



INFO-BYTE

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INFORMATION TECHNOLOGY



ADITYA ENGINEERING COLLEGE (A)

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ABOUT IT DEPARTMENT

Aditya Engineering College established the Department of Information Technology (IT) in 2001 with an initial intake of 60 students. A Post graduate program (M. Tech) in Software Engineering was introduced in 2008-09 with an intake of 18 seats. Both the B. Tech and M. Tech programs were duly approved by the AICTE and Govt. of A.P. and affiliated to JNTUK. The department has the professional association with ISTE and CSI. The skilled faculty members with high qualification are dynamic in teaching, research consultancy programs. The department strives to upgrade the knowledge of faculty and students by organizing various Workshops, Industry-Institute Interactions, Continuous Improvement Programs, Seminars and Research activities by inviting eminent personalities from Industry and academic Institutions. Students are provided internship programs in various IT industries to impart value based education in innovative research and leadership aspects.

VISION OF THE DEPARTMENT

To emerge as a premier department with quality of education, technical competency and innovations.

MISSION OF THE DEPARTMENT

MISSION 1:

Provide an academic environment with quality infrastructure for solving real world problems and work in multi-disciplinary teams.

MISSION 2:

Impart value-based education in innovative research and leadership aspects.

MISSION 3:

Collaborate with the industry and academic towards addressing the evolving changes in Information Technology and related areas.

FACULTY PUBLICATIONS

The following faculty published papers in Journals/ International Conferences:

- M.Raja Babu“An Efficient Skin Cancer Detection Model with Fusion of Convolutional Neural Networks and LSTM”, IC2PCT 2024, Greater Noida, 9-10 Feb 2024.
- G.Srinivas, “Advancing Heart Disease Detection by using Ensemble Meta-Features Integration”, IC2PCT 2024, Greater Noida, 9-10 Feb 2024.
- A.Lakshmanarao,“An efficient smart grid stability prediction system based on machine learning and deep learning fusion model ”,Journal of Electrical Systems, Vol. 33 No. 2 ,Feb-2024.
- M.Raja Babu, “An Effective Malware Detection Model Using a Novel Fusion of Machine Learning and ANN Approach”, ICACTEA, Aditya Engineering College,Surampalem,2nd- 3rd Feb 2024.
- A. Lakshmanarao, “Fusing CNN and LSTM Models for Enhanced Fake News Detection using Deep Learning”, Sixth International Conference on Advance Informatics for Computing Research(ICAI CR 2023), Haryana, 16-17 Dec 2023.
- P. PattabhRama Mohan, “IOT based smart system for garbage detection and separation”, Sixth International Conference on Advance Informatics for Computing Research(ICAI CR 2023), Haryana, 16-17 Dec 2023.
- A.Lakshmanarao,“Enhancing Cloud Data Privacy with a Scalable Hybrid Approach: HE-DP-SMC”,Journal of Electrical Systems, Vol. 19 No. 4 ,December-2023.
- A. Lakshmanarao, “Loan Default Prediction Using Machine Learning Techniques and Deep Learning ANN model”,International Conference on Intelligent Systems-2024,Kerala,16-18 November 2023.

FACULTY ACTIVITIES

FACULTY ACHIEVEMENTS

Mr. M. Rajababu, from the Department of Information Technology, has successfully qualified the National Eligibility Test (NET) 2023.



Mr. P. Pattabhirama Mohan, Assistant Professor, Department of Information Technology secured Best Faculty Award from AIMER Society.



FACULTY AS RESOURCE PERSON

Mr.P.Pattabhirama Mohan, Assitant Professor, Department of IT delivered a guest lecture on “Career Opportunities in IT”on 08-12-2023 at Governemt Degree College, Ramachandrapuram, A.P.



FDP ON MACHINE LEARNING AND DEEP LEARNING

Department of Information Technology organized a Five Days Online FDP Program on “MachineLearning and DeepLearning” from 26-12-2023 to 30-12-2023. Dr. Shikha Mehtha, Professor, Department of CSSE, IIIT – Greater Noida acted as resource person for the FDP. 70 participants attended this FDP.


Attribute Selection Measure: Information Gain (ID3/C4.5)

- Select the attribute with the highest information gain
- Let p_i be the probability that an arbitrary tuple in D belongs to class C_i , estimated by $|C_{i,D}|/|D|$
- Expected information** (entropy) needed to classify a tuple in D :

$$Info(D) = - \sum_i p_i \log_2(p_i)$$
- Information** needed (after using A to split D into v partitions) to classify D :

$$Info_A(D) = \sum_{j=1}^v \frac{|D_j|}{|D|} \times Info(D_j)$$
- Information gained** by branching on attribute A

$$Gain(A) = Info(D) - Info_A(D)$$

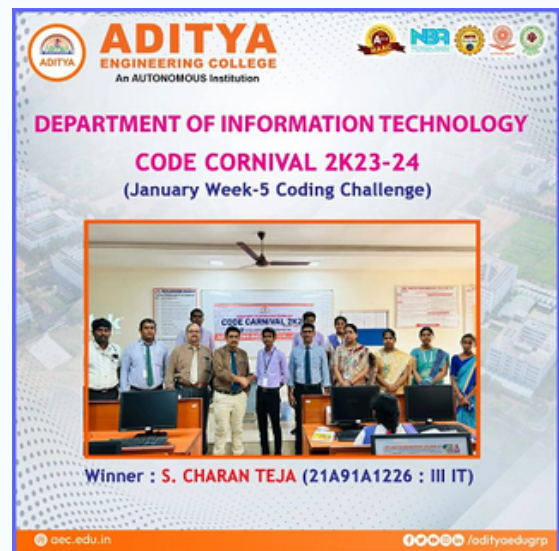
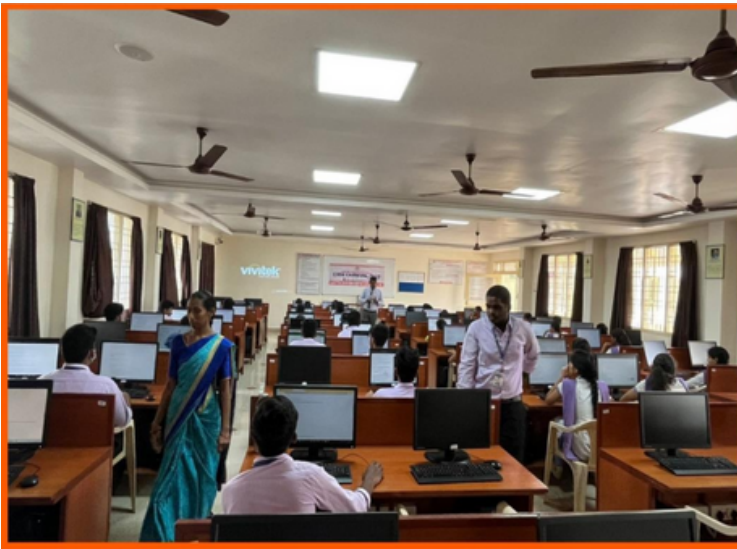


The screenshot displays a Zoom meeting in progress. The main area is a 3x3 grid of video feeds. The participants are: Parimatharu, A Lakshminarayana, Lakshmi Lakshmi Talya, Lakshminarayana, K. ANANDHA KANAKA, Dr. Naga Bhargava Kuvuru, A Rajaguru, Anandhan, and Nandana Subramani. On the right, a sidebar lists all participants. On the left, a panel shows meeting controls like chat, share screen, and mute. The top bar shows the meeting ID 92 07 59.

STUDENT ACTIVITIES

CODE CARNIVAL CODING CHALLENGE

Code Carnival 2K23-24 January Week 5 Coding Challenge was conducted by Department of IT on 29th January 2024. The challenge consists of three rounds: Easy, Medium, and Hard, each involving finding missing code. The winner in the challenge is Mr. S. Charan Teja(21A91A1226).



INDUSTRIAL VISIT

On 13th February 2024, second-year Information Technology students embarked on an insightful industrial visit to Miracle Software Systems Inc. in Vishakapatnam.

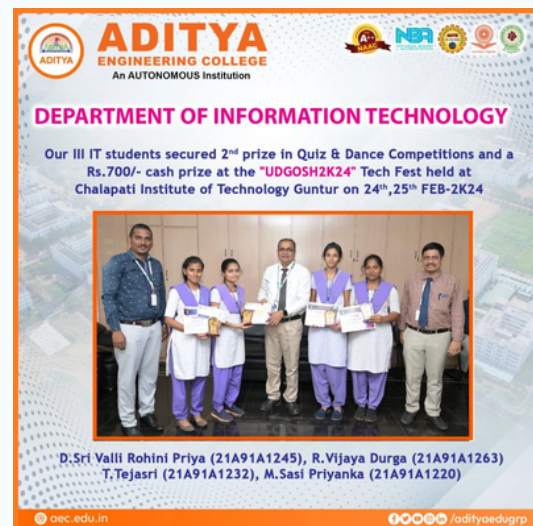


STUDENT ACHIEVEMENTS

Ayushi Sahai of II Year IT attended "Triumph in Education in Inter- State Student Exchange Program-Women Empowerment", in VARANASI, U.P. from 05-02-2024 to 09-02-2024.



III IT students D.Sri Valli Rohini Priya (21A91A1245), R.Vijaya Durga(21A91A1263), T.Tejasri(21A91A1232), M.Sasi Priyanka(21A91A1220) grabbed 2nd prize in Quiz at “UDGOSH2K24” Tech Fest held at Chalapati Engineering College, Guntur during 24-02-2024 and 25-02-2024.



Smart India Hackathon-2023

IV IT students (N. Srinu Vinay Kumar ,N. Srinu Vinay Kumar,N. Chakravarthi ,N. B. N. S Gowtham,Y. Nischala, P. Santhosh Manikanta) participated in Smart India Hackathon 2023 final software edition at New Horizon College of Engineering, Bengaluru during 19th-20th December 2023.



PLACEMENTS

ADITYA
ENGINEERING COLLEGE(A)
Surampalem, Andhra Pradesh, INDIA

NBA

NAAC **A++**
ACCREDITED BY GRADE

DEPARTMENT OF INFORMATION TECHNOLOGY

Heartly Congratulations

for being placed in

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VANKADARA NAVYA
B.Tech (IT)

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