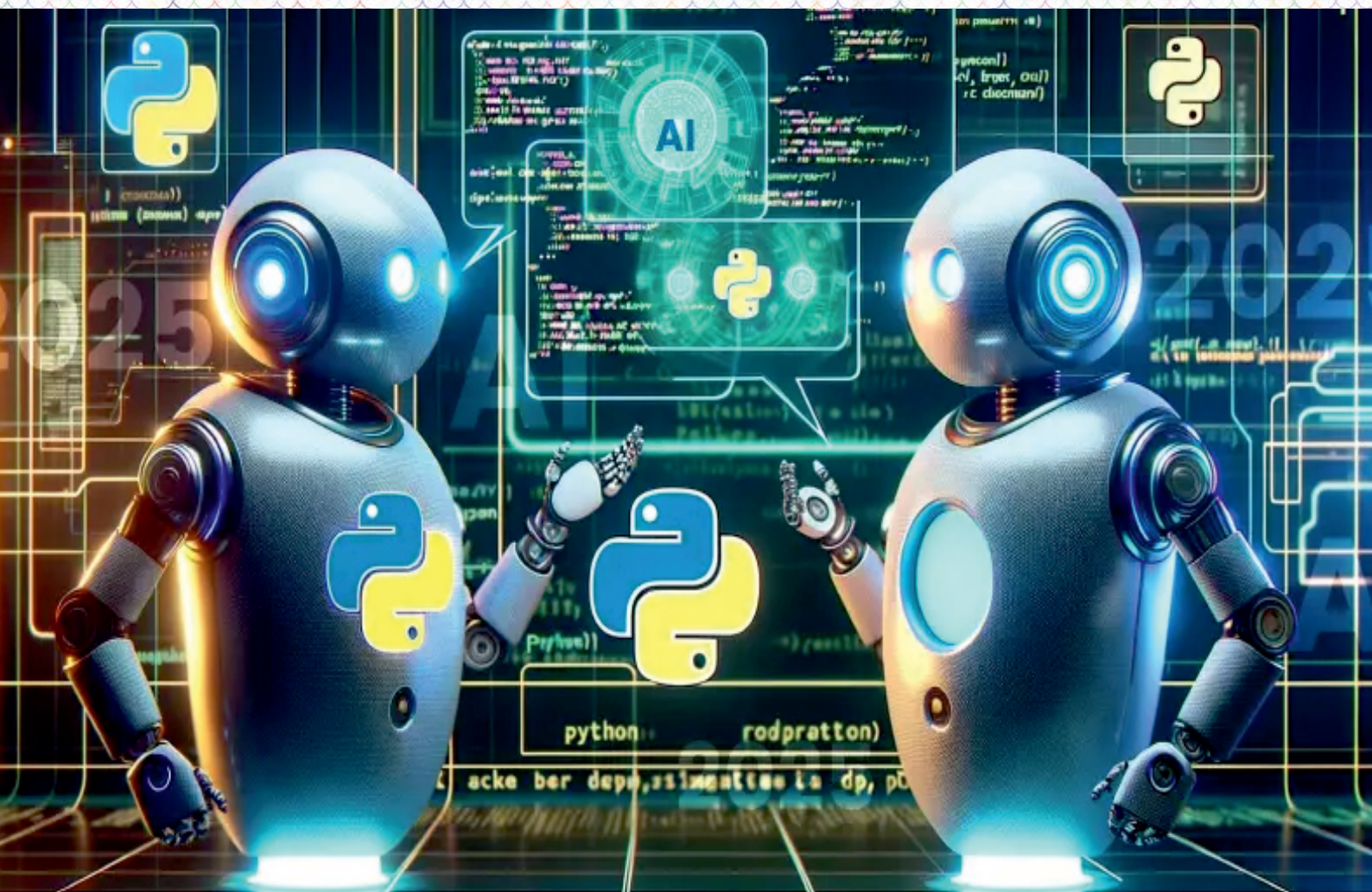## Department of Computer Science & Engineering

CSEPULSE

Bi-Monthly News Letter
(September - October)

2025-26

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Editorial Board

Name	Designation	Role	Department
Dr. P. Shanthi Priya	Assoc. Professor	Chief Editor	CSE
Mrs. S. Radhika	Asst. Professor	Editor	CSE
Mr.T.Siddartha	Student	Coordinator	IV CSE
Mr.V.Abhiram	Student	Coordinator	IV CSE
Mr. AlakantiBhavish	Student	Coordinator	III CSE
Ms.Vasishta	Student	Coordinator	III CSE
Mr. Belde Karthik	Student	Coordinator	III CSE

VISION & MISSION OF THE INSTITUTE

VISION

To be a premier institution ensuring globally competent and ethically strong professionals.

MISSION

1. To provide higher education by refining the traditional methods of teaching to make globally competent professionals.
2. To impart quality education by providing the state-of-the-art infrastructure and innovative research facilities.
3. To practice and promote high standards of professional ethics, transparency, and accountability.

VISION & MISSION OF THE DEPARTMENT

VISION

To be a center of excellence for creative and innovative Computer Science and Engineering graduates with strong programming skills, research, and industry-ready for building value-based society.

MISSION

1. Imparting the quality technical education through an effective teaching – learning process for producing global competent IT professionals with oral values.
2. Providing the state of the art infrastructure and ICT for Continuous innovative learning and research.
3. Undertake collaboration & Internship with industry to produce industry-ready graduates.

ABOUT THE DEPARTMENT

The department of Computer Science and Engineering was established in the year 2009. The growth of the Department of Computer Science & Engineering is taking strides in strength and in facilities every year. The blooming department is headed by Dr. K. Rameshwaraiah.

The Department is known for its reputed faculty having expertise in diverse fields. The students are primarily trained here to leverage computer software and hardware efficiently to provide them with a Bachelor's Degree in Computer Science. The students of the department actively participate in co-curricular and extra-curricular activities. Tech Samprathi is an informal association of students and faculty of CSE. It conducts various technical events to benefit students in academic and technical skills.

The teaching staff members are dedicated and determined to learn new things and never hesitate to give their best at all the times. Department has 9 computer centers for UG students and 1 Elite Research and Development center apart from labs provided for other branches. All the computers in computer centers are connected via LAN.

The Department is known for its eminent faculty having expertise in diverse fields. The students are primarily trained here to leverage computer software and hardware efficiently.

The main motto of the Department is to bridge the gap between industry and institution and produce industry required tailor-made engineers.

SALIENT FEATURES:

Intake
The growth of the Department is taking strides in strengths and facilities every year.

  ➤ The Department offers a four-year course of Bachelor's Degree (B.Tech) in Computer Science and Engineering with an intake of 360 seats.

Accreditations
  ➤ The Department is accredited by the National Board of Accreditation (NBA) in the year 2018 and further accredited in the year 2022.

Infrastructure

Department tailors industry required computer professionals to bridge the technological gap between Academia and Industry. It instigates the latest innovations in the new era of the world of computer science and the faculty enthusiastically involves in imparting programming roots of various technologies. Computer science and engineering comprise a total of nine computer labs with more than 400 high-end systems with software recommended by JNTUH and AICTE. UG & PG students are enforced to practice all the lab sessions in a LINUX environment.

Faculty

The teaching staff members are dedicated and determined to learn new things and never hesitate to give their best at all times. The department contains more than 40 faculty members including Professors, Associate Professors, and Assistant Professors. In addition to teaching faculty, we have non-faculty and system administrators. Department has 9 computer centers for UG students and 1 Elite Research and Development center apart from labs provided for other branches. All the computers in computer centers are connected via LAN.

The teaching staff members are dedicated and determined to learn new Technologies, update their subject knowledge, and to give their best all the time. The department enforced association with professional societies like IEEE, CSI, ISTE, etc.

The department of CSE is having an academic alliance with ORACLE Academy, VM Ware, and DELL EMC.

FACULTY ACHIEVEMENTS

Journals & Conferences

- Dr. M Santhosh Kumar, published paper on "SHO: an efficient multi-objective task scheduling in hybrid cloud-fog computing environment", in International Journal of Grid and Utility Computing Journal with ISSN No. 1741-847X Published in Sept 2025.

- Dr. M Santhosh Kumar, Dr. K Rameshwaraiah, published paper on "Enhancing Student Performance Insights through Multi Parametric STBO Based Analysis in Engineering Education", in International Journal of Modern Education and Computer Science Journal with ISSN No. 2075-0161Published in Oct 2025.

- Dr. S. Sree Hari Raju, presented conference paper on "A Next-Generation Decentralized Web Hosting System using Blockchain and IPFS" at International Conference on Modern Sustainable Systems (CMSS), in Oct 2025.

- Dr. S. Sree Hari Raju, Ms. P. Ashwini, Mrs.M.Sonia, presented conference paper on "Enhancing Early Plant Disease Detection with the Advanced GNN-based Model Leveraging Hyperspectral Imaging" at IEEE International Conference on Computer, Electronics, Electrical Engineering & their Applications (IC2E3), in Sept 2025.

- Dr. M Santhosh Kumar, Sandi Sridhar Reddy, T Spoorthi Reddy, Lavanya Reddy Mendu, Uma Devi Manchala, presented conference paper on "ROA: Energy and Environment Aware Task Scheduling in Cloud Computing" at IEEE 3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS), in Sept 2025.

- Dr. M Santhosh Kumar, Lakshmi Banavath, Sandi Sridhar Reddy, Rampaka Manoj Kumar, Ch Sri Ch Valli Revathi, presented conference paper on "Enhancing Cloud Information Security using Honey Badger Algorithm" at IEEE 2025 3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS), in Sept 2025.

- Dr. M. Santhosh Kumar, Dr. K. Rameshwaraiah, Dr. G. Sravan Kumar, presented conference paper on "PKO: Energy and Makespan Aware Scheduling in Cloud Environment using Metaheuristic Algorithm" at IEEE 2025 8th International Conference on Computing Methodologies and Communication (ICCMC), in Sept 2025.

- Dr. M. Santhosh Kumar, Dr. S. Sree Hari Raju, presented conference paper on "WSO: An Intelligent Metaheuristic Driven High Performance Task Scheduling in Cloud Computing" at IEEE 2025 8th International Conference on Computing Methodologies and Communication (ICCMC), in Sept 2025.

➢ Dr. K. Rameshwaraiah, Dr.M.Santhoh Kumar, Dr. G. Sravan Kumar, presented conference paper on "ABC: Optimizing Energy and VM Failure Rate for Task Scheduling in Cloud Computing Environment" at IEEE 2025 8th International Conference on Computing Methodologies and Communication (ICCMC), in Sept 2025.

➢ Dr. M. Santhosh Kumar,Dr. K. Rameshwaraiah, presented conference paper on "FGO: Cost and Energy-Aware Scheduling in Cloud Environment Using Meta-Heuristic Algorithm" at IEEE 2025 6th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), in Sept 2025.

➢ Dr. M. Santhosh Kumar,Dr. K. Rameshwaraiah, presented conference paper on "FGO: Cost and Energy-Aware Scheduling in Cloud Environment Using Meta-Heuristic Algorithm" at IEEE 2025 6th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), in Sept 2025.

➢ Dr. M. Santhosh Kumar,Dr. K. Rameshwaraiah, Dr. P. Shanthi Priya, presented conference paper on "PTBO: Energy and Makespan-Aware Scheduling in Cloud Computing Using Meta-Heuristic Algorithm" at IEEE 2025 6th International Conference on Data Intelligence and Cognitive Informatics (ICDICI), in Sept 2025.

