DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ECE NEWS BULLETIN

(2021-2022)

सह वीर्यं करवावहै

TIRUMALA ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to JNTUK Kakinada)

(An ISO 9001:2015 Certified Institution)

Accredited by NAAC & NBA,

Jonnalagadda (V), Narasaraopet (M), Guntur(Dt)-522601.

Ph : 92487 52999, 96668 04272

Chief Co-ordinator

Dr. Y.V. NARAYANA

B.Tech.,M.E.,Ph.D.,FIETE

Principal

Editorial Board

Mr. T. Jagadeesh, Assoc. Professor

Dr. M. Manoj Kumar, Professor, Dept. EEE

Chief Editor

Dr.SK.Mohimood, Assoc. Professor

INDEX

About the Department

VISION

MISSION

PEO'S

PO'S

PSO'S

- Message from the secretary
- Message from the Principal
- Message from Editor
- Message from Chief Editor
- Message from tudent Co-Ordinator

Student Corner

- Co-Curricular Activities
- Major Recuiters & Our Best Places Students
- Engineers Day Celebrations
- Student Interaction
- Parent - Teacher Meet

Faculty Corner

- Conference
- Teachers Day Celebrations

National Service Scheme Unit Activity

Sports

Inagural Function

Alumni Message

ABOUT the Department

The ECE department started in the Year 2008 with the intake of 60 students and intake increased from 60 to 120 in 2009, later expanded 120 to 180 in 2012. Right from inception principal Dr.Y.V.Narayana him self lead the team. The goal of the department is to make the students fundamentally strong in the field of Electronics & Communication Engineering. The department has good infrastructure and excellent placement records, thirty eight students of the recently passed out batch (2016) were placed in reputed companies like TCS, NTTDATA, MIND TREE, Capgemini etc.

The department focuses on quality teaching, training and research activity among staff and students. Student development activities like National level workshops, National level student symposia and seminars are conducted regularly to inculcate research activity and expose the student community to external world.

The department has experienced faculty members with quality teaching. All staff members work with great enthusiasm and commitment towards all round brilliance of students. The department is encouraging students to participate in various co-curricular events, sports and motivates the students in helping poor and needy.

VISION:

To become a centre for academic excellence by producing high quality engineers in Electronics & Communication Engineering with global competence empowered by technical expertise, innovation, research and the knowledge of cutting edge technologies, employability, higher education, entrepreneurial skills along with socio-ethical and eco-friendly values for the rural development

MISSION:

To develop the high quality Electronics & Communication Engineers with the fundamental engineering principles, intellectually adept, professionally deft, innovative research capabilities, exemplary skills, technological progress of mankind, tracking technological environment by providing the high quality instruction, infra, faculty, modern teaching and learning methods, training with socio-ethical and entrepreneurial values as the inner strength for the rural development.

PEO'S

1. **Preparation:** To strengthen the learners with fundamental knowledge in the concepts of Engineering Mathematics, Applied Science and Basic Electronics Engineering subjects for problem analysis, comprehend to develop solutions for new hardware, software and other tools in Electronics & Communication Engineering field.
2. **Core competence:** To enable the learners with core curriculum knowledge in theory and practical of Electronics & Communication Engineering to develop the innovative skills, critical analysis, design, simulation, investigation of complex problems, reasoning, development & testing knowledge for offering solutions to real time problems related to globally evolving techno-corridor developments of Electronics & Communication Engineering.
3. **Breadth Knowledge:** To enable the learners with breadth knowledge to build the Electronics & Communication Engineering professionals to have the team work and skills for developing communicative abilities, lifelong learning and aptitude of project management & finance with entrepreneurial values for rural development.
4. **Advanced Professional knowledge:** Implementation of multi-disciplinary approach, development of the R&D skills by MOUs with premier industries and institutions, interacting with training sessions and industrial visits to the learners to have awareness in latest trends of Communication, Networks, Signal processing etc… with the modern tools and modules compatible to escalating needs of the society.
5. **Career Development and ethics:** To enable the learners with the aptitude of competitive knowledge of real time requirement of cutting edge technologies for promoting employability, higher education by imbibing ethical, social and eco-friendly values.

