



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

IT CHRONICLE



DEPARTMENT OF INFORMATION TECHNOLOGY

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Volume : 03, Issue : 01

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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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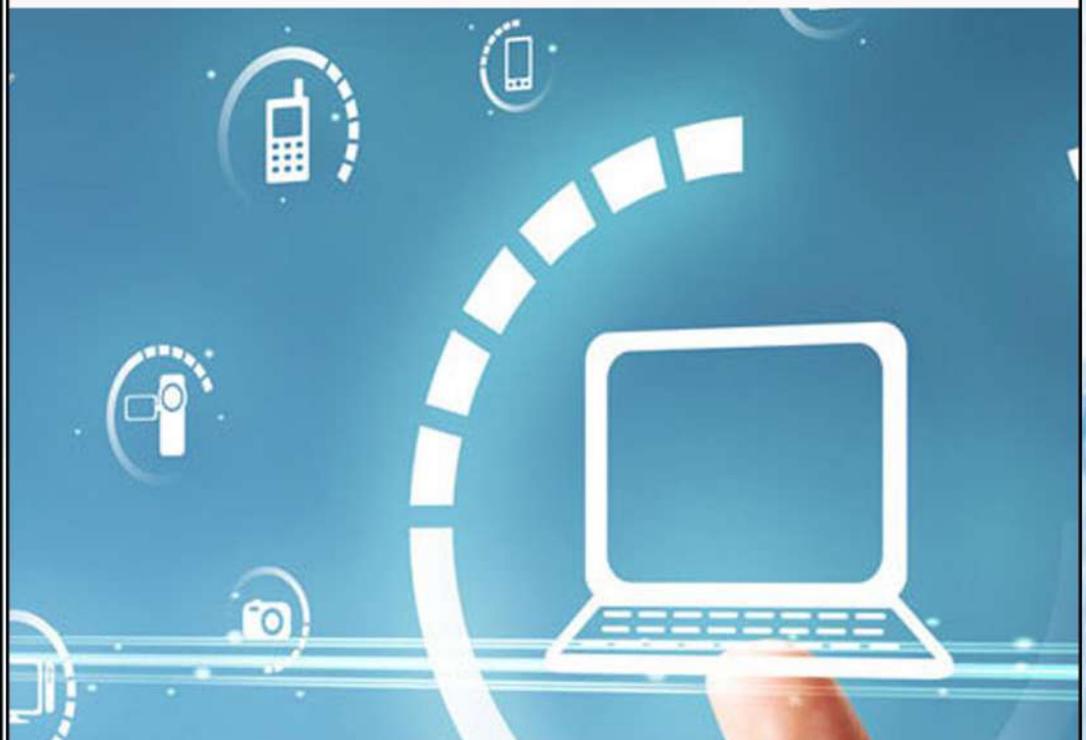
PROGRAM OUTCOMES (POs)

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** **Communications:** 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:

Computing Power:

Computing power has already established its place in the digital era, with almost every device and appliance being computerized. And it's here for even more as data science experts have predicted that the computing infrastructure we are building right now will only evolve for the better in the coming years. At the same time, we have 5G already; gear up for an era of 6G with more power in our hands and devices surrounding us. Even better, computing power is generating more tech jobs in the industry but would require specialized qualifications for candidates to acquire. From data science to robotics and IT management, this field will power the largest percentage of employment in every country. The more computing our devices will need, the more technicians, IT teams, relationship managers, and the customer care economy will flourish.

One essential branch under this field that you can learn today is RPA, i.e. Robotic Process Automation. At Simplilearn, RPA is all about computing and automation software that can train you for a high-paying role in the IT industry. Here are the top jobs you can target after RPA:

1. Data Scientist
2. AI Engineer
3. Robotics Researcher
4. AI Architect
5. Robotics Designer

Elevate your expertise in the digital age through our cutting-edge Cyber security Boot camp. Stay two steps ahead of cyber threats as you immerse yourself in hands-on training, mastering the latest defines strategies and ethical hacking techniques. Join us to become the guardian that every digital realm needs.

