ISTE REPORT
2019- 2020

ABOUT ISTE

The Indian Society for Technical Education is a national, professional, non-profit making Society registered under the Societies Registration Act of 1860. First started in 1941 as the Association of Principals of Technical Institutions (APTI), it was converted into "Indian Society for Technical Education" in 1968 with a view to enlarge its activities to advance the cause of technological education .The major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organisations. Being the only national organisation of educators in the field of Engineering and Technology, ISTE effectively contributes in various missions of the Union Government.

The ISTE at GRIET was started in the year 2004. The faculty, students andmanagement of GRIET took keen interest in establishing ISTE student chapter, GRIET. ISTE has been very active in promoting the ideals for which it was embarked. ISTE conducts various co-curricular activities which redress with the changing curriculum and educational processes. It has always tried to improve students' technical prowess, and bolster them to put their learning into practice. Every event organized brings opportunities for students to compete with their coevals in healthy spirit and become adept in what they are learning, helping them in accomplishing the ultimate goals of their lives.

MISSION

ISTE inspires educators worldwide to use technology to innovate teaching and learning, accelerate good practice and solve tough problems in education by providing community, knowledge and the ISTE standards, a framework for rethinking education and empowering learners

VISION

ISTE's vision is that all educators are empowered to harness technology to accelerate innovation in teaching and learning, and inspire learners to reach their greatest potential.

OBJECTIVES

- To formulate the general goals & responsibilities of technical education.
- To adjust curriculum & educational processes to changing conditions.
- To develop effective teachers & educational administrators.
- To improve instructional methods & practices.
- To enhance professional ideals & standards.
- To foster research as a function complementary to teaching.
- To cultivate fraternal spirit amongst the teachers, administrators, industrialists & professionals.
- To bring about effective linkage between technical institutions industry & society.

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INDIAN SOCIETY FOR TECHNICAL EDUCATION

FOUNDED 1968

Devoted to Promotion of Quality and Standards in Technical Education

This is to certify that
the Executive Council has approved the formation of an

ISTE STUDENTS CHAPTER

at

Gokaraju Rangaraju Institute of Engg. & Technology
Hyderabad

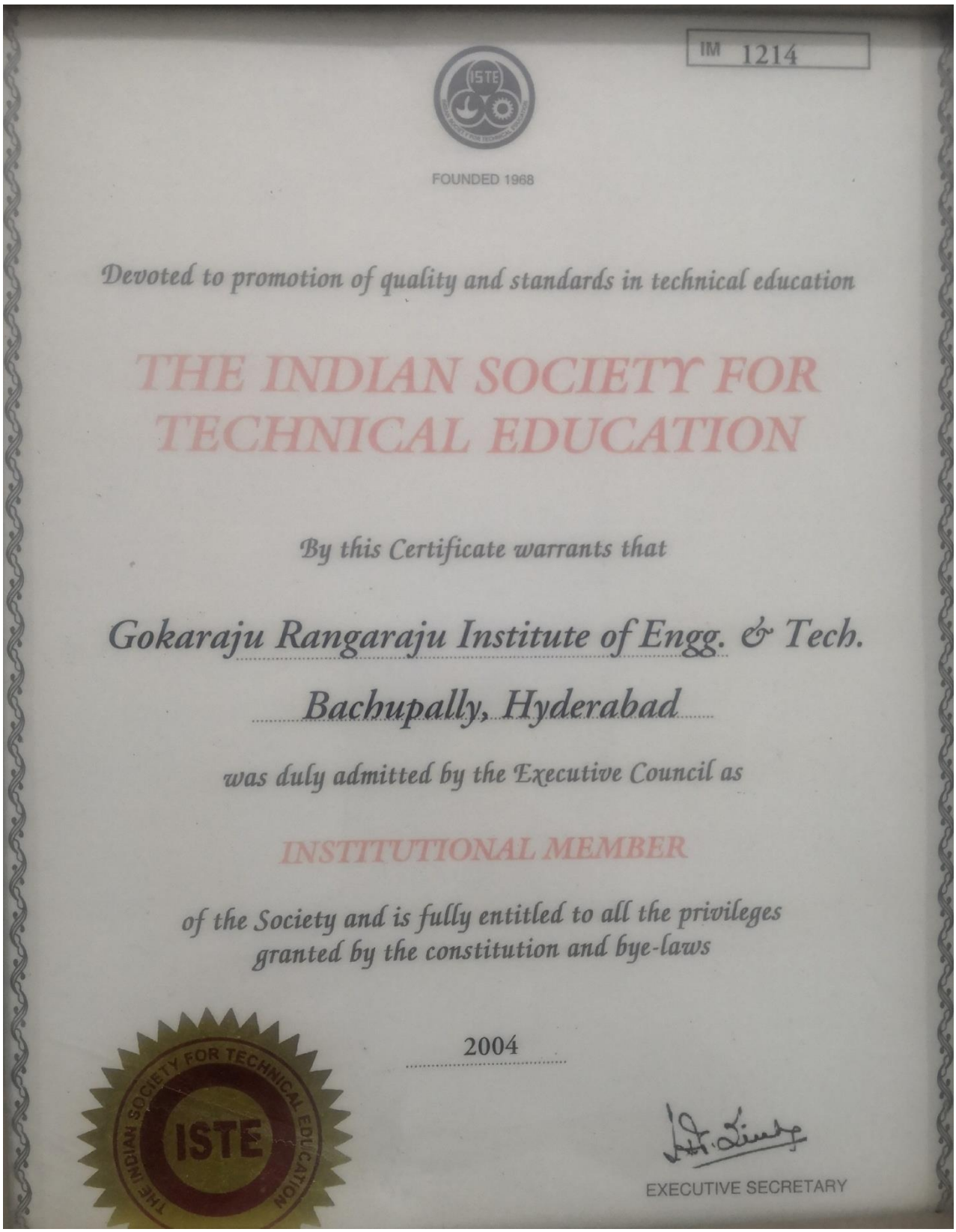
with all privileges granted by the Constitution of
the Society