PROGRAM OUTCOME (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOME (PSOs)

PSPO1: Should have the capability to comprehend the technological advancements in the usage of modern design tools to analyze and design subsystems/processes for a variety of applications in Electronics & Communication Engineering.

PSPO2: An understanding of social-awareness & environmental-wisdom along with successful career and to sustain passion and zeal for real-world applications using optimal resources as an Entrepreneur.

Message From the Director: It is a great pleasure for me to know that Department of Electronics & Communication Engineering Of TIRUMALA ENGINEERING COLLEGE Instituteof Technology is going to publish their departmental Newsletterdepartment. I do hope this will cultivate and inspire all the faculty, staffs and students and education lovers curious about this It will also create a platform for curious persons. I wish its successful propagation.

Message From Principal: I have a great pleasure in expressing my thoughts as the Principal of Tirumala Engineering College. Our institute holds the manifold distinction of being amongst the best when one considers the present status of technical education today. Our teachers are invited as resource personnel at national and international seminars, conferences and symposia in India and abroad. I wish the best for all our staff and students who reiterate their aims at providing the best in academic and extra-curricular fields. It is my pleasure in congratulating the editorial board on this pleasant occasion of releasing the newsletter. It is great to find a considerable number of winners and participants in co-curricular and extracurricular activities which certainly prove that our staff and students are adequately equipped and possess necessary skill-sets to bring such laurels to the institution. I wish that this number may grow in the years to come. I am sure that publishing a newsletter of this sort containing the achievements of the wards will be recognition to them and I wish them all the very best for future endeavors.

Message From Editor: It is a matter of great pleasure that I was given the opportunity to work on the different activities of student and faculties, events,newsletter will encourage students to use it as a platform toof Technology is going to publish their departmental Newsletter I do hope newsletter will encourage students to use it as a platform to convey their creativities.

Message From Chief Editor: It is a matter of great pleasure that I was given the opportunity to work on the different activities of student and faculties, events, newsletter will encourage students to use it as a platform to of Technology is going to publish their departmental Newsletter I do hope newsletter will encourage students to use it as a platform to convey their creativities.

Message From Student Co-Ordinator: Hello Readers! It is with immense pleasure that we, on behalf of the ECE department, present magazine! The Magazine is a repository of intriguing articles by students, faculty and alumni alike on their achievements and experiences in co-curricular and extra-curricular activities collected in one place for the readers to revel in. We hope you enjoy the contents of this edition as much as we enjoyed putting it together! This edition, compiled in the midst of an unforgiving pandemic would not have been possible without the support of our faculty in-charge, who guided and mentored us during the entire duration, and the Impulse Content & Design team, who worked against impossible deadlines to make this magazine a reality. This edition, unlike any other, has been crafted with love by the editorial team of 2019 and 2020. We're extremely grateful to our seniors for their guidance, valuable insights and contributions. We would like to extend our heartfelt gratitude to each and every one of them for all the hard work they put in, making this edition a grand success. This last year has been extremely challenging for all of us. However this pandemic has time and again demonstrated the human tendency to fight back and emerge stronger. Here's to hoping that the situation eases soon, so we can meet in person at our beautiful vibrant campus very soon!

STUDENT CORNER

Academic Achievement :-

K. VIJAYA SRI,
She secured 9.26 CGPA
in the Academic performance

CURRICULAR ACTIVITIES

WORKSHOPS

- Organized one week workshop on PCB Design byMr. M. Umamaheswara Rao, Ms. D. Chandi Rani in association with APSSDC during 08-11-2021 to 13-11-2021. Totally 180 members are joined to this workshop.
- Organized one week workshop on METHODOLOGY OF EMBEDDED SYSTE DESIGN & IOT for 3rd year studentsby Mr. V. Govindarao during 29/11/2021 to 03/12/2021. Totally 184 members are joined to this workshop.
- Organized one day workshop on SUSTAINABILITY for 2rd year students by Goli. VarshaVishwanath on 16th March 2022 in Association with Mahatma Gandhi National council of rural Educational, Dept. of Higher Education. Totally 184 members are joined to this workshop.