NPTEL Certifications

S.No	Name of the Faculty	Name of the SWAYAM / NPTEL course	Organized
1	A Naveen	Introduction to Programming in C	IIT Kanpur
2	P Ashwini	Theory of Computation	IIT Kanpur
3	Shaik Feroz	Theory of Computation	IIT Kanpur
4	Bokinala Lokesh	Data Base Management System	IIT Kharagpur
5	Mahindraker Vijayakanth	Data Base Management System	IIT Kharagpur
6	Samuel Chepuri	Introduction to Machine Learning - IITKGP	IIT Kharagpur
7	Uma Devi Manchala	Introduction to Operating Systems	IIT Madras
8	Ashwini Kanthala	Introduction to Operating Systems	IIT Madras
9	Anireddy Sridhar Reddy	Python for Data Science	IIT Madras
10	Gattu Newton	Python for Data Science	IIT Madras
11	Ashwini Kanthala	Python for Data Science	IIT Madras

STUDENT ACHIEVEMENTS
NPTEL Certifications

S.No	Roll Number	Name of the Student	Year	Name Of The NPTEL Course
1	227Z1A0575	Karingula Anil	IV	Python for Data Science
2	227Z1A0576	Kata Nithin	IV	Python for Data Science
3	227Z1A0580	Kemidi Sri Charan	IV	Python for Data Science
4	227Z1A0593	Lingampally Swathi	IV	Python for Data Science
5	227Z1A05A4	Medishetty Shruthi	IV	Python for Data Science
6	227Z1A05A8	Pranay Mitta	IV	Python for Data Science
7	227Z1A05A9	Modala Madhavi	IV	Python for Data Science
8	227Z1A05B8	Naini Anusha	IV	Python for Data Science
9	227Z1A05C8	Padala Harshit	IV	Python for Data Science
10	227Z1A05D8	Peddi Vaishnavi	IV	Programming, Data Structures and Algorithms using Python
11	237Z1A0539	Dasari Kavya Sree	III	Python for Data Science
12	237Z1A0543	Dondeti Vasishta	III	Python for Data Science
13	237Z1A0575	Kasabu Nikhil Goud	III	Data Base Management System
14	237Z1A05A7	Mattepu Renuka Lakshmi	III	Data Base Management System
15	237Z1A05B0	Md Rounaq ali	III	Data Base Management System
16	237Z1A05H6	Yelapati Varshitha	III	Python for Data Science
17	247Z1A0502	Adabala Bhanu Satya Teja	II	Introduction to Programming in C
18	247Z1A0503	Sai Charan	II	Introduction to Programming in C
19	247Z1A05I4	M Mohana Rama Krishna	II	Introduction to Programming in C
20	257Z5A0527	Somu Shiva Kumar	II	Python for Data Science
21	227Z1A1247	Peddi SambaShiva Kumar	IV	Python for Data Science
22	227Z1A1257	Arthi Reddy	IV	Python for Data Science

Conferences

➢ Mr. G Suhas Reddy, Mr. D.China Kasim, Ms. D. Manasa, presented conference paper on "SSA: Early Detection of Mango Leaf Diseases using Feature Optimization Technique" at IEEE 2025 International Conference on Sustainable Communication Networks and Application (ICSCN), in Oct 2025.

➢ Mr. Sk.Aziz Baji, Ms. R. Brahmini, Mr. T. Remanth Gokul, presented conference paper on "Deep Reinforcement Learning for Intelligent Task Scheduling in Heterogeneous Cloud Environments" at IEEE 2025 6th International Conference on Electronics and Sustainable Communication Systems (ICESE), in Sept 2025.

INTERNAL HACKATHON FOR SIH 2025

The institute organized one day internal hackathon for SMART INDIA HACKATHON(SIH) 2025 on 25-09-2025. Mr Sai Pavan Devulapalli, Managing Director and CEO of DYIS Private Limited, is invited as Chief Guest for evaluating student ideas for the problem statements defined in the SIH2025 portal. Dr. K. Srinivas Babu, Dr S Sreehari Raju and Mr. B. Durga Prasad were empanelled in jury.

Dr C V Krishna Reddy, director NNRESGI also explained the importance of such events and encouraged the students to participate in more events to enhance logical programming, design and testing skills of the students enormously. Mr. A Naveen, the Single Point of Contact (SPOC) for the college, provided an overview of the Smart India Hackathon (SIH). He discussed its significance and goals, as well as the rules and regulations governing the competition.