2004

Indian Society for Technical Education
New Mehrauli Road
New Delhi

Executive Secretary, ISTE

ISTE STUDENT CHAPTER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FOUNDED 1968

Devoted to promotion of quality and standards in technical education

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION

By this Certificate warrants that

Gokaraju Rangaraju Institute of Engg. & Tech.

Bachupally, Hyderabad

was duly admitted by the Executive Council as

INSTITUTIONAL MEMBER

of the Society and is fully entitled to all the privileges granted by the constitution and bye-laws

2004

THE INDIAN SOCIETY FOR TECHNICAL EDUCATION ISTE

EXECUTIVE SECRETARY

ISTE INSTITUTIONAL MEMB

Sno	Date		Event Name	Event Description	Page No
	From	To	ISTE TEAM	The team and their positions	
1	13-06-2019	13-06-2019	Airshow	Air Force Academy which included march-past	1-2
2	29-06-2019	29-06-2019	Work-Life Balance	A lecture on how to balance work and life stress by Dr.Swathi	3-4
3	20-07-2019	20-07-2019	Zenith	An offline event which focused on participant's technical knowledge of their core subjects	5-7
4	18-09-2019	18-09-2019	Passport Seva conduct program	To provide the students of 3rd, 4th Years and staff an opportunity of application of a new passport or renewal of the passport	8
5	25-09-2019	26-09-2019	Industrial Visit to SEBI	To explain the role of capital market were taken	9-11
6	16-10-2019	16-10-2019	Industrial visit to NRSC Balanagar	NRSC was conducting a Vikram Sarabhai centenary program which included space related academic and research programs	12-15
7	19-12-2019	19-12-2019	Combined Graduation Parade (CGP)	Air Force Academy which included march-past	16-17
8	25-02-2020	25-02-2020	Tech Talk on "IOT and LoRa"	A technical talk on "IOT and LoRa" by Prof.A.Radhanand	18-19
9	25-02-2020	25-02-2020	ISTE Gathering	The senior ISTE team were granted Letter of Appreciation, which included their post and their dedication towards ISTE.	20-22
10	14-04-2020	21-04-2020	App Rush Challenge	App rush is a event where useful applications are posted online.	23-24
11	30-04-2020	30-04-2020	NLP WEBINAR	A webinar on "NLP" by Dileep Kumar	25-26
12	2019	2019	ISTE closing Budget		

AIRSHOW

Date : 13th June 2019
Time : 8:00 A.M-11:00 A.M
Venue: Air Force Academy, Medak- Hyderabad Road,Dundigal,Telangana-500043

The Indian Society For Technical Education (ISTE) student body of GRIET has organized a trip to the "Airshow" held at Air Force Academy(IAF), Dundigal on 13th June 2019. Air Force Academy is Indian Air Force's premium and prestigious officers training establishment and the **Combined Graduation Parade (CGP)** marks the graduation of the young cadets intowell-groomed commissioned officers of the Indian Air Force. The event showcases immaculate drill movements by cadets in the parade, precision coordination and the breathtaking performance by the AirForce dare devils and Air Warrior Drill Team.

Our college is much delighted to receive the invitation from this prestigious academy and ISTE GRIET SB took this as an opportunity to thank MELA 2K19 organizers and volunteers and let them be a part of this fascinating event.

The Airshow included a colorful march-past on the ground and amazing aerobaticsin the air by various aircraft of Indian Air Force here to mark the combined graduation parade of 152 flight cadets as Flying Officers of the Indian Air Force. A total of 152 flight cadets, including 24 women, graduated as Flying Officers to join the elite cadre of the Indian Air Force.

The stimulating occasion was witnessed by the family members and friends of passing-out cadets, as well as senior serving and retired Officers from the services. Many schools and other educational institutions were also present to glimpse the Airshow. The flying officers' march-past was prominent showcasing various formations. The high point of the parade was the 'pipping ceremony' during which the graduating flight cadets were awarded with their 'Stripes' by the reviewing officer. After the 'pipping ceremony,' the Reviewing Officer gave away various awards to the Flying Officers who had excelled in training.

The spectators were delighted to witness the magnificent parade and were amazed by the spectacular movements of "Air Warrior Drill team". They were enthralled by the breathtaking aerobatic display by 'Sarang', the helicopter aerobatic team of IAF, 'Suryakiran' team and PC 7 aircraft, which was the pinnacle of the experience.

