

Department of  
**COMPUTER SCIENCE AND ENGINEERING**

# **NEWSLETTER** **2021-22**

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ESTD: 2001

**NARAYANA**  
**ENGINEERING COLLEGE**  
**GUDUR, AP (AUTONOMOUS)**



### Vision of the institute

To be one among the premier institutions of the country for professional education in producing technocrats with competent skills, Innovative ideas and Ethics to serve the nation.

### Mission of the institute

To provide an environment most conducive to learning with state-of-the-Art infrastructure, well equipped laboratories and research facilities to impart high quality technical education.

To emphasize on innovative ideas and creative thinking and prepare them to meet the growing challenges of the industry.

To inculcate the leadership qualities, multi-disciplinary approach, Ethics and lifelong learning in graduates to serve the diverse societal needs of our nation.

### Vision of the Department

To produce globally competent software professionals in the field of Computer Science and Engineering to meet the needs of industry and society along with research and consultancy, lifelong learning, leadership qualities and ethics.

### Mission of the Department

To deliver quality technical education by practicing innovative teaching learning processes making student's self-sufficient individuals.

To inculcate innovative thinking and problem solving skills in learners through training programs and collaborative interaction with industry.

To develop professional behavior with strong ethical values, leadership qualities and lifelong learning by providing value based education.

### PEOS

**PEO-1 :** To Attain higher positions in career by exhibiting expertise in solving real world problems.

**PEO-2 :** To Fill technical gaps and take leadership roles and achieve substantive results for the development of the organization.

**PEO-3 :** To Adapt to rapidly changing technologies through Lifelong learning.



**(PROGRAM SPECIFIC OUTCOMES) PSOs**

**PSO 1: Software Product Development:** Apply the principles and practices of software Engineering for developing quality software applications.

**PSO 2: Employment:** Get employed in industries through their knowledge attained in Basic and advanced programming languages, specialized software packages or become an entrepreneur.

**(PROGRAM OUTCOMES) POs**

**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 multi disciplinary 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.

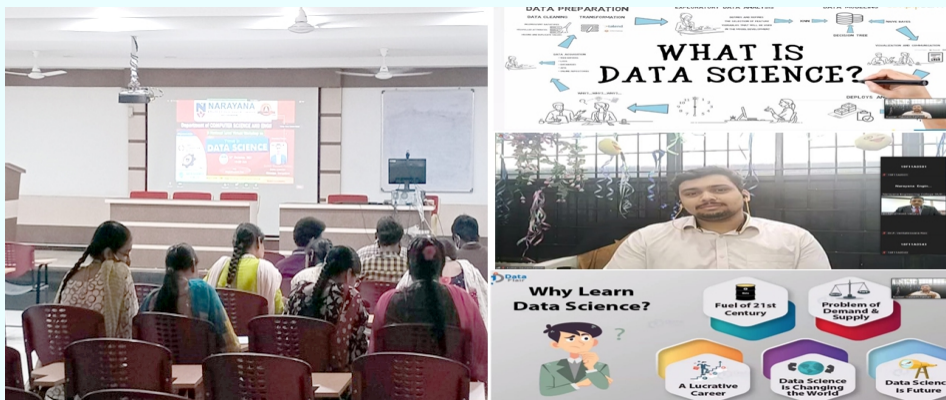
**11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**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.



## A National Level Workshop on Trends in Data Science

The Data Science Club of CSE Department, NECG had conducted A National Level Workshop on **Trends in Data Science** on 18-10-2021. This Workshop had been conducted by Data Science Club under the IEEE Student chapter Computer Society and it was organized by the students of Data Science Club. Principal, Vice Principal, HOD had addressed the gathering. The resource person addressed the Third and Fourth year students and explained about the what Data Science is, what is the future of data science and life cycle of data science and he also explained about tools and techniques of the Data Science.



## Bridge Course

Sno	Class	Bridge Course Name	Resource Person	Date of Conduction	Remarks
01	II CSE A&B,C	Object Oriented Paradigm	Dr.P.Venkateswar Rao, Professor, Dept.Of CSE, NECG	26 <sup>th</sup> - 28 <sup>th</sup> November, 2021 10:50 AM - 11:40 AM	Bridge course for OOP Using JAVA
02	II CSE A&B,C	How To Write Effective Pseudocode	Mr.D.Murahari, Asst.Professor Dept.Of CSE, NECG	26 <sup>th</sup> - 28 <sup>th</sup> November, 2021 11:40 AM - 12:30 PM	Bridge course for Data Structures and Algorithms(DSA)

## Workshop on Cloud Management through DevOps

The Coders club of CSE Department, NECG had conducted A National Level Workshop on **Cloud Management through DevOps** sponsored under AICTE SPICES SCHEME in association with **Indian Server Vijayawada** on 23/10/2021. The resource person Mr.M.Sasidhar, Cloud DevOps, CEO, VSS Innovative Technologies, have addressed the participants and explained about What is DevOps?, What is Cloud Management? and explained the development and operations of DevOps in the phase of Cloud Management. This in-depth explanation made students understand the topic and its applications in this field.





