



NEW HORIZON COLLEGE OF ENGINEERING

Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF
INFORMATION SCIENCE
AND ENGINEERING

BEYOND
EXPECTATIONS



NEWSLETTER

I-NEWS

Volume - 7
Issue - 2

MARCH - JUNE
2022

ABOUT THE DEPARTMENT

Information Science and Engineering department focuses on current Information Technology trends, and Domain-Specific Applications. The program facilitates the evolution of skills in students to help them attain a higher degree of knowledge, global competency, and excellence, for the betterment of society. The Department of Information Science and Engineering at NHCE was established in the year 2001 and offers graduate, post-graduate, and Ph.D. programs. The four-year B.E degree equips the students to meet day-to-day Technological advancements of the ever dynamic IT field through adept training in various subjects of the curriculum of Information Science and engineering and beyond. The department offers a B.E program through an autonomous scheme from the year 2015 and intake increased to 180 students in the year 2019. The department has a very good team of highly qualified and talented faculty members including Professors, Associate Professors, and Assistant Professors. The present strength of our department is 598 of 2021 batch.

MISSION

To strengthen the theoretical, practical and ethical dimensions of the learning process by continuous learning and establishing a culture of research and innovation among faculty members and students, in the field of Information Science and Engineering.

To build long-term interaction between the academia and Information Technology industry, through their involvement in the design of curriculum and its hands-on implementation.

To strengthen and mould students in professional, ethical, social and environmental dimensions by encouraging participation in cocurricular and extracurricular dimensions by encouraging participation in co-curricular and extracurricular activities.

VISION

To emerge as a Department of eminence in Information Science and Engineering in serving the Information Technology industry and the nation by empowering students with a high degree of technical and practical competence.

MESSAGE FROM PRINCIPAL



It gives me great pleasure to give my best wishes to i-News, a newsletter from the Department Of Information Science and Engineering Of New Horizon College Of Engineering, Bengaluru. The students and faculties of the department are always proactive in taking initiative in organizing all kinds of events. I congratulate all achievers, contributors and editorial board for bringing out such an informative newsletter. I hope this newsletter reflects all activities Of the department and inspires Others to do their best.

MESSAGE FROM HOD

'Neither we can make yesterday better nor you can control what will come tomorrow. But today is a gift. you can do your best.' I am very pleased to present the newsletter i-News Of ISE Department, New Horizon College Of Engineering, Bengaluru. This new endeavor is the result Of the efforts put in by a a dedicated team of teachers and students. We provide opportunities for students to organize and participate in various curricular, co-curricular and extra-curricular activities through various club activities. This newsletter offers a platform for showing our activities and sharing our milestones achieved by our department. convey my best wishes to students and congratulate entire teary' of faculties and editors for making this issue exciting and interesting.



ACHIEVEMENTS



KSCST

KARNATAKA STATE COUNCIL
FOR SCIENCE AND TECHNOLOGY

Karnataka State Council for Science and Technology (KSCST) 44th series of student projects programme.

MAY 11, 2022

Date: 02/05/2022

The final year students of Department of Information Science & Engineering submitted 23 social centric project proposals to Karnataka State Council for Science and Technology (KSCST) 45th series of student projects programme during the academic year 2021-22 under the guidance of faculty members. Among 23 projects, 12 Projects were approved for sponsorship.



NPTEL ENTHUSIAST

Date: 20/05/2022

The final year students of Information Science & Engineering Department, Sonali Preetha Nanadagopalan and Silpa S are recognized as NPTEL ENTHUSIAST for JAN-APR 2022



NPTEL BELIEVER

Date: 20/05/2022

The final year students of Information Science & Engineering Department, Sonali Preetha Nanadagopalan and Silpa S are recognized as NPTEL BELIEVER for JAN-APR 2022



NPTEL DISCIPLINE STAR

Date: 20/05/2022

The final year students of Information Science & Engineering Department, Sonali Preetha Nanadagopalan and Silpa S are recognized as NPTEL ENTHUSIAST for JAN-APR 2022

ISTE CHAPTER STUDENT AWARD 2022



INDIAN SOCIETY FOR TECHNICAL EDUCATION
ISTE KARNATAKA STATE SECTION
(C/o Channabasaveshwara Institute of Technology, Gubbi, Tumkur)

Presents

*Best Performing ISTE
Chapter Student Award-2022
to*

Name: Mr. Shreyas S Gondkar

Institution: New Horizon College of Engineering, Bangalore.

