NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
DEPARTMENT OF INFORMATION TECHNOLOGY

VISION OF THE DEPARTMENT

To transform into a research and technological hub to develop prominent IT professionals to serve the needs of Industry and society.

MISSION OF THE DEPARTMENT

The department of Information Technology is committed to
M1: Induce preliminary and contemporary IT principles of the industry among the students.
M2: Develop strong force of students to solve the real time problems of the IT industry.
M3: Incubate the students with emerging entrepreneur intelligence.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

The graduates of the program are able to:

PEO 1 Apply the knowledge of mathematics, science and engineering fundamentals to identify and solve IT and engineering problems.

PEO 2 Use various software tools and technologies to solve problems related to Academia, industry and society.

PEO 3 Work with ethical and moral values in the multi-disciplinary teams and can Communicate effectively among team members with continuous learning.

PEO 4 Pursue higher studies and develop their career in software industry.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Students will be able to:

PSO 1 Ability to analyze and develop computer programs in the areas related to Algorithms, system software, application software, web design, big data analytics, database design and networking for efficient design of computer based systems of varying complexity.

PSO 2 Design, Implement and evaluate a computer-based system to meet desired needs.

PSO 3 Develop IT application services with the help of different current engineering tools.

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PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

PO1: **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: **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.

PO3: **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.

PO4: **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.

PO5: **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.

PO6: **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.

PO7: **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.

PO8: **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: **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.

PO11: **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.

PO12: **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.

Inspirational Quotes

It is impossible to work in Information Technology without also engaging in Social Engineering

Vision

To emerge as a Centre of excellence in technical education with a blend of effective student centric teaching learning practices as well as research for the transformation of lives and community

Mission

Provide the best class infrastructure to explore the field of engineering and research.

Build a passionate and a determined team of faculty with student centric teaching, imbibing experiential and innovative skills.

Imbibe lifelong learning skills, entrepreneurial skills and ethical values in students for addressing societal problems.

NEW TRENDS IN TECHNOLOGY:

Generative-AI :

Generative AI, a cutting-edge technology, has revolutionized various industries by enabling machines to create content that resembles human-generated work. It encompasses a wide range of applications, from text generation to image synthesis and even music composition. After mastering generative AI, individuals can pursue exciting job roles in fields such as artificial intelligence research, data science, and creative industries. The ever-expanding applications of generative AI promise a bright future for those who master this technology, offering opportunities to shape how we interact and create content in the digital age. Some of the top job roles include:

a. AI Researcher, where you can delve deep into the development of advanced generative models.
b. Data Scientist, using generative AI to extract valuable insights from data.
c. Content Creator, harnessing generative AI for innovative storytelling.
d. AI Ethics Consultant, addressing the ethical implications of AI-generated content

FACULTY FOCUS:

Publications/ Conferences/FDP:

1. Dr.B.Jhansi Vazram was participated in 30 hours Live Training Program on NLP, ChatGPT and Prompt Engineering held from 18th Dec 2023-9th Jan 2024.
2. Dr.B.Jhansi Vazram was participated in 20 hours Live Training Program on Git and GitHub held from 24th Jan 2024 to 7th Feb 2024.
3. Sk.Mohammed Jany was participated in the AICTE Recognized Faculty Development Program on NSQF Aligned skill Development conducted by Curriculum Development Centre Department from 19th Feb 2024-23rd Feb 2024 at Narasaraopeta Engineering College.
4. Dr. Jhansi Vazram published a research paper titled "Red Wine Quality Prediction Using Machine Learning" in March 2024 in the International Journal of Innovative Science and Research Technology (ISSN: 2456-2165), indexed in UGC.
5. K.Jaya Praksh was published an International Journal of Paper Title is Skin Detection using Deep Learning on March-2024.
6. Mohammed Jany was participated in A Five Day Faculty Development Program on Principles of Machine Learning , held from 25th to 30th April 2024,organized by Department of CSE,IT,CSE(AI),CSE(AI&ML) in association with IQAC.
7. K.Sirisha was participated in A Five Day Faculty Development Program on Principles of Machine Learning , held from 25th to 30th April 2024,organized by Department of CSE,IT,CSE(AI),CSE(AI&ML) in association with IQAC.