## Workshop on Google Cloud Platform

The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur conducted a Workshop on **Google Cloud Platform** under Coder's Club on **27<sup>th</sup> Oct 2021** sponsored by AICTE SPICES SCHEME in Association with Indian Server's. The resource person Mr.Reddappa Reddy, Assistant Systems Engineer, had been introduced by the HOD Dr.P. Venkateswara Rao, Principal Dr.V.Ravi Prasad had addressed the students and explained the importance of Google Cloud Platform and also said that Cloud



computing has emerged as a revolutionary paradigm through which organizations can optimize their Information and Communication Technology (ICT) investments.

## Workshop on Source Code Management Using Git & Github

The Coders club of CSE Department, NECG has conducted A National Level Workshop on **Source Code Management Using Git & Github** sponsored under AICTE SPICES SCHEME in association with **Indian Server Vijayawada** on **06/11/2021**. The resource person **Mr. Subramanyam Rekhandar**, Full Stack Developer, Software Developer at Finari Services Private Limited, addressed the Final year and Third year students and told What is Git & Github?, Why is Github important? and explained the Github features, how to use Git and Github. This simple and in-depth explanation made students understand the topic and its importance in the software field.



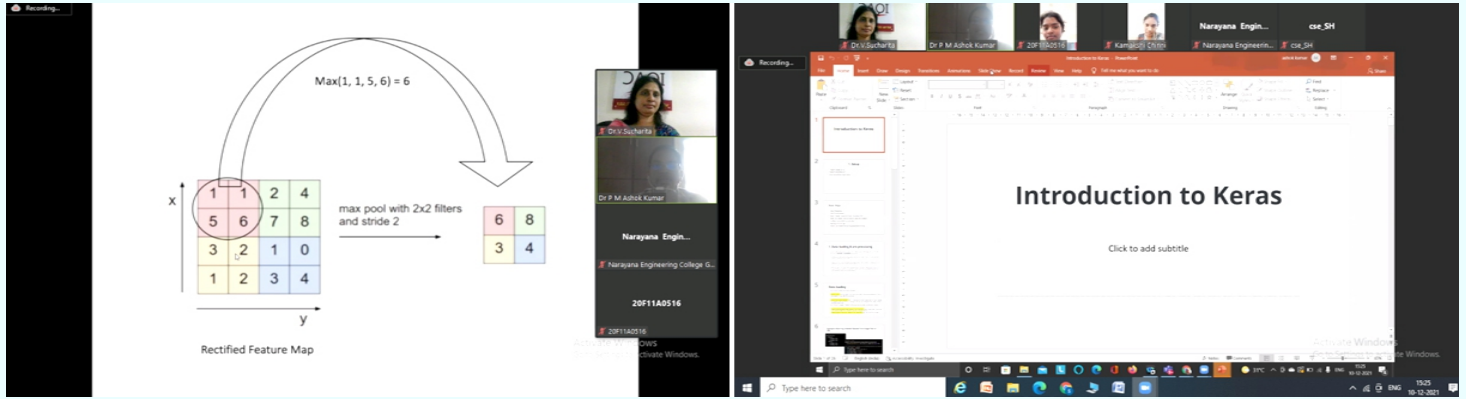
## A Webinar on Software Product Management

The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur had conducted a Webinar on **Software Product Management** under IIIC on **9<sup>th</sup> December 2021** by **Mrs. M. VIMALA, Product manager, USA**. In Association with 'Nirvin Solutions, Hyderabad'. The resource person had been introduced by the HOD Dr.P. Venkateswara Rao. Followed by the principal Dr. V. Ravi Prasad who had addressed the III B.Tech cse students, The resource person had explained how Software product management is the function responsible for all aspects of a software product.