FACULTY FOCUS:

Publications/ Conferences/FDP:

1. Dr.B.Jhansi Vazram was participated in One Week FDP on Machine Learning, Organized by Department of Artificial Intelligence and Data Science, Computer Engineering, Dr.D.Y.Patil Institute of Engineering and Management Research, Akurdi from 10th July to 14th July 2023.
2. Dr.B.Jhansi Vazram was participated in One Week FDP on Machine Learning, Organized by Department of Artificial Intelligence and Data Science, Computer Engineering, Dr.D.Y.Patil Institute of Engineering and Management Research, Akurdi from 10th July to 14th July 2023.
3. MULE RAMAKRISHNA REDDY was participated in 6 days online Faculty Development Program on "Machine Learning in Practice" held from 19th June to 24th June, 2023 at LBRCE, Mylavaram.
4. Dr.B.Jhansi Vazram was participated in 4th International Conference on Data Science and Applications (ICDSA-2023) held during July-14-15 on Machine Learning Models for Chronic Renal Prediction, Organized by Malaviya National Institute of Technology Jaipur.
5. Sk.Mohammedjany was participated in 30 Hours International Faculty Development Program on Deep Learning for NLP and Computer Vision organized by CBIT (Hyderabad) in Collaboration with ExcelR during 10th July-28th July 2023.

6. U.Vijay Kumar was participated in 30 Hours International Faculty Development Program on Deep Learning for NLP and Computer Vision organized by CBIT (Hyderabad) in Collaboration with ExcelR during 10th July-28th July 2023.

7. P.Neelima was participated in 30 Hours International Faculty Development Program on Deep Learning for NLP and Computer Vision organized by CBIT (Hyderabad) in Collaboration with ExcelR during 10th July-28th July 2023.

8. G.Venkateswara Rao was participated in 30 Hours International Faculty Development Program on Deep Learning for NLP and Computer Vision organized by CBIT (Hyderabad) in Collaboration with ExcelR during 10th July-28th July 2023.

9. Mule Ramakrishna Reddy was participated in 1st International Conference on Emerging Technologies in Engineering and Science (ICETES-2023) on Brain Tumor Detection using CNN, organized by DVR & Dr.HS MIC College of Technology (Autonomous), Kanchikacherla, held during 11th to 12th Aug 2023.

10. U.Vijay Kumar got Academic Excellence award Certificate in the Department of IT in recognition of outstanding Achievement in Cloud Computing (3-2) for the academic year 2022-23 on the eve of Teacher's Day on 05-09-2023.

11. MULE RAMAKRISHNA REDDY was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

12. MOHAMMEDJANY SHAIK was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

13. JAYAPRAKASH KOYYALAMUDI was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

14. UPPALA VIJAY KUMAR was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

15. SIREESHA KAMBHAMPATI was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

16. SANTHI PENDEM was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

17. POLAVARAPU NEELIMA was participated in the One Week National Level Faculty Development Program on Cloud Infrastructure (AWS) organized by Narasaraopeta Engineering College in collaboration with Brain Vision Solutions India Pvt Ltd and AICTE during the period of 21st Aug to 25th Aug 2023.

18. P.Vijaya Lakshmi was participated in 10 hours National Faculty Development Program on Learning for NLP and Computer Vision, organized by NIST Institute of Science and Technology (Autonomous), during 25th Oct to 31st Oct 2023.

19. P.Naga Lakshmi was participated in 10 hours National Faculty Development Program on Learning for NLP and Computer Vision, organized by NIST Institute of Science and Technology (Autonomous), during 25th Oct to 31st Oct 2023.

20. Dr.B.Jhansi Vazram was Participated in One Week Faculty Development Program on Salesforces Platform Development-I,conducted by ICT Academy from 18th Dec 2023-22nd Dec 2023 at Narasaraopeta Engineering College.

21. K.Jaya Prakash was Participated in One Week Faculty Development Program on Salesforces Platform Development-I, conducted by ICT Academy from 18th Dec 2023-22nd Dec 2023 at Narasaraopeta Engineering College.

22. T.Venkata Manohar was Participated in One Week Faculty Development Program on Salesforces Platform Development-I,conducted by ICT Academy from 18th Dec 2023-22nd Dec 2023 at Narasaraopeta Engineering College.

23. K. Jayaprakash published a research paper titled "An Assessment of Algorithms Utilizing Machine Learning to Classify the Various Stages of Alzheimer's Disease" in the International Journal of Advanced Research in Science, Communication and Technology in November 2023, published and indexed in UGC CARE.

24. Dr. Shaik Mohammed Jany published a research paper titled "Machine Learning-Based Disease Prediction Framework for the Diabetes Health Care Industry" in Anveshana's International Journal of Research in Engineering and Applied Sciences (AIJREAS) in December 2023, indexed in Scopus.

25. K. Jayaprakash published a research paper titled "An Assessment of Machine Learning Methods for the Diagnosis of Thyroid Disease" in the International Journal of Advanced Research in Science, Communication and Technology in December 2023, indexed in UGC CARE.