Dr. K. Rameshwaraiah, Head of the Computer Science and Engineering (CSE) department, encouraged students to take part in hackathons to foster their technical abilities. The Judge, Mr Sai Pavan Devulapalli motivated the students to improve their problem solving skills by learning how to develop applications to solve real world problems and to address the current needs of the stake holders in the domains mentioned from time to time which in turn enhance entrepreneurship skills. Dr G Janardhana Raju, Dean School of Engineering and IIC Convener addressed the importance of such kind of technical events which were being conducted nationwide by public sector bodies like MHRD, AICTE with financial assistance also. Hence there is an urgent need of student attention towards such events.

Total 33 teams (198 students, 111 male and 87 female) have participated in this event.

As per the guidelines of Smart India Hackathon – 2025, and to encourage female participation in innovative problems, each team consists of at least one female student as a member. Out of them, 29 teams with software problems and 4 teams with hardware problems were chosen by the participants to work upon.

WORKSHOP on UI/UX Design

A Five-Day Student Enrichment Program (Workshop) on "**UI/UX Design**" was organized by the Department of Computer Science and Engineering from 14th October 2025 to 18th October 2025 at MBA Seminar Hall. A total of 254 students from **III Year CSE and IT** actively participated in the sessions, divided into two batches – Batch: 1 (9:15 AM to 12:50 PM) and Batch: 2 (1:30 PM to 4:00 PM). The sessions were conducted by **Mr. Uppula Abhishek**, Founder & CEO, AI Medi Coder, who served as the resource person for the workshop.

Dr. K. Rameshwaraiah, Head of the Department of CSE, inaugurated the event and highlighted the importance of UI/UX Design in modern mobile and web applications. **Mr. Uppula Abhishek** initiated the first session, covering Flutter and Dart setup, installation procedures, and the Flutter project structure. Students successfully verified their setup and executed their first Dart programs.
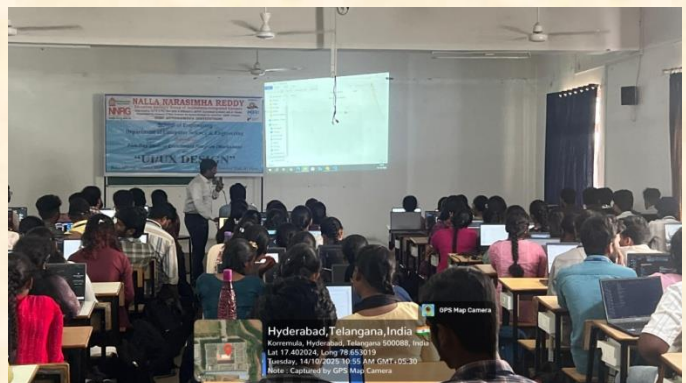
Flutter Widgets and Layout Structures are covered as part of workshop. Students explored the Widget

Tree, learned the difference between Stateless and Stateful widgets, and implemented UI elements such as Text, Image, Container, and Button widgets. Hands-on activities guided students to design layouts using Row, Column, and Stack widgets.

The trainer focused on Responsive UI Design and Navigation in Flutter.

As a conclusion, students were divided into 17 teams, each developing application based on UI/UX Design concepts covered during the workshop. The day concluded with project presentations and Q&A session with the trainer. Certificates were distributed to all participants, and appreciation certificates were awarded to teams demonstrating outstanding creativity and performance.

Topics covered:
- Widget concepts and hierarchy
- Core UI components
- Layout design using Row, Column, and Stack
- Building interactive screens
- Stateful widget lifecycle
- Provider-based state management
- Custom widget creation and styling
- Theme configuration and color scheme

Certification Program on IBM Advanced Skills Build

As per the schedule in the department's academic plan, a Certification Program on **"IBM Advanced Skills Build Program"** was conducted from **28-10-2025** to **31-10-2025** students for a total of 139 students of IV – CSE, CSE (AI&ML), & IT in which 65 are girls and 74 are boys under **"Youth Empowerment",** theprogram was conducted for **42 hours** in which 24 Hours for Offline and 16 Hours of Online for Self Learning Training, and 2 Hours for Assessment. The training is organized under A CSR Initiative by **IBM** and implemented by ICT Academy. **Mr. Syed Irfan Ali – Founder & Director, Eduwedo, Internation Corporate Trainer, Telangana, and Mr. Umair Ahmed Khan - Cyber Security Instructor, Cyber Heals Infotech Pvt Ltd, Telangana,** arethe resource persons for the certification program.

