# ADITYA
## COLLEGE OF ENGINEERING AND TECHNOLOGY

ADITYA
ENLIGHTENS THE NESCIENCE

## DEPARTMENT OF INFORMATION TECHNOLOGY

JUN-NOV 2020-2021

# mind spark
## Magazine

## SPARKING

## A LEARNING REVOLUTION

## Editorial Board

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Asst.Prof

N.SURYA KALA
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G.DHARANI
17P31A1215

# <u>Chairman's Message</u>



## <u>Dr. Nallamilli Sesha Reddy</u>
### <u>CHAIRMAN</u>

I believe in the philosophy of thought, word and deed as eternal which made Aditya what it is today.My thought to set a high bar to the institutions I setup by rising to the challenges of the educational field and get prepared for a life dedicated to the pursuit of knowledge,My word which always reflected my vision and gained the conviction of the heads of the institutes and parents,and my deed which makes my home and workplace as extensions of each other by considering the staff and students as the members of my extended family shaped Aditya.

I know the value of a good education, more so because I did not have the benefit of the facilities that make the learning process smooth. I began my career as a lecturer, giving up my desire of qualifying in the Service Commission Examination. Out of my despair was born a strong determination which took the shape of Aditya Educational Institutions.Challenges, Competition and the fear of failure are natural, but success embraces those who face these with the can-do attitude. For me this can-do attitude is backed up by our state-ofthe- art infrastructure, picturesque & inspiring setting and devoted team of faculty-members and administrators. The learning ambience at all the constituting Institutions is perfectly suited for all-round growth and academic excellence. Today, the group has a proud record of evolving efficient, confident and highly knowledgeable technocrats, managers, pharmacists and entrepreneurs with global thinking and futuristic mind-set.

The present-day job market poses fresh challenges that need to be managed innovatively. Global business Incubation centre, Microsoft Innovation Centre, Technical Skill Development Institute, T-hub, Training and Placement Cell, GATE coaching etc., act as perfect vehicles for this.

I wish you all the best.

## Information Technology

# <u>Vice-Chairman's Message</u>

As a direct product of Aditya I know how my father toiled to place Aditya on the academic map of the country through its various phases of expansion even under the most trying circumstances.

My Masters degree from UTS Australia, the best university in the continent, has given me deeper understanding and insight into the education system. This was coupled with the ideology of my father which enabled me to take the onus of steering Aditya. In succession, Aditya technical campus, Surampalem has been established to offer professional education in engineering, technology,

**<u>Dr.N.Satish Reddy</u>**
**<u>Vice-Chairman</u>**

management and pharmacy with the core concept of quality and excellence.Ever since its inception in 2001, the campus has registered speedy progress by upholding its abiding commitment to advance knowledge and educate students in science and technology. The prime aim of the campus is to make teaching and research relevant to the practical world.

The campus offers numerous opportunities for the aspiring students which lay a strong foundation for the corporate world. T-Hub is a specimen of innumerable opportunities provided to students with enough competitive inputs to become T-shaped engineers, facilitate internship opportunities on the campus, develop partnerships with corporate and industry giants etc. through its various programs.The ultimate aim of Aditya is to make the campus the 'first stop' for companies in the recruitment process. In this regard training and placement cell takes utmost care to groom students according to the needs of the industry.

Keeping in view the demands of the work environment which is beyond just knowledge and marks, a lot of emphasis is laid on the overall personality development of the students. Various clubs run by the students, events like VEDA (technical fest) and COLOURS (youth fest) etc. challenge the latent talent in the students and bring them to the fore.

Finally a desire can change nothing, a decision can change something but a determination can change everything. For sure Aditya is strongly determined to provide its students a successful career .

Wish you good luck

# PRINCIPAL'S MESSAGE



**Dr.T.K.Rama Krishna Rao**
PRINCIPAL

The significant problems we face cannot be solved at the same level of thinking we were at when we created them." - Albert Einstein. It is only through knowledge that man attains immortality. Knowledge has to expand or grow to remain knowledge. The road to excellence is toughest, roughest and steepest in the Universe. The world requires and honors only excellence. Available information has to be directed by wisdom and intelligence to create new knowledge. Promotion of creativity is the new role of education. It is only through creative thinking that the present and future problems can be addressed to find dynamic solutions. Technology should be used to help remove poverty from the world. In fact 40% of the world's poor are in India. Confidence leads to capacity. It is faith in oneself that produces miracles. Education at ACET helps build Character, Strengthen the mind, expand the intellect and establish a culture of looking at problems in a new perspective. The student is put through rigorous training so that he can stand on his own feet after leaving the portals of the Institute.