*This award is based on His overall performance,
active involvement and participation in the ISTE
student chapter activities.*

Prof. Nijananda Reddy
Secretary cum Treasurer,
ISTE Karnataka Section

Dr. Suresh D S
Chairman,
ISTE Karnataka Section

BEST WISHES FROM ISTE KARNATAKA SECTION



ARTICLES

WHAT IF DREAMS COULD BE HACKED?

What if I told you that every time you're asleep in your bed at night, your private thoughts might be compromised?

What if, when you're dreaming about all your hopes, fears, and ideas, a cerebral security breach could lead to the ultimate psychological heist? Well, this sounds like something from Christopher Nolan's 2010 sci-fi thriller "INCEPTION", which was one of his masterpieces. But we aren't here to talk about movies. Are we? Let's get to the topic now.

Dreams are extremely valuable. They generate ideas, inspiration, help us solve problems, and much more. But despite their importance, men of science still aren't sure why we dream. We have several theories, like dreams are a way to process emotions, express our desires, and gain "REAL-LIFE" practice when confronted by potential dangers. Or maybe because it's just a way to connect to the parallel universe. A myth that surrounds it is also a funny reason of why you stay up at night is because you are awake in someone's dream. Other theories suggest that dreaming has no real purpose at all. Either way there's still going on inside your head.

What if a shadowy group had the ability to extract those private little thoughts from that head of yours? What kind of information could they extract? The human population spend about six years of your life dreaming in rem sleep and it's more if you include dreams in other sleep stages. That's a lot of information that's just there for the taking.

Governments could spy on their citizens, making sure no one is planning an uprising. Industry saboteurs could spy on competitors' technology by entering their workers' dreams'. The police could try to identify murderers or solve other crimes by entering suspects' dreams.

That's just if the "Dream-Hackers" are taking information. What if they left some behind?

This planted information could be anything from companies filling your dreams with advertisements, to other people manipulating your emotions, to how you perceive the world. Imagine waking up and hating all your loved ones, and not remembering why.

With those dream-hackers out there, how would you sleep at night? Well, if people knew their dreams could be breached, they would try to stop dreaming altogether. People might try to take dream suppressing drugs to lockdown their slumbering state. People who couldn't afford the drugs would be chugging coffee, and fighting off sleep.

So, could you prepare for upcoming dream invasion? Could you hack into your own dreams and setup a firewall?

Well, there is something called "DREAM INCUBATION", which happens when you a seed for a specific dream to occur. This method is often used when people want to solve a problem while they sleep. You should start thinking about all the locked doors and security systems you can. Steel your mind. When asleep, we dream about every 90 minutes, so you need to give yourself time to experience it. About 7-8 hours of sleep is needed and most importantly, encourage yourself to remember the security you added when you wake up. Because if you don't, you'll have to start again.

But this is science fiction, right?

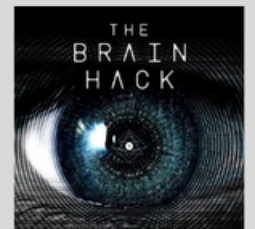
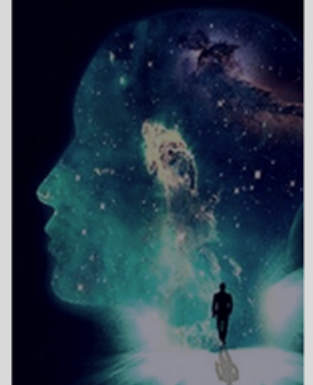
Well, since 2017, MIT has been running a dream lab. Here, a group of researchers is developing a technology capable of mining the subconscious. Their current pride and joy is a device called "DORMIO", which tracks a wearer's muscle tone, heart rate, and skin conductance, feeding audio cues at certain stages of sleep, that then become part of the wearer's dreams.

Since researchers are already able of influence the dream and extract some information, dream hackers could really happen. All we're waiting for are smaller devices that can be applied undetected, without a person's knowledge or consent. It might be a good idea to start taking control of your dreams right now.

That way when the dream hackers come for you, you'll ready. But what if we're able to remove the problem entirely, and took away the cache of valuable dreams?

But what if we no longer needed sleep?

Dream
Hack



SUBMITTED BY,
VIGNESHWARA.T
1NH19IS182



PROS AND CONS OF ONLINE CLASSES

ONLINE CLASSES HAVE BECOME MORE ACCESSIBLE AS STUDENTS KNOW THAT NO MATTER WHAT THEIR DAILY OBLIGATIONS, THEY CAN FIND WAYS TO OBTAIN DEGREES WHILE STAYING AT WORK AND LIFE SCHEDULES. WHILE ONLINE CLASSES WERE ONCE CONSIDERED INFERIOR TO LECTURE HALLS, THE STIGMA SEEMS TO FADE AS TECHNOLOGY IS ADVANCING AND TODAY MANY STUDENTS ARE MAKING GOOD USE OF ONLINE CLASSES.

