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COLLEGE

Vision of the Institute

To be one of the nation's premier Institutions for Technical and Management Education and a key contributor for Technological and Socio-economic Development of the Nation.

Mission of the Institute

To produce technically competent Engineers and Managers by maintaining high academic standards, world class infrastructure and core instructions.

To enhance innovative skills and multi disciplinary approach of students through well experienced faculty and industry interactions.

To inculcate global perspective and attitude of students to face real world challenges by developing leadership qualities, lifelong learning abilities and ethical values.

EEE Department

Vision of the Department

To impart knowledge in the field of Electrical and Electronics Engineering to meet the technical challenges of industry and society with strong innovative skills, leadership qualities and ethics.

Mission of the Department

To provide standard training and effective teaching learning process to the students by using the state-of-the-art laboratories, core instruction and efficient faculty.

To enhance competent, innovative and technical skills amongst the students through training programs by industry and external participation.

To inculcate leadership qualities, ethical values and lifelong learning skills in learners to serve the society and nation for overall development through value based education.

Program Educational Objectives (PEOs)

Programme Educational Objectives (PEOs) of B.Tech (Electrical and Electronics Engineering) program are: Within few years of graduation, the graduates will

PEO-1: To solve composite problems using mathematics, basic sciences and engineering principles in the domains of testing, design and manufacturing.

PEO-2: To achieve higher positions in their profession by demonstrating leadership qualities, research and innovative abilities.

PEO-3: To contribute in the field of Electrical and Electronics Engineering to finding solutions for societal problems through their lifelong learning skills and ethical values.

Program Outcomes (POs)

PO-1 : Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO-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.

PO-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.

PO-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.

PO-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.

PO-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.

PO-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.

PO-8 : Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

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

PO-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.

PO-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.

PO-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.

PSOs of the Department

On completion of the B.Tech. (Electrical and Electronics Engineering) degree, the graduates will be able to

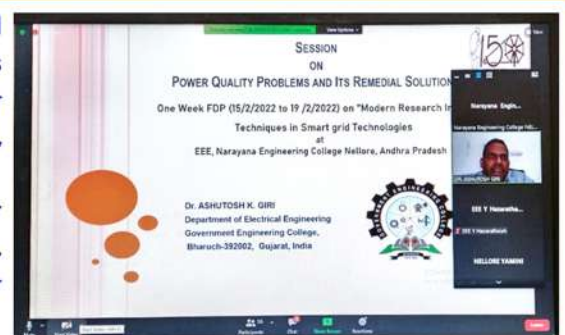
PSO-1: Provide alternate solutions to address the problems with specific requirements in the field of Electrical and Electronics Engineering.

PSO-2: be ready to work professionally in relevant industries like power systems, control systems and software industries.

Faculty Development Programme on "MODERN RESEARCH INNOVATIVE TECHNIQUES IN SMART GRID TECHNOLOGIES"

A one week Faculty Development Programme on "MODERN RESEARCH INNOVATIVE TECHNIQUES IN SMART GRID TECHNOLOGIES" was organized by Department of Electrical & Electronics Engineering at Narayana Engineering College, Nellore, from 14th to 19th Jan 2022, in online mode using ZOOM app.

The Resources persons of this Programme, Dr. Nasim Ali Khan, Professor in Department of EEE, Aliah university Kolkata, West Bengal, Dr. Asutosh .K. Giri, Asst. Professor in Department of EEE, Government Engineering College, Bharuch, Gujarat, Dr. Ajay kumar, Asst. Professor in Department of EEE, NIT, Jamshedpur, Dr. P .Sudheer, Professor in Department of EEE, SITAMS, Chittoor. There were 68 faculty members attended this program, out of this 20 members were from dept. of EEE and 48 members were from other colleges.



On Day-1 - The resource person Dr. Asutosh .K. Giri, Asst.Professor in Department of EEE, Government Engineering College, Bharuch, Gujarat started with introduction of the program objectives to the participants.

