



TECH - SAVVY

Sep-Nov, 2016

THE NEWS LETTER

Department of Computer Science & Engineering

The Department of Computer Science & Engineering was established in the year 2001. It has intake capacity of 120 students. All the laboratories are well established with state of the art equipment. The department has highly qualified and experienced faculty and technical staff. An innovative teaching and learning process is implemented in imparting quality education to the students which includes conduct of workshops, seminars, industrial tours, expert lectures and various extracurricular activities.



PROF. (DR.) N. SUBHASH CHANDRA

Principal

To my mind an Educational Institute is not just about four walls with bricks, mortar and concrete, but about building characters, enriching minds and developing confidence towards above motivation. Every effort is pursued to identify the functional gaps between Holy Mary Institute of Technology & Science and the Premier Institutions of the country like IITs and NITs so as to narrow the caps as soon as possible.



PROF. B. DEVNDER

HOD-CSE

It gives me immense pleasure to lead the department of Computer Science & Engineering. The aim of the department is to provide high quality education along with training the students with all the new advancements in the computers field. I congratulate the team of faculty members and the students for their brilliant and original efforts. I wish all the students and faculty a great academic career.

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From the Editorial Board

One of the biggest problems facing the world today is global warming. Many scientists believe that our production of carbon dioxide and other greenhouse gases is having a heating effect on the atmosphere, and this could be very dangerous for human life. This essay will examine the problem of global warming and suggest some ways of solving the problem. Many problems could result from global warming. One of the biggest problems is rising sea level. This could result in the flooding of low lying coastal areas and cities, such as Egypt, the Netherlands, and Bangladesh. Some countries might even disappear completely! Another problem caused by global warming is changes in weather patterns. Many areas of the world are experiencing increased hurricanes, floods, and other unusual weather. A third problem associated with global warming is the effect on animals. Fish populations could be affected, while some insects which spread disease might become more common. There are several things we can do to solve the problem of global warming. One solution is to stop producing CO₂. We can do this by switching from oil, coal and gas to renewable energy. Another solution is to plant more trees. Trees absorb carbon dioxide and produce oxygen, which is not a greenhouse gas. A third solution is to use less energy and to recycle more products. Generating electricity is one of the main sources of carbon dioxide. If we use less electricity, we will produce less CO₂. In conclusion, if we make small changes now in the way we live, we can avoid huge changes in the future. Scientists, governments and individuals must work together to overcome this threat.

Programming For Games, Web & Mobile

This Program was organized at MIC lab in HITS campus from 25-09-2015 and 26-09-15 for final year students. The Chief Guest for the program were, PETER WALSH (HOD for Gamming), ANDREW LAING (Senior Instructor). (Vancouver Film School's, CANADA)

Student actively involved in this session and acknowledged well by the resource person about games web, & mobile

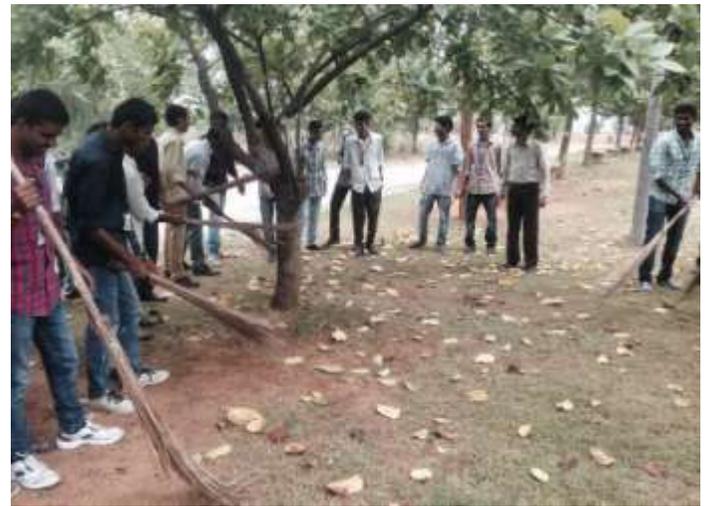


Placement and Training



The program was organized by the placement and training officer for the final year students, they conducted mock test, students actively involved in this session.

