RISE KRISHNA SAI

PRAKASAM GROUP OF INSTITUTIONS - ONGOLE

Aavishkar-2020

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

FACULTY:: DEPARTMENT OF CSE

Dr. K.SURESH BABU Ph.D
PROFESSOR & HOD

Mr.G.SRINIVASA REDDY M.Tech **PROFESSOR**	**Dr. P.RANTNA BABU Ph.D** **ASSOCIATE PROFESSOR**	**Mr. R. V. SUBBAIAH M.Tech** **ASSOCIATE PROFESSOR**
Mr.D.RAJESH M.Tech **ASSOCIATE PROFESSOR**	**Mr.A.SATYA RAJ M.Tech** **ASSOCIATE PROFESSOR**	**Mr.G.SATISH KUMAR M.Tech** **ASSOCIATE PROFESSOR**
Mr.B.SAMPATH BABU M.Tech **ASSOCIATE PROFESSOR**	**Mrs.S.SAILAJA M.Tech** **ASSOCIATE PROFESSOR**	**Mrs. N.V KALYANI M.Tech** **ASSISTANT PROFESSOR**
Mr.K.RAVIKUMAR M.Tech **ASSISTANT PROFESSOR**	**Miss. Y.SANDHYA M.Tech** **ASSISTANT PROFESSOR**	**Miss. P.ANUSHA M.Tech** **ASSISTANT PROFESSOR**
Mr.E.AKHIL BABU M.Tech **ASSISTANT PROFESSOR**	**Mr. K.V SUBBARAO M.Tech** **ASSISTANT PROFESSOR**	**Mr. V.RAJA SEKHAR M.Tech** **ASSISTANT PROFESSOR**
Mr.K.SURESH BABU M.Tech **ASSISTANT PROFESSOR**	**Mrs.J.PUNNAMI DEVI M.Tech** **ASSISTANT PROFESSOR**	**Mr.B.KIRAN KUMAR M.Tech** **ASSISTANT PROFESSOR**
Mrs. K. SRIVIDYA M.Tech **ASSISTANT PROFESSOR**	**T.DURGA DEVI M.Tech** **ASSISTANT PROFESSOR**	**SHAIK SAMJEEDA M.Tech** **ASSISTANT PROFESSOR**

Scintillating Seven !

"India needs disciplined youths. Today's students cultivate youthful idealism in them to discharge their tomorrow's responsibilities. Art and science should be synchronized in their performance"

- Dr.Sidda Venkateswara Rao, Chairman

Indian professionals have to demonstrate their scholarship to prove their unique talents. They have to represent our nation's worth too. Sharpening their academic, personal, career and leadership skills must be their first task in the process of their career journey. I, as the Hon'ble Chairman of the RISE Krishna Sai Groups, am committed to provide our students with the best possible facilities.

- Sri.I.C. Rangamannar, Hon'ble Chairman

"If information alone is education today's students require no assistance at all to make strides in their fields. Technological devices can be their best sources of learning. But there is a lot to learn on the part of student besides academic information. Character building ought to be one of the cardinal objectives of education. I give importance to education based on character."

- Sri.Sidda Surya Prakasa Rao, Vice- Chairman

Organizations can stand in the forefront of success only when the invite employees possessing impressive human values. Success on the part of an individual employee does not simply mean the currency one receives. It also means the employee's determined dedication to stand by the vision of the organization. Value-based career life is the ultimate achievement one ought to aspire for. I put all my efforts to prove that the RISE students do inculcate among themselves the right human values besides professional talents.

- Sri.Sidda Hanumantha Rao, Secretary & Correspondent

"We are nurturing the best possible qualities among our students right from the first day of their entry into our campus. We are striving to become a solution spot for all parents and students to see their success in reality. We want to be in happy association with our students and a parent since one of our cardinal aims is to be a part of their excellence."

- Sri. Sidda Bharat, Treasurer

"Successful professional education should pave the way for successful career. We, therefore, focus more on sharpening our students' wholesome progress in our campus. We train our students to be self-reliant with respect to enrichment of their profile. We are confident that our students are sure to prove their skills and adapt themselves to all global standards and expectations. We are committed to facilitate ultimate satisfaction to our students, parents and professionals."

- Dr. A.V.Bhaskara Rao, M.Tech., Ph.D (IIT Bombay), Post-Doc (Canada), Director

Teaching is accorded wholesome meaning only when it is followed by the closest possible watching of the students' behaviour. we are committed to teachand watch our students with devotion. ours is the 'NO-Compromise' attitude tobring the best out of our professional students. parents' aspirations are our best companious.

- Dr K.V.Subramanyam, ME,PhD.MISTE,FIE,FIETE Principal RISE Krishna Sai Gandhi

<u>About CSE Department:</u>

The department of Computer Science and Engineering (CSE) established in 2009 offers a four year undergraduate programme intake of 120 students and post graduate programmes in CSE and CS with an intake of 24 students every year. Manned by a strong faculty of 27 members, the department possesses highly advanced hardware and software tools. The department provides ample opportunities to students to work on mini projects, develop communication skills, explore internship opportunities in industry and take active participation in national and international design contests.

