



SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY PAYYANUR



DRISHTI

Department of Computer Science & Engineering

HOD's MESSAGE

It gives me immense pleasure to write in this edition of newsletter, as we have stepped into one more academic year. Though we face many problems due to this deadly pandemic, somehow or the other we try to overcome it through many innovative ideas in teaching. Students and teachers have now adapted to the situation and take painstaking effort to overcome this barrier by timely completion of portions, conduct of exams etc. Outstanding performance of our students in their third semester exams of 2019-2023 batches is worth mentioning. Teamwork of staff and students makes way for the preparation of Faculty Development Program and other activities that are under the plan for this academic year of our department. I conclude by quoting the words of famous player Mr. Michael Jordan - "Talent wins games, but teamwork and intelligence win championships." ~ which is the secret that always keeps CSE department unique.



- Prof. Sunder V

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VISION	MISSION
To be a center of excellence in Computer Science and Engineering to produce competent professionals and entrepreneurs capable of exploring and assimilating latest technological advancements for the betterment of the society.	To facilitate transformative education in computer science and engineering. To build competent professionals and entrepreneurs by introducing new technologies. To accomplish higher education, induce ethical values and spirit of social commitment.



TECH NEWS

STANFORD PHYSICISTS HELP CREATE TIME CRYSTALS WITH QUANTUM COMPUTERS

In research published on November 30, 2021 in the journal *Nature*, a team of scientists from Stanford University, Google Quantum AI, the Max Planck Institute for Physics of Complex Systems and Oxford University detail their creation of a time crystal using Google's Sycamore quantum computing hardware.



The researchers were able to confirm their claim of a true time crystal thanks to special capabilities of the quantum computer. Although the finite size and coherence time of the (imperfect) quantum device meant that their experiment was limited in size and duration – so that the time crystal oscillations could only be observed for a few hundred cycles rather than indefinitely – the researchers devised various protocols for assessing the stability of their creation. These included running the simulation forward and backward in time and scaling its size.

This work was led by Stanford University, Google Quantum AI, the Max Planck Institute for Physics of Complex Systems and Oxford University.

—AATHISH R (2020 - 2024)

NEW HOLOGRAPHIC CAMERA SEES THE UNSEEN - AROUND CORNERS, THROUGH FOG AND HUMAN

Northwestern University researchers have invented a new high-resolution camera that can see the unseen — including around corners and through scattering media, such as skin, fog, or potentially even the human skull.

Called synthetic wavelength holography, the new method works by indirectly scattering coherent light onto hidden objects, which then scatters again and travels back to a camera. From there, an algorithm reconstructs the scattered light signal to reveal the hidden objects. Due to its high temporal resolution, the method also has potential to image fast-moving objects. “Our technology will usher in a new wave of imaging capabilities,” said Northwestern’s Florian Willomitzer, first author of the study and the Research Assistant Professor of Electrical and Computer Engineering at Northwestern’s McCormick School of Engineering. Although the technology is currently a prototype, Willomitzer believes it will eventually be used to help drivers avoid accidents. “It’s still a long way to go before we see these kinds of imagers built in cars or approved for medical applications,” he said. “Maybe 10 years or even more, but it will come.”

— AATHISH R (2020-2024)

JACK DORSEY STEPS DOWN AS CEO OF TWITTER, WILL LEAVE BOARD IN MAY

Jack Dorsey has announced his resignation as CEO of Twitter, the short-form social media platform that he co-founded in 2006. He made his intentions known to staff in an email which he tweeted out publicly on November 29, 2021.

In the email, he assigned Chief Technology Officer Parag Agarwal to replace him as CEO. He also announced Salesforce president and co-founder Bret Taylor would become Twitter's board chair and that Dorsey himself would remain on the board until May when his term runs out. He had been board chair since initially leaving as CEO in 2008 before coming back on in 2015.

In explaining his reasoning for leaving, the executive said that the company's perceived "founder-led" nature presents as a single point of failure and can be severely limiting to its growth. The company has seen its profits narrow down in the past 2 years with the recent third quarter of this year sinking into loss due to a shareholder class action settlement.