The "Airshow" - a captivating experience, an opportunity for us to perceive the dedication and effort of the aviation officers in our country and thereby acquire inspiration. The Air Show was attended by 50 students.

Fig:- Photographs of the event

Work – Life Balance session by
Dr.P.Swathi

Date : 29th June 2019
Time : 11:00 A.M-12:30 P.M

The session started with the introduction of speaker, Dr.P. Swathi, department of Psychology, Osmania University. Madam started the session by interacting with the faculty and asked few reasons for the stress caused to them. DR.P. Swathi quoted that "the only person without stress is the dead person" by Hans Selye (father of stress research), and she also gave few examples where we stress so much. DR.P. Swathi made the session very easy to understand and also tried to interact with everyone. DR.P. Swathi then classified different types of stresses which are acute, chronic, distress, eustress. She then explained about distress and eustress with lively examples which we face every day. DR.P. Swathi, then discussed about the stages of stress which are alarm stage, resistance stage, exhaustion stage briefly. She later gave a classification on types of stressors such as external and internal stressors. The main reasons for external stressors are physical environment, social interaction, organizational, daily life events, daily hassles. And also few reasons for internal stressors are lifestyle choices, negative self-talk, mind traps, self traits. Madam then explained ABC strategy for stress buster which is A=Awareness, B=Balance, C=Control. Mam discussed about how to apply this ABC strategy in daily life to reduce stress.

Madam then discussed about stress reduction methods such as meditation, proper nutrition, exercise, time management. She said that there two ways of coping which are problem focused coping mechanism and emotion focused coping mechanism and stated a quote of Jason Satterfield "the best copper is the individual who knows when to us what type of coping. Dr.P. Swathi approached the next topic which is work-life balance.

She first explained work definition which goes as work means employment and life is one' s personal lives, experiences and responsibilities. Work–life balance refers to proper prioritizing between & quot; work & quot ; (career and ambition)and & quot; lifestyle " (health, leisure, family social and spiritual development).She also said that a good balance between work and home life is when you do not go home worried about work and when you do not go to work worried about home.She then asked the audience to take a small quiz and helped the faculty to assess their work-life stresses and sheexplained the necessity to know about the things which cause stress inorder to overcome them. Dr.P.Swathi also stated the reasons for imbalances which arecompetition, individual career ambition, longer working hours and many other reasons.

She also said that stress leads to physical and mental imbalances. With a few warning signs of over stress, she explained that stress can cause dizziness, insomnia, heart pounding, shortness of breath, dry mouth. And mentally wemay have depression, anxiety, nervousness, suspicious, bored and unable to concentrate.She then explained strategies for work life balance such as don't lose the sight of priorities, don't be afraid to say no,schedule time for yourself, count your hats, take time for health, family and friends, stop being a workaholic. Madam then concluded the session with a quote of Albert Einstein which says life is like riding a bicycle, to keep your balance you must keep

moving. We then had an interaction session where faculty posed their queries to Dr.P.Swathi, she explained them with huge interest and enthusiasm.

Dr.Y.Butchi Raju Sir expressed his gratitude and thanked Dr.P.Swathi for delivering an excellent lecture and thanked ISTE faculty coordinator A. Vinay Kumar Sir and teammembers. Then our Director Dr.Jandhyala Narayana MurthySir and our Principal Dr.J.Praveen Sir handed token ofgratitude to Dr.P.Swathi. This session was attended by 100 faculty members.

Fig:-Photographs of the event

ZENITH

Date : 20th July 2019
Time : 11:30 A.M-4:00 P.M

The event Zenith was a technical event which focused on participant's technical knowledge of their core subjects and also tested participant's logical, reasoning and aptitude. The event was divided in three rounds. The first round focused on three levels of difficulty questions. The second round dealt with Logic gates and in the third round team work, competitive skills and aptitude was focused.

The event started with segregating participants of CSE/IT and ECE/EEE on two different panels. Each team consisted of two players.

The first round named as 'TECH-BOUNCE'. in this round,balls of three different colors which are green, red, black will be put in a box. The teams will start out with an account of 50 points. The participants chose a ball in each round. The color of the ball decided the difficulty and worth of the question to be solved, with Green being the easiest to black being toughest. Green question holds 5 points, Red holds 10 and Black 15 points. Green question had options while the other colors don't. If the question was answered, the worth was added to their accounts else deducted from the initial account of points. There will be 3 rounds altogether. The points at the end of 3 rounds were marked and the teams to pass the threshold mark of 20 qualify to the next round.

CSE/IT and ECE/EEE branches played separately with their questionnaires being related to their departments respectively.

CSE/IT were asked questions based on keys in DBMS, time complexity of algorithms, C++ basic concepts.

ECE/EEE were asked questions on rectifiers, resistors, capacitors, circuits, color coding etc. The points were noted and the top 12 teams were selected. The resources used where15 balls (5 of each color), A4 Sheets, projector and pens.

