NEXUS

VIDHYAPEETH EDUCATION TRUST
P.I.E.T.
PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

VOLUME 7
EDITION 1

Electronics and Communication Engineering
YANTRA

ABOUT DEPARTMENT

OUR VISION:

To excel globally in technical education and research in field of electronics and communication engineering and thus contribute to the welfare of society.

OUR VISION:

- To establish a unique learning environment to enable the students to face the ever-emerging challenges in electronics and communication engineering.
- To equip the students with a broad intellectual spectrum and prepare them for diverse and competitive career paths.
- To provide practical orientated education and foster tie-up with national/international educational institutes, research bodies, and industry to support students and faculty development pursuits.
- To provide ethical and value-based education by promoting activities addressing societal needs.

PEOs

- Be able to successfully practice electronics and communication engineering with acquired skills and knowledge.
- Be receptive to new technologies and attain professional competence through advanced education, research work, and other professional activities.
- To prepare graduates who will practice their profession with ethics, integrity, and social responsibility in a global context.
- To develop leadership qualities with demonstrable attributes and to contribute to societal needs.

From Director's Desk

It gives me immense satisfaction that next issue of ECE newsletter is ready for the readers. A college newsletter mirrors the success story of an institution and act as a great medium to reach out to the outer world. It reflects upon the persistent and committed efforts made by faculty, staff and students for taking the institution one step ahead.

Prof.(Dr.) Shakti Kumar (Director)

Continuing the same tradition, this issue of NEXUS (Vol 7 Edition 1), reflects upon commendable contribution made by all members of PIET family in their fields of expertise as well as for the overall growth of the college.

I congratulate everyone for their bit of service for the institution and do expect the same in times to come. I also congratulate the editorial team for bringing out present issue of newsletter.

From HOD's Desk

Dear Readers
Greetings to you!!

The newsletter is a forerunner of all departmental technical activities. With the well qualified faculty & energetic students, the club aims and continuously works for the technical enhancement. The newsletter covers the activities & achievements of the students & faculty. I am pleased to present the issue before the readers.

Dr. Monika Gambhir
(HOD ,ECE)

Please feel free to drop in your suggestions to :
hod.ece@piet.co.in

FACULTY EDITOR

It is a matter of pride as well as pleasure to present before our readers next issue of Department Newsletter. We feel honored for the faith reposed in us for per- forming the role of editors of Department Newsletter.

We have put whole-hearted endeavors to give a complete and kaleidoscopic view of laudable achievements of ECE department. Through further issues of NEXUS, we do hope that we will come up to the expectations of our readers.

Please feel free to drop in your suggestions to :
sapna.ece@piet.co.in

Sapna Arora
(A.P., ECE).

CHIEF EDITOR

Good leaders create a vision, articulate a vision and passionately owns a vision and turn it into a reality"

- Jack Welch.

I being the chief editor, make a promise to the institute that through my determination, perseverance and hard work, would undertake any task entrusted to me by the school authorities and fulfill it in the best possible way.

Coming to the newsletter, I expect full cooperation from my fellow students and peers. New ideas, new sections in the issue of NEXUS are always welcome by the Editorial Board. The editorial board is looking forward to make this newsletter a vehicle for students to express their innermost thoughts.