8. U. Vijay Kumar was participated in A Five Day Faculty Development Program on Principles of Machine Learning , held from 25th to 30th April 2024,organized by Department of CSE,IT,CSE(AI),CSE(AI&ML) in association with IQAC.
9. NPTEL Online Certification is Awarded to P.Vijaya Lakshmi for successfully Completing the Course on Introduction to Internet of Things, held during Jan-April 2024.
10.NPTEL Online Certification is Awarded to K.Sireesha for successfully Completing the Course on Cloud Computing, held during Jan-April 2024.
11.NPTEL Online Certification is Awarded to P.Santhi for successfully Completing the Course on Introduction to Internet of Things, held during Jan-April 2024
12. Sk.Mohammed Jany was participated of One Week Faculty Development Program (FDP) on "OBE & NEP 2020" during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell-IQAC PBR VITS, Kavali and VIT-AP University, Amaravathi.
13. Mule Ramakrishna Reddy was participated of One Week Faculty Development Program (FDP) on "OBE & NEP 2020" during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell-IQAC PBR VITS, Kavali and VIT-AP University, Amaravathi.
14. U.Vijay Kumar was participated of One Week Faculty Development Program (FDP) on "OBE & NEP 2020" during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell-IQAC PBR VITS, Kavali and VIT-AP University, Amaravathi.
15. P.Neelima was participated of One Week Faculty Development Program (FDP) on "OBE & NEP 2020" during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell-IQAC PBR VITS, Kavali and VIT-AP University, Amaravathi.
16. P.Deepthi Sowmya was participated of One Week Faculty Development Program (FDP) on "OBE & NEP 2020" during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell-IQAC PBR VITS, Kavali and VIT-AP University, Amaravathi.
17. P.Santhi was participated of One Week Faculty Development Program (FDP) on "OBE & NEP 2020" during 10th to 14th June 2024, jointly organized by Internal Quality Assurance Cell-IQAC PBR VITS, Kavali and VIT-AP University, Amaravathi.
18. Mohammed Jany Shaik was participated in a One Week Faculty Development Program on "Design Thinking and Innovation", organized by IQAC & Department of Mechanical Engineering ,Narasaraopeta Engineering College in Association with VIT-AP University-Amaravati from 18-06-2024 to 22-06-2024.
19.Jaya Prakash K was participated in a One Week Faculty Development Program on "Design Thinking and Innovation", organized by IQAC & Department of Mechanical Engineering ,Narasaraopeta Engineering College in Association with VIT-AP University-Amaravati from 18-06-2024 to 22-06-2024.
20. Mule Ramakrishna Reddy was participated in a One Week Faculty Development Program on "Design Thinking and Innovation", organized by IQAC & Department of Mechanical Engineering ,Narasaraopeta Engineering College in Association with VIT-AP University-Amaravati from 18-06-2024 to 22-06-2024.
21. JayaPrakash K got Certificate of Achievement for Successfully Completing Artificial Intelligence Primer Certification on June 28, 2024.
22. JayaPrakash got Course Completion Certificate for Successfully Completing the course Introduction to Natural Language Processing On June 25,2024.
23. JayaPrakash K got Certificate of Achievement for Successfully Completing Artificial Intelligence Foundation Certification on June 26, 2024.

24. Dr. K. Soma Sekhar published a research paper titled "EfficientNetV2-RegNet: An Effective Deep Learning Framework for Secure SDN-Based IoT Network" on 9 May 2024 in the journal Cluster Computing (DOI: 10.1007), indexed in Scopus.

25. Dr. K. Suresh Babu published a research paper titled "Smart 5G Small Cell Mobile Networking with Sleep Strategy Using Novel Swarm Optimization" on 28 May 2024 in the Journal of Advances in Information Technology (DOI: 10.1272), indexed in SCOPUS.

26. Dr. K. Suresh Babu published a research paper titled "Intrusion Detection System for Cyber Security in Smart Agriculture with ABCIS Techniques" on 31 May 2024 in the Journal of Theoretical and Applied Information Technology (ISSN: 1992-8645), indexed in SCOPUS.