PROS OF ONLINE CLASSES:

- **FLEXIBLE LEARNING:** THE MAIN ADVANTAGE OF ONLINE CLASSES IS A FLEXIBLE SCHEDULE. IT ALLOWS INDIVIDUALS TO STUDY AT THEIR OWN PACE AND ON THEIR SCHEDULE. DIGITAL CLASSROOMS CAN BE ACCESSED ANYWHERE ANYTIME.
- **ACCESS TO COURSES 24/7:** ONLINE COURSES ARE AVAILABLE ROUND THE CLOCK TO ANY STUDENT WITH A COMPUTER AND INTERNET ACCESS, UNLIKE ON-CAMPUS COURSES THAT REQUIRE STUDENTS TO BE IN CLASS AT A CERTAIN TIME.
- **VARIETY OF COURSES/PROGRAMS:** THERE ARE A VARIETY OF PROGRAMS AVAILABLE ONLINE. STUDENTS CAN CHOOSE TO STUDY ALMOST ANY PROGRAM.
- **SAVING MONEY WHILE EARNING A DEGREE:** ONLINE COURSES ARE USUALLY LESS EXPENSIVE THAN ON-CAMPUS COURSES AT UNIVERSITIES. THUS, ALLOWING STUDENTS TO SAVE MONEY WHILE EARNING THEIR DEGREE.
- **SELF-DISCIPLINE AND RESPONSIBILITY:** THE FREEDOM TO TAKE ONLINE CLASSES AT YOUR OWN PACE REQUIRES GREATER RESPONSIBILITY. SO, IT INCULCATES A SENSE OF RESPONSIBILITY AND SELF-DISCIPLINE AMONG STUDENTS.
- **LOCATION INDEPENDENCE:** IN AN ONLINE PROGRAM, THERE ARE NO GEOGRAPHIC RESTRICTIONS. STUDENTS CAN STUDY RIGHT FROM THEIR HOMES.

CONS OF ONLINE CLASSES:

- **LACK OF PEER INTERACTION:** THOUGH MANY ONLINE CLASSES ENCOURAGE COLLABORATION THROUGH GROUP PROJECTS AND FORUMS, STUDENTS MAY FEEL ISOLATED FROM THEIR PEERS WHEN NOT SHARING THE SAME PHYSICAL SPACE.
- **TECHNOLOGY PROBLEMS:** ONLINE STUDENTS WITH COMPUTER OR INTERNET PROBLEMS WILL BE UNABLE TO COMPLETE THEIR ASSIGNMENTS OR EXAMS ON TIME.
- **REQUIRES PERSONAL DISCIPLINE:** STAYING MOTIVATED AND KEEPING UP WITH ASSIGNMENTS MAY PROVE DIFFICULT FOR SOME STUDENTS WHO ATTEND ONLINE CLASSES THAN FOR THOSE ATTENDING TRADITIONAL CLASSES.

AT THE END OF THE DAY, IT CAN BE SAID THAT ONLINE CLASSES AREN'T ALWAYS PERFECT FOR EVERYONE BUT IT HAS ALSO BROUGHT A POSITIVE EFFECT IN THE LIVES OF MANY STUDENTS AND WORKING PROFESSIONALS. IT HAS ALLOWED MANY STUDENTS TO TAKE UP ADDITIONAL COURSES ALONG WITH THEIR STUDIES OR JOB AS PER THEIR CONVENIENCE.



**SUBMITTED BY,
SAVNEET KAUR
1NH19IS141**

FINTECH IN INDIA

FinTech stands for financial technology and is rapidly changing the face of the banking industry, as several banks are now switching to digitization as well as paperless and cashless processes. FinTech is a term used to describe emerging digital technology that aims to improve the delivery and usage of financial services.

With one of the world's fastest-growing economies, India has undoubtedly emerged as one of the fastest-growing FinTech hotspots in recent years. Paperless lending, mobile banking, secure payment gateways, mobile wallets, and other concepts are already being adopted in India.

Over the last two years, there has been a massive adoption of digital payment systems in India, making more convenient to go about with basic financial services. This growth and expansion of the FinTech ecosystem in India have been aided by a number of factors, including the growing availability of smartphones, increased internet access, and high-speed connectivity.

In recent years, India's payments infrastructure has seen substantial improvements, particularly with the introduction of new payment mechanisms such as Immediate Payments Service (IMPS), Unified Payments Interface (UPI), Bharat Interface for Money (BHIM), and others. The government's "Make in India" and "Digital India" projects accelerated the adoption of Fintech.

