



New Prince Shri Bhavani College of Engineering and Technology

Affiliated with Anna University | Tambaram-Velachery Main Road
in Santhosapuram, Chennai-600 073



Department of Computer science And Engineering



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About Institute:

The New Prince Shri Bhavani College of Engineering and Technology (NPSBCET) is a renowned educational institution offering a wide array of undergraduate (UG) and postgraduate (PG) engineering programs. Operated by the Abaranjee Ammal Educational Society, with over three decades of educational commitment and growth, NPSBCET accommodates a substantial number of students pursuing engineering courses at both UG and PG levels. It holds approval from the All India Council for Technical Education (AICTE) and is affiliated with Anna University in Chennai. NPSBCET provides UG programs in B.E (ECE, EEE, CSE, CSE (CS), Mech, and Civil), B. Tech programs in IT and AI&DS, as well as PG courses like MCA and ME in Applied Electronics. The core objectives this autonomous institution are centered on delivering high-quality engineering education to students in diverse engineering and technological disciplines. Additionally, it aims to create an environment where students can make the most of the physical facilities, human resources, and knowledge assets available within the educational sector to optimize their knowledge acquisition.

Editorial Board:

Dr.P.B.Edwin Prabhakar, HOD/CSE
Mrs .P.Kavitha, AP/CSE
Mohammed Rasid M / IV CSE
Vaarani Devi V / IV CSE
Sivarama Krishana M / IV CSE
Sivaranjani G / IV CSE

Vision of the Institute:

To strive for excellence in imparting technical education by promoting innovation, creativity and entrepreneurial abilities of the students.

Mission of the Institute:

- 1.Enhancing the effectiveness of teaching-learning process by providing a stimulating learning environment.
- 2.To establish R&D centers, incubation centers and centers of excellences in latest technologies and provide a platform for students to interact with the industry.
- 3.Achieving Academic excellence by imparting knowledge and skills through problem solving, practical training and design & development of innovative projects.
- 4.Sensitizing students to social and environmental issues.
- 5.Inculcating discipline in students and make them technologically and ethically strong

About Department:

The Department of Computer Science and Engineering was established in the year 2008. The Department of Computer Science & Engineering is a centre of excellence providing in- depth technical knowledge and opportunities for innovation and research with up-to-date computing facilities. The department is well equipped with latest hardware and software in order to provide students with a great deal of hands-on exposure in software designing, coding, testing, deployments and overall programming capabilities

The Department has well-qualified and experienced faculty members from various reputed institutions who are specialized in various domains like machine learning, databases, artificial intelligence, design and analysis of algorithms, compiler design, web engineering, cryptography and computer networks. The Department provides opportunities and resources to its faculty and students for the pursuit of research and academic excellence. Many of our department faculty members have published paper in reputed journals, conference papers and articles.

The department has produced many brilliant students over the years, who have bagged prestigious jobs in India and abroad. Faculty members are also encouraging students to take up projects in upcoming research areas to improve their knowledge in advanced topics.

NPSBCET boasts of its excellent placement record over the years and the department of CSE has been the leader in the terms of placement.

In future the departmental research is focused in the areas of Machine Learning, Cryptography and Information Extraction, Artificial Intelligence, Software Engineering, Image Processing and Computer Vision, Pattern Recognition, Data and Web mining, Semantic web, Natural Language Processing (NLP).

Besides classroom teaching and laboratory exercises, the students are motivated through creative activities and cultural fests. They are also encouraged to participate in various group learning and discussion activities in addition to presentation of seminar and term paper presentations on individual basis. Emphasis is laid on computer based assignments through modeling and simulation.

The CSE Department organized national conferences, seminars, student symposia, short-term training program and value added courses. This provides a wide range of opportunities for faculty and students to bring out their potential and innovative skills in a variety of fields. The department has conducted workshop/seminar on current trends in computer technology.

PROGRAM EDUCATIONAL OBJECTIVES (PEO):

Graduates of Computer Science and Engineering

- Shall get employed in National and Global Industries or to continue their higher education at prestigious institutions.
- Shall function as an effective team member in the professional practice, shall exhibit leadership abilities, professional ethics, communication skills, and interpersonal skills.
- Shall utilize basic competencies in problem solving, analysis, synthesis, and innovation who shall contribute to the advancement of their society and the Nation.