## Workshop on Applications in Deep Learning (Data Science Club)

The Datascience Club of Department of Computer Science and Engineering of Narayana College of Engineering, Gudur Organized online workshop on Application Deep in Learning on **10<sup>th</sup> December 2021** by Dr.P.M.Ashok Kumar, PhD Associate Professor, Dept of CSE, KL University, India. The resource person had been introduced by the department HOD Dr.P. Venkateswara Rao, followed by the principal **Dr.V.Raviprasad** who had addressed the students and explained the importance of Data science. The resource person explained about Deep Learning and its Applications of industrial-research works carried out using feature engineering and machine learning techniques regarding deep learning to the students.



## A National Level Workshop on Android App Development

The Coders club of CSE Department, NECG has conducted A National Level Workshop on **Android App Development** under AICTE SPICES SCHEME in association with **Indian Server Vijayawada** on **18/12/2021**. The resource person Mr. Rajesh Kumar, Cloud Senior Software Engineer (Android), L&T technology Services Ltd, Bangalore had addressed the students and explained about What is Android App



Development?, How does it work? the pre-requisites and the development process in each phase of Android App development.

## A Workshop on "Software platforms for e-Learning"

The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur conducted a Workshop on **"Online Practicing Software Platforms For e-Learning"** under IIIC on **21<sup>st</sup> December 2021** by **D. Chandra sekhar**, Zonal business head CodeTantra Tech Solutions, Hyderabad. In Association with 'Code Tantra, Hyderabad' resource person has been introduced by the HOD Dr.P. Venkateswara Rao. Followed by principal **Dr.V.Ravi Prasad** addressed the II B.Tech cse students and explain how the CODE TANTRA platform started as an interactive ,intelligent platform to learn programming.





## Workshop on Product Development for NextGen in IT

The Coders club of CSE Department, NECG had conducted Workshop on **Product Development for NextGen in IT** sponsored under **AICTE SPICES SCHEME** in association with **Indian Server Vijayawada** on **21/12/2021**. The resource person **Ms. Gayathri Aruru**, Project Engineer Wipro Technologies, Bangalore, addressed the students and explained about Product Development and for next generation in the phase of IT.



## A Workshop on Python And Its Applications In Real World

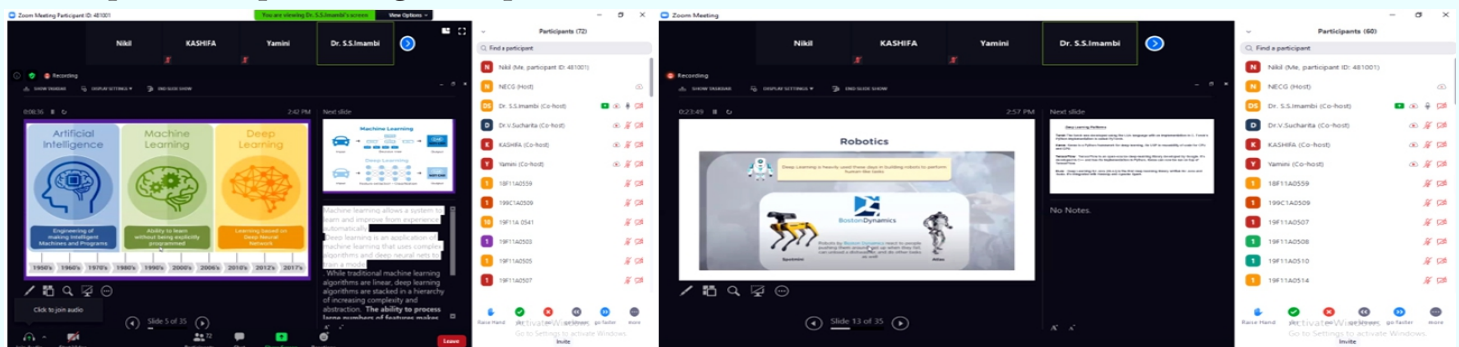
The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur had conducted a Workshop on **Python And Its Applications In Real World** under **IIIC** on **23<sup>rd</sup> December 2021** by **Mr. G. Sai Krishna**, Consultant Capgemini, Chennai. In Association with **Nirvin Solutions**, The resource person has been introduced by the

**HOD Dr.P. Venkateswara Rao** and principal **Dr.V.Ravi Prasad** addressed the students. The resource person explains how Python is one of the most popular programming in both the coding and Data Science communities.



## Online Workshop on Deep Learning GAN model and its usecases

The Data Science Club of CSE Department, NECG has conducted online workshop on **Deep learning GAN model** and its use cases on **29-12-2021**. This Workshop has been conducted by Data Science Club under the IEEE Student chapter Computer Society and it was organized by the students of data Science club. HOD had addressed the gathering. The Resource person addressed the students and explained on Techniques in Deep Learning Concepts.