With the advent of breakthrough platforms such as Paytm, PhonePe, etc., digital payment systems have undeniably been the flag bearers of the Indian FinTech market. Additionally, Facebook and Reliance Jio's global partnership is expected to significantly change India's digital payments sector, with a particular focus on digital commerce that will reach tier 2 and 3 cities and rural areas.

Due to various factors such as an innovation-driven startup scene, a highly favorable market, enhanced smartphone and internet penetration levels, a young population with the median age in the 20s, and government-led attempts to promote the industry, the country offers a great space for a FinTech revolution.



Submitted by,
Adithi Rao
1NH19IS007

CLUB ACTIVITIES

I-CSEH CLUB



Seminar on “Data Analytics”

Date - 03/06/2022

Time - 11:00am - 1:00pm

i-CSEH club of Information Science and Engineering Department and Master of Business Administration Department of New Horizon College of Engineering had conducted a seminar on Data Analytics on the 3rd of June 2022.

The speakers of the day were Mr. Dinesh Kumar Panigrahi, Mr. Chandra Mouli Kotta Kota accompanied by Mr Sabrish Sathiavan. Mr.Dinesh Kumar Panigrahi is the regional lead at NASSCOM and a governing council member and director at Karnataka Vocational Training Society and Mr Chandra Mouli is a former Business Consultant/Data Scientist. He is an expert in Business and Big Data Analytics.

The seminar began with an overview of futureskills prime by Mr Dinesh Kumar Panigrahi. It is an industry driven learning ecosystem to get India accelerated on the journey to building skills and becoming the global hub for talent on emerging technologies. This was then followed by a discussion on technology, job market scenarios, salary expectations, pitching courses etc from the analytics lab team, Mr. Chandra Mouli Kotta Kota. Then followed by talk on the GoI incentive walkthrough by Mr. Dinesh Kumar Panigrahi .

VITA CLUB



TechKriti

Date - 09/06/2022

Time - 11:00am - 3:00pm

The event TechKriti was conducted on 9th June, 2022 under VMware IT Academy Club, an intra-collegiate technical event held by the Information Science & Engineering department. The event started around 11:00 a.m. in the morning with an

enthusiastic participation of 102 students across various departments. An introduction to the event was given in the class room in the presence of all participants. TechKriti had three rounds in total:

1. Brain Boggle
2. You Snooze You Loose
3. Trustycrews

The final top 2 teams were awarded certificates based on accuracy and time. The event

TechKriti concluded without hassle & with significant cooperation from the participants in about 4 hours.

I-SCRUM CLUB



Seminar on “Data and Deployment with TENSORFLOW.JS”

Date - 07/06/2022

Time - 2:00pm - 5:00pm

i-SCRUM club of Department of Information Science and Engineering conducted “WORDSVILLE” on 7th June 2022 from 2:00pm-5:00pm. The event was held for students from all the departments of NHCE. The event had active student participation with more than 40 teams.

The first round was “SCRIBBLE”, which was basically Pictionary which was time based. The second round was “Tug of Words”. In this round each team was presented with a Debatable statement and they had to choose to go against or for the topic, then had to speak for a given time and put their opinions forward.

The winners of the WORDSVILLE event were Arpitha Vinod and Manas M who bagged the first place, Shruti Singh and Zainab A Kalkoti bagged the second place. The event was conducted with great enthusiasm and every participant put their best foot forward. Every round forced the participants to think harder in order to secure their position in the event.

I-SWET CLUB



NEW HORIZON
COLLEGE OF ENGINEERING

Department of Information Science and Engineering
in association with

Presents

SPECTRA

Round 1 - Tic Twist Toe
Round 2 - Triple code
Round 3 - See Through It

Date: 09-06-2022
Time: 12:30 PM
Venue: ISE Department

Exciting prizes for winners
E-Certificate will be provided

Conveners:
Dr. R J Anandhi
Prof. Mounica B
Prof. Latha S S

For Queries Contact:
Yashas - 8867552736
Tharun - 9686749086



SPECTRA

Date - 09/06/2022

Time - 11:10am - 4:00pm

The event SPECTRA was conducted on 09th June, 2022 under i-SWET(G) Club, an intra-collegiate event held by the Information Science & Engineering department. The event started around 11:10p.m. in the afternoon with an enthusiastic participation of 70+ students across various departments. An introduction to the event was given in the class room in the presence of all participants. SPECTRA had three rounds in total:

1. Tic Twist Toe.
2. Triple Code.
3. See Through It.

The entire event was based on problem solving, logical and focused on thinking ability. The event Spectra concluded without hassle & with significant cooperation from the participants in about 5 hours.