26. Dr. R. Satees Kumar published a research paper titled "Mitigation Methods of Reducing DDoS Attack Frequency on Blockchain" in the 3rd International Conference on Advanced Computing and Innovative Technologies in Engineering (ICACITE), IEEE, 2023, indexed in Scopus.

27. Dr. R. Satees Kumar published a research paper titled "Advancing Decision Review System (DRS) in Cricket: Harnessing AI for Enhanced Decision Making" in the International Journal of Education and Management Engineering (IJEME), MECS Press, 2023, indexed in UGC CARE.

28. Dr. B. Jhansi Vazram published a paper titled "A Bitcoin Transaction Network using Cache-based Pattern Matching Rules" in 2023 at the 5th International Conference on Smart Systems and Inventive Technology. The paper is published by IEEE and indexed in Scopus.

29. Dr. M. Sireesha published a paper titled "A Bitcoin Transaction Network using Cache-based Pattern Matching Rules" in 2023 at the 6th International Conference on Smart Systems and Inventive Technology. The paper is published by IEEE and indexed in Scopus.

30. Dr. M. Sireesha published a paper titled "Hybrid Binary Dragonfly Algorithm with GreyWolf Optimization for Feature Selection" in 2023 at the International Conference on Innovative Computing and Communications – ICICC 2023. The paper is published by Springer and indexed in Scopus.

FACULTY ACHIEVEMENTS:

NPTEL-AICTE Faculty Development Programme Certificate was awarded to P. NEELIMA for successfully completing the course on Database Management System.



Dr B. Jhansi Vazram (HOD) was received a Performance and Contribution Institution award from IBM Skills Build Hack Challenge- 2023 on 13-10-2023

DEPARTMENTAL ACTIVITIES:

Workshops/ Seminars / Industrial visits/ Webinars:

Department was conducted an Anti –Drug Event on 26-06-2023.



Department was conducted a UNI AWAY Study Abroad Simplified on 06-07-2023.



Department was conducted a One Week Workshop on HANDS ON PROJECTS IN DEVOPS in Association with VJ TECHNOLOGIES from 10th to 15 July 2023

Department was conducted a One Week Workshop on HANDS ON PROJECTS IN DEVOPS in Association with VJ TECHNOLOGIES from 10th to 15 July 2023



Department was conducted a CRC meeting for III BTECH I SEM OF IT on 27-07-2023.

Dr.B.Jhansi Vazram (HOD) was presented an awareness program on OBE (Outcome Based Education) on 11-08-2023.



Department was celebrated a 77th Independence Day Celebrations on 15-08-2023.

Dr.B.Jhansi Vazram (HOD) was presented an awareness program on CO-PO Mapping on 16-08-2023



Department was conducted an Internal Audit on 26-08-2023

Department was Celebrated a Teacher's Day on 05-09-2023.



HOD was discussed about NBA Accreditation Inspection on 08-09-2023.

Department was celebrated an Engineer's Day on 15-09-2023.



Department was participated in National Stress Awareness Day on 01-11-2023.



CRC Meeting (2nd) was conducted for IV B.TECH I Sem of AI on 29-10-2023.



Department was participated in Blood Grouping Programme on 02-11-2023.

Department was celebrated a Orientation day on 30-09-2023



Department was conducted a CSP Review for IV B.TECH I Sem of IT & AI on 04-11-2023.



Department was celebrated a Graduation day on 30-09-2023



Department was conducted a CSP Review for IV B.TECH I Sem of IT & AI on 04-11-2023.

CRC Meeting was conducted for III B.TECH I SEM OF IT on 04-10-23.



Department was conducted an ISO Files Internal Audit on 01-12-2023.



Department was conducted an Essay Writing Competition on the occasion of National Unity Day on 30-10-2023.



Department was celebrated a World AIDS Day on 01-12-2023.

Department was conducted an Essay Writing Competition Department was conducted a plantation program day on the occasion of National Unity Day on 30-10-2023, on the occasion of National Unity Day on 30-10-2023.



STUDENT FOCUS:

Asset Sense Drive Written Test was conducted for IV B.TECH I SEM of IT & AI on 12-07-2023.



Department was conducted an IBM HACKATHON Challenge Review for III B.TECH I SEM of IT & AI on 25-07-2023.



Department was celebrated a Prizes distribution to Winners of Tech-Waves (An Innovative Code Contest) Event on 10-11-2023.

Department was conducted A One Week Hands On Boot Camp on Cyber Security from 04-12-2023 to 09-12-2023.



CODE-A-THON: A Six Day Workshop on PROBLEM SOLVING USING C followed by Hackathon”- was conducted for I B.Tech. IT&CSE(AI)- A&B Students during 18th-23rd December, 2023 organized by Department of IT & CSE(AI) and prizes were distributed to the top performers in the Hackathon.