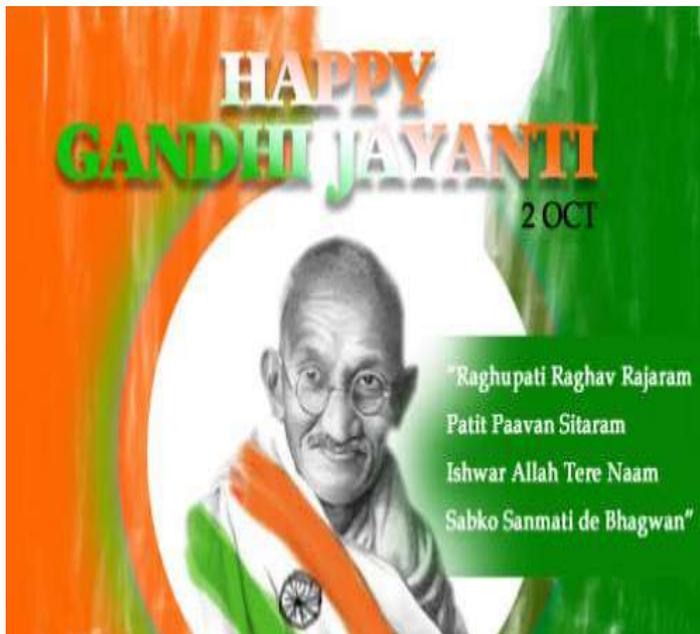
SwachhBharath program



Swachh Bharat Abhiyan is a Swachh Bharat mission led by the government of India to make India a clean India. This campaign was launched officially by the government of India on 145th birthday anniversary of the great person, Mahatma Gandhi on 2nd of October, 2014. It was launched at the Rajghat, New Delhi (cremation of Mahatma Gandhi). The government of India has aimed to make India a clean India by 2nd of October 2019 (means 150th birth anniversary of the Mahatma Gandhi) through this campaign.

It is a politics free campaign and inspired by the patriotism. It is launched as a responsibility of the each and every Indian citizen to make this country a Swachh country. This campaign has initiated people globally towards the cleanliness. Teachers and students of the school are joining this "Clean India Campaign" very actively with great fervour and joy.

Gandhi Jayanthi

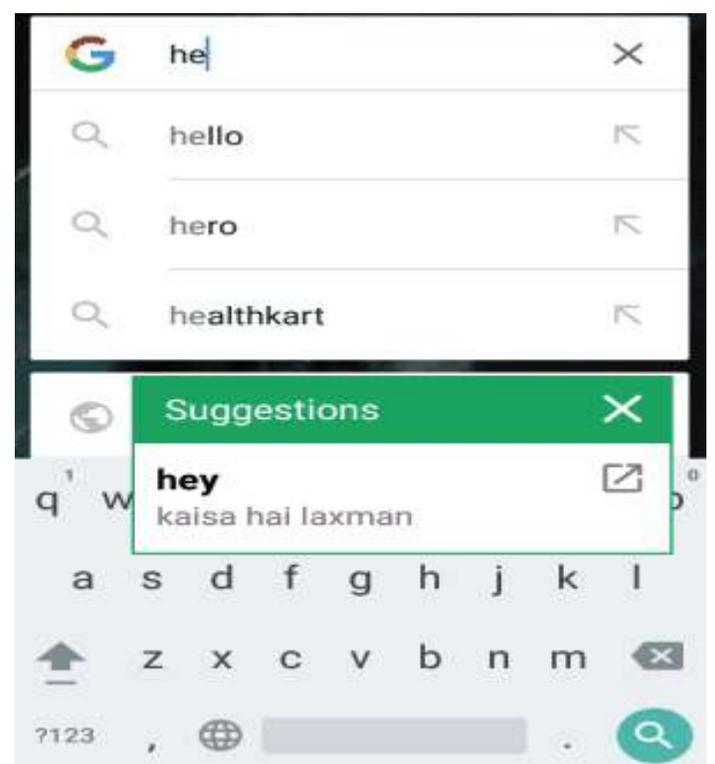


Mahatma Gandhi, the father of Nation is world famous personality as the symbol of Truth, Peace, Non-Violence and simplicity. His full name was Mohan Das Karam Chand Gandhi, who was born in small city of Gujarat, Porbandar on 2nd October 1869. We celebrate his birthday every year on 2nd October as National Festival and call it as “Gandhi Jayanti”. On this auspicious day, Gandhi Jayanti celebration is performed at Rajghat “the Memorial of Mahatma Gandhi” where he was cremated. VIPs of our country offer flowers on the cremated place of Bapu and his favourite devotional song “RaghupatiRaghav Raja Ram” is usually sung in his memory.

Technical corner



The best Android apps of 2015



Android keyboards have gotten good in the last few years, but that doesn't mean they're anywhere near as fast as a traditional keyboard on a computer. With Texpanse, you can save yourself a lot of tedious typing by creating custom shortcuts that can be used almost anywhere you input text. Simply use the app to create shortcut abbreviations that will be filled with your chosen text as you type.

For example, add your full address to Texpanse and use something short like “adr” to have it inserted. This app even supports dynamic values like the time, date, and your current clipboard contents. That last one is a real lifesaver.

Technical Buzz

Puzzle 3: Find the defective coin

There are 10 stacks of 10 coins each. Each coin weighs 10 gms. However, one stack of coins is defective and each coin in that stack weighs only 9 gms. What is the minimum number of weights you need to take to find which stack is defective? How?

