
12.40

Time : 11.20-

Name of the activity: Significance of Thermal Energy in Day-to-day life

Objective : To create awareness about mechanical engineering education and it's specializations.

Name of the guest : Dr P. Nageswara Reddy, Professor & Director(AS&A)

Salient points Covered :

Dr P. Nageswara Reddy delivered lecture on “**Significance of Thermal Energy in day to day life**” on 18th July 2018 to mechanical first year students. He said that Mechanical engineering is a diverse and flexible engineering discipline. Now-a- days human beings depend on thermal energy, which can be developed from either steam or chemical energy to produce the power and to run the automobiles. The applications of thermal energy mainly found in fields including power generation, renewable energy, energy conservation, fluid flow and heat transfer applications, and air-conditioning.

Date :19th July 2018
15.30

Time : 14.00-

Name of the Activity : Carrer Opportunities

Objective :To create awareness on Career opportunities in Mechanical Engineering domain.

Speaker :Internal Faculty- B.V.S Raghu Vamsi

Salient points covered :

In this session B.V.S Raghu Vamsi, Sr.Gr. Asst.Professor, delivered lecture on “**Career Opportunities**” on 19th July 2018 to mechanical first year students. He suggested students to acquire practical knowledge in their chosen field to get good job in career besides theoretical subject knowledge. Mechanical student should have knowledge about Modelling and Analysis software. He also has spoken about career after under graduation program such as higher studies, government jobs, private jobs, and research and development sectors.

Date : 19th July 2018
16.00

Time : 15.30-

Name of the Acitivity : Introduction to ME, ISTE, IEI, ASME and GO-KART by Senior Students

Objective: To create awareness on professional bodies.

Speaker : Gorantla Aravinda Krishna (15481A0345)

Salient points covered: IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 114 Centres located across the country.

ASME - American Society of Mechanical Engineers is a 120,000 member professional organization focused on technical, educational and research issues of the engineering and technology community. ASME conducts one of the world's largest technical publishing operations, holds numerous technical conferences worldwide, and offers hundreds of professional development courses each year. ASME sets internationally recognized industrial, manufacturing codes, and standards that enhance public safety.

Name of the activity: Students' self-introduction and Visiting Labs

Objective: To create a bonding between the students and to build relation between teachers and students.

Speaker: In-Charges of all Laboratories

Salient points Covered:

Engineering is a practicing profession, a profession devoted for harnessing and modifying the three fundamental resources that are available to humankind for the creation of all technology: energy, materials, and information. The overall goal of engineering education is to prepare students to practice engineering and, in particular, to deal with the forces and materials of nature. Thus, from the earliest days of engineering education, instructional laboratories have been an essential part of undergraduate and, in some cases, graduate programs. Indeed, prior to the emphasis on engineering science, it could be said that most engineering instruction took place in the laboratory

Practicing engineers go to the development laboratory for two reasons. First, they often need experimental data to guide them in designing and developing a product. The development laboratory is used to answer specific questions about nature that must be answered before a design and development process can continue.

The second reason is to determine if a design performs as intended. Measurements of performance are compared to specifications, and these comparisons either demonstrate compliance or indicate where, if not how, changes need to be made.

**Department of Electronics and Communication
Engineering**

**I YEAR INDUCTION
PROGRAMME REPORT**

Programme Schedule

	9:00 - 11:00	11:00 - 13:00	14:20 - 15:30	15:30 - 16:30
Day 1 (17-07-18)	Department Profile by HoD (Event 1)	Guest Lecture by Alumni (Event 2)	Career Guidance by Department Faculty (Event 3)	
Day 2 (19-07-18)	Awareness on Curriculum Design (Event 4)	Awareness on Outcome Based Education (Event 5)	Guest Lecture by Industrial Expert (Event 6)	About Web Designing by Final Year Student (Event 7)

Mapping with objectives

Event/Objectives	1	2	3	4	5	6	7	8	9	10
Event 1	√		√							
Event 2	√									√
Event 3	√									
Event 4	√									
Event 5	√									
Event 6	√									√
Event 7	√									

Date: 17th July 2018

Time : 09:00-

11:00

Name of the Activity: Introduction to the Department of Electronics and Communication Engineering

Objective(s) of the Activity:

- To create awareness about facilities in department of Electronics and Communication Engineering and introduced the faculty.

Speaker: Dr. V. V. K. D. V. Prasad, Professor & Head of the Department of ECE, GEC.

Salient Points Conveyed:

Introduced teaching staff to students and also discussed various facilities available in the department of Electronics and Communication Engineering, like department library, laboratories, academic achievements, placements etc. The department's vision, mission and the programs offered by it were presented. The department provides various programs which includes undergraduate, postgraduate and research courses. The undergraduate course aims at strengthening the fundamental knowledge of the students through practical implementation the ideas. The postgraduate program guides the students to identifying and work on their areas of interest in the field of Electronics and Communication Engineering, from which they can carry out research further.



Date: 17th July 2018

Time:11:00-

13:00

Name of the Activity:Communication navigation surveillance in air traffic control

Objective(s) of the Activity:

- To familiarize the importance of Electronics and Communication Engineering in Air traffic control.

Speaker:Er. M. Venkatesh

Profile: Er.M. Venkatesh, Assistant Manager, Communication Navigation Surveillance (CNS), Airport Authority of India (AAI), alumnus from the undergraduate class of 2010, Gudlalleru Engineering College.

Salient Points Conveyed:

Aviation communication, refers to radio communication between two or more aircrafts, or the exchange of data or verbal information between aircraft and air traffic control. Navigation, or air-navigation, refers to the process of planning, recording, and controlling the movement of an aircraft from one place to another by providing accurate, reliable and seamless position determination capability. Surveillance systems are used by air traffic control to determine the position of aircraft. He also mentioned the career opportunities for Electronics and Communication Engineering students in airport authority of India.



Date: 17th July 2018

Time: 14:20-16:30

Name of the Activity: Opportunities in Government and Private sectors in the field of Electronics and Communication Engineering

Objective(s) of the Activity:

- To raise awareness among students about career opportunities in the field of Electronics and Communication Engineering.

Speaker: Sri A.Mallaiah, Associate Professor in Department of ECE, GEC.

Salient Points Conveyed:

- Opportunities for Electronics and Communication Engineering stream in the private sector and required skills the students should equip with to join in private sector. Importance of acquiring GATE rank and also mentioned that how the public sector companies recruit their employees using GATE score. Also mentioned the soft skills required for the students to enter into the software industry.



Date: 19th July 2018

Time: 09:00-11:00

Name of the Activity: Awareness on Curriculum

Objective(s) of the Activity:

- To create awareness on curriculum of Department of Electronics and Communication Engineering.

Speaker: Sri M.V.Srikanth, Assistant Professor in Department of ECE, GEC.

Salient Points Conveyed:

- Educated the students on R17 regulations and weightage of marks given to each stream in curriculum.
- He also mentioned about the elective system and differentiated between core electives and open electives.



Date: 19th July 2018

Time: 11:00-13:00

Name of the Activity: Awareness on Outcome Based Education.

Objective(s) of the Activity:

- To create awareness about Outcome Based Education

Speaker: Dr.Y.Ramakrishna, Professor in Department of ECE, GEC.

Salient Points Conveyed:

- Vision and mission of the department were presented.
- Discussed about importance of outcome-based education.
- Explained about course objectives and course outcomes.
- Discussed the importance of graduate attributes in the definition of program outcomes.
- Discussed about mapping of course outcomes to the program outcomes and program specific outcomes.



Date: 19th July 2018

Time: 14:20-15:30

Name of the Activity: Emergence of Digital Disruption - Challenges and Roadmap to Embrace

Objective(s) of the Activity:

- To familiarize the importance of Electronics and Communication Engineering in the field of embedded systems.

Speaker: Er. T. Bhavani Shankar

Profile: Er. T. Bhavani Shankar, Executive Manager, Efftronics Pvt. Ltd., Vijayawada

Salient Points Conveyed:

- Digital disruption is the change that occurs when new digital technologies and business models affect the value proposition of existing goods and services. The rapid increase in use of mobile devices for personal use has increased the digital disruption across many industries. Discussed the challenges and roadmap to overcome these challenges. He also mentioned the career opportunities for Electronics and Communication Engineering students in the field of Embedded Systems.



Date: 19th July 2018

Time:15:30-

16:30

Name of the Activity: Web Design

Objective(s) of the Activity:

- To create awareness about the Web Design.

Speaker: Mr. K. Subba Naidu, Student, IV B.Tech, Department of ECE, GEC.

Salient Points Conveyed:

- Web design encompasses many different skills and disciplines in the production and maintenance of websites.
- Explained about different areas of web design.
- Discussed tools and technologies required for web design.
- Introduced the design of home page.
- Primary jobs involved in creating a website: the web designer and web developer work together closely on web design.
- He also mentioned the career opportunities in web design.



**DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING**

**I YEAR INDUCTION
PROGRAMME REPORT**

PROGRAM SCHEDULE

	9:00 A.M - 11:00 A.M	11:00 A.M - 12:20 P.M	1:20 P.M - 2:10 P.M	02:10 P.M - 03:00 P.M	03:00 P.M - 04:10 P.M
Day 1 (17-07-18)	A1: Department Profile by HoD	A2: How to Outshine in Studies	A3: Career Guidance	A4: How to get success mindset in Education	A5: Logical and Critical Thinking
Day 2 (19-07-18)	A6: Quiz		A7: Importance of Project works		A8: Project Expo

Objectives Mapping with Activities

???	A1	A2	A3	A4	A5	A6	A7	A8
O1	√	√						
O2	√	√			√			√
O3	√							√
O4			√	√				
O5			√	√				
O6			√	√			√	
O7						√		√
O8		√						
O9					√	√	√	√
O10			√		√		√	√

Date: 17th July 2018

Time: 09:00-11:00

Name of the Activity: Introduction to the Academic Regulations, Curriculum of CSE Dept and Job Opportunities for Computer Science Engineers.

Objectives of the Activity:

- To motivate freshers' to pursue their B.Tech. programme with passion.
- To initiate bonding and harmonious relationship between teachers and students.

Speaker: Dr. S. Narayana, Professor & Head, Department of CSE, GEC.

Salient Points Conveyed:

Academic regulations of R17 curriculum were presented. New courses related to latest technologies like Big Data Analytics, Machine & Deep Learning, Angular JS and Node JS, NoSQL Databases, Agile Software Development Process, Blockchain Technologies etc., were highlighted. Department's faculty were introduced. Students were walked through the department facilities. Various job opportunities available in the field of Computer Science, industry trends were also presented to the students. The students were wished to have a great learning experience at GEC and a bright career by the speaker.



Name of the Activity: How to Outshine in Studies?

Objectives of the Activity:

- To create awareness about engineering education and their chosen field.
- To motivate the students to gain jobs and to excel in their profession.
- To set a healthy routine.

Speaker: Dr. M. Babu Rao, Professor & Mentor (AS&A), Department of CSE, Gudlavalleru Engineering College.

Salient Points Conveyed:

The speaker

- elaborated on study skills, test taking, career guidance and latest technologies.
- explained the importance of setting up a goal and suggested various ways to achieve it
- concluded by suggesting students to pursue higher studies in India or abroad.



Name of the Activity: Career Guidance

Objectives of the Activity:

- To motivate new entrants to pursue B.Tech. Programme with passion.
- To motivate the students to excel in their profession.

Speaker: Dr. DNVSLS Indira, Associate Professor, Department of CSE, GEC.

Salient points :

- Why CSE?
- 8 Unexpected ways in which technology will change the world by 2020.
- Current demand for IT industry.
- The 50 highest paying jobs in engineering and technology.
- Introduced ACM & IEEE computer Society students chapters.
- Top 10 software companies in the world that offer 50% CSE graduates for coding.
- What after B.Tech CSE ?
- Importance of GATE, higher education.



Date: 17th July 2018

Time: 14:10-15:00

Name of the Activity: Talk on how to achieve success in academics

Objectives of the Activity:

- To motivate fresher's for pursuing their B.Tech. programme with passion.

Speaker: Dr. Ch. Suresh Babu, Associate Professor, Dept of CSE, GEC.

Salient points:

The speaker

- spoke on how to achieve success in academics
- explained the importance of enhancing communication and interpersonal skills in order to succeed in professional and social settings
- gave detailed explanation on growth mindset and fixed mindset.



Name of the Activity: Guest lecture on Importance of Logical and Critical Thinking in Computer Science

Objectives of the Activity:

- To motivate the students to gain jobs and to excel in their profession
- To impart various meta skills and underlying values to students

Speaker: Dr. B. Janaki Ramaiah, Professor of CSE, PVPSIT, Vijayawada.

Speaker Profile: Dr. B. Janaki Ramaiah has more than 15 years of experience in teaching . He has published more than 20 papers in refereed international journals and conferences. His areas of interests include data mining, big data, machine learning and deep learning.

Salient Points:

The Speaker

- elaborated on the importance of logical reasoning in the field of computer science.
- explained the CPU functioning, how it performs based on the arithmetic and logical circuits.
- took up a case study *Mumbai Airport Surveillance System* to explain the importance of *Logic and Critical Thinking in Computer Science*.



Name of the Activity: QUIZ Competition

Objectives of the Activity:

- To break the ice.
- To help them develop team work and communication skills.
- Enhance leadership

Organizer: Ms. S. Vineela Krishna, Assistant Professor, Dept. of CSE, GEC.

Activity Description:

The students were quizzed in six rounds as follows

- ✓ Round 1: Picture Clues
- ✓ Round 2: Mirror Images
- ✓ Round 3: Tongue Twisters
- ✓ Round 4: Historic Places and Dance Forms
- ✓ Round 5: Jumbled Words
- ✓ Round 6: Rapid Fire

The questions put forth to the teams were fun-filled, cognitive and intriguing and roused their curiosity. Every round was a mixed bag with questions from history, sports, technology, science, vocabulary and riddles.. The final round, a rapid-fire gave the teams a chance to catch up with leaders and put-up a tough fight , all the teams participated with enthusiasm Finally, prizes were given away to the winners and runners.



Name of the Activity: Talk on Use of Project Work in Professional Front

Objectives of the Activity:

- To impart various meta skills and underlying values to students.
- To help them develop team work and enhance creativity.

Speaker: Dr. K V D. Sagar, Associate Professor,
Department of Electronics and Computer Engineering, KLU, Vijayawada.

Speaker Profile:

Dr. K V D. Sagar has more than 12 years of experience in teaching . He has published more than 20 papers in referred international journals and conferences. His areas of interest include Wireless Sensor Networks, Internet of Things and Image Processing.

Salient points:

The speaker spoke on projects viz. what to do and how to do. He said projects are very helpful during placements. They should have social relevance .He explained projects such as Mosquito Monitoring System, Vehicle Speed Control System etc and their usefulness to the society.



Name of the Activity: Project Expo

Objectives of the Activity:

- To motivate freshers' to pursue their B.Tech. Programme with passion.
- To promote bonding between the students and teachers.
- To help students develop team work and enhance creativity.

Coordinator: Mr. J N V R Swarup Kumar, Assistant Professor, Department of CSE, GEC.

List of Projects Exhibited

1. Air and Sound Monitoring System Using IoT
2. Flood Alerting System using IoT
3. Bus Tracking and Fuel Management using IoT
4. Accident Detection System using IoT
5. School Children Security System
6. Garbage Monitoring System Based on IoT
7. Pill Bottle
8. IoT Based Forest Fire Accident and Deforestation Detection System using Drone
9. Water Leakage Monitoring System
10. RFID Based Library Management System
11. IoT Based Fire Department Alerting System
12. Ultrasonic Blind Stick
13. Digitally Sense Heart Rate and Body Temperature using IoT

IOT is a technology that makes use of internet to control / monitor electronic / mechanical devices, automobiles and other physical devices connected to the Internet. Our IOT (Internet of Things) projects brought the internet of things concept to reality through proven demonstrations



**DEPARTMENT
OF
INFORMATION TECHNOLOGY**

**I YEAR INDUCTION
PROGRAMME REPORT**

INDUCTION PROGRAM SCHEDULE

	9:00A.M -11:00 A.M	11:00A.M- 12:20 P.M	L U N C H B R E A K	1:20P.M- 2:10PM	2:10P.M- 3:50P.M	3:50P.M- 4:40P.M
DAY1 17-07-2018 (Tuesday)	Event 1: Department Profile (Dr.CH.K)	Event 2: Role of IT Engineer (Dr.M.V.L.N. R)		Event 3: Project Expo (Mr.T.K.K.P)		Event 4: Introduction to Curriculum (Dr.CH.K)
DAY2 19-07-2018 (Thursday)	Event 5: Career Guidance (Mr.B.S.K)			Event 6: Interaction with Seniors (Final Years)	Event 7: Webquest (Mr.K.S.K)	

Overall Objectives	Dept. Objectives						
	OA1	OA2	OA3	OA4	OA5	OA6	OA7
OBJECTIVE 1	✓				✓		
OBJECTIVE 2		✓	✓	✓			
OBJECTIVE 3							
OBJECTIVE 4							
OBJECTIVE 5						✓	
OBJECTIVE 6							
OBJECTIVE 7							
OBJECTIVE 8							
OBJECTIVE 9							✓
OBJECTIVE 10							

Name of the Activity: Department Profile

Objective of the Activity: To introduce the Information Technology department to the students.

Speaker: Dr. Ch. Kavitha, Professor & Head, Department of IT, GEC.

Salient Points Conveyed:

She congratulated the students for securing seat in IT branch of GEC.

She introduced the Department faculty to the students.

She explained about:

- The history of I.T department since its inception in 1999 with an intake of 40 students till date with the intake of 120 students in the current academic year.
- The facilities available in the department, department achievements.
- The department has entered into MOUs with various companies.
- AICTE schemes sanctioned to the department.
- Year-wise programs conducted in the department and in the college. She advised students to participate in all the events.



Name of the Activity: Role of IT Engineer in Transforming the Global Scenario.

Objective of the Activity: To make the students understand the importance of IT sector in the society.

Speaker: Dr. M.V.L.N Raja Rao, Professor and Mentor (AS & A), Department of IT, GEC.

Salient Points Conveyed:

He welcomed the students of first year course. He explained the importance of IT branch in the society and the requirements from an IT professional to fulfil their ambition of getting a job in reputable industries or to go for higher studies in reputable universities in India and abroad.

He advised the students:

- To interact with members of the faculty often to get clarified their doubts.
- To get the suggestions for improving their technical and communication skills students can utilise the last hour of the day.
- To participate in workshops conducted and try to present papers in paper contest conducted by the department (GECFEST) and try to give seminars from 2nd year onwards.
- To take part in cultural activities and sports for the overall improvement of students / participate in both extra-curricular and co-curricular activities to improve the physical and mental strength.
- He requested the students to refer the department website on alumni to get suggestions and information from the alumni.



Name of the Activity: Project Expo

Objective of the Activity: To expose the students to the practical applications of the technologies.

Organized By: Mr. T.K.K. Praneeth (Asst. Prof), Mr.K.Srikanth (Asst.Prof) & Final Year Students, Department of IT,GEC.

Salient Points Conveyed:

Final year students interacted with the first year students and explained the projects done by the students using various technologies like IoT, Biometrics, Web Applications, Data Mining, Security, Image Processing etc. First year students felt excited to go through the projects. Students have put forward their queries regarding the projects which were well clarified by the senior students. The projects explained to the students were:

- Home automation
- Student information system
- Agricultural guidance system
- Grama panchayat adoption advisor
- Outcome based education exam paper setting
- Drowsiness detection

Name of the Activity: Introduction to Curriculum and Academic Regulations.

Objective of the Activity: To make the students familiarize with the Curriculum.

Speaker: Dr. Ch. Kavitha, Professor& Head, Department of IT, GEC.

Salient Points Conveyed:

She explained the academic rules and regulations of the college.

- Students should have a minimum of 75% in order to get promoted to the next semester.
- Students are allowed to pay condonation only twice.
- Total number of credits to be earned for the award of degree is 160.

She explained the course structure corresponding to each semester which includes the total number of subjects related to Basic Sciences (BS), Humanities and Social Sciences(HSS), Engineering Sciences(ES), Professional Core(PC), Professional Electives(PE), Open Electives(OE) and Mandatory Non-Credit Courses like Yoga and NSS.



Name of the Activity: Career Guidance

Objective of the Activity: To help students choose a field that is in tune with their skills and their job expectations.

Speaker: Mr. B. Srinivasu Kumar, Associate Professor, Department of IT, GEC.

Salient Points Conveyed:

He explained the opportunities after completion of B.Tech. After graduation, a student can go for either M.Tech or MBA. He explained how to prepare for GATE exam in order to secure a seat in IITs and NITs and how to prepare for CAT exam in order to secure a seat in IIMs. He advised students to take up an MBA course and then to have a start-up company, MBA helps in managing the company efficiently.



He explained that students should satisfy the industry needs like:

- Having good communication skills.
- Maintaining minimum grade or marks.
- Good verbal aptitude and reasoning.
- Having an in-depth knowledge in any one programming language like C, oops and python.
- Maintaining good behaviour and eye contact in the interviews.

Name of the Activity: Interaction with Final Year Students

Objective of the Activity: To guide the students to establish good relationship with seniors and members of the faculty.

Organized by: C.Sai Praveen, D.S.N.Santhosi Sriya & K.Venkat Kashyap,
Final Year Students, Department of IT, GEC.

Salient Points Conveyed:

An interactive session was held with the final year students. The final year students shared their experiences. They advised the first year students to take part in college events.

Final year students advised the first year students to get aware of the trending technologies in the software field and also to get familiar with the new programming languages like Python and R in order to get placements in the campus drives.

They requested to take part in GECFEST which is organized by the college in the month of February.

They explained that having a social life is good but students must learn to plan their study time properly.

They advised the first year students to improve their communication skills.

Name of the Activity: WEBQUEST

Objective of the Activity: To make the students understand the importance of team work and to encourage the competitiveness.

Event In-charge: Mr. K.Srikanth, Assistant Professor, Department of IT, GEC.

Salient Points Conveyed:

An event was held for the first year students named 'WEBQUEST', in Object Oriented Systems Lab. Two rounds were conducted.

First round: Students were asked to do an online search about topics related to Speed Maths, General Knowledge and Movies within given time.

Second Round: Students were asked to do an online search about topics on Computer Fundamentals, Inventors and Founders.

Students were made to participate in the event in groups (two people in each group). Three teams were awarded the prizes. Winners were selected based on the marks obtained in both the rounds.

Few final year students assisted Mr.Srikanth in conducting the event.

**STUDENT
FEED BACK ANALYSIS**

Department	Phase I Assessment Analysis on		Phase II Assessment Analysis on	
	Understanding	Motivation	Understanding	Motivation
Civil Engineering	4.1	4.0	3.5	3.3
Electrical and Electronics Engineering	4.16	4.08	3.95	3.91
Mechanical Engineering	4.31	4.1	4.13	3.96
Electronics and Communication Engineering	4.22	4.12	4.19	4.02
Computer Science and Engineering	4.19	4.06	4.11	4.03
Information Technology	4.12	3.87	3.97	3.97
Average	4.18	4.04	3.98	3.87

DEPARTMENT OF CIVIL ENGINEERING

Feed Back By First Year Students On Phase I Induction Program

5 – Excellent

4 – Very Good

3 – Good

2 – Average

1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Motivation					Analysis on 5 scale	
		5	4	3	2	1	Analysis on 5 scale	5	4	3	2		1
1	Videos	20	23	5	0	0	4.3	13	26	7	2	0	4.0
2	“Sahityam- Vyaktitva Vikasam” by Sri Garikapati Narasimha Rao	27	16	4	1	0	4.4	20	17	8	2	1	4.1
3	“Classical Dance- An Instrument to Attain Eternal Life” by Sri Vedantam Ramalinga Sastry and Team	12	14	19	2	1	3.7	6	16	21	4	1	3.5
4	“Library Services” by Sri P. Srinivasa Rao	4	12	23	7	2	3.2	7	8	20	11	2	3.1
5	“Telugu-Velugulu” by Sri Annadata Parasamani	38	6	4	0	0	4.7	36	9	3	0	0	4.7
6	“General Engineering Education and Motivation” by Dr. K.V.S.G. Murali Krishna	29	14	4	0	1	4.5	32	10	5	0	1	4.5
7	“Literary Program in English” by Dr. Ramanujam Parthasarathi and Team	19	17	11	1	0	4.1	20	19	7	2	0	4.2
8	“Classical Music-A Path to Glorious Life” by Ms. Lakshmi Narasamma and Team	12	20	14	2	0	3.9	13	19	12	3	1	3.8
9	“India on your Shoulders” by Prof. S. Ramakrishna Rao	13	21	12	2	0	3.9	12	17	14	4	1	3.7
10	“Fire Prevention and Safety” by Sri K. Kranthi Kumar and Team	32	11	4	1	0	4.5	31	11	6	0	0	4.5
11	“Traffic Rules and Safe Driving Aspects” by Sri G. Venu	16	17	11	2	2	3.9	16	15	12	3	2	3.8
		Average					4.1	Average					4.0

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Feed Back By First Year Students On Phase I Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Analysis on 5 scale	Motivation					Analysis on 5 scale
		5	4	3	2	1		5	4	3	2	1	
1	Videos	20	14	10	1		4.18	21	11	10	2		4.07
2	“Sahityam- Vyaktitva Vikasam” by Sri Garikapati Narasimha Rao	30	10	4	1		4.53	24	15	5	1	1	4.40
3	“Classical Dance- An Instrument to Attain Eternal Life” by Sri Vedantam Ramalinga Sastry and Team	7	23	12	2	1	3.73	8	22	13	3	2	3.89
4	“Library Services” by Sri P. Srinivasa Rao	8	12	20	5	1	3.53	6	12	18	9	2	3.38
5	“Telugu-Velugulu” by Sri Annadata Parasamani	30	10	1			4.29	35	11	1			4.93
6	“General Engineering Education and Motivation” by Dr. K.V.S.G. Murali Krishna	30	12	3			4.60	29	10	5	2		4.53
7	“Literary Program in English” by Dr. Ramanujam Parthasarathi and Team	10	19	12	4		3.78	10	19	10	6	1	3.76
8	“Classical Music-A Path to Glorious Life” by Ms. Lakshmi Narasamma and Team	22	16	7			4.33	19	16	9			4.13
9	“India on your Shoulders” by Prof. S. Ramakrishna Rao	18	15	7	5		4.02	8	21	10	3	1	3.58
10	“Fire Prevention and Safety” by Sri K. Kranthi Kumar and Team	33	8	4		1	4.67	29	7	3	1	1	4.11
11	“Traffic Rules and Safe Driving Aspects” by Sri G. Venu	21	15	6	1		4.11	25	10	6	1	1	4.13
		Average					4.16	Average					4.08

