

INFOBYTE

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DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING



ADITYA ENGINEERING COLLEGE (A)

APPROVED BY AICTE, NEW DELHI, PERMANENTLY AFFILIATED TO JNTUK, KAKINADA

Chairman's Message

Dr. N Sesha Reddy



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 for the institutions I setup by rising to the challenges of the educational field and getting prepared for a life dedicated to the pursuit of knowledge, My word 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 for 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 a can-do attitude. For me, this can-do attitude is backed up by our state-of-the-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-around 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 a futuristic mindset.

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



Vice Chairman's Message

Dr. N Satish Reddy

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's degree from UTS Australia, the best university in the continent, has given me a 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, 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 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 with a successful career

Wish you good luck

SECRETARY'S MESSAGE

Mr. N Deepak Reddy



As we look to the future, one thing is certain - knowledge will be a key resource and will be highly sought-after around the world. To meet this, Aditya primarily focuses on educating and training students to work in fields where they will be valued both for their specialized knowledge and for their ability to research, communicate and solve problems.

Learning is not just confined to the classroom at Aditya. It is something beyond that in the form of conferences, workshops, seminars, guest lectures, Hackathons, Appons, project making, community initiatives, sports, cultures, clubs, and other co-curricular and extracurricular activities. These activities expose students to aspects beyond the curriculum, thus adding value to their professional success. The magnificent infrastructure of Aditya and the dynamic and qualified staff set the right ambiance for facilitating these activities.

Owing to my education in one of the best schools in India, The Good Shepherd School, Ooty, and the exposure I gained there, especially in the field of Information Technology, I am fully aware of the ever-increasing demand of the world.

With a close watch on the dynamics of the fast-changing world which urges the academicians to give the right impetus for making life-long learners, we ensure the ongoing relevance of our academic programs twined with substantial training on Industry- oriented employability skills and scientific assessment and evaluation. Also, with a belief that character, without which a man's thought may be useful to himself, would not be useful to society, we strive to create responsible students who are epitomes of the highest ethics and social conduct.

I am very delighted to express that the quality of Adityans is recognized by the employers who offer jobs to our students even before the announcement of the results. Our alumni are contributing to their professions and have earned senior positions in public & private sectors nationally and internationally.

Good Luck



Principal's Message

Dr. M Sreenivasa Reddy

**"THE WHOLE PURPOSE OF EDUCATION IS TO
TURN MIRRORS INTO WINDOWS.."**

- SYDNEY J.. HARRIS

Aditya Engineering College boasts professionalism personified by way of world-class campus amenities, sustaining quality education for the students to enhance their employability quotient. The holistic approach of the institute stimulates a paradigm shift towards 'Global education', and innovation students by inspiring fresh perceptiveness, creative thinking, and firm conviction to achieve true success.

With an aim to build the youth for the future, the college aims to nurture budding talents in the field of engineering and technology as per industry needs. The college with novel programs relentlessly tries to transform students' potential into rewarding careers resulting in national progress.

Best Wishes...

About the Department

The Department was established in the year 2001 with an intake of 60. The intake was increased to 120 in the year 2005 and 180 in the year 2013. The department was accredited by NBA in the year 2008. The department has well-experienced and qualified faculty. The Department is recognized as a “Research Centre” by JNTUK, in the year 2018.

The department aims at promoting quality and value-based education by harnessing the skills of students, creating awareness of the advancements in Computer Science and preparing them for the agile industry.

The department is offering UG & PG (CSE) programmes. The department is having CSI Students Chapter & ISTE Student and Faculty Chapters. The Department as Well-equipped Laboratories and a Centre of Excellence.

Vision of the Department

To emerge as a competent Centre of excellence in the field of Computer Science and Engineering for industry and societal needs.