Winners

NOTE CLUB



BLENDER WORKSHOP

Date - 06/05/2022

Time - 1:50Pm - 4:50pm

Note club of Information science and Engineering department has conducted a Blender workshop for around 3 hours on the 6th of may 2022. It was an inter department hands on workshop where all the participants were first given the introduction about the usage of the software and further taught with an example model. The main topics covered in the workshop was:

- The basics of blender
- 3D modelling from scratch
- To build a Mayan pyramid and Mjolnir

MOTIVATIONAL TALK



The department of Information Science and Engineering has conducted Motivational talk on the following topics "Your Elusive Creative Genius", "Body Language", "The Surprising Science of Happiness", "The Power of Vulnerability", "A Kinder, Gentler Philosophy of Success", and "What Does It Take to Change A Mind" for the 4th and 6th semester students on the 10th of June and 13th of June , 2022.

The expert speakers are 'Elizabeth Gilbert', 'Amy Cuddy', 'Dan Gilbert', 'Brene Brown', 'Alain de Botton', 'Lucinda Beaman'. The Speakers are from TedEx who examines the puzzle of motivation starting with a fact that social scientists know but most managers donot Traditional rewards are not always as effective as we think. Listen for illuminating stories -- and maybe, a way forward.

FIELD/EXPOSURE VISIT TO TECHNOLOGY TRANSFER CENTRE

NEW HORIZON
COLLEGE OF ENGINEERING
Institution's Innovation Council in Association With
Department of Information Science and Engineering
& Computer Engineering
Presents

**FIELD/EXPOSURE VISIT
TO
TECHNOLOGY TRANSFER CENTRE**

Conveners
Dr R J Anandhi Dr Manikanadan S P
Dean Academics & Head-ISE HOD-CE

IIC Coordinators
Dr L Srinivasan Mr Rahul B
Associate Professor-ISE Assistant Professor-CE
IIC Convenor IIC President
Dr Agalya V Dr Siddesh G K

Principal
Dr Manjunatha

Student Coordinator
Mr.Shreyas G-ISE
Ishita Chauhan-CE

01st June 2022 @ 11.00AM



DATE - 01/06/2022

TIME - 11:00AM - 3:00PM

NHCE Institutions Innovation Council and Department of Information Science and Engineering & Computer Engineering Organized Field/Exposure Visit to Technology Transfer Centre on 01st June 2022. Around 20 students of fourth Semester from both the departments with two faculty members participated in the field visit.

Mr.Swaraj K S, CEO & Founder ,and Mr.Amar, Co-Founder, Capsley Business Developers, Bengaluru welcomed the gathering. Mr.Swaraj gave an inward sighting in to how a startup can be created, the challenges he faced and solutions for next level. He also gave an overview on Consumer Behavior analysis, Marketing strategies report or website critique, SEO strategy and tactics, Rankingstrategy, social media marketing and strategy.

The image features a white diagonal band across a background of dark blue and light blue diagonal stripes. The text 'NHBYTES' is written in a bold, dark blue, sans-serif font, and '2022' is written in a smaller, dark blue, sans-serif font below it.

NHBYTES

2022

EMPOWERING WOMEN TOWARDS DIGITAL ERA



Date: 08/03/2022

Time: 1 PM – 2 PM

The department of Information science & Engineering in association with Women Empowerment cell organized a Webinar on the topic “Empowering Women towards Digital Era” for all the Non-Teaching staffs of NHCE.

The event started at 1:00 PM, commencing with short welcome speech and went on till 2:00 PM. The Presentation was conducted by resource person ,Dr. Gautham, Senior Assistant Professor and Mrs.Anusha Shettar, Assistant Professor, ISE Department, New Horizon College of Engineering, Bangalore.

Speaker provided a detailed explanation about different payment methods in digital era like Google Pay, Paytm, and PhonePe and described the advantages and disadvantages of digital era payment methods. The presentation was helpful for the non teaching staffs for understanding and using various online payment methods

GPE-SESSION “AMAZON WEB SERVICE”



Date: 28/03/2022

Time: 3:00PM - 4:30PM

Information Science and Engineering Department of New Horizon College of Engineering organized a technical event on Amazon web services as part of GPE program. Trainer Praveen Sharma form Alpha Tech Academy with 8+ years of experience in application programming, development, operations(DevOps) and training experience, covering deliverable across the SDLC (Development, Performance, Memory Management, Testing, Sonar, Deployment, Support, etc.) to corporate and enterprises workforces. 52 students participated in the event.

The event started with the Introduction to AWS, Elastic computing

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