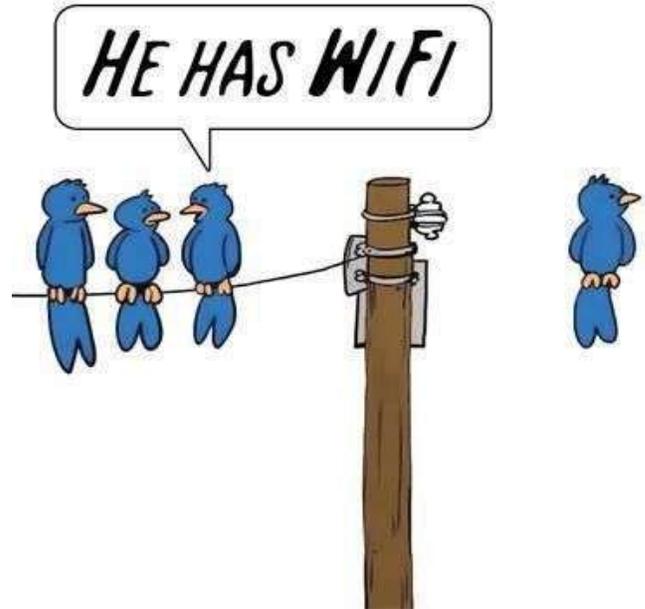
Typical Solution: The dumbest answer in this situation would be 10 (or 9) attempts, when you weigh each stack. A few people try to arrive at a solution with divide and rule method – divide the stacks in 2 groups of 5 each and weigh any one of them – if it weighs 500 gms then the other group has defective stack. In the next turn you divide the remaining stacks in 2 groups and weigh again. In this manner, you can get to the defective coin in a maximum of 4 measurements at your weighing machine. While this approach is smarter than 10 attempts, it is still not the most efficient way.

Correct solution:

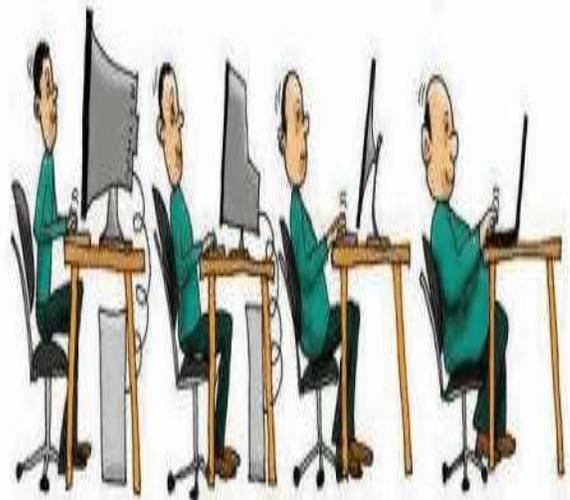
The trick in solving this puzzle lies in creating a weighted stack for measurement. You can find the defective stack in one measurement. How? You take 1 coin from the first stack, 2 coins from the second, 3 from the third and so on. In total you will have 55 coins. If all of them were non-defective, they would weigh 550 gms. If stack 1 is defective, the measure would read 549 gms. If stack 2 is defective, you will read 548 gms. and so on. So by taking one measurement you can identify, which is the defective stack.



Funny Cracks



the evolution of man and computer



Vision

To produce technically competent and qualified professionals with cutting edge of research and innovative technology for the benefit of student community in particular and society in large.

Mission

- M1: To be a centre of excellence in Technical and Higher Education
- M2: To be a centre of excellence in Research
- M3: To be a centre of excellence in Support Services

Program Educational Objective

PEO 1:

To prepare the students for entry into successful employment as software engineers in industry, service, consulting and/or government organizations or for advanced study at leading graduate schools in engineering, business, management or other technical or non-technical fields.

PEO 2:

To encourage teamwork skills among the students to design and implement complex software systems, particularly the ability to work with people from other fields in integrated engineering teams and develop the leadership skills for maximizing the performance of those teams.

PEO 3:

To offer a curriculum that encourages students to become broadly educated engineers and to equip with the attitudes and skills to foster learning themselves for life long, an ability to communicate effectively with various audiences and function as responsible member of the global society.

POs AND PSOs of Department**PROGRAMME OUTCOMES**

- (a) An ability to apply knowledge of mathematics, science and engineering.
- (b) An ability to design and conduct experiments, as well as to analyze and interpret data.
- (c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health & safety, manufacturability and sustainability.
- (d) An ability to function on multidisciplinary teams.
- (e) An ability to identify, formulates and solve engineering problems.
- (f) An understanding of professional and ethical responsibility.
- (g) An ability to communicate effectively.
- (h) The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
- (i) A recognition of the need for and an ability to engage in life-long learning.
- (j) A knowledge of contemporary issues.
- (k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.