On Day-2 - Resource person Dr. Nasim Ali Khan, Professor in Department of EEE, Aliah university Kolkata, West Bengal, discussed about the Smart Grid operations, stability, protection, and Technology for smart Demand Side Management.

On Day-3 - Resource person Dr. Ajay kumar, Asst.Professor in Department of EEE, NIT, Jamshedpur, discussed about the recent advances in Smart Grid and On-Going Smart Grid Activities.

Day-4&5 - Resource person Dr. P. Sudheer, Professor in Department of EEE, SITAMS, Chittoor discussed about The Research techniques and innovations in Smart Grid and the institutions that sponsor's research for Smart Grid are the major concern of this FDP.

Guest Lectures

Industrial Applications of Power Electronics



On 17/5/2022 Narayana engineering college, Nellore EEE Department Organized a Guest lecture on "Industrial Applications of Power Electronics" in Electrical Engineering". In this session they discussed about, In recent years, power electronics have been intensely contributing to the development and evolution of new structures for the processing of energy.



POWER PLANT ENGINEERING -BOILERS

Guest Lecture was conducted by the department of EEE, NEC Nellore on 17.5.2022 from 3.00 pm to 5.00 pm Chief guest our college Alumni Mr.Jagannathan S, Executive Engineer, Thermal Power Plant-I, Chennai, has taken a lecture on topic "POWER PLANT ENGINEERING -BOILERS" for second year students.



Machine Learning Applications in Electrical Engineering

On 17/5/2022 Narayana engineering college, Nellore EEE Department Organized a Machine Learning Applications in Electrical Engineering. years, power electronics have been intensely contributing to the development and evolution of new structures for the processing of energy.



He explained how machine learning can be used in electrical field. he explained how some domain or field in electrical engineering can apply machine learning concepts.

Career Guidance

Awareness Program on Indian Engineering Services in Government Sector



NARAYANA ENGINEERING COLLEGE NELLORE (AUTONOMOUS)
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Career Guidance Cell

Awareness Program on
INDIAN ENGINEERING SERVICES IN GOVERNMENT SECTOR
12-02-2021

In Association with
Institution of Engineers (India)
Student Chapter

Resource person
Mr. S.M. Trinath
ESE and GATE Faculty,
ACE Engineering Academy
Hyderabad

An "Awareness Program on Indian Engineering Services in Government Sector " was conducted by Electrical and Electronics Engineering department on 12-02-2022 at Visweswaraiah Auditorium, B-Block, Narayana Engineering College, SPSR Nellore. Dr. G. Venkateswarlu, HOD, Dept.of EEE, Extended his Greetings to Sri S.M. Trinath, ESE and GSM, ACE Engineering Academy, Hyderabad speaker of this program and introduced the programme to all participants. Total Number of Students attended was 65.

Industrial Visit

33/11KV Substation, Haranathapuram

It is bring to your kind notice that II B.Tech EEE students was visited 33/11KV Substation, Haranathapuram, Nellore. About 30 members students along with 3 staff members on 08/02/2022. The Site Engineer was given complete demo about the basic substation configuration and components.

First Students were entered into the 33/11KV Transformer, the site engineer explain clearly about the working and construction of Transformer and its specifications. Later, he explained how the electrical energy transfer to one circuit to another circuit without change of frequency into busbars.



Dr Narla Tata Rao Thermal Power Plant



It is bring to your kind notice that III B.Tech EEE students was visited Dr. Narla Tata Rao Thermal Power Plant, located at Vijayawada in Andhra Pradesh. About 53 members students along with 4 staff members on 03/06/2022.

The Site Engineer was given complete demo about the power system generation. Dr. Narla Tata Rao Thermal Power Plant is also known Vijayawada Thermal Power Plant. It was developed under 4 stages, with the project cost of Rs 193 Crores and Rs 511 Crores respectively. Again with an investment of RS 840 Crores 2 units were commissioned under III Stage. The seventh unit of 500 MW was commissioned in 2009. The station stood first in country during 94-95, 95-96, 96-97, 97-98 and 2001-02 by achieving the highest plant load factor. The station has received many prestigious awards from various organizations.