Himanshu Garg

Please feel free to drop in your suggestions to :
himanshu2819291@gmail.com

EDITORIAL BOARD

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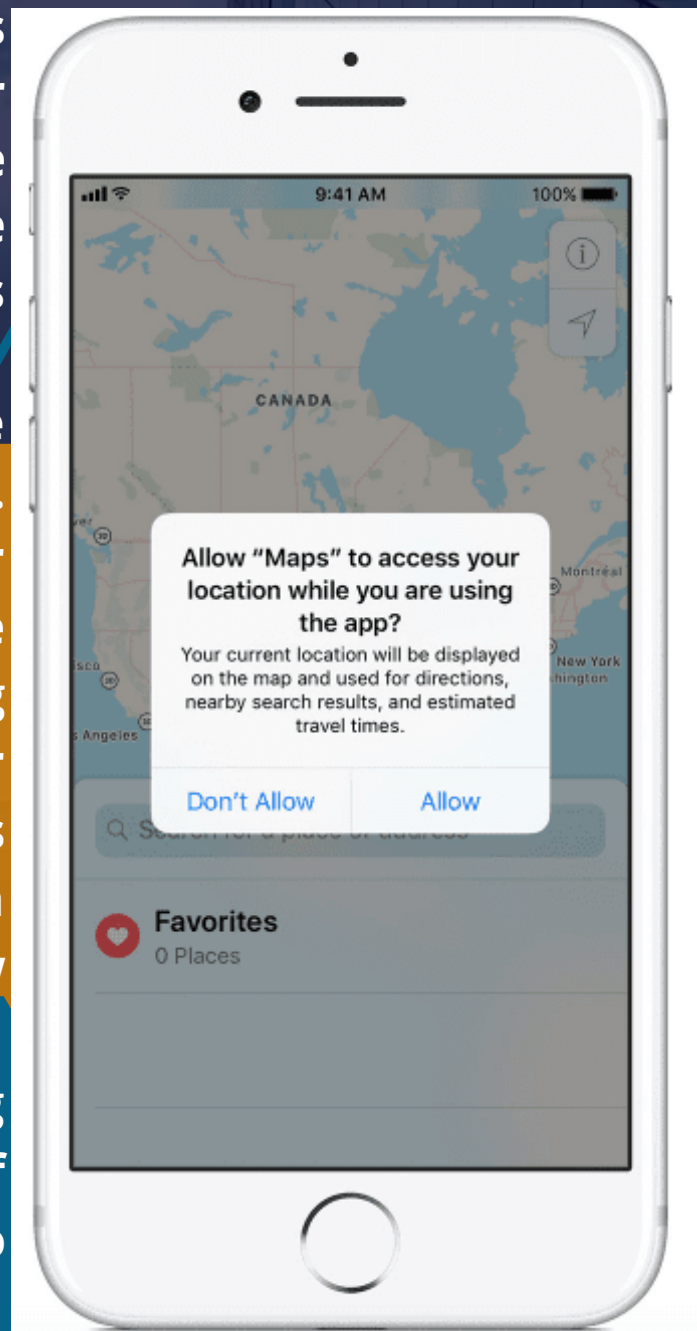## *Geofencing and location-based services*

It's no secret that mobile apps are tracking the location of their users. In fact, users are giving them permission to do so.

Whenever you download and use a new app, you'll get a notification that requests permission to access your location. Here's an example of what this notification looks like on iOS devices.

You can't even use some apps unless you share your location with them. For example, if you're using a rideshare app like Uber or Lyft, you won't be able to get connected with a driver unless the app knows exactly where you are.

But now location-based services are trending in a new direction. Companies that don't need your location are still requesting it. They are using it to improve their marketing efforts. In fact, 70% of apps share user data with third-party services. It's easier to target users from a marketing perspective if you know their location.
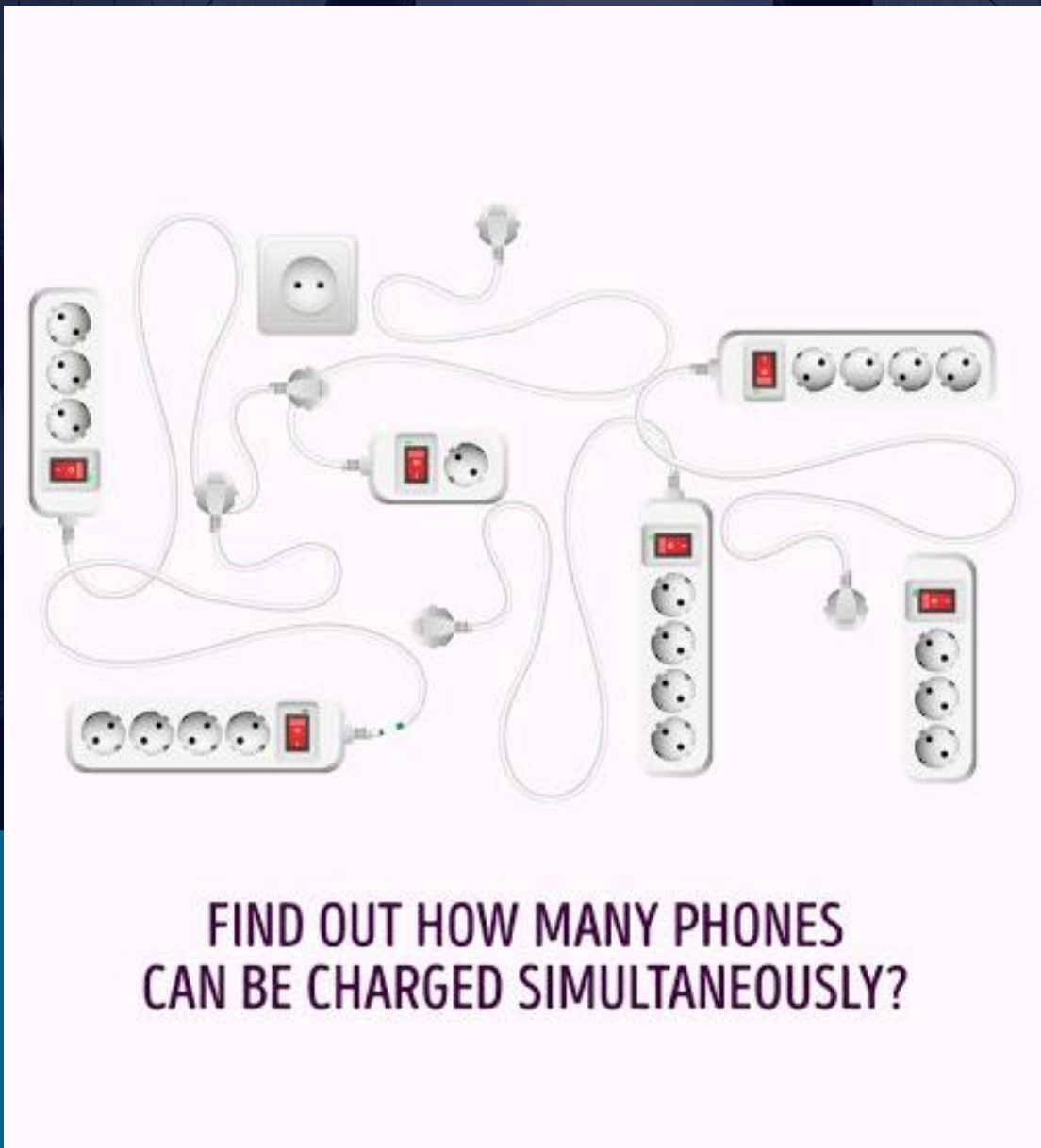
For example, businesses are using geofencing to make more money. If someone with an app downloaded to their device walks into a certain geofenced area, they'll get a push notification from the app with some kind of promotion based on that location. We're going to see an increase in this type of marketing strategy in 2022.