Mission of the Department

MISSION 1

Impart quality and value based education

MISSION 2

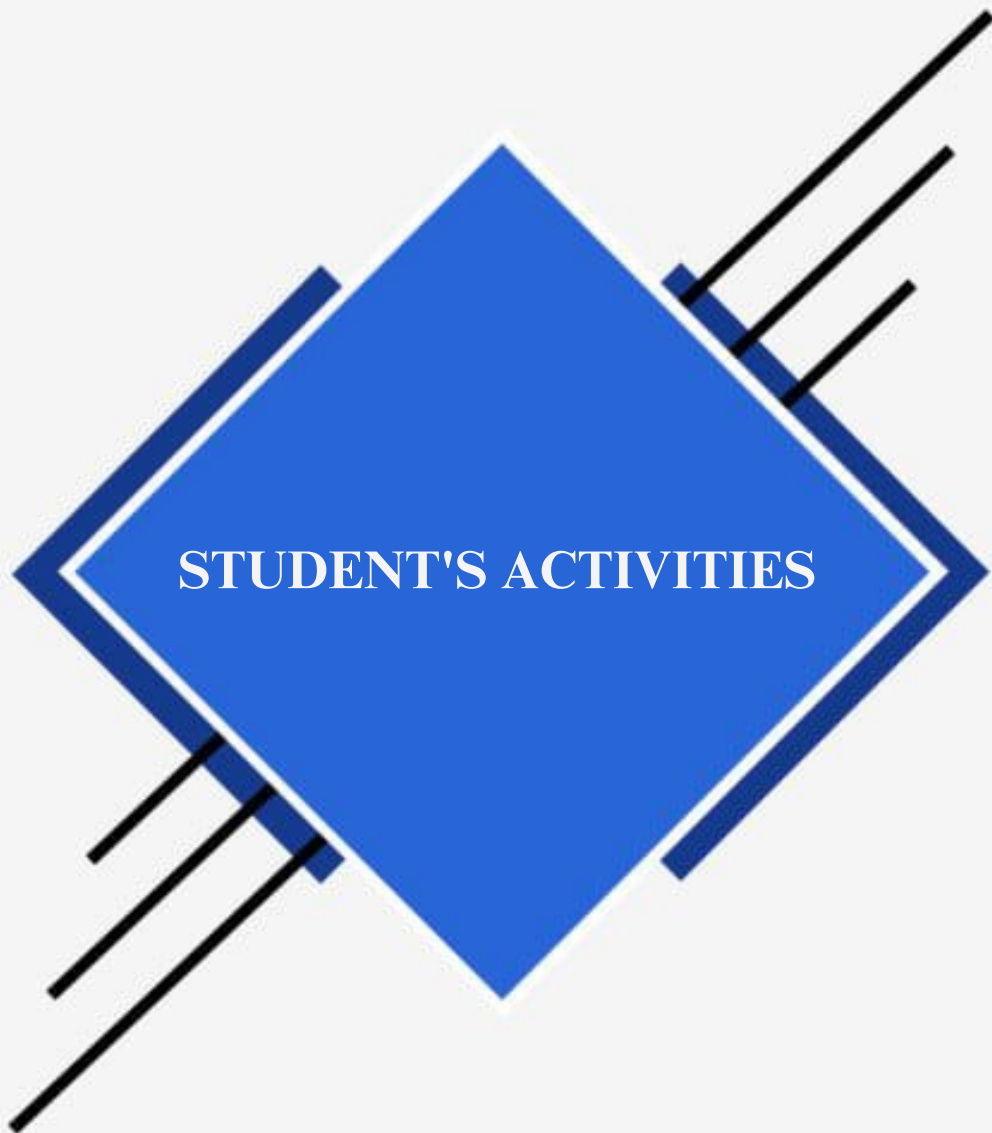
Inculcate the inter personal skills and professional ethics

MISSION 3

Enable research through state-of-the-art infrastructure

MISSION 4

Collaborate with industries, government and professional societies



POETRY

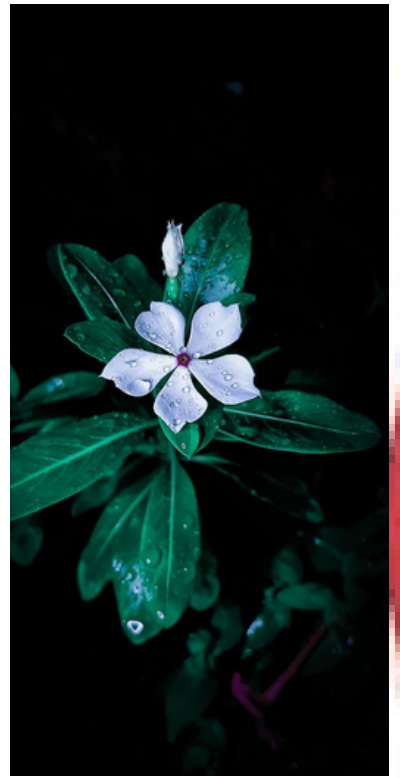
నారాయణ నీ నామమే గతి యిక
కొర్కెలు నాకు కొనసాగుటకు

కింది లోకములు కేడు నరకములు
అందెటి స్వర్గాలవె మీద
చెంది యంతరాత్మ శ్రీ వేంకటేశ నీ
యందె పరమపద మవల మరేది

నారాయణ నారాయణ....