The second round named as 'LOGIC GATE'. In this round, a dice and a coin were given to each team. Every dice face was associated with a logic gate and every coin had head as 1 and tail 0. Then the dice was to be thrown thrice so we get three gates and coin 4 times so that 4 input we get. The third gate's inputs were determined by the 4 inputs (coin) in essence the 1st input of 1st gate and the 2nd input of the 2nd gate were the two inputs for the 3rd gate. Using the logic gates with the inputs they had to arrange the gates in such a way that we get the 1st input of 2nd gate as the final output. Each team is given 5 min. The team will be eliminated according to their performances.Thetop 8 teams were selected. The resources used weredices (5), coins(5), A4 sheets and pens.

The third round named as 'ALL ON BOARD'. In this round the participants were regrouped into teams of 4 members.

Each team was given a different topic of aptitude and were given 5 minutes of time to prepare a question. The question was prepared in such a way that it is not answerable by any other teams. The answering team was given 3 minutes to answer. The team who answered the question correctly, the answering team got the Vito power of eliminating a member from the questioning team. If they answer is wrong, the questioning team eliminated a member from the answering team. If no teams answered the question, then the questioning team had the power to choose a

team and eliminate a member. Then the chance was passed onto the next team to pose a question. After the given time, the question cannot be edited. The game continued until each team posed 3 questions.

The team with the maximum members, wins the game but at last there were two teams with same maximum members so they were asked to answer technical questions. The team who answered first won the game. The resources used were A4 Sheets and pens.

The winning team will be given Merit Certificate and free Industrial trip from ISTE Team.

The registration fee was Rs.40 for ISTE members (team of 2) and Rs.60 for Non-ISTE members (team of 2).

Pictures of the event:-

Fig:-Participants indulged in the event

Fig:-Participants preparing questions

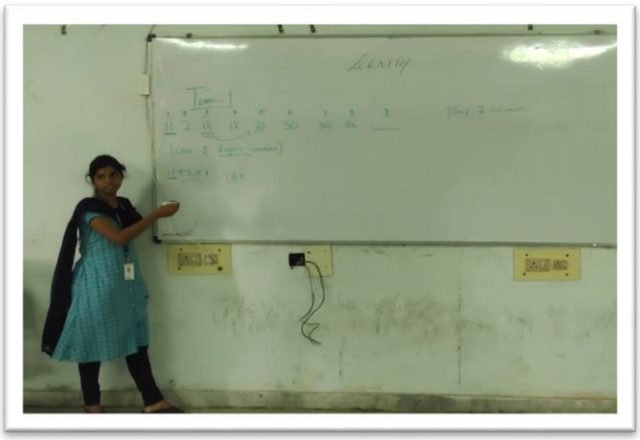

Fig:- Participant explaining answers in round 3

Fig:- Winners and Runner ups

Fig:- ISTE Team with the winners and runner ups of the event

Passport Seva Student Connect Program

Date : 18th September 2019
Time :10:00 A.M-4:00 A.M

The Indian Society For Technical Education(ISTE) of GRIETconducted the event of Passport Seva Student Connect Program on18th September 2019 in association With Tata ConsultancyServices(TCS) in order to provide the students of 3rd, 4th Years and staffan opportunity of application of a new passport or renewal of thepassport and also enable awareness of thepassport applicationprocess.

The event was handled by the initiative of TCS team with thesupport of GRIET faculty. The event started at 9:00 am where the earlysession of the event dealt with explaining students the process ofonline application. Then the students were seated according tobranches for theprocess of Documents Verification. The team of ISTEhas organized six counters with respect to individual branches to enablethe procedure for all branch students. Each counter had been presidedover by a member of the TCS team, respective branch faculty co-ordinator with the aid of ISTE Core committee member. Further fewvolunteers from various branches were designated to the course ofevent during managing the massive influx of students. The studentswere initially notified to bring the necessary documents for the verification procedure – aadhar card, 10th standard memorandum,Custodian, Pan card. The procedure continued until 4PM.

The Passport Seva Student Connect program was an initiative drivethat was organized with the intention to minimize brokerage duringproceedings at the passport office. It was a drive that has proven to bebeneficial for both the students and faculty as well. ISTE Team is glad tohave administered such an initiative and to witness many studentsutilize this possibility.

Fig : Photograph of the event

Industrial visit to SEBI

Date: 25th and 26th September 2019
Time: 9:00AM – 2:00 PM

ISTE GRIET SB has organised an industrial visit to SEBI (Securities and exchange board of India) where the interested students to learn about SEBI and its role as a regulator of capital market were taken. A presentation to impart basic understanding regarding security market was set up and the students were indulged in the discussion. The speakers very well explained us about the objectives, functions and powers of SEBI. Securities and Exchange Board of India (SEBI) is a statutory regulatory body entrusted with the responsibility to regulate the Indian capital markets. It monitors and regulates the securities market and protects the interests of the investors by enforcing certain rules and regulations. The objective of SEBI is to ensure that the Indian capital market works in a systematic manner and provide investors with a transparent environment for their investment.

SEBI caters to the needs of three parties operating in the Indian Capital Market.