GUEST LECTURES

- A Guest lecture was arranged for 1st Year B.Tech students by Mr. Perlekartamon “Basics of Electronics and Electrical Circuits” on 7th Jan 2022.
- A Guest lecture was arranged for 3rdYear B.Tech students by Dr. S. Pavan on “Micro Processor and Micro Controller” on 20thFeb 2022.
- Guest lecture was arranged for 2rdYear B.Tech students by CH.KANAKAIA on “Signals &systems” on 26th November 2021

TRAINING PROGRAMS

- We organized Internal hackathon for smart india hackathon 2022 on 13/04/2022 for second year students. In our college

GATE QUALIFIED

- It is well known that GATE is the diagnosis test to check the knowledge level of an engineering student. We feel proud to share that every year our students get qualify in this prestigious examination.

- Harish Narisetty secured gate rank

INDUSTRIAL VISIT

- Industrial visit was organized for the 3rd year students Sathuluru on 08-01-2022 to improve their concept of applying the theoretical knowledge in the relevant field of industrial need.

MAJOR RECRUITERS & OUR BEST PLACED STUDENTS

ప్రముఖ కంపెనీల్లో తిరుమల విద్యార్థులకు ఉద్యోగాలు

నసశక్తి-నరసరావుపేట

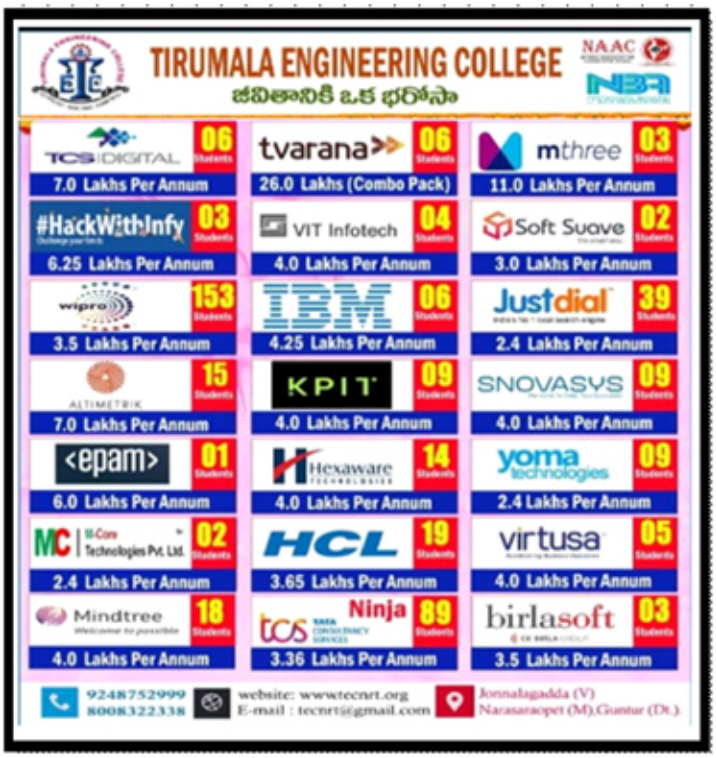
ఉద్యోగాలకు ఎంపికైన విద్యార్థులతో కళాశాల యాజమాన్యం

