



NEW HORIZON
COLLEGE OF ENGINEERING



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

BEYOND EXPECTATIONS



A HALF - YEARLY PUBLICATION

I - NEWS

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2019 JULY-DEC

VOLUME 5 ISSUE 1

ABOUT DEPARTMENT



The information science and Engineering department focuses on current Information Technology trends and domain-specific applications. The program facilitates the evolution of students' skills to help them attain a higher degree of knowledge, global competency, and excellence to better society. The Information Science and Engineering course at New Horizon College of Engineering is designed to meet industry standards and cope with emerging technology. There is a great emphasis on holistic learning to help the students make significant contributions at all levels and meet stakeholders' expectations.

DEPARTMENT VISION & MISSION:

Vision:

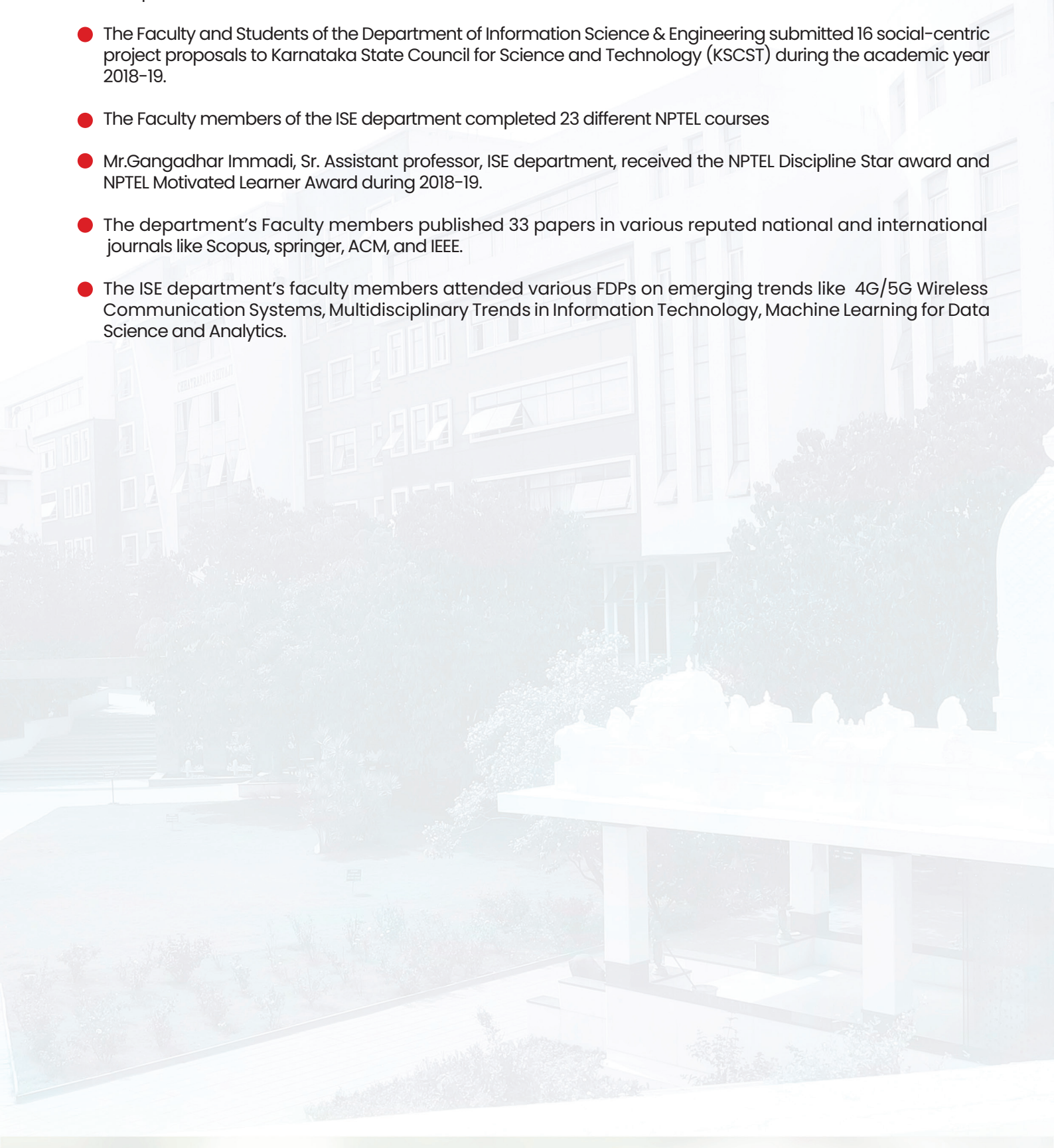
To emerge as a department of eminence in Information Science and Engineering in serving the Information Technology industry and the nation by empowering students with a high degree of technical and practical competence.

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.
- To build long-term interaction between the academia and Information Technology industry through the involvement of the Information Technology industry 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 co-curricular and extracurricular activities.