A Seminar on Protection & control Strategy for Distribution Substation

A Seminar on Protection & Control Strategy on Distribution Substation was conducted by Electrical and Electronics Engineering department in association with 33/11 KV Substation, Harinathapuram, Nellore. They deputed M.Siva Kumar Reddy for conducting seminar. Dr. G. Venkateswarlu, HOD, Dept.of EEE, Extended his Greetings to M.Siva Kumar Reddy, Assistant Engineer, CT Meter station, Nellore, speaker of this program and introduced the programme to all participants. Total Number of Students attended was 94. This programme was associated with 2 Faculty members



Student Association Activities

Sakala " PPT on Technical Topics "



The Department of EEE has conducted the event PPT on Technical Topics at 01:30 p.m on 22-04-2022 under the Students Association SAKALA. Students from II & III Year B.Tech are actively participated in this event and made this event a grand success. Prizes were distributed to the winner's team.



Sakala " DEBATE "

The Department of EEE has conducted the event DEBATE at 12:30 p.m on 29-04-2022 under the Students Association SAKALA. Students from II & III year B.Tech are actively participated in this event and made this event a grand success. Prizes were distributed to the winner's team.



Sakala " SELF INTRODUCTION ":

The Department of EEE has conducted the event Self Introduction at 03:00 p.m on 13-05-2022 under the Students Association SAKALA. Students from II & III Year B.Tech are actively participated in this event and made this event a grand success. Prizes were distributed to the winner's team.



A self introduction is an act of introducing oneself to others. It is a way of telling people about yourself, such as your name, job, or interests. It's also a great way to build relationships, especially with your peers.

Sakala "PAPER PRESENTATIONS"



The Department of EEE has conducted the event PAPER PRESENTATIONS at 01:30 p.m on 27-05-2022 under the Students Association SAKALA. Students from II & III Year B.Tech are actively participated in this event and made this event a grand success. Prizes were distributed to the winner's team.

Sakala "TECHNICAL TALK"

The Department of EEE has conducted the event TECHNICAL TALK at 01:00 p.m on 03-06-2022 under the Students Association SAKALA. Students from II & III Year B.Tech are actively participated in this event and made this event a grand success. Prizes were distributed to the winner's team.



NSS

Einstein's Birthday Celebrations



In view of Einstein's Birthday, we celebrated this occasion grandly in our college under NSS Unit of EEE Department in Edission Seminar Hall in Narayana Engineering college. We conducted elocution competition about "Albert Einstein" for students and gave certificates to all the participants. Nearly 88 students attended this program

An Awareness Programme on WORLD T.B. DAY

World T.B. Day is observed worldwide on 24th March every year to eradicate T.B. On this occasion, the Department of Electrical and Electronics Engineering had organized an awareness programme on 24th March 2022 in Edison Seminar Hall at B-Block. Resource person Dr. A.Jyothi, Pulmonologist in Narayana Hospital , Nellore , addressed the gathering.



She told about the causes and prevention methods for this disease. Around 60 students attended this programme.

Women's Forum



EEE Students of NECN conducted program for International Day of Women & girls in Science at EDISON AUDITORIUM, Nellore on 11-02-2022 from 11:10am to 12:40 pm. The Resource person was Dr. Ch. Maruthi Kesava Kumar, Lecturer in Science, Govt IASE & Representative APCOST, SPSR Nellore. He discussed about International Day of Women & Girls in Science for women

The International Day of Women and Girls in Science Forum aims to mobilize women in science expertise from a wide range of disciplines that can contribute to achieving sustainable development goals. It will explore innovative ways to measure and assess data produced by International Organizations.



Awareness program on “Stay Secure Stay Vigilant”

A Awareness program on “Stay Secure Stay Vigilant” by Sailaja Vadlamudi, Founder of women in cyber security & Privacy was organized by women’s forum of the NECN on 09-06-2022 at Main Auditorium, C-Block. The enormous response was well recognized through the 187 participants. In this session the resource person Sailaja Vadlamudi has given Awareness on Women’s cyber violence , Save the girl child, child sex ratios, and creating a healthy and safe environment for a girl child. She discuss the following points to students:

How to protect the women from cyber violence

Protection of women from violence Act, 2005

Women problem while travelling

To raise voice against girl child marriage, discrimination etc.,

The session was very interested and NECN Girl Students were actively interacted with the resource person & the students were highly impressed by the knowledge of resource person and had interaction with them on the above points.



Awareness program on Breast Cancer for Women

Women's Forum, NECN was conducted program of Health Awareness program on Breast Cancer problems for NECN Girl Students at MAIN AUDITORIUM, Nellore on 28/05/2022 from 3:00am to 5:00pm. The Resource persons were Dr. Srinivasan, MD, Radiation Oncologist, ACSR GMC & Dr. SK.Kalesha Saheb, MS, Asst Professor, Dept of General Surgery, ACSR GMC came from ACSR GMC, Nellore. They discussed Breast Cancer problems for women are given below:

Breast Cancer Symptoms

Causes for Breast Cancer

Risk factors for Breast Factors

Breast cancer risk reduction for women with an average risk

Breast cancer risk reduction for women with a high risk

We thank to Dr. Srinivasan, MD, Radiation Oncologist, ACSR GMC & Dr. SK.Kalesha Saheb, MS, Asst Professor, Dept of General Surgery, ACSR GMC to success this program.



Awareness Program on Civil Services Exam

A seminar on "Awareness Program on Civil Services Exam " was conducted by Career guidance Cell on 02-06-2022 at Main Auditorium, B-Block, Narayana Engineering College, SPSR Nellore. Dr. G.Srinivasulu, Principal of Narayana Engineering College, Extended his Greetings to Sri.K.Kiran Kuamr



Reddy, Principal, Narayana IAS Academy, Nellore speaker of this program and introduced the programme to all participants. Total Number of Students attended was 197. This programme was coordinated with the help of 5 Faculty members the seminar was chaired by Sri.K.Kiran Kuamr Reddy, Principal, Narayana IAS Academy, Nellore.

An Awareness Programme on Careers in Machine Learning

Career Guidance Cell has conducted "An Awareness Programme on Careers in Machine Learning" in Association with Turing Minds " on 10-01-2022. Students of III rd Year B.Tech ECE, CSE, EEE came forward to participate in this event. In this competition world all the companies are looking for graduates who have higher education and have additional skills, career guidance cell is training the students by conducting this activity. The Resource Persons are Sri Somagiri Parupalli, VicePresident, Turing Minds, Hyderabad & Associate Sri Somagiri Parupalli, Director, Turing Minds, Hyderabad. After the "An Awareness Programme on Careers in Machine Learning "session, head of the department Dr. G.Venkateswarlu appreciated the students for their active participation in the event. Total no. of Participants: 115



A Program on "Career Counseling on JOB OPPORTUNITIES IN ABROAD

A Program on "Career Counseling on JOB OPPORTUNITIES IN ABROAD " was conducted by Electrical and Electronics Engineering department on 30-03-2022 at Visweswaraiah Auditorium, B-Block, Narayana Engineering College, SPSR Nellore. Dr. G. Venkateswarlu, HOD, Dept.of EEE, Extended his Greetings to Sri G.Gowtham, CEO & Founder, Disa,



T-Hub, Hyderabad & Consultant speaker of this program and introduced the programme to all participants. Total Number of Students attended was 90. This programme was coordinated with the help of 2 Faculty members the Program was chaired by Sri G.Gowtham , CEO & Founder, Disa , Hyderabad.