మొన్నటివరకు తిరుమల ఇంజనీరింగ్ కళాశాలలో ఇంజనీరింగ్ 4వ సంవత్సరం చదువుతున్న 260 మంది విద్యార్థులు పలు బహుళజాతి కంపెనీల్లో ఉద్యోగాలు సాధించినట్లు కళాశాల ప్రిన్సిపాల్ డాక్టర్ వై వి కాశాయణ గురువారం ఒక ప్రకటనలో తెలిపారు. ఈ సందర్భంగా కళాశాలలో ఏర్పాటు చేసిన అభినందన సభలో ప్రిన్సిపాల్ మాట్లాడుతూ హెచ్ సిఎల్ 62, క్యాప్జెమినీ 40, ఐగ్నేనిస్ 71, టెక్ మహేంద్ర 35, ఎమ్ వేసిస్ 32, కాగ్నిజెంట్ 20, కంపెనీలలో ఉద్యోగాలు సాధించినట్లు వెల్లడించారు. ఉద్యోగాలకు ఎంపికైన విద్యార్థులు ఈసీఈ విభాగానికి 116, సీఎస్ఈ 125, ఈఈఈ 10, సివిల్ 6, మెకానికల్ విభాగానికి చెందిన విద్యార్థులు 3 ఉన్నట్లు పేర్కొన్నారు. ఉద్యోగాలు సాధించిన విద్యార్థులను కళాశాల చైర్మన్ బొల్లా బ్రహ్మనాయుడు, కరస్పాండెంట్ రావెల సత్యనారాయణ, చైర్మన్ వైస్ చైర్మన్ పత్తి నాగేశ్వరరావు, కోశాధికారి దుండా ప్రభాకరంలు ప్రత్యేకంగా అభినందించారు. తమ కళాశాలలో విద్యార్థులు ఉద్యోగాలు సాధించడానికి తమ కళాశాలలో అనుభవం కలిగిన అధ్యాపక బృందంతో పాటు, ఉపాధి అవకాశాలు సంబంధించిన అంశాలపై తరచూ నిర్వహిస్తున్న శిక్షణ తరగతులు కారణమని పేర్కొన్నారు.

విప్రో సంస్థ ఉద్యోగాలకు ఎంపికైన తిరుమల ఇంజనీరింగ్ కళాశాల విద్యార్థులు

131 మంది తిరుమల విద్యార్థులకు విప్రోలో ఉద్యోగాలు

నరసరావుపేట, నవంబరు 1: విప్రోసంస్థ ఉద్యోగాలకు నరసరావుపేట మండలం కొన్నలగడ్డలోని తిరుమల ఇంజనీరింగ్ కళాశాల చెందిన 131మంది విద్యార్థులు ఎంపికయ్యారు. విప్రో సంస్థ దేశ వ్యాప్తంగా నిర్వహించిన ఆన్‌లైన్ క్యాంపస్ ఇంటర్వ్యూల్లో తమ కళాశాల విద్యార్థులు విశేష ప్రతిభ కనబరచి ఉద్యోగాలు సాధించారని ప్రిన్సిపాల్ డాక్టర్ వైవీ నారాయణ సోమవారం తెలిపారు. ఈసీఈ బ్రాంచ్ నుంచి 66మంది, సీఎస్ఈ నుంచి 50మంది, సివిల్ నుంచి 8మంది, ఈఈఈ నుంచి ఆరుగురు, మెకానికల్ బ్రాంచ్‌నుంచి ఒకరు ఎంపిక య్యారన్నారు. ఒక్కొక్కరికి వార్షిక వేతనం రూ. 3.75లక్షలని చెప్పారు. ఒకేసారి 131మంది విద్యార్థులు ఎంపికకావడానికి ప్రిన్సిపాల్, అధ్యాపకుల శిక్షణే కారణమని కరస్పాండెంట్ రావెల సత్యనారాయణ తెలిపారు. ఉద్యోగాలు సాధించిన విద్యార్థులను అయన అభినందించారు. ఉద్యోగాలు సాధించడానికి కృషిచేసిన ప్రిన్సిపాల్ డాక్టర్ వైవీ నారాయణ, ప్లేస్‌మెంట్ అధికారులు ఎంసాంబశివరావు, ఎంశ్రీకాంత్, కోఆర్డినేటర్లు, అధ్యాపకులను కళాశాల చైర్మన్, ఎమ్మెల్యే బొల్లా బ్రహ్మనాయుడు అభినందించారు.



INTERNSHIP PROGRAMME

- Our final year students got opportunity to do internship in different companies like reventur,tcs &wipro.