27. Dr. R. Satees Kumar published a research paper titled "Advancing Education: An In-Depth Analysis of Artificial Intelligence in Children's Learning" in 2024 in the International Journal of Scientific Research in Computer Science and Engineering (E-ISSN: 2320-7639, indexed in UGC.

28. Dr. M. Sireesha published a paper titled "Prediction of Liver Disease Using Machine Learning Algorithms" in 2024 at Springer Nature Singapore, DOI: 10.1007, indexed in Scopus.

29. Dr. B. Jhansi Vazram published a paper titled "Prediction of Liver Disease Using Machine Learning Algorithms" in 2024 at Springer Nature Singapore, DOI: 10.1007, indexed in Scopus.

30. Dr. B. Jhansi Vazram published a paper titled "Machine Learning Models for Chronic Renal Disease Prediction" in 2024 at the International Conference on Data Science and Applications, published by Springer, indexed in Scopus.

31. Dr. M. Sireesha published a paper titled "Machine Learning Models for Chronic Renal Disease Prediction" in 2024 at the International Conference on Data Science and Applications, published by Springer, indexed in Scopus.

32. Dr. M. Sireesha published a paper titled "Prediction of Liver Disease with Random Forest Classifier Through SMOTE-ENN Balancing" in 2024 at the 2024 IEEE 13th International Conference on Communication Systems and Network Technologies (CSNT), published by IEEE, indexed in Scopus.

DEPARTMENTAL ACTIVITIES:
Workshops/ Seminars / Industrial visits/ Webinars:

1. Department of IT Jubilation-2K24 Poster was released by Honourable Principal Dr. M. Sreenivasa Kumar sir along with Department Faculty co-ordinators and student co-ordinators.

2. Principal sir (Dr.M.Sreenivasa Kumar) and HOD (Dr.B.Jhansi Vazram) are unveiled the NEC-ACM student chapter on 17-02-2024.

A Five Day Faculty Development Program on Principles of Machine Learning, held from 25th to 30th April 2024, organized by Department of CSE,IT,CSE (AI), CSE(AI&ML) in association with IQAC.

STUDENT FOCUS:

Talk on Study Abroad & Career Guidance Awareness Program for IV B.TECH II SEM of IT on 05-01-2024.

Department was conducted an A Two Weeks workshop and Hackathon on ANDROID APP DEVELOPMENT for II B. TECH II SEM of IT from 24th Jan to 08th Feb 2024.

Department was conducted an A Two Weeks workshop and Hackathon on ANDROID APP DEVELOPMENT for II B.TECH II SEM of IT from 24th Jan to 08th Feb 2024.

Department was conducted an inaugural ceremony of NEC ACM STUDENT CHAPTER on 09-02-2024.

Department was conducted an 5 days work shop on AWS Cloud Computing for III B.TECH II SEM of IT from 13th Feb to 17th Feb 2024.

Department was conducted a One Day TECH TRIO CHALLENGE for II B.TECH & III B.TECH II SEM of IT on 14th Feb 2024.

II B.TECH II SEM OF IT students were participated in Cancer Awareness Program on 22-02-2024.

Department was celebrated a JUBILATION-2K24, A NATIONAL LEVEL STUDENT TECH-FEST, BYTE BLAST of Pixel Perfect Event on 02-03-2024.

Department was celebrated a JUBILATION-2K24, A NATIONAL LEVEL STUDENT TECH-FEST, BYTE BLAST of Technical Slide View Event on 02-03-2024.

Department was celebrated a JUBILATION-2K24, A NATIONAL LEVEL STUDENT TECH-FEST, BYTE BLAST of Code Conflux Event on 02-03-2024.

Department was celebrated a JUBI-LATION-2K24, A NATIONAL LEVEL STUDENT TECH-FEST, BYTE BLAST of Hitech Chase Event on 02-03-2024.

Department was celebrated a JUBI-LATION-2K24, A NATIONAL LEVEL STUDENT TECH-FEST, BYTE BLAST of Project Expo Event on 02-03-2024.

Department was conducted an IBM Data Science Training for III B.TECH II SEM OF IT & CSE (AI) ,from 22-04-2024 to 23-04-2024.