Program was started the inauguration of "**IBM Advanced Skills Build Program"** from **09:30 AM** to **10:30 AM** with an Inaugural Speakers Dr. K. Rameshwaraiah – Convener, SPOC, Professor & Head CSE, and Mr. B. Gopal Reddy – Head TS, ICT Academy are the inaugural speakers for the event and started the program with lighting of lamp and followed by the speakers addressed the students.

A CSR Initiative by

IBM.®

Implemented by

ICTACADEMY®

Orientation Session for

IBM SkillsBuild
in Advanced IT Skills

Felicitating with the Samplings to Mr. B. Gopal Reddy, State Head – Telangana, ICT Academy, Trainers - Mr Syed Irfan Ali & Mr Umair Ahmed Khan

Certification Program on Data Analytics

As per the schedule in the department's academic plan, a Certification Program on **"Data Analytics"** was conducted from **08-10-2025** to **27-10-2025** students for a total of 65 students of IV – CSE & IT in which 35 are boys and 30 are girls under **"Youth Empowerment – Finishing School for Employability",** theprogram was conducted for **100 hours** in which 80 Hours of Technical and 20 Hours of Soft skills Training was conducted which is organized under A CSR Initiative by **Infosys Foundation** and implemented by ICT Academy through. **Mr. Madhu Sanjeevi - Security & AI Trainer, DEGEN GEN Academy, Hyderabad, Telangana, and Mr. Bodhisattwa Kundu – Certified Master Life Coach, Hyderabad, Telangana** is the resource person for the certification program.

08-10-2025: Started the inauguration of "**Youth Empowerment – Finishing School for Employability"** from **09:15 AM** to **10:20 AM** with an Inaugural Speakers, Sri. Nalla Narasimha Reddy - Chairman, Nalla Prashanth - Vice Chairman, Dr. C. V. Krishna Reddy – Director, Dr. G. Janardhana Raju – Dean SOE & IIC Convenor, Dr. K. Rameshwaraiah – Convener, SPOC, Professor & Head CSE, and Mr. B. Gopal Reddy – Head TS, ICT Academy are the inaugural speakers for the event and started the program with lighting of lamp and followed by the speakers addressed the students and started the training session as per scheduled.

INDUSTRIAL VISIT

The Department of Computer Science and Engineering organized an industrial visit to the National Remote Sensing Centre (NRSC), Hyderabad, on 16th September 2025. The visit was planned as part of the academic curriculum enrichment program to provide students with practical exposure to real-world applications of Information Technology in space research and remote sensing.

A total of 71 III-Year CSE students and 2 faculty members, along with the coordinator, actively participated in this educational tour.

Objectives:

The main objectives of the industrial visit were:

- To gain insights into the functioning and research activities of NRSC.

- To understand the role of remote sensing, GIS and satellite data processing in real-life applications.

- To bridge the gap between classroom learning and industry practices.

- To expose students to emerging technologies in space research and data analytics.

Activities During the Visit:

1. **Orientation Session:**

   Officials at NRSC welcomed the students and gave an introduction about ISRO and NRSC's role in space and earth observation.

2. **Presentation & Demonstration:**

Students attended a technical session where experts explained:

- Satellite data acquisition and processing.

- Applications of remote sensing in agriculture, water resource management, disaster management and urban planning.

- IT infrastructure used in handling large-scale spatial data.

3. **Laboratory Visit:**

Students visited different laboratories to observe the use of advanced technologies in image processing, GIS systems, and satellite communication.

4. Interactive Q&A Session:

Students interacted with NRSC scientists, clarified doubts, and discussed career opportunities in space research and IT applications.

Outcome:

The visit proved to be highly informative and inspiring. Students gained knowledge beyond textbooks, understood real-world IT applications, and were motivated to align their career paths toward innovative technologies in space research, data science, and remote sensing.

Conclusion:

The industrial visit to NRSC, Hyderabad, on 16th September 2025 was a successful and enriching experience for the III-Year IT Students of NNRG. The Department of CSE extends heartfelt thanks to NRSC officials for their valuable time and guidance.