ENGINEERS DAY CELEBRATIONS

- Department of ECE has organized project expo on the occasion of Engineering's Day

తిరుమల ఇంజనీరింగ్ కళాశాలలో ఇంజనీర్స్ డే వేడుకలు

నరసరావుపేట, మేజర్‌న్యూస్: స్థానిక జాన్నలగడ్డలోని తిరుమల ఇంజనీరింగ్ కళాశాలలో సర్. మోక్షగుండం విశ్వేశ్వరాయ జయంతి పురస్కరించుకుని సివిల్ విభాగం ఆధ్వర్యంలో ఇంజనీర్స్ డే వేడుకలు నిర్వహించారు. ఈ కార్యక్రమానికి ముఖ్య అతిథిగా డాక్టర్. జి శ్రీనివాసరెడ్డి ప్రాజెక్ట్ డైరక్టర్ ఉల్లా నీటి యాజమాన్య సంస్థ గుంటూరు విచ్చేయడం జరిగింది. ఈ సందర్భంగా ముఖ్య అతిథి మాట్లాడుతూ ఇంజనీర్స్ దేప్రాముఖ్యతను సర్. మోక్షగుండం విశ్వేశ్వరయ్య నిర్మించిన ముఖ్య ప్రాజెక్టులు గురించి వివరించారు. కళాశాల ప్రిన్సిపాల్ డా. వై వి నారాయణ మాట్లాడుతూ సివిల్ ఇంజనీర్స్ యొక్క గొప్పతనాన్ని ప్రపంచానికి చాటి చెప్పిన సర్. మోక్షగుండం విశ్వేశ్వరాయ్య చిన్నతనం నుండి ఈ స్థాయి వరకు చేరుకోడానికి కష్టపడిన వివిధ సందర్భాలను విద్యార్థిని, విద్యార్థులకు తెలియజేశారు చైర్మన్ బోల్లా బ్రహ్మనాయుడు మాట్లాడుతూ సర్. మోక్షగుండం విశ్వేశ్వరాయ ఖ్యాతిని కొనియాడారు. కళాశాల సెక్రటరీ అండ్ కరస్పాండెంట్ రావెల సత్యనారాయణ మాట్లాడుతూ తమ కళాశాల విద్యార్థులు విశ్వేశ్వరాయని ఆదర్శంగా తీసుకొని దేశాభివృద్ధికి పాటుపడాలని తెలియజేశారు. సివిల్ విభాగాధిపతి యం.వి రమేష్ మాట్లాడుతూ ఇంజనీర్స్ డే ప్రాముఖ్యతను, తమ సివిల్ విభాగం యొక్క ప్రత్యేకతను తెలియజేశారు. ఈ కార్యక్రమంలో వివిధ శాఖల విభాగాధిపతులు, అధ్యాపక, అధ్యాపకేతర సిబ్బంది పాల్గొన్నారు.

PROFESSIONAL BODY IETE

IETE student forum was inaugurated on 6-2-2013. Dr. M Kamaraju, Professor and HOD of ECE department, Gudlavalleru Engineering College was the chief guest. He expressed his happiness encouraged our faculty members and students to join IETE. Our faculty members and students got enrolled in IETE. IETE membership provides support for continuing research work, attending work shops.

The Association comprises of President from final year, Vice-President from pre-final year, Secretary from second or first year and Treasurer from third year. The association conducts the a faculty representatives.

This year 77 member are joined inprofessional body memberships

FACULTY CORNER

FACULTY ACHIEVEMENTS

- DEPATMENT OF ECE organized an international conference in online and offline mode some faculty MEMBERS are used this opportunity to published their papers in conference

తిరుమల విద్యార్థులకు అవార్డులు

వార్త Tue, 28 December 2021 https://epaper.vaartha.com/

Mr. T.Jagadeesh got an award the iron man of india-2021 for out standing performance in teaching on 31/10/2021

Our beloved principal Dr.Y.V.Narayana got an award of sardar vallabhbhai patel-iron man of india -2021 on 31/10/2021

Detail of the faculty members are participated in FDP & STTP out side the world.