- Issuers of the Securities: Companies that issue securities are listed on the stock exchange. They issue shares to raise funds. SEBI ensures that the issuance of Initial Public Offerings (IPOs) and Follow-up Public Offers (FPOs) can take place in a healthy and transparent way.
- Protects the Interests of Traders & Investors: It is a fact that the capital markets are functioning just because the traders exist. SEBI is responsible for safeguarding their interests and ensuring that the investors do not become victims of any stock market fraud or manipulation.
- Financial Intermediaries: SEBI acts as a mediator in the stock market to ensure that all the market transactions take place in a secure and smooth manner. It monitors every activity of the financial intermediaries, such as broker, sub-broker, NBFCs, etc

Securities and Exchange Board of India has the following three powers:

Quasi-Judicial: With this authority, SEBI can conduct hearings and pass ruling judgements in cases of unethical and fraudulent trade practices. This ensures transparency, fairness, accountability and reliability in the capital market. SEBI PACL case is an example of this power.

Quasi-Legislative: Powers under this segment allow SEBI to draft rules and regulations for the protection of the interests of the investor. One such regulation is SEBI LODR (Listing Obligation and Disclosure Requirements).

Quasi-Executive: SEBI is authorised to file a case against anyone who violates its rules and regulation. It is empowered to inspect account books and other documents as well if it finds traces of any suspicious activity.

The students were also told about the certification courses offered by SEBI. The School for Certification of Intermediaries (SCI) at NISM is engaged in developing certification examinations for professionals employed in various segments of the Indian securities markets. These examinations are being developed by NISM as mandated under SEBI (Certification of Associated Persons in the Securities Markets). Any student irrespective of the branch and course is eligible to write the certification exams.

Students who were having doubts regarding this got it clarified by the speakers. Overall,the session was interactive and very informative.

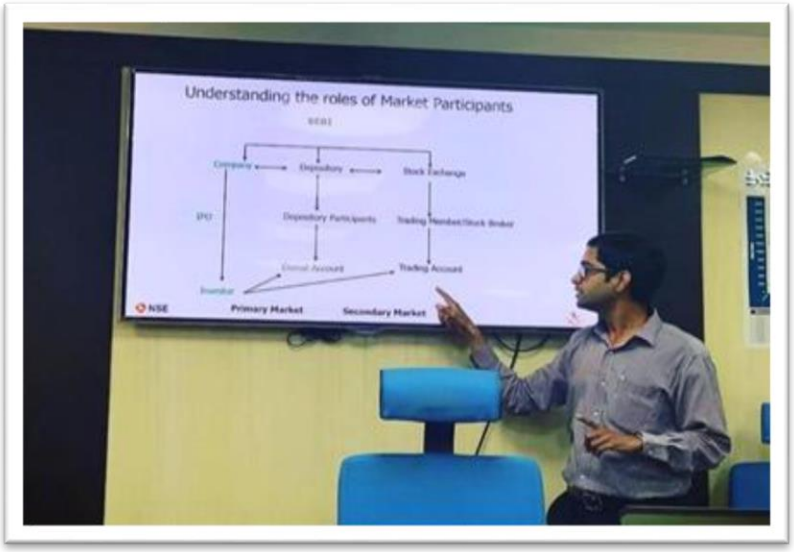

Fig 1: The speaker explaining about stocks

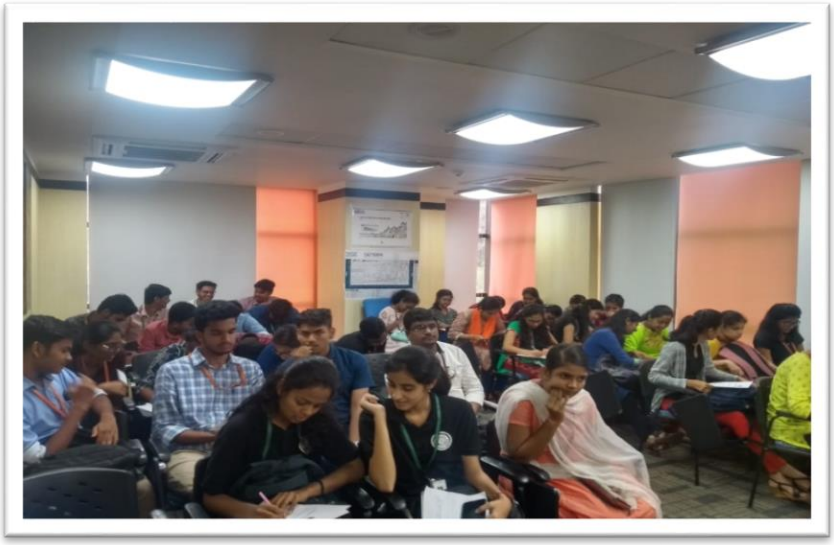

Fig 2: The students indulged in the session

Fig 3: ISTE team with the students

Industrial visit to NRSC,Balanagar

Date : 16th October 2019
Time : 9:00AM – 1:00 PM

ISTE GRIET SB has organised an industrial visit to NRSC Balanagar. ISRO has planned for a yearlong programme for commemorating the birth centenary of its founder father Dr. Vikram A Sarabhai and a programme named Vikram Sarabhai Centenary Programme was held at NRSC Balanagar. The programme includes exhibitions, competitions to school children, journalism awards and speeches by eminent personalities. The two-hour inaugural programme also comprised of several events, including the unveiling of a commemorative coin as well as the inauguration of a 'Space on Wheels' exhibition inside a bus.