Such visits not only enhance technical knowledge but also inspire students to contribute to India's growth in the field of technology and space research.
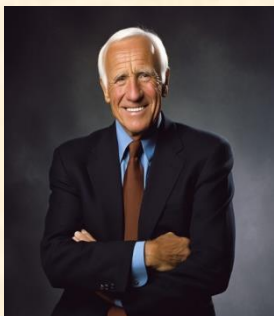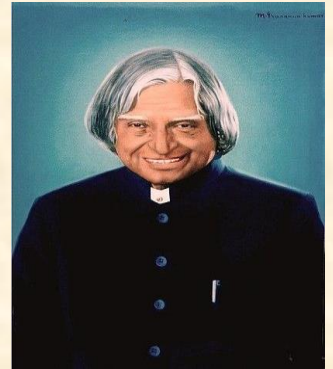

Students and Staff Group Photo with NRSC Team.
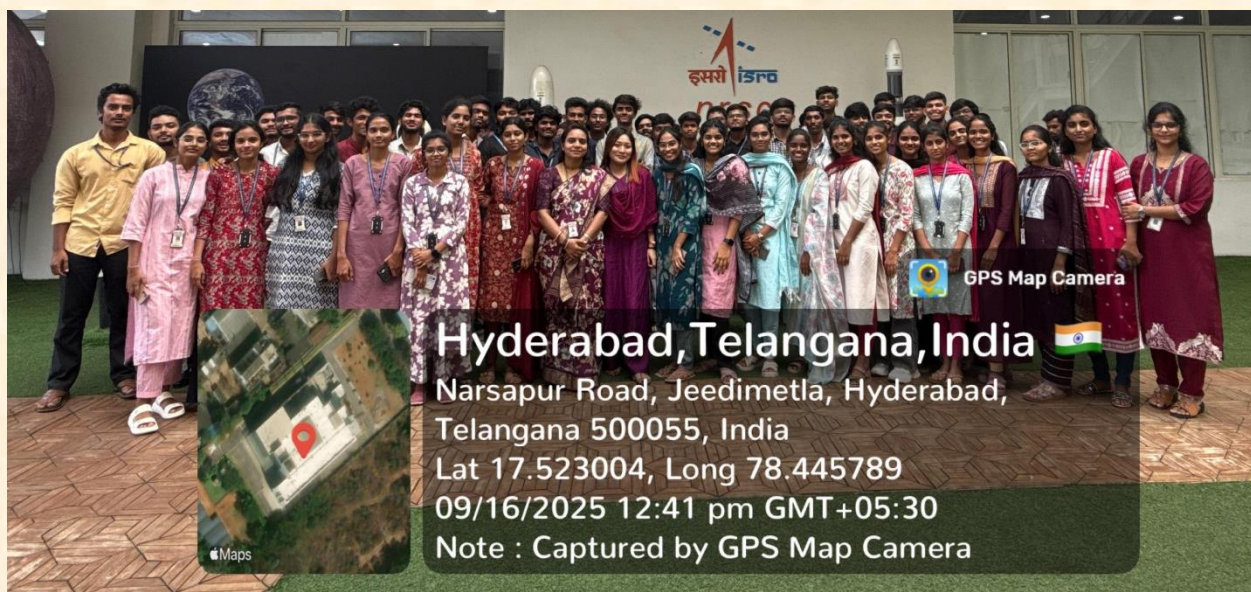
Students and Staff Group Photo at NRSC-ISRO

"The power of concentration is the only key to the treasure-house of knowledge."

- A.P.J Abdul Kalam

"Discipline is the bridge between goals and accomplishment."

- Jim Rohn

"Education is not just about gathering knowledge, but more so about learning how to think."

- Sandeep Maheshwari

![Nalla Narasimha Reddy Group of Institutions logo — NNRG Integrated Campus]

NALLA NARASIMHA REDDY

Education Society's Group of Institutions–Integrated Campus

Near Narapally, Chowdariguda (V), Korremula 'X' Road, Ghatkesar (M),
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