DEPARTMENT OF MECHANICAL ENGINEERING
Feed Back By First Year Students On Phase I Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											Analysis on 5 scale
		Understanding					Motivation					Analysis on 5 scale	
		5	4	3	2	1	Analysis on 5 scale	5	4	3	2		
1	Videos	26	23	11	2	0	4.24	20	23	15	3	1	4.00
2	“Sahityam- Vyaktitva Vikasam” by Sri Garikapati Narasimha Rao	37	17	8	1	0	4.57	34	15	12	2	0	4.40
3	“Classical Dance- An Instrument to Attain Eternal Life” by Sri Vedantam Ramalinga Sastry and Team	6	33	17	5	0	3.65	7	20	21	12	2	3.34
4	“Library Services” by Sri P. Srinivasa Rao	6	19	27	8	2	3.36	6	15	20	15	6	3.04
5	“Telugu-Velugulu” by Sri Annadata Parasamani	55	6	1	0	0	4.91	49	7	6	0	0	4.77
6	“General Engineering Education and Motivation” by Dr. K.V.S.G. Murali Krishna	48	12	3	0	0	4.86	37	19	7	0	0	4.62
7	“Literary Program in English” by Dr. Ramanujam Parthasarathi and Team	16	25	19	2	0	3.95	15	25	17	5	0	3.86
8	“Classical Music-A Path to Glorious Life” by Ms. Lakshmi Narasamma and Team	24	25	11	2	0	4.21	22	19	13	8	0	3.95
9	“India on your Shoulders” by Prof. S. Ramakrishna Rao	22	26	14	0	0	4.19	17	23	18	3	1	3.90
10	“Fire Prevention and Safety” by Sri K. Kranthi Kumar and Team	52	10	0	0	0	4.90	47	11	4	0	0	4.77
11	“Traffic Rules and Safe Driving Aspects” by Sri G. Venu	42	12	7	1	0	4.60	38	13	8	3	0	4.45
		Average					4.31	Average					4.1

DEPARTMENT OF ELECTROINCS AND COMMUNICATION ENGINEERING
Feed Back By First Year Students On Phase I Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Analysis on 5 scale	Motivation					Analysis on 5 scale
		5	4	3	2	1		5	4	3	2	1	
1	Videos	33	38	14	1	0	3.68	25	38	23	1	0	3.55
2	“Sahityam- Vyaktitva Vikasam” by Sri Garikapati Narasimha Rao	59	20	5	0	1	3.98	44	24	11	2	2	3.62
3	“Classical Dance- An Instrument to Attain Eternal Life” by Sri Vedantam Ramalinga Sastry and Team	18	36	24	0	1	3.13	15	21	34	8	6	2.88
4	“Library Services” by Sri P. Srinivasa Rao	8	18	38	9	7	2.56	7	16	29	20	8	2.38
5	“Telugu-Velugulu” by Sri Annadata Parasamani	73	7	4	0	0	4.13	68	12	3	0	0	4.05
6	“General Engineering Education and Motivation” by Dr. K.V.S.G. Murali Krishna	60	20	4	1	0	4	55	18	8	3	1	3.85
7	“Literary Program in English” by Dr. Ramanujam Parthasarathi and Team	29	30	26	2	0	3.54	24	25	33	2	3	3.32
8	“Classical Music-A Path to Glorious Life” by Ms. Lakshmi Narasamma and Team	26	36	16	3	2	3.36	27	19	32	7	3	3.306
9	“India on your Shoulders” by Prof. S. Ramakrishna Rao	18	33	30	5	1	3.29	15	25	36	10	2	3.11
10	“Fire Prevention and Safety” by Sri K. Kranthi Kumar and Team	55	18	6	1	1	3.75	59	20	8	2	0	4.11
11	“Traffic Rules and Safe Driving Aspects” by Sri G. Venu	49	19	12	3	3	3.73	48	14	18	2	0	3.61
		Average					4.22	Average					4.12

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Feed Back By First Year Students On Phase I Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding						Motivation					
		5	4	3	2	1	Analysis on 5 scale	5	4	3	2	1	Analysis on 5 scale
1	Videos	56	25	15	2	0	4.38	57	22	16	1	2	4.34
2	“Sahityam- Vyaktitva Vikasam” by Sri Garikapati Narasimha Rao	60	30	8	0	0	4.53	56	26	13	3	0	4.38
3	“Classical Dance- An Instrument to Attain Eternal Life” by Sri Vedantam Ramalinga Sastry and Team	26	38	30	3	1	3.87	22	26	37	10	3	3.55
4	“Library Services” by Sri P. Srinivasa Rao	41	42	15	0	0	3.99	37	36	17	6	2	4.02
5	“Telugu-Velugulu” by Sri Annadata Parasamani	32	40	20	5	1	3.99	32	48	10	8	0	4.06
6	“General Engineering Education and Motivation” by Dr. K.V.S.G. Murali Krishna	79	14	5	0	0	4.76	71	23	4	0	0	4.68
7	“Literary Program in English” by Dr. Ramanujam Parthasarathi and Team	41	34	21	0	2	4.14	33	28	32	3	2	3.89
8	“Classical Music-A Path to Glorious Life” by Ms. Lakshmi Narasamma and Team	33	44	16	4	1	4.06	25	36	22	14	1	3.71
9	“India on your Shoulders” by Prof. S. Ramakrishna Rao	20	40	34	4	0	3.78	20	33	35	10	0	3.64
10	“Fire Prevention and Safety” by Sri K. Kranthi Kumar and Team	61	30	7	0	0	4.55	60	22	16	0	0	4.45
11	“Traffic Rules and Safe Driving Aspects” by Sri G. Venu	40	28	25	4	1	4.04	41	22	27	3	5	3.93
		Average					4.19	Average					4.06

DEPARTMENT OF INFORMATION TECHNOLOGY
Feed Back By First Year Students On Phase I Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding						Motivation					
		5	4	3	2	1	Analysis on 5 scale	5	4	3	2	1	Analysis on 5 scale
1	Videos	27	17	11	0	1	4.23	17	22	13	2	2	3.89
2	“Sahityam- Vyaktitva Vikasam” by Sri Garikapati Narasimha Rao	34	11	10	1	0	4.39	25	15	12	4	0	4.09
3	“Classical Dance- An Instrument to Attain Eternal Life” by Sri Vedantam Ramalinga Sastry and Team	8	24	16	6	2	3.54	6	20	17	9	4	3.27
4	“Library Services” by Sri P. Srinivasa Rao	11	13	19	9	4	3.32	12	12	20	8	4	3.36
5	“Telugu-Velugulu” by Sri Annadata Parasamani	43	7	5	1	0	4.64	41	9	4	1	1	4.57
6	“General Engineering Education and Motivation” by Dr. K.V.S.G. Murali Krishna	36	13	5	2	0	4.48	25	17	13	1	0	4.18
7	“Literary Program in English” by Dr. Ramanujam Parthasarathi and Team	31	10	10	3	2	4.16	19	14	20	2	1	3.86
8	“Classical Music-A Path to Glorious Life” by Ms. Lakshmi Narasamma and Team	24	20	10	2	0	4.18	16	20	11	4	5	3.68
9	“India on your Shoulders” by Prof. S. Ramakrishna Rao	9	29	11	6	1	3.70	7	21	16	10	2	3.38
10	“Fire Prevention and Safety” by Sri K. Kranthi Kumar and Team	42	13	0	1	0	4.71	35	14	6	1	0	4.48
11	“Traffic Rules and Safe Driving Aspects” by Sri G. Venu	16	28	7	4	1	3.96	18	21	10	4	3	3.84
		Average					4.12	Average					3.87

DEPARTMENT OF CIVIL ENGINEERING

Feed Back By First Year Students On Phase II Induction Program

5 – Excellent

4 – Very Good

3 – Good

2 – Average

1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Analysis on 5 scale	Motivation					Analysis on 5 scale
		5	4	3	2	1		5	4	3	2	1	
1	Videos	13	19	6	1	1	3.4	13	10	13	2	2	3.1
2	“Origin & Development of Telugu Language” by Smt. Avula Manjulatha	16	9	15	0	0	3.4	8	14	13	4	1	3.0
3	“Tips for Healthy Living” by Dr. G. Swarupa	13	22	5	0	0	3.5	10	21	8	1	0	3.3
4	“Inculcating Human values” by Sri V.Naveen Kumar	13	18	9	0	0	3.4	11	16	12	1	0	3.3
5	“Skill -set Requirements of Employers and Placement Opportunities” by Sri K. Sai Krishna	11	20	6	3	0	3.3	13	18	6	3	0	3.4
6	“Introduction to Indian Constitution” by Sri Gundu Sri Krishna	12	15	11	2	0	3.3	10	14	10	5	1	3.1
7	“Tips to Improve Mind Power” by Sri S. Sudheer	32	5	1	1	1	3.9	33	6	1	0	0	4.0
8	“Morals and Ethics” by H.G. Satya Gopinath Dasa	16	15	8	1	0	3.5	7	20	9	3	1	3.1
9	“Students Motivation & Counselling” by Sri Yandamuri Veerendranath	33	5	1	1	0	4.0	28	11	1	0	0	3.9
		Average					3.5	Average					3.3

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
Feed Back By First Year Students On Phase II Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Analysis on 5 scale	Motivation					Analysis on 5 scale
		5	4	3	2	1		5	4	3	2	1	
1	Videos	14	22	14	3	1	3.83	12	21	16	4	1	3.72
2	“Origin & Development of Telugu Language” by Smt. Avula Manjulatha	9	20	20	2		3.50	11	19	18	4	1	3.59
3	“Tips for Healthy Living” by Dr. G. Swarupa	23	16	6	2		3.72	22	23	7	2		4.20
4	“Inculcating Human values” by Sri V.Naveen Kumar	25	18	8	1	1	4.15	21	21	8	3	1	4.07
5	“Skill -set Requirements of Employers and Placement Opportunities” by Sri K. Sai Krishna	21	23	7	2		4.11	15	29	5	2	0	3.89
6	“Introduction to Indian Constitution” by Sri Gundu Sri Krishna	11	29	11	3	1	3.91	10	24	13	5	1	3.63
7	“Tips to Improve Mind Power” by Sri S. Sudheer	35	16	2	1		4.57	31	18	3	2		4.44
8	“Morals and Ethics” by H.G. Satya Gopinath Dasa	17	25	6	2	1	3.85	15	23	10	1		3.69
9	“Students Motivation & Counselling” by Sri Yandamuri Veerendranath	27	17	2	1		3.91	25	19	2	2		3.91
		Average					3.95	Average					3.91