Fig 1: NRSC

NRSC is responsible for remote sensing satellite data acquisition and processing, data dissemination, aerial remote sensing and decision support for disaster management. NRSC has a data reception station for acquiring data from Indian remote sensing satellites as well as others. This also has the mandate for establishment of ground stations for receiving satellite data, generation of data products, dissemination to the users, development of techniques for remote sensing applications including disaster management support, geospatial services for good governance and capacity building for professionals, faculty and students.

Fig 2: Data Acquisition

NRSC Ground station acquires Earth Observation data from Indian remote-sensing satellites as

well as from different foreign satellites. NRSC is also engaged in executing remote sensing application projects in collaboration with the users. The Aerial Services and Digital Mapping (ASDM) Area provides end-to-end Aerial Remote Sensing services and value-added solutions for various large scale applications like aerial photography and digital mapping, infrastructure planning, scanner surveys, aeromagnetic surveys, large scale base map, topographic and cadastral level mapping, etc.

Regional Remote Sensing Centres (RRSCs) support various remote sensing tasks specific to their regions as well as at the national level. RRSCs are carrying out application projects encompassing all the fields of natural resources. RRSCs are also, involved in software development, customisation and packaging specific to user requirements and conducting regular training programmes for users in geo-spatial technology, particularly digital image processing and Geographical Information System (GIS) applications.

Satellites:

The exhibition also included the information of the satellites launched by ISRO.ISRO has also launched a set of experimental geostationary satellites known as the GSAT series. Kalpana-1, ISRO's first dedicated meteorological satellite, was launched on a Polar Satellite Launch Vehicle .ISRO also launched the Indo-French satellite SARAL on 25 February 2013. SARAL (or "Satellite with ARgos and AltiKa") is a cooperative altimetry technology mission. It is being used for monitoring the oceans' surface and sea levels. AltiKa measures ocean surface topography with an accuracy of 8 mm, against 2.5 cm on average using altimeters, and with a spatial resolution of 2 km.

Fig 3: Satellite Launch

Seven wonders of universe:

- Pulsars: Cosmic clocks
- Black holes
- Gravitational lens
- Cosmic Microwave background radiation
- Gamma ray bursts
- Quasars
- Dark matter

Nuclear Fuel Complex:

The **Nuclear Fuel Complex** (NFC) was established in 1971 as a major industrial unit of India's Department of Atomic Energy, as a nuclear power plant also specializing in supply of nuclear fuel bundles and reactor core components. It is a unique facility where natural and enriched uranium fuel, zirconium alloy cladding and reactor core components are manufactured under one roof. NFC products are supplied to the Department of Atomic Energy, the Indian Navy, Hindustan Aeronautics Limited and other defence organisations, as well as chemical, fertiliser, and ball bearing industries. NFC is planning to establish two major fuel fabrication facilities to meet the expected jump in nuclear power production.

Fig 4: NFC

Fig 5: Photographs of the Visit

Combined Graduation Parade (CGP)

Date: 19th December 2019
Time: 8:00 A.M-11:00 A.M
Venue: Air Force Academy, Medak- Hyderabad Road, Dundigal, Telangana-500043

The Indian Society For Technical Education**(ISTE**) student body of GRIET has organized a trip to the "**Airshow**" held at AirForce Academy(**IAF**), Dundigal on **19th December, 2019**. Interested 2nd and 3rd year students from all departments along with M.Tech students were taken to the airshow.

The Airshow included a colourful march-past on the ground and amazing aerobatics in the air by various aircraft of Indian Air Force here to mark the combined graduation parade of **152** flight cadets as Flying Officers of the Indian Air Force. A total of 152 flight cadets, including 24 women, graduated as Flying Officers to join the elite cadre of the Indian Air Force.

The stimulating occasion was witnessed by the family members and friends of passing-out cadets, as well as senior serving and retired Officers from the services. Many schools and other educational institutions were also present to glimpse the Airshow.

The flying officers' march-past was prominent showcasing various formations. The high point of the parade was the 'pipping ceremony' during which the graduating flight cadets were awarded with their 'Stripes' by the reviewing officer. After the 'pipping ceremony,' the Reviewing Officer gave away various awards to the Flying Officers who had excelled in training.

The spectators were delighted to witness the magnificent parade and were amazed by the spectacular movements of "Air Warrior Drill team". They were enthralled by the breathtaking aerobatic display by 'Sarang', the helicopter aerobatic team of IAF, 'Suryakiran' team and PC 7 aircraft, which was the pinnacle of the experience.

The "Airshow"a captivating experience, an opportunity for us to perceive the dedication and effort of the aviation officers in our country and thereby acquire inspiration. The Air Show was attended by 26 students and 3 faculty members.

Fig 1: Students attending the Parade

Tech Talk

Date: 25th February 2020
Time: 10:30 AM-11:30 AM

The Indian Society For Technical Education (**ISTE**) of GRIET conducted a technical talk on "IOT and LoRa" by Prof.A.Radhanand, of Electronics and Communication Department on **25th February 2020** in order to enlighten the students of **3rd, 4th Years and staff** in the fields of IOT and LORa which are the trending technologies used in the fields of electronics and computers which have vast application and reduce human power.