Information Technology

# HOD's Message



## Mr. R V V N Bheema Rao
### HEAD OF THE DEPARTMENT

Today the branch of Information Technology is becoming pervasive as technology is changing rapidly in the field of computer science. So the process of learning should not end with the acquisition of a degree.

# INFORMATION TECHNOLOGY

The main source and strength of the department is its faculty, the department maintains the faculty as per the ratio , the main focus of the faculty members is to provide in-depth knowledge to the students in the respective course. The undergraduate program is emphasized on theoretical and practical aspects, apart from these the students are nurtured to participate in online coding competitions like TCS Hack Quest, Microsoft Imagine Cup, etc., the department has taken an initiation to expose the student towards the online coding platforms like Hackerrank, Code Chef. The department possesses computer labs with high end configuration and also CM Skill Excellence Center and also possesses a good placement record. Department of Information Technology organizes various workshops and seminars to the students to get an exposure in par with the trends in technology. Current industry needs a student with an exposure and skill set in Database Management, Artificial Intelligence, Web Development, Cloud Architecture, Project Management, etc., So the program driven by the department is managed to make the student industry ready.

Information Technology

## Department mission

- To provide an environment for the development of professionals with knowledge and skills
- To promote innovative learning
- To promote innovative ideas towards society
- To foster trainings with institutional collaborations
- To involve in the development of software applications for societal needs

## Department Vision

To be a department with high repute and focused on quality education.

Information Technology

# PSO'S

## PSO 1:

Apply mathematical foundations, algorithmic and latest computing tools and techniques to design computer-based systems to solve engineering problems.

## PSO 2:

Apply knowledge of Engineering and develop software-based applications for research and development in the areas of relevance under realistic constraints.

## PSO 3:

Apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product.

Information Technology

# PH.D AWARD



## Dr. Chandra Sekhar Kolli
### Sr.Asst.Prof M.Tech,Ph.D

I am Dr. Chandra Sekhar Kolli, I have pursued my research work at GITAM (Deemed to be University) Visakhapatnam, Andhra Pradesh, India, and obtained the Ph.D. degree in the academic year 2021-22, during 20th October 2021. I am presently working as a Senior Assistant Professor at Aditya College of Engineering and Technology, East Godavari, Andhra Pradesh. Before joining @Aditya College, I worked as Assistant Professor in KL University, Project Associate in IIT Hyderabad, Assistant Professor at MITS-Madanapalle, Sree Vidyanikethan - Tirupati. I have nine years of Academic and one year of Research experience. My major focused research areas are Predictive Analytics, Cyber Security, Machine Learning, and Deep Learning techniques for some domain-specific problems.

## Information Technology

# PYTHON

Python is commonly used for developing websites and software, task automation, data analysis, and data visualization. Since it's relatively easy to learn, Python has been adopted by many non-programmers such as accountants and scientists, for a variety of everyday tasks, like organizing finances.

"Writing programs is a very creative and rewarding activity," says University of Michigan and Coursera instructor Charles R Severance in his book Python for Everybody. "You can write programs for many reasons, ranging from making your living to solving a difficult data analysis problem to having fun to helping someone else solve a problem."

Python has become a staple in data science, allowing data analysts and other professionals to use the language to conduct complex statistical calculations, create data visualizations, build machine learning algorithms, manipulate and analyze data, and complete other data-related tasks.

Python can build a wide range of different data visualizations, like line and bar graphs, pie charts, histograms, and 3D plots. Python also has a number of libraries that enable coders to write programs for data analysis and machine learning more quickly and efficiently, like TensorFlow and Keras.

Python isn't only for programmers and data scientists. Learning Python can open new possibilities for those in less data-heavy professions, like journalists, small business owners, or social media marketers. Python can also enable non-programmer to simplify certain tasks in their lives. Here are just a few of the tasks you could automate with Python:

- Keep track of stock market or crypto prices
- Send yourself a text reminder to carry an umbrella anytime it's raining
- Update your grocery shopping list
- Renaming large batches of files
- Converting text files to spreadsheets
- Randomly assign chores to family members
- Fill out online forms automatically

Python is often used to develop the back end of a website or application—the parts that a user doesn't see. Python's role in web development can include sending data to and from servers, processing data and communicating with databases, URL routing, and ensuring security. Python offers several frameworks for web development. Commonly used ones include Django and Flask.

Some web development jobs that use Python include back end engineers, full stack engineers, Python developers, software engineers, and DevOps engineers.
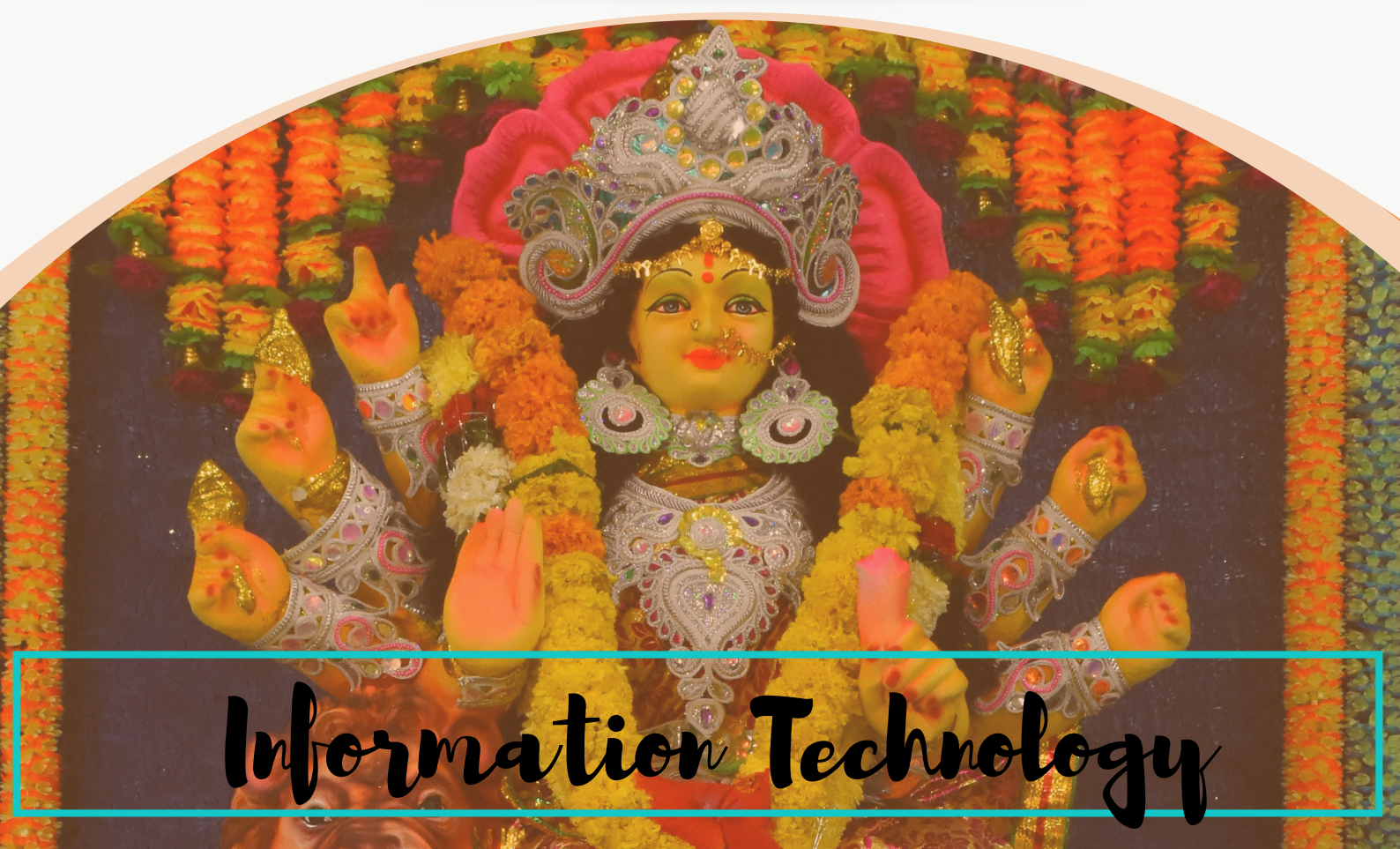
## Information Technology

# WORKSHOPS ATTENDED BY FACULTY

| S.No | Name of the faculty | Name of the Event | Name of the organizer | Dates/ Duration |
|------|---------------------|-------------------|-----------------------|-----------------|
| 1 | Thiruveedula Srinivasulu | Global Webinar Series on Cyber Security | JNTUK, Vizianagaram | 20-06-2020 to 26-06-2020 |
| 2 | Dr. Ch V Raghavendran | International Conference on Machine Intelligence and Soft Computing (ICMISC-2020) | Vignan's Institute of Information Technology (A) Vishakhapatnam & VFSTR Deemed to be University Guntur | 03-09-2020 to 04-09-2020 |
| 3 | Dr. Ch V Raghavendran | International Conference on Research Outlook, Innovations and Research Trends (ICROIRT-2020) | Research Outlook, Innovations and Research Trends in Science and Technology | 29-08-2020 to 30-08-2020 |
| 4 | Dr. Ch V Raghavendran | Workshop on Python Programming | 360 DigiTMG, Hyderabad | 03-08-2020 to 07-08-2020 |
| 5 | Dr. Ch V Raghavendran | International Workshop on Applications of Python Programming in NLP and Data Science | JNTUK University College of Engineering, Vizianagaram | 04-10-2020 |
| 6 | Dr. Ch V Raghavendran | Transformation Through NAAC Accreditation Process, A National Level Workshop for Higher Educational Institutions | Institute for Academic Excellence, Hyderabad in collaboration with Collegiate Education & Technical Education Department, Telangana | 21-06-2020 to 22-06-2020 |
| 7 | Dr. Ch V Raghavendran | Building Data-Driven Solutions Using Data Analytics with ML and DL | CBIT(A), Hyderabad, Telangana | 24-06-2020 to 28-06-2020 |

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| 8 | Kovvuri N Bhargavi | Data Science & Its Applications In STEM | Andhra University College Of Engineering (A),Andhra University and University Engineering College - Vizianagaram, JNTUK, Kakinada | 07-09-2020 to 21-09-2020 |
|---|---|---|---|---|
| 9 | Haritha Darisi | A Webinar on Data Science using Python | Vikas Group of Institutions | 14-06-2020 |
| 10 | Haritha Darisi | Online impact lecture session on Innovations and Entrepreneurship Program | Institute's Innovation Council, Aditya College of Engineering & Technology, Surampalem | 22-06-2020 |
| 11 | Dr. Regella Venkata Satya Lalitha | Online impact lecture session on Innovations and Entrepreneurship Program | Institute's Innovation Council, Aditya College of Engineering & Technology, Surampalem | 22-06-2020 |
| 12 | Dr. Regella Venkata Satya Lalitha | International Conference on Computer Vision, High Performance Computing, Smart Devices and Networks | JNTUK, Kakinada | 28-12-2020 to 29-12-2020 |

# Faulty Publications

| Sl. No. | Name of the Faculty Author | Title of the Paper | Name of the Journal | ISBN/ ISSN Number | Vol/ Month | Index No UGC/ Scopus |
|---|---|---|---|---|---|---|
| 1 | Thiruveedula Srinivasulu | Enhancing Clinical decision support systems using supervised learning methods | The International Journal of Analytical and Experimental modal analysis | 0886-9367 | Vol XII May, 2020 | UGC |
| 2 | Ch V Raghaendran | Preventing Intrusions into Networks using Honeypot Servers | International Journal of Scientific Research in Computer Science Applications and Management Studies | 2319 – 1953 | Volume 9, Issue 3, May, 2020 | UGC |
| 3 | Ch V Raghaendran | Enhancing Clinical Decision Support Systems using Supervised Learning Methods | The International Journal of Analytical and Experimental Modal Analysis | 0886-9367 | Volume XII, Issue V, May, 2020 | UGC |
| 4 | Kovvuri N Bhargavi | Exploiting Ensemble Learning for Rainfall Prediction using Meta Regressors and Meta Classifiers | International Journal of Engineering and Advanced Technology (IJEAT) | 2249 – 8958 | Volume-9 Issue-3, February 2020 | Scopus |

# DUSSEHRA CELAEBRATIONS

*Information Technology*

# TEACHERS DAY CELEBRATIONS

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P.Vineetha Reddy

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P.S.K.Deepika

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ValueMomentum

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PALLEKALA VINAY**

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# Paper & Poster Presentation by students

## prize winners

| SS.No | Name of the students | Name of the event | Topic | Venue | Date | Award |
|---|---|---|---|---|---|---|
| 1 | CHINNAM HARIKAREDDY | DIGITAL VEDA 2K21 | PAPER PRESENTATION ON AI/ML | ADITYA ENGINEERING COLLEGE(A),SURAMPALEM | 15/9/21 | first |
| 2 | SOMISETTY VENKATA PUSHPA SRIRAMYA | DIGITAL VEDA 2K21 | POSTER PRESENTATION ON CLOUD COMPUTING | ADITYA ENGINEERING COLLEGE(A), SURAMPALEM | 15/9/21 | Third |
| 3 | DUVVA RAMYA PREETHI | DIGITAL VEDA 2K21 | PAPER PRESENTATION ON AI/ML | ADITYA ENGINEERING COLLEGE(A), SURAMPALEM | 15/9/21 | first |