The laboratories are well equipped with modern training facilities that cater to the requirements of the university syllabus. The department plays a vital role in training students of other branches of engineering too.

CHIEF EDITOR.

Dr. K. SURESH BABU

Professor & HOD

CO-ORDINATOR

RAJESH DASARI

Associate. Professor

DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING

RISE KRISHNA SAI PRAKASAM GROUP OF INSTITUTIONS::ONGOLE

VISION

To be a centre of excellence in Computer Science & Engineering for value based education to serve humanity and contribute for socio-economic development.

MISSION

- Provide professional knowledge by student centric teaching-learning process to contribute software industry.

- Inculcate training on cutting edge technologies for industry needs.

- Create an academic ambience leading to research. Promote industry institute interaction for real time problem solving.

Program Educational Objectives (PEOs)

- **PEO 1:** Develop software solutions for real world problems by applying Mathematics, Science and engineering principles.
- **PEO 2:** Function as members of multi-disciplinary teams and to communicate effectively using modern tools.
- **PEO 3:** Pursue career in software industry or higher studies with continuous learning and apply professional knowledge.
- **PEO 4:** Practice the profession with ethics, integrity, leadership and social responsibility.

Program Specific Outcomes (PSOs):

- **Domain Knowledge:** Apply the Knowledge of Programming Languages, Networks and Databases for design and development of Software Applications.
- **Computing Paradigms:** Understand the evolutionary changes in computing possess knowledge of context aware applicability of paradigms and meet the challenges of the future.

Program Outcomes:

PO No	Description
PO1	**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	**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.
PO4	**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.
PO5	**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.
PO6	**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.
PO7	**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.
PO8	**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**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.
PO11	**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.
PO12	**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.

Articles:

1. Edge Computing

During the early part of the 21st century, cloud computing was considered the next big thing. In cloud computing, data is uploaded to a centralised repository that may access it regardless of location. Cloud Computing began to be used in commercial devices only close to 2010. By the time it was 2020, cloud computing had become a prevalent technology.

In just about a decade, cloud computing had turned from being an esoteric term to being a part of a few devices in almost everybody's house. In 2021, cloud computing is no longer among the top technology trends but rather a thing of the past.

The next step after cloud computing is edge computing. It is another rising new technology in 2021 which is very similar to cloud computing, except that data is not stored in a centralised repository. In areas where network access might be difficult or impossible, cloud computing is challenging since you can no longer access the repository where your data is stored. What edge computing does is transfer data closer to the location where it needs to be used.

Edge computing has excellent applications in the Internet of Things devices. As far as IoT is concerned, a physical device you need to control with your smartphone should not need to access data from a centralised repository that might be thousands of kilometres away. Instead, data should stay as close to the device as possible.

Edge computing allows the data to remain at the 'edge' of the cloud and the device for processing so that commands can be followed through in a smaller amount of time.

Edge computing jobs have only begun to grow with IoT devices' proliferation over the past few years. As the number of these devices increases, edge computing roles are likely to become more prevalent and lucrative, placing it firmly among the top technology trends of 2021.

By
A. Sathiya Raj
Associate Professor

Virtual Reality and Augmented realty:

Virtual Reality and Augmented Reality have both been technology buzzwords for over a decade now. However, these **top technology trends** have so far failed to materialise into widely available consumer products. The presence of virtual reality and augmented reality in our real lives is minimal. Eventhough VR and AR have been familiar in the industry, which are relatively new technologies in 2021. Virtual reality has been used widely in video games thus far and augmented reality-based apps did become popular for a while a few years ago, before waning. However, the best way virtual reality can become a top technology trend for the future is by making it a part of people's daily lives.

Over the past few years, virtual reality has also begun to find applications in training programs. Another domain where virtual reality experiences have been useful is in providing experiences to museum-goers. The trajectory of the rise of virtual reality is very similar to that of 3D technology—it might take just one application, such as cinema in 3D, for the technology to become mainstream. According to Pay scale, average salary of AR Engineer is above 6 lakhs per annum, one more reason to give this new technology a try in 2021.

Virtual reality jobs do not currently require a lot of training. Simple programming skills should be enough to land you a job, alongside an interest in the field and the power of visualisation. With millions of virtual reality devices being sold worldwide every year, it is only a matter of time before we see VR and AR take over our daily lives.

By
G. Satish Kumar
Assoc. Professor

LABORATORIES

COMPUTER LAB – I

COMPUTER LAB – II

COMPUTER LAB – III

Felicitation of resource person Mr.P.Bala Srinivasaraju, Manager and Oracle Trainer

Summary of Awarded & Participated Students 2019-20

S. No	Name of the Event	No. of Events	No. of Participants	No. of Won/Awards/Reward/	Level
1	Paper Presentation	4	12	4	National
2	Poster Presentation	3	32	7	National
3	Coding & debugging	1	18	6	National
4	Quiz	1	7	1	National

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