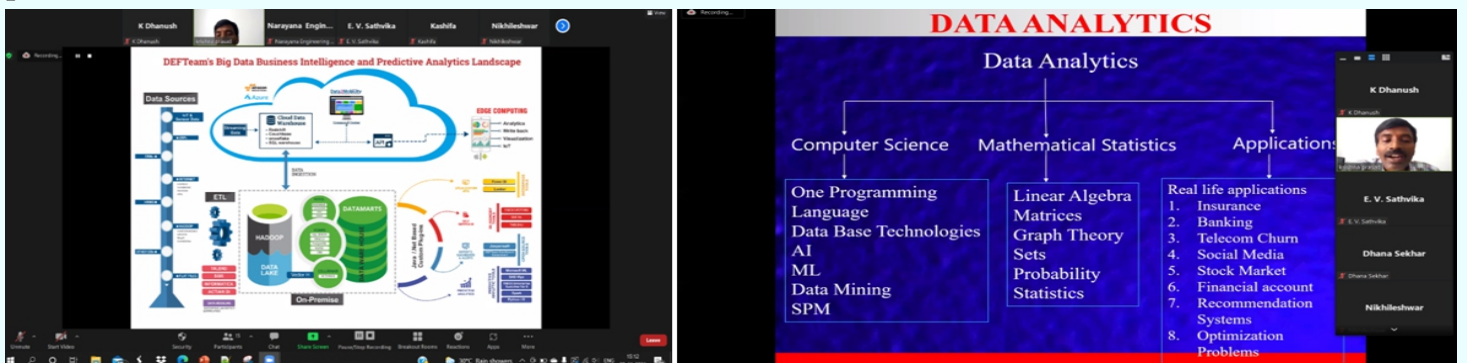
## A Tech-Talk on Statistics for Data Science

The Data Science Club of CSE Department, NECG had conducted A Tech-Talk Series on **Statistics for Data Science** on **22-10-2021**. This Tech-Talk Series had been conducted by Data Science Club under the IEEE Student chapter Computer Society and was organized by the students of data Science club. HOD had addressed the gathering. The Speaker addressed the Third-year B.Tech students and explained about the Introduction to statistics, statistics terms, Types of statistical measures and also why we use statistical in data science and its importance. Speaker **Mr. E. Nikhileshwar**, explained well about statistics for data science.



## A Guest Talk on Data Analytics Using R Tool

The Data Science Club of CSE Department, NECG had conducted a Guest Talk on **Data Analytics Using R Tool** on **05-11-2021**. This Guest Talk had been conducted by Data Science Club under the IEEE Student chapter Computer Society and it was organized by the students of data Science club. HOD had been addressed the gathering. The resource person **Dr A.V. Krishna Prasad** professor in IT Department, MVSR Engineering College Hyderabad, explained well about Data Analytics Using R tool with hands on practice.



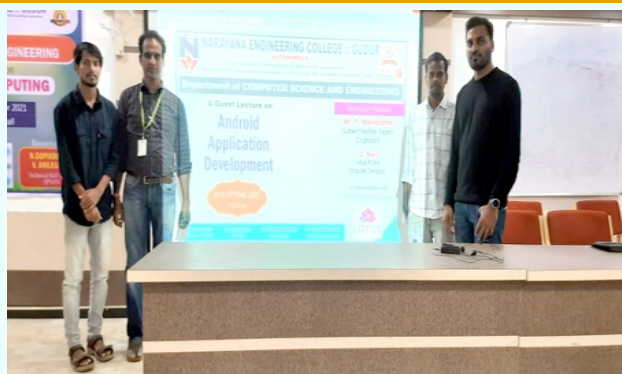
## Guest Lecture on Problem Solving Techniques using Artificial Intelligence and Machine Learning

The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur Organized Guest Lecture on **Problem Solving Techniques using Artificial Intelligence and Machine Learning** in association with IET from **11.11.2021 to 12.11.2021** for III B.Tech Students by Mr. Karthik Vasu, Assistant Professor, Dept of ISE, M S Ramaiah Institute of Technology. The resource person had been introduced by the department HOD Dr.P. Venkateswara Rao, followed by the principal Dr.V.Raviprasad who had addressed the students. The resource person explained the importance of Artificial Intelligence.