FOR THE READER

How many phones can be charged at once?

FIND OUT HOW MANY PHONES
CAN BE CHARGED SIMULTANEOUSLY?

TECH ARCHIETECT 5.0

Department of Electronics and Communication Engineering, PIET, in association with IETE conducted Tech Architect 5.0 technical presentation competitionon March16, 2022.

The purpose of the event was to make students aware with the theme of self and family protection from covid-19, Women Empowerment and Green environment.

Many students of different department PIET College participated in it and came up with tremendous ideas based on Tech Architect 5.0.

The respected judge from Academia
Ø Dr. Dinesh Verma (MCA)
Ø Dr. Shakti Arora (CSE)
Ø Mr. Ratan Deep (IT)

The young minds who secured position were:
Ø 1st position –Ruchi (DMS)
Ø 2nd Position- Tiya (IT Department)
Ø 3rd Position-Kunal (ECE Department)

The event was successfully organized by faculties of ECE Dept., PIET :
Prof. Sachin Dhawan
Prof. Arun Rana
Prof. Sapna Arora

And the active members of Yantra Club, ECE and Student coordinators:
Gujan (B.Tech ECE 2ndyr)
Himanshu(B.Tech ECE 3rdyr)

With warm regards,
Yantra Club, ECE

DID YOU KNOW ??

1. The word engineer comes from a Latin word meaning 'cleverness'.

2. The fastest passenger train in the world is the Shanghai Maglev with a maximum operational speed of 267 mph.

3. The largest wind turbine in the world is in Denmark. It is 720 feet tall, has 260-foot blades, and can generate 8 megawatts of power (enough to supply electricity for 3,000 American homes).

4. The snowboard was invented by an engineer. Serman Poppen invented a toy for his daughter by tying two skiis together and attaching a rope to one end. This invention called the "snurfer" eventually evolved into the snowboard. With some engineering twists and turns along the way, the snowboard has become a marvel of geometry, chemistry, and biomechanics.

5. According to Moore's Law, microchips double in power every 18 to 24 months. Gordon E. Moore, a founder of Intel, proposed the concept in 1965.

6. Big Brutus is the second largest electric shovel in the world. The electric shovel constructed in 1963 took more than 150 railroad cars and over a year to build. It is 160 feet tall and operates at 15,000 horsepower. The shovel had to be shut down in 1974 because the cost of operation was twice that of the value of coal it recovered.

7. Although there is much debate about this fact, the first video game, called "Tennis for Two" was introduced in 1958 and created by William Higinbotham.

8. The first computer program was predicted by Ada Lovelace in a paper she published in 1843. Ada suggested that plan for calculating Bernoulli numbers with a new calculating engine called the "Analytical Engine".

9. The Atari Portfolio was released in 1989 and was the world's first palmtop computer. Two years later it appeared in the film Terminator 2, where it was used by John Connor to hack an ATM and retrieve the key to the vault in the Cyberdyne lab.

10. One Google search produces about 0.2 g of CO_2 . But since you hardly get an answer from one search, a typical search session produces about the same amount of CO_2 as does boiling a tea kettle. Google handles about 1 billion search queries per day, releasing some 200 tons of CO_2 per day.

ANSWER 8 phone. One power strip has a cut cord. The strip with the one socket is useless. One of the strips doesn't have a cord at all and in another one there is no hole for a plug. Also, one socket on each of the two strips will be taken by the plugs from the others.