PROGRAM SPECIFIC OUTCOME (PSO) :

- Students will be able to comprehend, evaluate, and create computer applications and programs to meet societal requirements.
- Students shall have skills and knowledge to develop software projects in latest tools and technologies.

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Trending tech :

Cryptocurrency, a digital or virtual currency, leverages computer algorithms and blockchain technology to



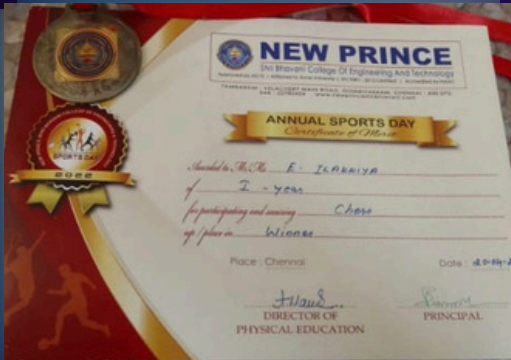
ensure secure and transparent transactions. At its core, cryptocurrencies like Bitcoin and Ethereum use cryptographic algorithms to create and verify transactions on a decentralized ledger called the blockchain. This ledger is maintained by a network of computers (nodes) that validate and record transactions, ensuring data integrity and security.

The consensus algorithms, such as Proof of Work (PoW) and Proof of Stake (PoS), play a crucial role in maintaining the blockchain's integrity. PoW requires miners to solve complex mathematical problems to add new blocks, while PoS selects validators based on the number of coins they hold and are willing to "stake" as collateral.

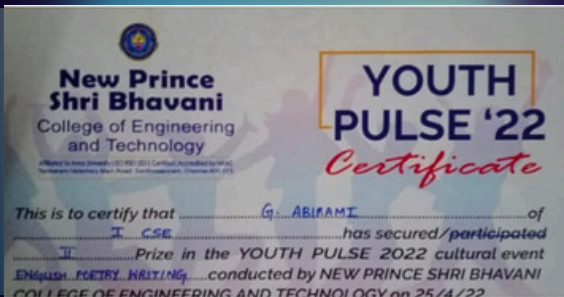
STUDENT ACHIEVEMENTS:



Indira R. participated in the Comet Quiz at Hindustan College. She successfully completed the quiz and is an active member of the Nebula Astro Club. Her enthusiasm for astronomy is truly inspiring!

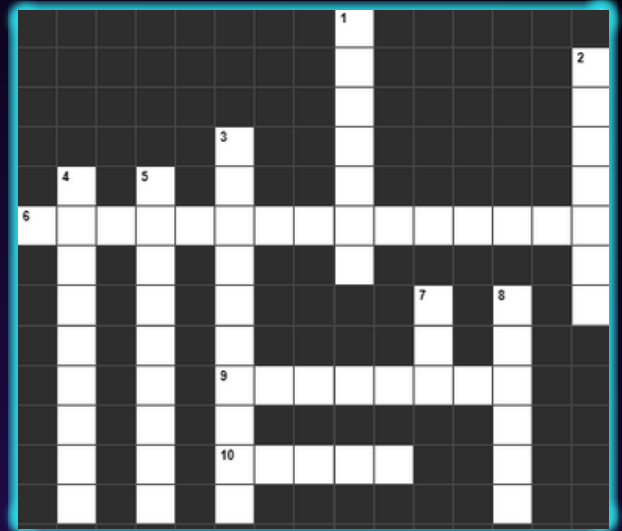


Ilaikiya, a first-year student, emerged victorious in the chess competition, winning the first prize and bringing pride to her peers at the Annual Sports day Competition at New Prince Shri bhavani



G. Abirami, a first-year student, has achieved remarkable success by securing the 2nd prize in the English poetry writing competition.

Cross Word puzzle for Techsavvies!