— AATHISH R(2020-2024)

“Technology is nothing. What’s important is that you have faith in people, that they’re basically good and smart, and if you give them tools, they’ll do wonderful things with them”

— Steve Jobs

DID YOU KNOW ?

💡 Over 6,000 new computer viruses are created and released every month. 90% of emails contain some form of **malware**!

💡 On average, people read 10% slower a **screen** than from paper.

💡 The **Firefox** logo isn't a fox... it's a red panda!

💡 One **Petabyte** (PB) = 1024 (TB). To put this in perspective, a 50PB hard drive could hold the entire written works of mankind from the beginning of recorded history in all languages.



Ada Lovelace

PLACEMENTS



VISMAYA SREEJITH

(2018-2022)



C ATHIRA

(2018-2022)



AMALDAS

(2017-2021)



"Any sufficiently advanced technology is equivalent to magic" – Arthur C Clark

1st SEMESTER EXAM TOPPERS (2020-2024)



ANJALI K

SGPA 10



ASWATHI P I

SGPA 9.85



HIMA MURALI

SGPA 9.82

ALWAYS THROUGH THE PATH OF OBE

PROGRAM OUTCOMES (POs)

RECENT ACTIVITIES

PO1:-Engineering knowledge

PO2:-Problem analysis

PO3:-Design/development of solutions

PO4:-Conduct investigations of complex problems

PO5:-Modern tool usage

PO6:-The engineer and society

PO7:-Environment and sustainability

PO8:-Ethics

PO9:-Individual and team work

PO10:-Communication

PO11:-Project management and finance

PO12:-Life-long learning

1. Class committee meeting for VII semester was conducted on 01.11.2021
2. S7 question paper and answer scheme for second series test was told to be prepared and verified by the module coordinator on 01-11-2021.
3. Commencement of First semester UG and PG on 02-11-2021
4. S1(2019 scheme) result was published on 04-11-2021.
5. First series test for S7 time table was published on 8-11-2021
6. Class commencement dates for S5, S3 and S1 was published on 10-11-2021
7. First series test for S7 Started on 10.11.2021.
8. Regular classes for odd semester commenced on 11.11.2021
9. First series ended on 12.11.2021.
10. Result of B. Tech S7 (S) Exam Aug 2021 was published on 13.11.2021.
11. Disciplinary action committee and Anti-ragging squad duty list was published 15-11-2021.
12. Women's Grievance cell duty list was published on 16-11-2021.
13. Induction program details published on 19-11-2021.
14. First year students induction program was conducted on 22-11-2021.
15. Time table for offline induction program was published on 22-11-2021.
16. Result Published- B. Tech S1, S2(S,FE) Exam May 2021(2015 Scheme) on 22-11-2021.
17. Induction program for first year students ended on 24.11.2021.
18. Class time table for first year was published on 29/11/2021

PROGRAM SPECIFIC OUTCOMES (PSOs):

PSO1:-Computer Science Specific Skills: The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by understanding the core principles and concepts of computer science.

PSO2:-Programming and Software Development Skills: The ability to acquire programming efficiency by designing algorithms and applying standard practices in software project development to deliver quality software products.

PROGRAM EDUCATIONAL OBJECTIVES(PEOs):

PEO1:-To prepare students to excel in Computer Science and Engineering program through quality education enabling them to succeed in computing industry profession.

PEO2:-To provide students with core competencies by strengthening their mathematical, scientific and basic engineering fundamentals.

PEO3:-To design & develop novel products and innovative solutions for real life problems in Computer Science & Engineering field and related domains by broad based knowledge.

PEO4:-To inculcate professionalism among students by providing technical, entrepreneurial skills and soft skills with ethical standards.

PEO5:-To encourage students for higher studies by adapting to new technologies through interactive quality teaching and organizing symposiums, conferences, seminars, workshops and technical discussions.

EDITORIAL BOARD

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