The event started with introduction of Speaker A. Radhanand. The session started at 10:30 AM which was attended by students and also faculty of Electrical and Electronics Engineering Department. Sir started the talk by telling the importance of Internet of things. **IoT is a network in which all physical objects are connected to the internet through network devices or routers and exchange data**. It allows objects to be controlled remotely across existing network infrastructure. He mentioned that it is a good and intelligent technique which reduces human effort as well as easy access to physical devices. This technique also has autonomous control feature by which any device can control without any human interaction. He then explained about **LoRa, short for long range which is a spread spectrum modulation technique derived from chirp spread spectrum (CSS) technology**. These devices and wireless radio frequency technology is a long range, low power wireless platform that has become the de facto technology for Internet of Things networks worldwide.

Sir explained that LoRa range is 7 to 20 square feet and is available in frequencies of 433, 868 and 915 MHz. Ra02 433 is the module used for LoRa and this module and microcontroller can be interfaced in slave master configuration in which microcontroller acts as master and LoRa acts as Slave. Sir explained that a gateway acts as medium between LoRa and Wi-Fi, Heltech is one such gateway. The application of LoRa is we can push data into cloud in IOT based systems. Arduino IDE has in built libraries of LoRa and we mut know the security key and URL. The advantage of LoRa over other platforms is that it consumes less power, has long range and more battery power.

We then had an interaction session where students posed their queries to Radhanand Sir, he explained them with huge interest and enthusiasm. He also showed his project which is prepared using IOT and LoRa technology. This project was about smart soil sensor of GRIET. Dr.J.Sridevi, Head of the Department, EEE Department expressed her gratitude and thanked A.Radhanand for delivering an excellent lecture and also thanked ISTE faculty coordinator A. Vinay Kumar Sir and team members. Then our Director Dr.Jandhyala Narayana Murthy Sir and our Head of the Department Dr.J.Sridevi madam handed token of gratitude to Prof.A.Radhanand.

Fig 1: Students and faculty indulged in the talk.

Fig 2: Students interacting with Sir and presenting Sir with token of gratitude.

ISTE Gathering

Date: 25th February 2020
Time: 11:30 AM-1:00 PM

The Indian Society For Technical Education (**ISTE**) of GRIET conducted ISTE Gathering on **25th February 2020** to recognize their distinguished contribution to ISTE student body. They were granted Letter of Appreciation which included their post and their dedication towards ISTE.

The event started with the introduction speech by our faculty co-ordinator A, Vinay kumar Sir. Sir told about the start of ISTE, which included Mission, Vision and Objectives of ISTE. The events conducted by ISTE in each term were categorized. The main events conducted by ISTE on large scale were highlighted like MELA, the flagship event of ISTE. Code Auction was conducted three times and was always successful. Students were taken to Air Show Academy, NRSC ISRO which provided students with immense knowledge about the space. ISTE Team also conducted Passport Seva - Conduct Program which provided opportunity to students and staff about the application and renewal of passport. Sir also spoke about the diagnosis test ISTE meet made using Python and Data Science under the guidance of Y.Buchiraju, Department of Psychology, GCC. Sir then told about the future events which are Project Expo and Collab Learn which will guide students to prepare more projects. The Awards given to our Prinicpal, Dr.J.Praveen Sir and our Director Dr.Jandhyala Narayana Murthy Sir was highlighted and also the award for the best student was given by ISTE TS SECTION. Then Dr.J.Sridevi, Head of the Department, EEE congratulated the senior team for their works and also motivated the new junior team to be committed to the team and work with enthusiasm.

Buchiraju Sir thanked the whole ISTE Team as the diagnosis test was done successfully with perfection and so the Junior team were provided with certificates and rewarded with a cash prize of Rs.1000 by our Director Dr.Jandhyala Narayana Murthy Sir, our Head of the Department Dr.J.Sridevi madam, our faculty-coordinator A.Vinay Kumar Sir and Buchiraju Sir. Then our director Dr.Jandhyala Narayana Murthy Sir gave his precious ideas to the new team. He instructed was to conduct guest lectures and Industrial Visits every month which will educate the students. He told that every department students of same boy and girl ratio should be a part of ISTE which will strength it and become a professional student body of all departments. He advised us to conduct project expo which would be a competition for best mini and major projects which would be sponsored by Sir.

The letter of Appreciation was provided to the ISTE TEAM indiviually by our Director Dr.Jandhyala Narayana Murthy Sir, our Head of the Department Dr.J.Sridevi madam, our faculty-coordinator A.Vinay Kumar Sir.

Fig 1: The speeches by the professors

Fig 2: ISTE TEAM awarded by Letter of Appreciation

APP RUSH CHALLENGE

Date: 14th April 2020

The Indian Society For Technical Education (**ISTE**) of GRIET conducted App Rush event which started on 14th April. The country has been locked down from 23rd March 2020 to not get in contact with the Corona Virus which has been spreading all over the world. The lockdown has been extended till 3rd May 2020 to continue social distancing.

The lockdown has given students an opportunity to do something creative or learn new hobbies or any core subject. The students are using the same applications which are Instagram, Whatsapp, Facebook and Youtube. Students spend most of their time using these apps and there is nothing effective to learn.