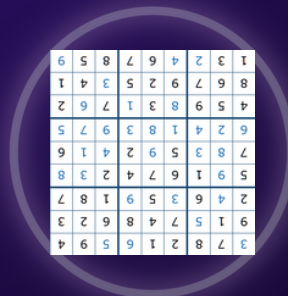


Across :

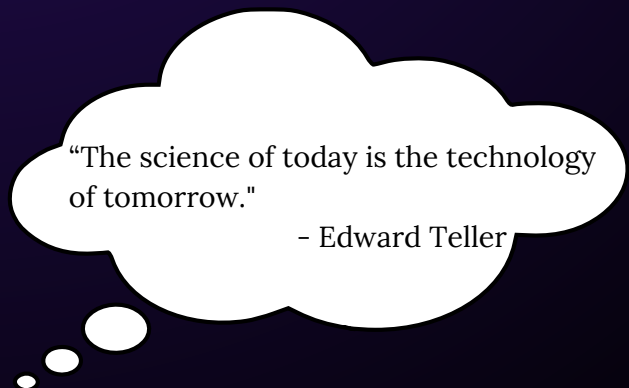
- 6. A type of language that is directly understood by the computer hardware
- 9. A type of operator that performs an action on one or more operands
- 10. A type of data structure that stores elements in a linear order

Down :

- 1. A set of instructions executed by a computer to perform a specific task.
- 2. A type of data that can only have two values.
- 3. A type of programming paradigm that focuses on the evaluation of expressions
- 4. A type of data structure that stores key-value pairs
- 5. A type of loop that executes a block of code as long as a condition is true
- 7. A symbol used to represent data in a computer.
- 8. A type of data that can store a sequence of characters

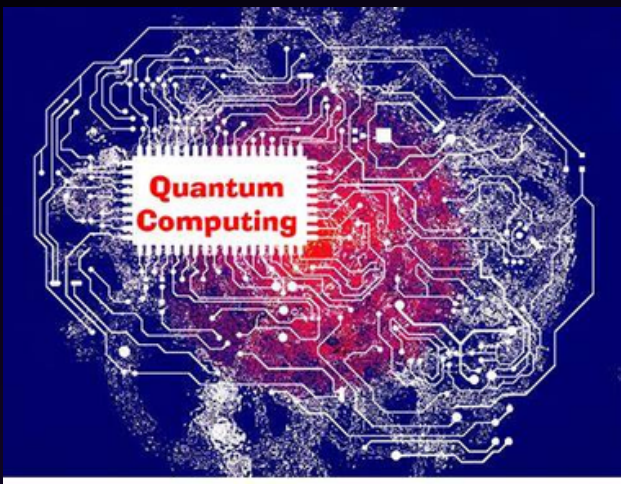


Sudoku Solution :



"The science of today is the technology of tomorrow."

- Edward Teller



Quantum computing is a revolutionary technology that uses quantum mechanics principles to perform calculations. It exploits qubits' unique properties to process information exponentially faster than classical computers. Qubits can exist in multiple states simultaneously, enabling parallel processing. This allows quantum computers to solve complex problems in cryptography, optimization, and simulation. Quantum computing has the potential to transform industries and revolutionize the way we live. Its applications are vast and still being explored.

Quantum computing has various applications, including cryptography, optimization, and simulation. Companies like IBM Quantum, Google Quantum AI Lab, and Microsoft Quantum are leading the charge. These organizations are developing quantum processors, software, and cloud services. Quantum computing can break and secure cryptographic codes, solve complex logistics problems, and simulate complex systems. Researchers are also exploring its potential in machine learning and artificial intelligence. As the technology advances, we can expect widespread adoption.



Despite its potential, quantum computing faces significant challenges. Quantum noise and error correction are major concerns. Scalability and quantum control are also essential for practical applications. Researchers are working to develop robust quantum algorithms and improve qubit stability. As breakthroughs occur, we can expect quantum computing to become increasingly prevalent. By 2030, quantum computing is expected to be integral to various industries, transforming the way we live and work. Its impact will be felt across the globe.

SUDOKO GAME :

4	3	5						7
1	6				7		9	
7	9		1		4			
9	8		5		2		3	7
			3					1
3			7					
2	4			7		8	1	5
	1	3	4					
	7				1	2	4	3

FUN ZONE:

