



**Aditya College of Engineering and Technology**

**Department of  
Computer Science and Engineering**

**Dec 2020- May 2021**

# SPARKLE Magazine



*Join the Technology*

**Ed i t o r i a l B o a r d**

*Mr.B.Manikayalarao*

*sr.Assist.Prof*

*N.Madhuri*

*Assist.Prof*

*J Sanjay*

*20P31A0589*

*G VS Anantha*

*20P31A0589*

*K Naresh Babu*

*20P31A0589*



# Sparkle Magazine

## **Department Of Computer Science & Engineering**

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## Chairman's Message



Dr. N.SESHA REDDY  
CHAIRMAN

*I accept within the reasoning of thought, word and deed as unceasing which made Aditya what it is today. My thought to set a tall bar to the educate I setup by rising to the challenges of the instructive field and get arranged for a life devoted to the interest of knowledge, My word which continuously reflected my vision and picked up the conviction of the heads of the establishing and parents, And my deed which makes my domestic and working environment as expansions of each other by considering the staff and understudies as the individuals of my amplified family molded Aditya. I know the esteem of a great instruction, more so since I did not have the good thing about the offices that make the learning prepare smooth.*

## Vice-Chairman's Message

*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, management and pharmacy*



Dr. N SATHISH REDDY  
VICE-CHAIRMAN

## Principal's Message



Dr. T. K. Rama Krishna Rao  
PRINCIPAL

*The noteworthy issues we confront cannot be fathomed at the same level of considering we were at when we made them." - Albert Einstein. It is as it were through information that man accomplishes interminability. Information should extend or develop to stay information. The street to excellence is hardest, roughest and steepest within the Universe. The world requires and respects as it were only as it were brilliance. Available information must be coordinated by shrewdness and insights to make modern information. Advancement of imagination is the modern part of instruction. It is only through imaginative considering that the show and future issues can be tended to to discover energetic arrangements. Innovation ought to be utilized to assist expel destitution from the world. In reality 40% of the world's destitute are in India. Certainty leads to capacity. It is confidence in oneself that produces marvels. Instruction at ACET makes a difference construct Character, Fortify the intellect, extend the judgment skills and build up a culture of looking at issues in a unused viewpoint.*

## HOD Message

*The scope of computer science is endless. The students of the computer science and engineering are highly demanded by the recruiters of the top companies. Through innovative teaching-learning process a teamwork approach and leadership building experience, our students gain vital communication and critical-thinking skills. Our institution provides a platform for the students to enhance their employability skills through Industry Institute Collaboration.*



Dr. M. Anil Kumar  
M.Tech., Ph.D  
Hod of CSE

*Department of*

*Computer Science and Engineering*

*Happy New Year*

2021

## Computer Science and Engineering

Department of Computer Science and Engineering has been successfully functioning since 2004. It offers B.Tech (Computer Science and Engineering) with an intake of 120 students and M.Tech (Computer Science and Engineering) with 12 students. Department of CSE has good interactions and MOUs with leading technology domain Training & Development Industries. Department of CSE under ACET, signed pacts in the form of MoUs with Infosys (Campus Connect), Microsoft (Campus Agreement), APSSDC. It organizes Exhibitions, Conferences, Seminars and Workshops for both students and Faculty belonging to various Technical Educational Institutions all over India. Our students are placed in various top MNCs like Infosys, TCS, Tech Mahindra, Accenture, Cognizant, Samsung etc., for deserving & esteemed packages of more than 4.0 Lakhs to 17.5 Lakh per Annum. Faculty of CSE are always dedicated and devoted towards the comprehensive development of their students by training them physically through enough sports & games; psychologically through technical competitions globally. The department of CSE as a whole aims at the development of leading Computer Science Professionals with ethical values & societal concern.

# PSO'S

**PSO 1:** The ability to design and develop computer programs for analyzing the data.

**PSO 2:** The ability to analyses data develop Innovative ideas and provide solution by adopting emerging technologies for real time problems of software industry.

**PSO 3:** To encourage the research in software field that contribute to enhance the standards of human lifestyle and maintain ethical values

Aditya College of Engineering & Technology  
Aditya Nagar, ADB Road, Surampalem - 533437

Department of Computer Science and Engineering

VISION

To become a center for excellence in Computer Science and Engineering education and innovation.

MISSION

- Provide state of art infrastructure.
- Adapt Skill based learner centric teaching methodology.
- Organize socio-cultural events for better society.
- Undertake collaborative works with academia and industry.
- Encourage students and staff self-motivated, problem-solving individuals using Artificial Intelligence.
- Encourage entrepreneurship in young minds.

*Computer Science and Engineering*

PO'S:

- 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, 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 modelling 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 TEAMWORK:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary 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, 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

**"Better than a thousand days of diligent study is  
one day with a great teacher"**

# Operating System

An operating system is the most important software that runs on a computer. It manages the computer's memory and processes, as well as all of its software and hardware. It also allows you to communicate with the computer without knowing how to speak the computer's language. Without an operating system, a computer is useless.

Your computer's operating system (OS) manages all of the software and hardware on the computer. Most of the time, there are several different computer programs running at the same time, and they all need to access your computer's central processing unit (CPU), memory, and storage. The operating system coordinates all of this to make sure each program gets what it needs.

Operating systems usually come pre-loaded on any computer you buy. Most people use the operating system that comes with their computer, but it's possible to upgrade or even change operating systems. The three most common operating systems for personal computers are Microsoft Windows, macOS, and Linux.

Modern operating systems use a graphical user interface, or GUI (pronounced gooey). A GUI lets you use your mouse to click icons, buttons, and menus, and everything is clearly displayed on the screen using a combination of graphics and text. Each operating system's GUI has a different look and feel, so if you switch to a different operating system it may seem unfamiliar at first. However, modern operating systems are designed to be easy to use, and most of the basic principles are the same.

**ADITYA COLLEGE OF ENGINEERING&TECHNOLOGY**  
**Surampalem, E.G(D), Andhra Pradesh**  
**Department of Computer Science and Engineering**  
**Academic Year 2020-21**

**Conferences, Seminars and Workshops - Attended**

S.No	Name of the Candidate	FDP/Workshop/Seminar	Date
1	Dr Muthevi Anilkumar	Online FDP	13-05-2020
2	Mr Chakka SVVSN Murty	FDP – Data Science	01-06-2020
3	Mr Chakka SVVSN Murty	Data Science for Engineers	20-06-2020
4	Mr. B Manikyala Rao	FDP – Data Science	30-06-2020
5	Mrs.K S B Ambika	Database foundations	24-06-2020
6	Mrs.K S B Ambika	FDP- Data science	23,24-07-20
7	N.Madhuri FDP	Database foundations	24-06-2020
8	Ms.T.J.L.Sarwani .	Advanced Python for Ent. App	15-06-2020
9	T J Lakshmi Sarwani	webinar on Integrated Use of Intellectual Property Rights	11-07-2020
10	Mrs.J Divya Lalitha Sri	Seminar on Big data	25-07-2020

*Differnece between success and failure is doing things exactly correct and almost correct*

- **Ch.S.N.V.N.Murthy**  
Assot.prof

## *Internet Of Things*

Internet of Things is the technology through which things can communicate and function properly without any human or computer interactions. Millions of devices can share data through the internet.

In IoT, objects are embedded with some kind of chips and sensors that help them in exchanging data with great ease using the internet. RFID (Radio-Frequency Identification) chips are an important part of IoT. They help computers in managing all the things. Earlier the exchange of information from one device to another was considered as M2M or machine-to-machine transfer technology. The concept of IoT is not different from this. It can be considered as its enhancement.

IoT technology allows us to explore the use of the internet more widely. Earlier we could only use the internet only on our mobile phones and computers. But now different things are using the internet to promote their functionality.

- **N Madhuri**  
Assit.prof

## Placements

S. No	Date	Company	LPA	RoI.No	Name
1	20-12-2019	WEB SYNERGIES	3 o 3.2 LPA	16P31A0522	Kalturi Satya Devi
2	22-12-2019	RAYBIZ TECHNOLOGIES	2.40 LPA	16P31A0520	Kalidindi Rahul Venkata Baba
3	26-12-2019	SAVANTIS SOLUTIONS	3.50 LPA	16P31A0512	Debolina Paul
4	26-12-2019	SAVANTIS SOLUTIONS	3.50 LPA	16P31A0595	Mavuri Sai Samhitha
5	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A0512	Debolina Paul
6	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A0593	Manchiniseti Pravalika
7	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A0561	Nineesha Bhavani Adireddy
8	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A05B5	Yaminimani Deepika yarra
9	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A0538	Pravalika Satya Sri Nimmalagadda
10	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A0516	Sai Chandana Guttala
11	10-01-2020	Tech Mahindra	2.6 To 3.25 LPA	16P31A0537	Navin kumar Singh
12	07-12-2019	TAVANT TECHNOLOGIES	4.25 LPA	16P31A0574	Vaishnavi Chilukuri
13	07-12-2019	TAVANT TECHNOLOGIES	4.25 LPA	16A61A0504	Balla Naga Durga A Iekya
14	30-01-2020	TALENTIO	up to Rs.17.40 LPA	16P31A0587	Kota Sindhusa
15	14-03-2020	DXC Technologies	3.40 LPA	16A61A0510	Busim Gowri Sindhu Madhavi
16	14-03-2020	DXC Technologies	3.40 LPA	16P31A0555	Vasamsetti Madhavi Satya
17	14-03-2020	DXC Technologies	3.40 LPA	16P31A0520	Kalidindi Rahul Venkata Baba
18	14-03-2020	DXC Technologies	3.40 LPA	16P31A0591	Lanka Baby Jahnavi
19	14-03-2020	DXC Technologies	3.40 LPA	16P31A0514	Madhu Sudhan Guntuka
20	14-03-2020	DXC Technologies	3.40 LPA	17P35A0502	Satish Durga Shankar Kanakala
21	14-03-2020	DXC Technologies	3.40 LPA	17P35A0503	Romanus Anirban Beck
22	14-03-2020	DXC Technologies	3.40 LPA	16P31A0580	Gannavarapu C L Padmavathi Priyanka
23	12-03-2020	Medico Health care	2.04 LPA	16P31A0571	Bollu Sivaraj Kumar

## Student Certification details

S.No	Reg No	Name of the Student	certifications & Company	Year
1	18P31A0507	A.SAI SARANYA,	MTA PYTHON, RED HAT , CERTIFIED SYSTEM ADMINISTRATION, AWS CLOUD PRACTITIONER, AZURE FUNDAMENTALS	2020-21
2	18P31A0541	P. ASHOK	MTA PYTHON, CCNA, MTA MEANSTACK, CISCO	2020-21
3	19P35A0501	K. USHA RANI ,	MTA WEB DEVELOPMENT	2020-21
4	18P31A0516	CH. SAHITHI ,	MTA HTML, MTA PYTHON, MICROSOFT AZURE AI FUNDAMENTALS	2020-21
5	18P31A0537	M. VAISHNAVI	MTA PYTHON, AZURE FUNDAMENTALS	2020-21

## Student Internship details

S. No	Roll Number	Student Name	Company	Name Year
1	18P31A0505	AMIT KUMAR	AUGMENTIK	2020-21
2	18P31A0513	BITTU KUMAR	TECHHOOK	2020-21
3	18P31A0599	SUPRIYO CHOWDHURY	TERABOTS	2020-21
4	18P31A0583	KOVVURI S N G SRIDEVI	PICSHORT	2020-21
5	18P31A0573	DIPANKAR MANDAL	EDUFABRICA	2020-21



## AMAZON WEB SERVICE

*Amazon Web Services is a subsidiary of Amazon that provides APIs and cloud computing platforms. All marked services are distinguished by an extended technical infrastructure of an abstract type, building blocks, and distributed computing options. One such tool is EC2. It allows you to use a virtual PC cluster that is available over the Internet when you need it. The Department appeared in 2006, although development of the startup started four years earlier.*

*Infosys is a global leader in next-generation digital services and consulting.*

*We enable clients in more than 50 countries to navigate their digital transformation. With over three decades of experience in managing the systems and workings of global enterprises, we expertly steer our clients through their digital journey. We do it by enabling the enterprise with an AI-powered core that helps prioritize the execution of change. We also empower the business with agile digital at scale to deliver unprecedented levels of performance and customer delight. Our always-on learning agenda drives their continuous improvement through building and transferring digital skills, expertise, and ideas from our innovation ecosystem.*



## Microsoft

*Microsoft Corporation is an American multinational technology corporation which produces computer software, consumer electronics, personal computers, and related services. Its best-known software products are the Microsoft Windows line of operating systems, the Microsoft Office suite, and the Internet Explorer and Edge web browsers. Its flagship hardware products are the Xbox video game consoles and the Microsoft Surface lineup of touchscreen personal computers. Microsoft ranked No. 21 in the 2020 Fortune 500 rankings of the largest United States corporations by total revenue. It was the world's largest software maker by revenue as of 2016.*

*Mphasis Limited is an Indian multinational information technology services and consulting company based in Bangalore, India. The company provides infrastructure technology and applications outsourcing services, as well as architecture guidance, application development and integration, and application management services. It serves financial services, telecom, logistics, and technology industries.*

*Mphasis was ranked #7 in India IT companies and overall #189 by Fortune India 500 in 2019.*



## Workshop/Seminars

Department of Computer Science & Engineering Conducted Different Seminars ,workshops .

Name of the event	Name of the coordinator/s	Resource person details
Five-Day workshop on "Web Designing Using <u>ReactJS</u> "	J. <u>Divya Lalitha Sri</u>	K. <u>Bala Sasidhar</u> , CDE Team Events, Bangalore
Two Day Seminar on " <b>Python with Cyber Security</b> "	J. <u>Divya Lalitha Sri</u>	<u>Mr.N.Babji</u> CEO, <u>THub</u>
One Day Seminar On R-Programming	J. <u>Divya Lalitha Sri</u>	<u>T.Veerababu</u> , Trainer, <u>Thub</u>
Six-day Workshop on "AWS Cloud Computing"	J. <u>Divya Lalitha Sri</u>	<u>RamaKrishna Cheeli</u> <u>LovaBabu</u> <u>Juttuka,APSSDC Trainers</u>

# Christmas Celebrations

*Aditya collage of Engineering and Technology  
Christmas celebrations held on 11 dec 2020*