DEPARTMENT OF MECHANICAL ENGINEERING

Feed Back By First Year Students On Phase II Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Analysis on 5 scale	Motivation					Analysis on 5 scale
		5	4	3	2	1		5	4	3	2	1	
1	Videos	12	9	7	0	1	4.06	13	7	8	1	0	4.10
2	“Origin & Development of Telugu Language” by Smt. Avula Manjulatha	6	14	8	1	0	3.86	4	13	10	2	0	3.65
3	“Tips for Healthy Living” by Dr. G. Swarupa	9	10	10	0	0	3.96	9	8	10	2	0	3.82
4	“Inculcating Human values” by Sri V.Naveen Kumar	13	11	3	2	0	4	12	7	6	3	1	3.89
5	“Skill -set Requirements of Employers and Placement Opportunities” by Sri K. Sai Krishna	12	11	5	1	0	4.17	10	9	7	3	0	3.89
6	“Introduction to Indian Constitution” by Sri Gundu Sri Krishna	7	14	6	1	1	3.86	4	11	12	1	1	3.55
7	“Tips to Improve Mind Power” by Sri S. Sudheer	23	3	3	0	0	4.68	21	5	1	2	0	4.55
8	“Morals and Ethics” by H.G. Satya Gopinath Dasa	6	13	10	0	0	3.86	5	10	10	4	0	3.55
9	“Students Motivation & Counselling” by Sri Yandamuri Veerendranath	22	7	0	0	0	4.75	22	6	1	0	0	4.72
		Average					4.13	Average					3.96

DEPARTMENT OF ELECTROINCS AND COMMUNICATION ENGINEERING
Feed Back By First Year Students On Phase II Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on													
		Understanding						Motivation							
		5	4	3	2	1	Analysis on 5 scale	5	4	3	2	1	Analysis on 5 scale		
1	Videos	11	38	34	5	0	3.505	15	39	33	1	0	3.64		
2	“Origin & Development of Telugu Language” by Smt. Avula Manjulatha	19	30	25	5	4	3.34	34	34	11	2	2	3.79		
3	“Tips for Healthy Living” by Dr. G. Swarupa	18	30	24	5	1	3.21	15	31	24	8	6	3.21		
4	“Inculcating Human values” by Sri V.Naveen Kumar	18	18	28	9	5	2.95	17	26	19	10	8	3.01		
5	“Skill -set Requirements of Employers and Placement Opportunities” by Sri K. Sai Krishna	23	27	24	10	2	3.48	28	32	23	5	0	3.81		
6	“Introduction to Indian Constitution” by Sri Gundu Sri Krishna	20	36	24	8	0	3.64	25	38	18	3	1	3.71		
7	“Tips to Improve Mind Power” by Sri S. Sudheer	19	30	36	2	0	3.59	24	35	22	2	1	3.63		
8	“Morals and Ethics” by H.G. Satya Gopinath Dasa	18	36	26	3	2	3.53	17	29	31	5	3	3.37		
9	“Students Motivation & Counselling” by Sri Yandamuri Veerendranath	39	28	12	3	3	3.86	38	22	16	1	0	3.604		
		Average						5.19	Average						4.02

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Feed Back By First Year Students On Phase II Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding					Analysis on 5 scale	Motivation					Analysis on 5 scale
		5	4	3	2	1		5	4	3	2	1	
1	Videos	49	46	16	2	0	4.26	42	49	17	4	1	4.12
2	“Origin & Development of Telugu Language” by Smt. Avula Manjulatha	15	50	41	5	2	3.63	13	39	48	8	5	3.42
3	“Tips for Healthy Living” by Dr. G. Swarupa	39	56	18	0	0	4.19	43	43	24	3	0	4.12
4	“Inculcating Human values” by Sri V.Naveen Kumar	41	41	26	4	1	4.04	36	37	33	6	1	3.89
5	“Skill -set Requirements of Employers and Placement Opportunities” by Sri K. Sai Krishna	32	51	29	1	0	4.01	34	49	27	2	1	4.00
6	“Introduction to Indian Constitution” by Sri Gundu Sri Krishna	22	51	33	7	0	3.78	22	41	36	11	3	3.60
7	“Tips to Improve Mind Power” by Sri S. Sudheer	102	8	2	1	0	4.87	97	11	3	2	0	4.80
8	“Morals and Ethics” by H.G. Satya Gopinath Dasa	33	51	22	3	4	3.94	39	39	23	6	6	3.88
9	“Students Motivation & Counselling” by Sri Yandamuri Veerendranath	95	12	5	0	1	4.77	86	16	9	1	1	4.64
		Average					4.11	Average					4.03

DEPARTMENT OF INFORMATION TECHNOLOGY
Feed Back By First Year Students On Phase II Induction Program

5 – Excellent 4 – Very Good 3 – Good 2 – Average 1 – Poor

S. No.	Program	Assessment Analysis on											
		Understanding						Motivation					
		5	4	3	2	1	Analysis on 5 scale	5	4	3	2	1	Analysis on 5 scale
1	Videos	14	11	8	0	2	4.00	15	9	5	3	3	3.86
2	“Origin & Development of Telugu Language” by Smt. Avula Manjulatha	7	12	11	4	1	3.57	10	11	9	2	3	3.66
3	“Tips for Healthy Living” by Dr. G. Swarupa	10	9	13	3	0	3.74	12	12	7	4	0	3.91
4	“Inculcating Human values” by Sri V.Naveen Kumar	10	16	5	3	1	3.89	12	9	10	3	1	3.80
5	“Skill -set Requirements of Employers and Placement Opportunities” by Sri K. Sai Krishna	13	16	3	3	0	4.11	13	16	2	3	1	4.06
6	“Introduction to Indian Constitution” by Sri Gundu Sri Krishna	8	12	11	4	0	3.69	7	10	12	5	1	3.49
7	“Tips to Improve Mind Power” by Sri S. Sudheer	29	2	2	1	1	4.63	25	6	2	2	0	4.54
8	“Morals and Ethics” by H.G. Satya Gopinath Dasa	8	14	9	2	2	3.69	13	9	9	4	0	3.89
9	“Students Motivation & Counselling” by Sri Yandamuri Veerendranath	21	8	5	1	0	4.40	23	7	4	1	0	4.49
		Average					3.97	Average					3.97

Student Induction Program: A Detailed Guide

30 July 2018

All India Council of Technical Education
Nelson Mandela Marg
Vasant Kunj
New Delhi

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1 Introduction

1.1 Background

Engineering colleges were established to train graduates in their respective branch/ department of study, have a holistic outlook towards life, and have a desire to work for national needs and beyond.

The graduating student must have excellent knowledge and skills in the area of his study. However, he must also have broad understanding of society and relationships. Character needs to be nurtured as an essential quality by which he would understand and fulfill his responsibility as an engineer, a citizen and a human being. Besides the above, several meta-skills and underlying values are needed.

There is a mad rush for engineering today, without the student determining for himself his interests and his goals. This is a major factor in the current state of demotivation that exists among UG students towards studies.

The success of gaining admission into a desired institution but failure in getting the desired branch, with peer pressure generating its own problems, leads to a peer environment that is demotivating and corrosive. For some, the start of hostel life without close parental supervision at the same time, further worsens it with also a poor daily routine.

1.2 Extending a Helping Hand

To come out of this situation, a multi-pronged approach is needed. One will have to work closely with the newly joined students in making them feel comfortable, allow them to explore their academic interests and activities, reduce competition and make them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and build character.

When new students enter an institution, they also come with diverse thoughts, backgrounds and preparations. They come into a new unfamiliar environment, and many of them have little knowledge of a university/college. An important task, therefore, is to welcome the new students to higher education and prepare them for their new role.

Transition from school to university/college life is one of the most challenging events in a student's life. Currently, precious little is done by most institutions, except for an orientation program lasting a couple of days. Student Induction is designed to help in the whole process. Therefore, it should be taken seriously, and as something more than the mere orientation program.

2 Student Induction Program - Purpose & Concept

Purpose of the *Student Induction Program* is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of the institution, help them build bonds with other students and faculty members, and expose them to a sense of larger purpose and self exploration.

The term *induction* is generally used to describe the whole process whereby the incumbants adjust to or acclimatize to their new roles and environment. In other words, it

is a well planned event to educate the new entrants about the environment in a particular institution, and connect them with the people in it.

Student Induction Program engages with the new students as soon as they come into the institution; regular classes start only after that. At the start of the induction, the incumbants learn about the institutional policies, processes, practices, culture and values, and their mentor groups are formed. Then the different activities start, including those which are daily.

Here is a list of activities:

- Physical Activity
- Creative Arts and Culture
- Mentoring & Universal Human Values
- Familiarization with College, Dept./Branch
- Literary Activity
- Proficiency Modules
- Lectures & Workshops by Eminent People
- Visits in Local Area
- Extra-Curricular Activities in College
- Feedback and Report on the Program

The time during the Induction Program is also used to rectify some critical lacunas, for example, English background, for those students who have deficiency in it. These are included under Proficiency Modules.