- Mrs. B. Vaisalini Asst. Professor, Dept. of ECE Participated ATAL FDP on " Artificial Intelligence from 10/01/2022 to 14/01/2022
- Mrs. B. Vaisalini Asst. Professor, Dept. ECE Participated National Level one day workshop on " Intellectual Property Raights (IPR)-Patent & Designs Process on 25/02/2022 organized in association with RGNIIPM.
- Mrs. B. Vaisalini Asst. Professor, Dept. ECE is succefully completed One Week Online Faculty Development Program on "Trends and challenges in advanced VLSI system design" organized by Dept. ECE, S.R.K.R. Engineering College during 21st Feb 2022 to 26th Feb 2022.
- Mrs. B. Eswaramma, Asst. Professor, Dept. ECE is succefully completed One Week Online Faculty Development Program on "Trends and challenges in advanced VLSI system design" organized by Dept. ECE, S.R.K.R. Engineering College during 21st Feb 2022 to 26th Feb 2022.
- Mrs. B. Thriveni, Asst. Professor, Dept. ECE for Presenting and publishing Paper on Automatic Irrigation and Harmful Gas detection in Agriculture using Embedded system, held on 27/12/2021 in Association with Conference World and IARDO
- Dr. D. Krishna, Assoc. Professor, Dept. of ECE participated ATAL FDP on " Artificial Intelligence from 10/01/2022 to 14/01/2022.

- Dr. D. Krishna, Assoc. Professor, Dept. of ECE successfully completed STC on “Application of Machine learning to wireless communication” organized by IIT-Bhubaneswar during Jan 21st to 24th, 2022
- Dr. D. Krishna, Assoc. Professor, Dept. of ECE participated in 06 hour online program on System design using Verilog HDL” organized by NIELIT CALICUT during 18th -20th May 2022
- Dr. D. Krishna, Assoc. Professor, Dept. ECE Participated National Level one day workshop on “ Intellectual Property Raights (IPR)-Patent & Designs Process on 25/02/2022 organized in association with RGNIIPM.
- Dr. D. Krishna, Assoc. Professor, Dept. of ECE participated ATAL FDP on “ Block Chain Technology from 28th Feb to 04th March 2022, organized by IIT-Dharwad.

TEACHER’S DAY

TEC has organized an event on the occasion of teacher s day which is known as birthday of Dr.sarvepalli Radhakrishnan the event was held at the Maxwell seminor hall on 15/09/2021. The managent and principal used to appreciate the faculty members who has given maximum efforts as best teacher award and incentives.

- Mr.G.V.Hanuma Asst.proffesor in the department of E.C.E received BEST TEACHER AWARD.
- On this same day Mr.K.Ravi babu ,Mrs.G.Suseelamma promoted as Assoc.profesor

National Service Scheme Unit Activity: from the department of ECE organized NSS camp for providing covid-19 vaccination for students and staff on 24/2/2022.

We organized a eye camp in association with new max vision eye care hospital by Dr.Ramalinga reddy on 19/2/22.

On be half of NSS formation day we are practicing best practicing

WOMEN’S DAY CELEBRATIONS

On the occasion of women’s day women’s development cell has organized an event to create awareness on laws and protection for women’s safety in the society

- ISO –Accredation Process on 02/02/22

- India is celebrating the 73rd Republic Day on 26 January 2022. The celebrations this year are special as India is in the 75th year of Independence – celebrated at our college

RECREATION

PARENT - TEACHER MEET

Department used to organize a parent teacher meeting in each semester to make the guardians aware about the regular activities of their wards. After participating in this meeting the parents get informed about the updated class and training attendance of ward during current semester. The meeting aimed at reducing the gap between teacher and students

INAUGURAL FUNTION

- Mangement of TEC addressing about gathering of Inagural Function.

- Principal sir meeting with department HOD's about academics & training

INTERACTION PROGRAM

- Student interaction: interaction program about the department for 2nd year students