## GUEST TALK ON ANDROID APPLICATION DEVELOPMENT

The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur had conducted a Guest talk on **ANDROID APPLICATION DEVELOPMENT** on 16 to 17<sup>th</sup> December 2021, 9.30 AM at Seminar Hall for III B.Tech Students. The Resource Persons are **Mr. P. Manikanta**, Subject matter expert, Cognizant and **Mr. G. Ravi**, ANA PLAN Enquire Zenpact, in association with lotus technologies. The resource person had been introduced by the HOD Dr. P. Venkateswara Rao.



## Career Guidance for Computer Science & Engineering Aspirants

The Department of Computer Science and Engineering of Narayana College of Engineering, Gudur had conducted a seminar on **Career Guidance for Computer Science & Engineering Aspirants** in Association with After Campus Pvt Ltd, on 18<sup>th</sup> November 2021 by B. Susmitha, Application development Associate, Accenture, Bangalore. The Resource person had been introduced by the HOD **Dr. P. Venkateswara Rao**.



## A Value Added Course on Internet of Things

Department of Computer Science and Engineering, Narayana Engineering College, Gudur had conducted a **Value Added Course on Internet of Things** from 08<sup>th</sup> December 2021 to 10<sup>th</sup> December 2021 by the Resource Person **Mr. B. Suresh Kumar**, Technical Skill Trainer, APSSDC. A Total number of **65 students** from Second Year CSE have benefited throughout this course. The main goal is to shortly describe all components needed to Internet of things.





## A Value Added Course on AWS Cloud Computing

Department of Computer Science and Engineering, Narayana Engineering College, Gudur had conducted a **Value Added Course on AWS Cloud Computing** from 13<sup>th</sup> December 2021 to 15<sup>th</sup> December 2021 by the Resource Persons **Mr.N.Gopi Krishna and V.Anil Kumar**, Technical Skill Trainers, APSSDC. A Total number of **60 students** from Second Year CSE have benefited throughout this course. The main goal is to describe all components needed to AWS Cloud Computing.



## CODE SPACE

The Coders club of CSE Department, NECG had conducted A **CODE SPACE** sponsored AICTE SPICES SCHEME in association with **Indian Servers Vijayawada** on 15/12/2021. Students from our college and various other colleges have participated in CODE SPACE and got prizes.



## Poster Making on National Integration Day

The Department of Computer Science and Engineering Women Forum wing of Narayana College of Engineering, Gudur had conducted a Poster Making on **National Integration Day** on 25<sup>th</sup> November, 2021. All the posters were presented by the Participants to raise awareness the importance of National Integration Day. The students participated in the programme with great enthusiasm and also promised to preserve the integrity of our nation.





## Literacy On Legendary Women

The Department of Computer Science and Engineering Women Forum wing of Narayana College of Engineering, Gudur had conducted a Essay Writing for the topic of **Women in STEM who changed the world** on **22<sup>nd</sup> December, 2021**. All the Participants got awareness among students about the importance of Literacy On Legendary Women. The students participated in the programme with great enthusiasm and also promised to preserve the Literacy On Legendary Women. This competition is Open for IEEE and Non-IEEE Members for all branches.



## QUIZ On Python Programming

The Coders club of CSE Department, NECG has conducted A **QUIZ On Python Programming** in association with **Indian Servers Vijayawada** on **16/12/2021**. We have organized quiz on python programming and good numbers of teams were participated & grab prizes.



## Poster Making on National Integration Day

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## QUIZ BUZZ On Python Programming



The Coders club of CSE Department, NECG had conducted A **QUIZ BUZZ On Python Programming** sponsored by AICTE SPICES SCHEME in association with **Indian Servers Vijayawada** on 16/12/2021. Quiz has been conducted to students on python programming.

## Group Discussion

The Coders club of CSE Department, NECG had conducted A **Group Discussion** sponsored under AICTE SPICES SCHEME in association with **Indian Servers Vijayawada** on 16/12/2021. Students from our various institution have attended the group discussion on the latest technologies like IoT, Artificial Intelligence etc.



## Research Trends in Machine Learning

The Department of Computer Science and Engineering Women Forum wing of Narayana College of Engineering, Gudur in association with **IEEE WIE Affinity Group** has conducted on **Research Trends in Machine Learning** on 23<sup>rd</sup> December 2021. Dr. K.Swarna, Associate Professor, CSE Department, KLEF. Resource person had been introduced by the HOD Dr. P. Venkateswara Rao.



# NARAYANA

## ENGINEERING COLLEGE :: GUDUR

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