ISTE Team came up with an idea of App Rush where every day two videos are uploaded on the Instagram account of ISTEGRIET. These videos are made by the ISTE Team which included a new app discovered by us. These apps were consists of different learning things and also related different hobbies. The application discovered are **"Solo Learn"** by **Thalla Rohith**, this app helps to learn new programming languages, web development languages. It also consists of coding challenges and a platform where doubts related to code are solved.

The **"Beaker"** application by A.Chandra Mouli, this application is a fun app where different chemicals can be mixed by turning the phone. **"Any Books"** by Pratyusha this application consists of many numbers of books which are of different genres. Few books can be free and few should be bought. The application **"LibriVox"** by Santosh Sanjeev this is also a books apps. This application has an advantage that the book is present in both audio and book document. **"Medium"** by Sri Lakshmi Vardini, this consists of smart stories and ideas. People can write different stories which can inspire many people.

"Daily petrol diesel price update in India" by Rohit Sai, this application is one stop for daily fuel price update in India. An application **"stuMagz"** by Sri Lakshmi Vardini, it is a student privilege program app which helps to discover student offers, interships and events. **"Quizup"** by Vineet Singh is an application that is fun, addictive, challenging, online trivia, that has the best of two worlds. There are many different topics present in the app on which the quizzes are made**. "My Fitness Pal"** by Savitha Salunke, this applicaton is used to follow workouts and proper diet for a health.

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“Justin Guitar” by Siddanth Agarwal, this is an ultimate guitar app to get started and learn how to play, whether you are picking up the guitar for the first time or have been playing for a while. **“Compiler”** by Sreeja is an application to compile and run the programs for C, Java, C++, MySQL and many more languages.

These are the applications discovered by the ISTE team for the benefits of students and it can help students to use more new applications.

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NLP WEBINAR

Date: 30th April 2020
Time: 10:00 AM-12:00 PM

The Indian Society For Technical Education (**ISTE**) of GRIET conducted a webinar on "Chat Bot Development using NLP" by Mr. Dileep Kumar .G ,Data Scientist at Sudiksha Analytics and Secretary , IEEE Computer Society , Hyderabad Section ; on 30th April 2020in order to provide the students with a brief knowledgeable session on NLP, one of the prominent role players in AI.
The session started at 10:00AM with the introduction of the speaker. Students , who have registered through the Google forms , have attended the online session on CISCO WEBX platform. Mr. Dileep started the session with a crisp discussion on what *Natural Language Processing* is and it's importance and role in making Artificial Intelligence more reliable for business and more reachable for users over the world.

He mentioned how it can reduce the efforts and assist the users and answer them by analysing their opinions and emotions much closer to a man in the place, with the help of various algorithms available and this is how, chat bots are now replacing human call services , reducing the costs and efforts and at the same time increasing availability of services to the users, which was then a bit difficult, and thus gaining user-satisfaction. It can also be used to help disabled people , fix your spelling or grammar, grade exams, document or reinvigorate indigenous languages , etc. He remarked about it's utilization in reading data and making suitable predictions.

Sir mentioned it's employment in translating documents from one language to the other , with Google Translate as a live example for the same. The session, then moved towards the discussion on some of the key applications of NLP in 2020 like , Text Classification, Sentiment Analysis, Machine Translation, Speech Recognition, Chatbots and Spelling Correction or Suggestion.
Sir then , discussed about some open source libraries available , which provide the algorithmic building blocks of NLP in real-word applications, where the response time of the system is crucial and should be accurately predictable. Apache OpenNLP, Stanford NLP, MALLET, SpaCy, Natural Language Toolkit (NLTK) are some open source libraries available.

NLTK is most usable and mother of all NLP libraries that provides modules for processing text, classifying , tokenizing, stemming, tagging, parsing, and more. It provides easy-to-use interfaces to over 50 corporate and lexical resources such as WordNet, along with a suite of text processing libraries for:

- Tokenization
- Classification
- Stemming
- Tagging
- Chunking
- Parsing
- Logical semantics

Sir later explained about Text Processing, which intends to derive useful information from text by considering some real-time scenarios. He divided each case study into Analyze, Identify and Model.

Sir explained in detail about the NLP tasks such as Sentence Tokenization, Word Tokenization, Word Stemming, Filtering Stop Words, Parts-Of-Speech Tagging and basic terms like Corpus, Tokens, Ngrams ,etc.

The practical part of the session was much more enthusiastic. He first explained in brief about how to install NLP libraries and also executed some codes in Jupyter compiler to show how each function works, this helped in better understanding of the concepts. Then he has shown the practical side of almost everything he explained, like how each algorithm is implemented using python.

Sir then built a simple Chat Bot using NLP and Python and explained about each and every detail which increased the enthusiasm of students to work in this direction. Later he conclude the session by revising the topics discussed in brief.

The students then interacted with him with so much enthusiasm and asked their doubts , which he cleared with patience and encouraged students to go through various websites which provide information regarding NLP and practice what he taught and do projects.

The webinar ended at 12:00PM , after the students thanked him for the knowledgeable session.

Mr. Dileep Kumar .G , Speaker of the event.