3rd year IT students were participated in One Week Faculty Development Program on Salesforce Platform Development-I, conducted by ICT Academy from 18th Dec 2023- 22nd Dec 2023 at Narasaraopeta Engineering College.

Zereth Review was conducted for IV B.TECH II SEM of IT & CSE (AI) on 27-12-2023.



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

CO-CURRICULAR ACTIVITIES:

2nd& 3rd year IT students were participated in SPARDHA (NATIONAL LEVEL ACM TECH FEST) on 10-08-2023, organized by VVIT, NAMBURU.



2nd year IT students were participated in Flipped Learning Program on 11-08-2023.

2nd year IT & AI Students were participated in Eassy Writing Competition Program on 11-08-2023.



2nd Year AI students were participated in Women Empowerment Seminar, presented by Dr.G. Lakshmi on 17-08-2023.

2nd Year IT students were participated in Innovation Day Competition on 13-10-2023.



TRAINING PROGRAMS AND DRIVES:

S.no	Dept.	Year	Training	Duration
1.	IT	4-1	IELTS	10-07-2023
2	IT	4-1	General TCS	04-08-2023 to 19-08-2023
3	IT	4-1	TCS Azure	04-08-2023 to 19-08-2023
4	IT	3-1	CRT Training	21-08-2023 to 05-09-2023
5.	IT	2-1	Tech Hub Training	31-08-2023 to 02-09-2023
6.	IT	2-1	CRT Training	03-10-2023 to 14-10-2023
7.	IT	3-1	CRT Training	18-12-2023 to 30-12-2023



2nd year IT & CSE(AI) students were participated in Entrepreneurship Day on 09-11-2023.

NSS ACTIVITIES:

2nd Year IT students were participated in NSS (Meri Maati Mera Desh) Program on 09-08-2023, organized by IQAC and NSS.



NSS was conducted a Free Diabetic Test on 22-09-2023.



III B. Tech I Sem (2021 Batch) Students Attend Advanced Web Technologies Lab Session. As part of their curriculum, III B. Tech I Sem (2021 Batch) students attended a session on "Advanced Web Technologies Lab" conducted by visiting faculty Mr. P. Ramesh Babu, Founder & Director, Solocubes. The session, held from 3/10/2023 to 13/10/2023, took place in their respective classrooms during the scheduled lab hours.

NPTEL

Srinivasa Reddy Bhavanam successfully completed the NPTEL course "The Joy of Computing Using Python" with a consolidated score of 70%.



ALUMNI VOICE:

The infrastructure of a college plays a vital role in the development of the college as the students are now focusing on the labs, classrooms, etc while selecting a college. It is important that the colleges have very good infrastructure with advanced laboratories equipped with state of the art equipment etc. Only then the students can get hands on experience with the latest technologies. Computing resources are one of the important and mandatory needs of a college.



E. Prasanna HariGopal
(19471A1214)
Company: Nagarro Trainee Teesay
Role: Associate Software Engineer
Location: Hyderabad

STUDENT VOICE:

Narasaraopeta Engineering College is one of the prestigious and renowned institute in this region. It is a privilege to be the part of this institution. I like the faculty and I feel I had the best environment for my studies I learned many new things from my teachers who were very helpful in every way they could. The teacher-student interaction was great. The teachers were very friendly because of which I could clarify many of my doubts. High quality teaching, assessments and management of learning, regular and reliable feedback on student progress and achievements.



Sk.M.Asmath
20471A1253
IV B.TECH I SEM -IT

ACADEMIC TOPPERS



GUEST LECTURES:

IV B. Tech I Sem (2020 Batch) Students Attend Agile with Scrum Session. As part of their Skill Oriented Course, IV B. Tech I Sem (2020 Batch) students are scheduled to attend a session on "Agile with Scrum" conducted by visiting



faculty Mr. Santhosh Chaluvadi, Founder & CEO, Supraja Technologies. The session will be held from 1/9/2023 to 13/09/2023 in their respective classrooms.



II B. Tech I Sem (2022 Batch) Students Attend Data Science Tools Session. As part of their Skill Oriented Course, II B. Tech I Sem (2022 Batch) students attended a session on "Data Science Tools" conducted by

visiting faculty Mr. Kanuri Sai Ram, Associate Director & Head of HR, Info America, Hyderabad. The session, held from 3/10/2023 to 13/10/2023, took place in their respective classrooms during the afternoon session (1:30 PM - 4:00 PM).