Hackathon Express Fast Track To Coding Excellence was conducted for I B.TECH II SEM of IT & CSE (AI) from 15-06-2024 to 22-06-2024.

Training Programs and Drives:

Dept.	Year	Training	Duration
CSE(AI)	3rd	Aws Cloud computing	02nd -06th Jan 2024.
IT & CSE(AI)	2nd	CRT	11th -28th Mar 2024.
IT	4th	Data Science Training	6th-18th April 2024
CSE(AI)	4th	Mern Stack Development	6th-18th April 2024
IT & CSE(AI)	4th	CRT	6th-18th April 2024
IT & CSE(AI	4th	Wipro	13th -22nd June 2024
IT & CSE(AI	4th	Full Stack Demo	29-06-2024

STUDENT CERTIFICATIONS/ PARTICIPATIONS IN WORKSHOPS / CONFERENCES/NSS PROGRAMS:

CO-CURRICULAR ACTIVITIES:

1. III B.TECH II SEM OF IT (Dasari Venkata Harish) Student got Best Performance award in All India NCC Technical Contest at Kulamvu,Kerala on 05-01-2024.

2. II B.TECH II SEM OF IT students were participated in CYSENTIA-2K24 FEST, was organized by JNTU Narasaraopeta on 04-04-2024.

3. IV B.TECH II SEM OF IT Students were participated in International Conference on Artificial Intelligence and its Emerging Areas, organized by Department of CSE, Narsaraopeta Engg College, held during 12th April-13th April 2024.

NPTEL

SINDUJA CHILUVERU successfully completed the NPTEL course "Introduction of Internet of Things" with a consolidated score of 64%.

Guest Lectures:

IV B. Tech II Sem (2020 Batch) Students Attend Python Programming Session. As part of their curriculum, IV B. Tech II Sem (2020 Batch) students are scheduled to attend a session on "Python Programming" conducted by visiting faculty Mr. Santhosh Chaluvadi, Founder & CEO, Supraja Technologies. The session will be held from 18/1/2024 to 29/01/2024 in their respective classrooms.

II B. Tech II Sem (2022 Batch) Students attend Artificial Intelligence Tools Session. As part of their Skill Oriented Course, II B. Tech II Sem (2022 Batch) students are scheduled to attend a session on "Artificial Intelligence Tools" conducted by visiting faculty Mr. Malapati Venu, Software Developer, 42 Learn, Bengaluru. The session will be held from 18/1/2024 to 29/01/2024 in their respective classrooms.

III B. Tech II Sem (2021 Batch) Students Attend IoT Session. As part of their Skill Oriented Course, III B. Tech II Sem (2021 Batch) students are scheduled to attend a session on "IoT" conducted by visiting faculty Mr. K. Raghavendra Swamy, Senior Technical Trainer, ICT Academy. The session will be held from 18/3/2024 to 28/03/2024 in their respective classrooms.

ALUMNI VOICE:

1. "Hey there, fellow alumni! Looking back on my journey at Narasaraopeta Engineering College fills me with gratitude and nostalgia. The rigorous coursework, coupled with hands-on projects, challenged me to think critically and creatively. The diverse student body and supportive faculty fostered a collaborative learning environment, where we could exchange ideas and grow together. Beyond academics, the college offered numerous opportunities for personal and professional development, from internships to industry interactions. As an alum, I'm proud to carry the values and skills instilled in me by Narasaraopeta Engineering College into my career and life."

P.Md. Azam (20471A1246) - IT Godigit Software Engineer Trainee Hyderabad

STUDENT VOICE:

"Hi everyone, just wanted to share my experience at Narasaraopeta Engineering College. The campus is equipped with state-of-the-art facilities, including well-equipped labs and a vast library, which has been instrumental in my learning journey. The college also encourages participation in various technical and cultural events, providing ample opportunities for holistic development. Moreover, the faculty members are not only experts in their fields but also approachable and supportive. Overall, my time here has been enriching, and I'm grateful to be a part of this institution."

Ch.Sinduja
(21471A1211) - IT
IV B.TECH I SEM