There will be a 3-week long induction program for the UG students entering the institution, right at the start. Normal classes start only after the induction program is over. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awariness, sensitivity and understanding of the self, people around them, society at large, and nature.

3 Daily Activity

The following are the activities under the induction program in which the student would be fully engaged throughout the day for the entire duration of the program.

3.1 Physical Activity

This would involve a daily routine of physical activity with games and sports. There would be games in the evening or at other suitable times according to the local climate. These would help develop team work besides health. Each student could pick one game and learn it for the duration of the induction program and hopefully, continue with it later.¹

3.2 Creative Arts

Every student would chose one skill related to the arts whether visual arts or performing arts. Examples are painting, music, dance, pottery, sculpture etc. The student would pursue it everyday for the duration of the program.

These would allow for creative expression. It would develop a sense of aesthetics and also enhance creativity which would, hopefully, flow into engineering design later.

3.3 Mentoring and Universal Human Values

Mentoring and connecting the students with faculty members is the most important part of student induction.

Mentoring takes place in the context and setting of *Universal Human Values*. It gets the student to explore oneself and experience the joy of learning, prepares one to stand up to peer pressure and take decisions with courage, be aware of relationships and be sensitive to others, understand the role of money in life and experience the feeling of prosperity. Need for character building has been underlined by many thinkers, universal human values provide the base.

Methodology of teaching this content is extremely important. It must not be through do's and don't's, but by getting the students to explore and think by engaging them in a dialogue. It is best taught through group discussions and real life activities rather than lecturing. The role of group discussions, however, with clarity of thought of the teachers cannot be over emphasized. It is essential for giving exposure, guiding thoughts, and realizing values.

The teachers must come from all the departments rather than only one department like HSS or from outside of the Institute. Experiments in this direction at IIT(BHU) are noteworthy and one can learn from them.

Discussions would be conducted in small groups of about 20 students with a faculty mentor each. It is to open thinking towards the self. Universal Human Values discussions could even continue for rest of the semester as a normal course, and not stop with the induction program.

Besides drawing the attention of the student to larger issues of life, it would build relationships between teachers and students which last for their entire 4-year stay and possibly beyond.

¹For new students entering hostel, there would also be a morning activity coming to the field at 6:30 am for light physical exercise or yoga. There could also be gardening or other suitably designed activity where labour yields fruits from nature.

4 Other Activity

Activities that are not there on a daily basis, but are conducted for 3-4 days (typically in the afternoons) and change thereafter.

4.1 Familiarization with College, Department/Branch

The incoming students should be told about the credit and grading system, and about the examinations. They should be informed about how study in college differs from study in school. They should also be taken on a tour of the college and shown important points such as library, canteen, and other facilities.

They should be shown their department, and told what it means to get into the branch or department. Describe what role the technology related to their department plays in society, and after graduation what role the student would play in society as an engineer in that branch. A lecture by an alumnus of the Dept. would be very helpful in this regard. They should also be shown the laboratories, workshops and other facilities.

The above should be done right in the first two days, and then over the afternoons thereafter, as appropriate.

4.2 Literary Activity

Literary activity would encompass reading a book, writing a summary, debating, enacting a play etc.

4.3 Proficiency Modules

The induction program period can be used to overcome some critical lacunas that students might have, for example, English, computer familiarity etc. These should run like crash courses, so that when normal courses start after the induction program, the student has overcome the lacunas substantially.

We hope that problems arising due to lack of English skills, wherein students start lagging behind or failing in several subjects, for no fault of theirs, would, hopefully, become a thing of the past.

4.4 Lectures & Workshops by Eminent People

Lectures by eminent people should be organized, say, once a week. It would give the students exposure to people who are eminent, in industry or engineering, in social service, or in public life. Alumni could be invited as well.

Motivational lectures about life, meditation, etc. by Ramakrishna Mission, Art of Living, Vivekanand Kendras, S-VYASA, etc. may be organized. Workshops which rejuvenate or bring relief to students would also be welcome, such as, Art of Living workshops (3 sessions, 9 hours).

4.5 Visits in Local Area

A couple of visits to the local landmarks including historical monuments should be organized. This would familiarize the students with the area together with bonding with each other, like in a picnic.

Visits should also be organized to a hospital, orphanage or a village. These would expose them to people in suffering or to different lifestyles. This might also sensitize them to engineering needs in these areas.

4.6 Extra-Curricular Activities in College

The new students should be introduced to the extra-curricular activities at the college/university. They should be shown the facilities and informed about activities related to different clubs etc. This is when selected senior students involved in or leading these activities can give presentations, under faculty supervision.

4.7 Feedback and Report on the Program

Students should be asked to give their mid-program feedback. They should be asked to write their opinions about the program at the end of the first week or so. The feedback should be used to make any mid-course correction, if any.

Finally, at the end of the program, each group (of 20 students) should be asked to prepare a single report on their experiences of the program. On the second last day, each group should present their report in front of other groups. Immediately after their presentation, they should submit their written report. This will also serve as a *closure* to the program.

Finally, a formal written or online anonymous feedback should be collected at the end of the program.

5 Schedule

The activities during the Student Induction Program would have an Initial Phase, a Regular Phase and a Closing Phase. The Initial and Closing Phases would be two days each.

5.1 Initial Phase

<i>Time</i>	<i>Activity</i>
Day 0	
<i>Whole day</i>	<i>External students arrive - Hostel allotment. (Preferably do pre-allotment)</i>
Day 1	
<i>09:00 am - 03:00 pm</i>	<i>Academic registration</i>
<i>04:00 pm - 06:00 pm</i>	Orientation - Institute/college level
Day 2	
<i>09:00 am - 10:00 am</i>	Diagnostic test (for English etc.)
<i>10:15 am - 12:25 pm</i>	Visit to respective depts.
<i>12:30 pm - 01:55 pm</i>	<i>Lunch break</i>
<i>02:00 pm - 02:55 pm</i>	Director's/Principal's address
<i>03:00 pm - 05:00 pm</i>	Interaction with parents by Director/Principal
<i>03:30 pm - 05:00 pm</i>	Mentor-mentee groups meet - Introductions of new students within group. (Same as Universal Human Values groups)

In the Orientation Program on Day 1, the Principal, Deans, and other college functionaries address and welcome the new students along with their parents. It serves to provide space for telling the new students about the college, and their academic and student life.

5.2 Regular Phase

After the first two days is the start of the Regular Phase of induction. In this phase, there would be regular sessions conducted every day.

5.2.1 Daily Schedule

Some of the activities are on a daily basis, while some others are at specified periods within the Induction Program. We first show a typical daily timetable.

Typical day (Day 3 onwards):

Sessn.	Time	Activity	Remarks
I	09:00 am - 10:55 am	Creative Arts / Universal Human Values	
II	11:00 am - 12:55 pm	Universal Human Values / Creative Arts	
	<i>01:00 pm - 02:00 pm</i>	<i>Lunch break</i>	
III	02:00 pm - 02:55 pm	Afternoon Session	See below.
IV	03:00 pm - 03:55 pm	Afternoon Session	See below.
V	04:00 pm - 05:00 pm	Games & Sports	

Sundays are off. Saturdays have the same schedule as above or have outings.

5.2.2 Afternoon Activities (Non-Daily)

The activities given below are scheduled at different times of the Induction Program, and are not held daily for everyone.

1. Familiarization with College, Dept./Branch
2. Literary activity
3. Proficiency Modules
4. Lectures & Workshops by Eminent People
5. Visits in Local Area
6. Extra-Curricular Activities in College
7. Feedback and Report on the Program

Here is the activity schedule for the afternoons and may be changed to suit local needs.

<i>Activity</i>	<i>Session</i>	<i>Remarks</i>
Familiarization with College, Dept/ Branch	III & IV	For 3 days (Day 3 to 5)
Visits in Local Area	III, IV & V	For 3 days - interspersed (e.g., 3 Saturdays)
Lectures & Workshops by Eminent People	III or IV	As scheduled - 3-5 lectures
Literary (Play / Book Reading / Lecture)	III	For 3-5 days
Proficiency Modules	IV or V	Daily, but only for those who need it
Extra-Curricular Activities in College	III & IV	During second week (for 1 or 2 days)
Feedback and Report on the Program		On second last day

Additional Daily Schedule for Hostellers

Sessn.	Time	Activity	Remarks
	<i>06:00 am</i>	<i>Wake up call</i>	
Morn	06:30 am - 07:10 am	Physical activity (mild exercise/yoga)	
	<i>07:15 am - 08:55 am</i>	<i>Bath, Breakfast, etc.</i>	
	<i>05:00 pm - 05:25 pm</i>	<i>Snacks break</i>	
	<i>05:30 pm - 08:25 pm</i>	<i>Rest and dinner break</i>	
Eve	08:30 pm - 09:25 pm	Informal interactions with faculty mentors and student guides (in hostels)	As arranged (not every day)

5.3 Closing Phase

<i>Time</i>	<i>Activity</i>
Second Last Day	
08:30 am - 12 noon	Discussions and Finalization of Presentation within each group (meeting among students only)
02:00 am - 05:00 pm	Presentation of Report by each group
Last Day	
Whole day	Tests of Creative Arts, Universal Human Values (as planned by college)

5.4 Follow Up after Closure

A question comes up as to what would be the follow up program after the formal 3-week Induction Program is over? The groups which are formed should function as mentor-mentee network. A student should feel free to approach his faculty mentor or the student guide, when facing any kind of problem, whether academic or financial or psychological etc. (For every 10 undergraduate first year students, there would be a senior student as a *student guide*, and for every 20 students (for two such 10-student groups), there would be a *faculty mentor*.) Such a group should remain for the entire 4-5 year duration of the stay of the student. Therefore, it would be good to have groups with the students as well as teachers from the same department/discipline.²

Here we list some important suggestions which have come up and which have been experimented with successfully.

5.4.1 Follow Up after Closure – Same Semester

It is suggested that the groups meet with their faculty mentors once a month, within the semester after the 3-week Induction Program is over. This should be a scheduled meeting shown in the timetable. (The groups are of course free to meet together on their own more often, for the student groups to be invited to their faculty mentor's home for dinner or tea, nature walk, etc.)

5.4.2 Follow Up – Subsequent Semesters

It is extremely important that continuity be maintained in subsequent semesters.

²We are aware that there are advantages in mixing the students from different depts. while forming groups. However, in mixing, it is our experience that the continuity of the group together with the faculty mentor does not last beyond the first semester/year. Therefore, the groups be from the same dept. so that the students would meet their mentors in the department also. For those colleges with hostels, the hostel wings for first year undergraduates should have the mixed students from different depts. For example, the hostel room allotment for the 1st year undergraduates should be in alphabetical order irrespective of department or program. This would ensure mixing of students from different departments.

It is suggested that at the start of the subsequent semesters (upto fourth semester), three days be set aside for three full days of activities related to follow up to Induction Program. The students be shown inspiring films, do collective art work, and group discussions be conducted. Subsequently, the groups should meet at least once a month.

6 Organizing the Student Induction Program

6.1 Preparing for the Conduct of the Program

Induction is a well planned process of introducing the new students to higher education, the institution, etc. Before it is conducted, it is essential to plan all the activities in advance. The following preparations are recommended:

1. Ensure full support from head of the institution and top management.
2. Joint meeting of all the partners involved (see below), in getting their participation in the process of education.
3. Constitution of Induction Committee chaired by the Director/Principal and convened by Dean/Vice Principal which will prepare detailed plan of the induction programme in consultation with the head of the institution, facilitate the conduct, monitor and coordinate the whole induction programme.
4. A hyper link on Student Induction of new students is to be created on the web-site of the institution having information about the induction, detailed schedule, provision for daily reporting, feedback, etc.
5. New students be informed that the Induction is mandatory non-credit course for which a certificate will be issued by the institution.
6. Ensure compulsory participation by the involved teachers and other partners.
7. Detailed scheduling of the activities based on the nature, size and location of the institution.
8. Preparing induction policy and charter for students stating their responsibilities.
9. Conducting a half-day workshop for partners on how to conduct student induction.
10. Appoint UHV cum Mentor Coordinator (faculty in-charge of Mentoring and Universal Human Values activity of the Program) before the Induction Program begins. His/her responsibility is to form mentor groups, ensure smooth running of the universal human values group discussions, and hold meetings of mentors periodically.
11. Appoint Departmental Nodal Mentor in each dept. The Dept. Nodal Mentors will play a crucial role in assisting the overall UHV Mentor Coordinator.

12. Training program for faculty to be conducted on how to mentor students based on universal human values, and imparting holistic education and larger vision of life. (Only those faculty members are to be mentors and are to conduct the group discussions in universal human values, who have received a certificate after going through a 3-day followed by a 7-day Faculty Development Program for Student Induction, approved by AICTE.)

Partners in Induction:

- Head of the institution
- Important functionaries
- Faculty mentors
- Students council/association
- Selected senior students (student guides)

- Selected alumni
- Civil society
- Invited distinguished people

6.2 Organizing the Daily Activities

For each of the activities below, a faculty member be given the responsibility for its organization, conduct and monitoring.

6.2.1 Physical Activity

Fitness session, yoga classes, lecture(s) on facing world with sportsman spirit, making young students aware that there is nothing like being failure in the world. The world gives opportunities to all.

The incoming students must be divided into batches of 50 students maximum, and a qualified coach in physical education should be attached to each batch. Institute may employ part time coaches for this purpose for the duration of the Induction Program.

The list of available games, sport, or physical activities should be announced on Day 1 when the new students arrive. They should be asked to fill their choice with three preferences, and the game or sport be allotted to them as per their preference. There should be sufficient number of coaches for each game/sport as per norms.

The physical activity should start from Day 3 onwards as a daily activity, wherein the student learns and plays his assigned game during the induction program. It is also important that along with his assigned game the student also practises yoga for at least 7 sessions.

Two days to be kept at the end for conducting fitness test and yoga test in groups. Students are to be given satisfactory (S) or unsatisfactory (X) grades on the mandatory non-credit activity.

6.2.2 Creative Arts

Qualified instructors for arts may be hired on contract basis and be paid honorarium as per norms of the institute. Daily 90 to 120 minute sessions may be arranged.

The list of available art forms, such as vocal music, instrumental music, folk music, painting, sketching, dance, group dance, clay modelling, pottery, dramatics, etc. should be announced on Day 1 when the new students arrive. They should be asked to fill their choice with three preferences, and the art form be allotted to them as per their preference. There should be sufficient number of teachers for each art form. The ratio may be kept as 1 teacher for every 25 students.

The last two days of the Student Induction Program be reserved for assessing the progress of students on satisfactory (S) or unsatisfactory (X) grades for completion of mandatory non-credit activity.

6.2.3 Mentoring and Universal Human Values

The UHV cum Mentor Coordinator should get the departments to nominate faculty mentors for the activity at least 3 months in advance (preferably, in April/May, before the previous even semester ends), as it will require preparation on the part of the mentors. The number of mentors to be nominated by the departments should be 1 teacher for every 20 new incoming students. Names of Dept. Nodal Mentors should be worked out as well, in consultation between the Dept. and the Mentor Coordinator.

A preparatory meeting should be held well in advance (in May itself), so that mentors come together to function as a team which will conduct the mentoring and UHV activity. Periodic meeting may be arranged for the preparation of how the sessions are to be conducted.

After one year of running of the Induction Program, senior students would become available as Student Guides (out of those who have done well in UHV group discussions and it is visible in their behaviour). These students would be selected in April/May and be given a 1-day training at the beginning of the session in July/August.

UHV groups of 20 first year undergraduate students should be constituted with at least 2 Student Guides and 1 Faculty Mentor each. The groups would be department-wise, and should be formed even before the new students arrive. For example, if Electrical Engg. has an intake of 60, there would be 3 groups of size 20 first year undergraduate students with 6 student guides and 3 faculty mentors. Each student guide should be assigned 10 students (out of the 20 students in the group).

The groups have to be populated alphabetically (or in any manner mixing the student without any bias) in a department.

The groups would be meeting everyday during the Induction Program after the first day. The first meeting kept on the 2nd or 3rd day, should have the faculty mentors as well as the student guides present where they introduce themselves to each other.

In case of UHV, a mid-term open-book take-home examination is recommended. The question paper is mailed to the students and they have to write it at home and submit. The question paper is designed to elicit the experiences of students. The mentor can discuss the answers submitted by students in a group discussion. The final examination be kept on the last day of the Induction Program, as an open question paper in which

the major part of the question paper is mailed to the students beforehand, but they have to write the answers in the exam hall. The faculty mentor's assessment that the student engaged thoughtfully in the group discussions would be paramount in awarding satisfactory or unsatisfactory to that student.

The last two days of the Student Induction Program are anyway reserved for assessing the progress of students on satisfactory (S) or unsatisfactory (X) grades for completion of the mandatory non-credit activity.

6.3 Organizing the Other Activities

For each of the activities below, a faculty member be given the responsibility for its organization, conduct and monitoring.

6.3.1 Familiarization with College, Department/Branch

The students admitted in a branch would visit their allotted department or branch. The Head of the department and other associated faculty should address the new students right on Day 2 or so. Arrangements should be made about the meeting/gathering. The parents of the students should also be welcomed if they accompany their ward.

It would be helpful if an alumnus of the Dept. relates his professional experience related to the field of the study to the incoming students. For this he/she should be contacted beforehand.

6.3.2 Literary Activity

A faculty member interested in literary activity should be assigned for organizing the activity. A list of books which are interesting and educational should be prepared beforehand. Books in Indian languages must be included and even given priority. Students are losing connection with languages in general and their own language, in particular.

Students should be assigned a book or other smaller reading material. They should be asked to read and write a critical summary. They should present their summary in front of their group. A literary group may consist of around 30-40 students.

Similarly, debating and public speaking activity could also be undertaken. If the college can arrange for a drama workshop where a group of students learn and enact a play it would be very good. Not all the incoming students would do this, but those who wish may be provided the opportunity. Help may be taken from senior students engaged in such extra curricular activities in the college.

6.3.3 Proficiency Modules

For English, a diagnostic test should be conducted on Day 2 itself. Before the test, the students should be informed that the test would not affect their grades, branch change, or any aspect of their admission, placement, study, etc. Purpose of the test is to provide help to those students who need help in English.

Students having more than 80% marks in their high school or plus 2 need not take the diagnostic test. For those below this cutoff, writing the test is mandatory. Students with

weak performance in the test, must attend a non-credit course in Basic English. Their attending the course is mandatory. There would be no separate fee payable for the course.

The classes of Basic English must start from Day 4 at the latest. A one-hour class should be conducted everyday. As the time slot would have to be found during the day time, the students doing the course would miss some of the afternoon activities. (If it is possible to conduct the course in the evening, then the students would not miss the activities during the induction program. Option may be explored.)

6.3.4 Lectures & Workshops by Eminent People

Eminent people from all walks of life may be invited to deliver lectures, namely, from industry, academia, social science (authors, historians), social work, civil society, alumni etc. be identified and invited to come and address the new students. 3 to 5 lectures may be organized during the induction program, say, about one lecture a week.

Motivational lectures about life, meditation, etc. by Ramakrishna Mission, Art of Living, S-VYASA university, Vivekanand Kendras, etc. may be organized. Workshops which rejuvenate or bring relief to students would also be welcome, such as, Art of Living workshops (3 sessions, 9 hours).

Local resource persons may be contacted for such purposes. Suitable slots in the afternoon/evening may be found suitably for the lectures and workshops.

6.3.5 Visits in Local Area

Visit to a local heritage site or a local landmark should be organized. It exposes the student to heritage or history of the place. One should try to make the trip educational and have guides who explain the history behind the place. If there is no such place nearby, alternatively, a trip to a local place of natural beauty may be organized. Another purpose such a visit serves is bonding among themselves, and also with student guides and faculty mentors, if they go with them. It is like going on a picnic.

Necessary arrangements would have to be made for arranging buses, guides, and food etc.

Besides the above, a visit may also be organized to a village, an orphanage, etc. The purpose of such a visit would be social awareness. Such a visit should be planned later on, possibly in the third week of the Induction Program.

6.3.6 Extra-Curricular Activities in College

Every college has extra-curricular activities. Most of them are student driven. They are organized by student councils and clubs. The extra-curricular activities going on in the college should be presented to the new students under the guidance of faculty advisors for such activity. The new students should be informed about how they can join the activities. Related facilities should be described to them.

Presentation on the activities by the student council should be made in the second week of the Induction Program. Note that all new students would be learning an art form as well a game, which will give a big impetus to the extra-curricular activity, in time to come.

6.3.7 Feedback and Report on the Program

Informal feedback should be sought from the students at the end of the first week. They should be asked to write their feelings and ideas, and submit in writing.

A final *formal feedback* at the end of the program should be collected from students by their filling a form in writing or online.

Besides the above, each group (of 20 students) should write a report on the Induction Program towards the end of the Program. Thus, there would be as many written reports as there are groups. They would also have to make a presentation of their report. They should be encouraged to use slides while making a presentation.

Presentation of the report should be made in the language they are comfortable with, without any insistence that it should be in English. It is more important that they feel comfortable and confident. Each group may make the presentation through 4-5 of its group members or more.

In case, the number of new students in a college is large, the presentation should be made by each group in front of 4 other groups besides their own, thus there would be about 100 students (in 5 groups) in the audience in a session. Several such sessions could run in parallel or serially.

In each session, their faculty mentors and student guides, if any, should also be in the audience. These sessions would tell you how well the program ran, and what the students are feeling at the end of the program. This would also serve as a *grand closure* to the program.

6.4 Some Important Points

The Student Induction Program is a mandatory non-credit program in the AICTE Model Curriculum 2018. Colleges have to ensure that students have completed the program satisfactorily. Attendance should be taken.

For the creative arts and universal human values components, a test should be conducted to determine that the students were able to gain from these activities. For physical education also, assessment should be done during the last few slots.

For the other activities, attendance would serve to ensure participation.

No fee should be collected from the student for the overall program or any component of the program. The expenses in running the program would have to be borne by the college.

7 Summary

Engineering institutions were set up to generate well trained manpower in engineering with a feeling of responsibility towards oneself, one's family, and country. The incoming undergraduate students are driven by their parents and society to join engineering without understanding their own interests and talents. As a result, most students fail to link up with the goals of their own institution.

The graduating student must have values as a human being, and knowledge and meta-skills related to his/her profession as an engineer and as a citizen. Most students who get

demotivated to study engineering or their branch, also lose interest in learning.

The *Induction Program* is designed to make the newly joined students feel comfortable, sensitize them towards exploring their academic interests and activities, reducing competition and making them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and building of character.

The *Universal Human Values* component, which acts as an anchor, develops awareness and sensitivity, feeling of equality, compassion and oneness, draw attention to society and nature, and character to follow through. It makes them reflect on their relationship with their families and extended family in the college (with hostel staff and others). It also connects students with each other and with teachers so that they can share any difficulty they might be facing and seek help.

8 Acknowledgement

8.1 Genesis of Induction Program

Induction Program was discussed and approved for all colleges by AICTE in March 2017. It was discussed and accepted by the Council of IITs for all IITs in August 2016.

It was originally proposed by a Committee of IIT Directors and accepted at the meeting of all IIT Directors in March 2016. A Committee of IIT Directors was setup in the 152nd Meeting of IIT Directors on 6th September 2015 at IIT Patna, on how to motivate undergraduate students at IITs towards studies, and to develop verbal ability. The Committee submitted its report on 19th January 2016. It was considered at the 153rd Meeting of all IIT Directors at IIT Mandi on 26 March 2016, and the accepted report came out on 31 March 2016. The Induction Program was an important recommendation, and its pilot was implemented by three IITs, namely, IIT(BHU), IIT Mandi and IIT Patna in July 2016.

At the 50th meeting of the Council of IITs on 23 August 2016, recommendation on the Induction Program and the report of its pilot implementation were discussed and the program was accepted for all IITs.

This guide has been prepared based on the Report of the Committee of IIT Directors and the experience gained through its pilot implementation in July 2016 as accepted by the Council of IITs. Purpose of this document is to help institutions in understanding the spirit of the accepted Induction Program and implementing it.

8.2 Design of Induction Program

Induction Program as described here borrows from three programs running earlier at different institutions:

- Foundation Program running at IIT Gandhinagar since July 2011,
- Human Values course running at IIIT Hyderabad since July 2005, and
- Mentor-mentee network at several colleges, and in some, for many decades.

Contribution of each one is described next.

1. IIT Gandhinagar was the first IIT to recognize and implement a special 5-week Foundation Program for the incoming 1st year UG students. It took a bold step that the normal classes would start only after the five week period. It involved activities such as games, art, etc., and also science and other creative workshops and lectures by resource persons from outside.
2. IIIT Hyderabad was the first one to implement a compulsory course on Human Values. Under it, classes were held by faculty through discussions in small groups of students, rather than in lecture mode. Moreover, faculty from all departments got involved in conducting the group discussions under the course. The content is non-sectarian, and the mode is dialogical rather than sermonising or lecturing. Faculty were trained beforehand, to conduct these discussions and to guide students on issues of life.
3. Many institutes setup mentor-mentee network under which 1st year students are divided into small groups, each assigned to a senior student as a student guide, and to a faculty member as a mentor. Thus, a new student may go to a faculty member or a senior student, in case of any difficulty whether social, psychological, financial, academic, or otherwise.

The Induction Program defined here amalgamates all the three into an integrated whole, which leads to its high effectiveness in terms of building physical activity, creativity, bonding, and character. It develops sensitivity towards self and one's relationships, builds awareness about others and society beyond the individual, and also in bonding with their own batch-mates and a senior student besides a faculty member.

Scaling up the above amalgamation to an intake batch of 1000 plus students was done at IIT(BHU), Varanasi starting from July 2016.

8.3 Universal Human Values and Scaling Up

The Universal Human Values course is a result of a long series of experiments at educational institutes starting from IIT Delhi and IIT Kanpur in the 1980s and 1990s as an elective course, and in NIT Raipur in early 2000s as a compulsory one week off-campus program. At IIIT Hyderabad, two regular compulsory courses were introduced in July 2005 for all BTech students. The courses at IIT(BHU) which started from July 2014, are taken and developed from IIIT Hyderabad. (A shorter version of UHV has also been included at IIT Mandi, IIT Patna, IIT Kharagpur etc. as a part of their induction program.)

Multiplication of the Universal Human Values compulsory course took place when Abdul Kalam Technical University (AKTU), Lucknow, taking the cue from IIIT Hyderabad, adopted it in July 2009 for about 600 engineering colleges. It spread to Punjab through the Punjab Technical University (PTU), Kapurthala in July 2011 for about 300 engineering colleges. Similar compulsory course was started in Andhra Pradesh and Telangana, but this time for BSc, BA and BCom students, in July 2013 for about 1000 Government and Aided Colleges, and later in July 2015 for additional 2000 private colleges. It has also gone to many unitary institutions.

8.4 Faculty Development Program for Student Induction (FDP-SI)

After AICTE decide to accept the Student Induction Program in March 2017 for engineering colleges, a shorter one week version was run in colleges/universities under TEQIP-III starting

from Oct. 2017. To train the faculty of 180 TEQIP-III institutions, 3-day Faculty Development Programs for Student Induction (FDP-SI) (earlier named as Teachers Training Workshop or TTW) were run from August 2017 to December 2017. This pilot run provided valuable feedback in the design of 3-day and 7-day FDP-SI.

Such training programs were earlier tested at the universities AKTU, PTU and at Andhra Pradesh and Telangana, with hundreds of affiliated colleges.

Such FDP-SI are running all over the country starting from May 2018 to train the faculty members from engineering colleges to do mentoring for new undergraduate students and conduct classes (group discussions) for Universal Human Values.

9 References

Motivating UG Students Towards Studies,

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