- శక్తి అంతా మీలోనే ఉంది! దీనిని విశ్వసించండి.
బలహీనులమని భావించకండి! లేచి నిలబడి మీలో
అంతర్లీనంగా ఉన్న శక్తిని ప్రకటించండి!
- జిత్తువిశ్వాసం కలిగి ఉండండి. గొప్ప విశ్వాసాల నుండి
మహత్తర కార్యాల సాధించబడుతాయి.
- మీ పై మీరు విశ్వాసం కోల్పోవడం అంటే భగవంతునిపై
విశ్వాసం కోల్పోవడమే.
- ఎన్నడూ బలహీనులుగా ఉండకండి. మీరు శక్తి సమన్వితులై
ఉండాలి. మీలో అనంతశక్తి ఇమిడి ఉంది.

BY
BUGGE MADHURI
18A91A0511



Photography

**BY
K SATHWIK
18A91A0525**

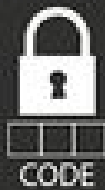




BY
BIDAWAT TARAJIT SINGH
19A91A0505



PUZZLES



Can You Crack The Code ?

7 9 5

One number is correct and well placed

7 4 1

One number is correct but wrong place

4 6 3

Two numbers are correct but wrong place

1 2 8

Nothing is correct

1 6 9

One number is correct but wrong place

BY

KORUPROLU BHARGAVI

19A91A0527

Water Jug Problem

A Water Jug Problem: You are given two jugs, a 4-gallon one and a 3-gallon one, a pump which has unlimited water which you can use to fill the jug, and the ground on which water may be poured. Neither jug has any measuring markings on it. How can you get exactly 2 gallons of water in the 4-gallon jug?



Technical Articles

ROBOTIC PROCESS AUTOMATION (RPA)



Like AI and Machine Learning, Robotic Process Automation, or RPA, is another technology that is automating jobs. RPA is the use of software to automate business processes such as interpreting applications, processing transactions, dealing with data, and even replying to emails. RPA automates repetitive tasks that people used to do.

Although Forrester Research estimates RPA automation will threaten the livelihood of 230 million or more knowledge workers or approximately 9 percent of the global workforce, RPA is also creating new jobs while altering existing jobs. McKinsey finds that less than 5 percent of occupations can be totally automated, but about 60 percent can be partially automated.

For you as an IT professional looking to the future and trying to understand latest technology trends, RPA offers plenty of career opportunities, including developer, project manager, business analyst, solution architect and consultant. And these jobs pay well. An RPA developer can earn over ₹534K per year.



5G DEVICES

5G is the 5th generation mobile network. It is a new global wireless standard after 1G, 2G, 3G, and 4G networks. 5G enables a new kind of network that is designed to connect virtually everyone and everything together including machines, objects, and devices.

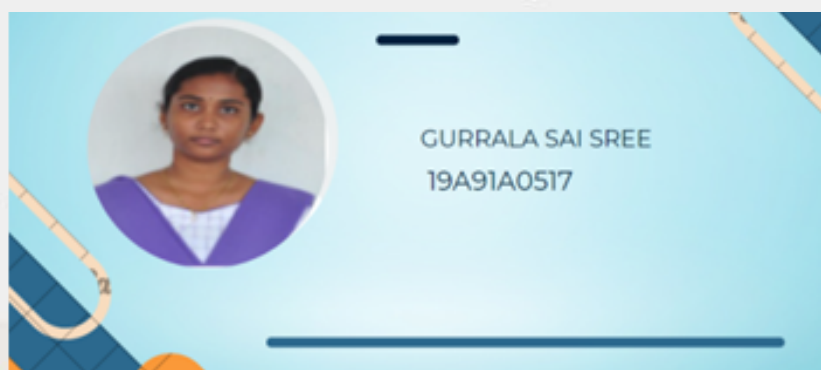
5G is a unified, more capable air interface. It has been designed with an extended capacity to enable next-generation user experiences, empower new deployment models, and deliver new services.

5G will impact every industry, making safer transportation, remote healthcare, precision agriculture, digitized logistics — and more — a reality.

Through a landmark 5G Economy study, we found that 5G's full economic effect will likely be realized across the globe by 2035—supporting a wide range of industries and potentially enabling up to \$13.2 trillion worth of goods and services.



Broadly speaking, 5G is used across three main types of connected services, including enhanced mobile broadband, mission-critical communications, and the massive IoT. A defining capability of 5G is that it is designed for forward compatibility—the ability to flexibly support future services that are unknown today.





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