DEPARTMENT ACHIEVEMENTS:

- Department of Information Science & Engineering has a consistent and excellent placement record since its inception. 62 students from the ISE department are placed across leading software companies. A good percentage of students opt for higher studies abroad, civil services, and entrepreneurship. The students are prepared for placements by offering project-based curriculum and personality development programs. The students are provided with Pre-placement training to make them ready to face the recruitment from the companies.
- The Faculty and Students of the Department of Information Science & Engineering submitted 16 social-centric project proposals to Karnataka State Council for Science and Technology (KSCST) during the academic year 2018-19.
- The Faculty members of the ISE department completed 23 different NPTEL courses
- Mr.Gangadhar Immadi, Sr. Assistant professor, ISE department, received the NPTEL Discipline Star award and NPTEL Motivated Learner Award during 2018-19.
- The department's Faculty members published 33 papers in various reputed national and international journals like Scopus, springer, ACM, and IEEE.
- The ISE department's faculty members attended various FDPs on emerging trends like 4G/5G Wireless Communication Systems, Multidisciplinary Trends in Information Technology, Machine Learning for Data Science and Analytics.



List of Eminent Academicians and Scientists/visitors to the Department for Academic Session 2019-20

Sl. No	Date	Resource Person	Topic	Students
1.	26/10/2019	Mr. Darpan Majumder, Principal Engineer, Symbol Technologies India Pvt. Ltd., Bengaluru	Software Engineering and best practices in Industry	V Semester Students
2.	14/09/2019	Mr. Vinay M Haritsa, Data Science Engineer, Vtricks Technologies iweave Solutions Pvt. Ltd., Banglore	Machine learning algorithms and their applications	VII Semester students
3.	14/09/2019	Mrs. Deepthi Lakshmi, Arisa-Demo Solutions Manager, SAP Labs, Banglore	Transactions Management in Database	V Semester students
4.	12/09/2019	Mr. Nagesh V, Operational Head, Trinity solutions, Bangalore	Data Structures and its Applications	III Semester students
5.	27/08/2019	Mr. Veerendra V, Schneider Electric, Bangalore	Technology Trends and Industry in Future	V Semester Students

Student's participation in Technical Symposiums in the year 2019

Sl.No.	Name	Event Name	Date
1	Silpa S	National level SAP Semicolon Hackathon	18/10/2019
2	Srivatsa R V	BITSMUN 2020	24/11/2019
3	Harini V N	InQuizitive	05/06/2019
4	Silpa S	Semicolon Hackathon 2019	29/07/2019

CLUB ACTIVITIES AND WORKSHOPS

Workshop on Data Science with Python

The Information Science and Engineering i-SWET club has conducted a workshop on the topic "Data Science with Python" on 28th August 2019. Under the ISE department HOD's supervision, Dr. Anandhi R J at ISE department. The expert speaker, Mr. Guruprakash Sivabalan, is the Founder & Chief Executive Officer of Xobin Technologies Private Limited. Guruprakash has a decade of experience in building scalable web products using cutting-edge technologies. Being the CEO of Xobin, he leads the company's entire product division, which has been used by over 300+ Startups, Enterprises, and Fortune 500 Companies. The students were provided good knowledge about the python concepts.



Mr. Guruprakash Sivabalan sharing his knowledge on Data Science to students

Workshop on Cyber Security and Consumer Awareness

The department of Information Science and Engineering has conducted the Workshop on Cyber Security and Consumer Awareness. This workshop was intended to provide awareness among the student community about the different cyber threats taking place every day. Mr. I.L. Narasimha Rao Senior Project Manager Cyberpeace Foundation, Hyderabad. The workshop discussion was focused on the following topics Primary Online Risks and Threats, Cyberbullying and Other threats, Responsible Online Behaviour, Checking URLs regularly, Types of Cyber Crimes, Understanding data used in a smartphone, Checking the basic settings of your transaction, etc. The students understood the different cyber-crimes that are conducted every day and the ways how they perform them. This workshop has motivated the young engineering students also to come forward to ensure that such threats can be reduced shortly.



Mr. I.L. Narasimha Rao sharing his knowledge on cybersecurity

Workshop on Global Education Programme

Department of Information Science and Engineering i-SCRUM club, in collaboration with “Manya–The Princeton Review,” conducted “GLOBAL EDUCATION PROGRAMME AND WORKSHOP” on 24th September 2019, at Falconry Seminar Hall. Manya–The Princeton Review is one of the companies specialized in providing consultation and training for global education and careers. Mr. Arshad Ahmed, Assistant General Manager and Counselor – Career planning –global education (Certified by Princeton), addressed the students and gave them an insight on the career opportunities abroad and how to get there. He also briefed about global education offers. The session was very interactive as the students were keen to extract more information regarding their career/higher education.



The guest speakers giving inputs to the students regarding career opportunities

A workshop followed the session on various competitive examinations for higher education by Mr. Rahul Dalmia, Senior faculty and Princeton certified trainer. Students were posed aptitude and technical questions that can help them for cracking the competitive examinations. The Global Education Programme and Workshop was very useful, especially for the students who are aspiring to pursue higher education/career abroad.

TECHNICAL EVENTS

T-ZEST Technical event

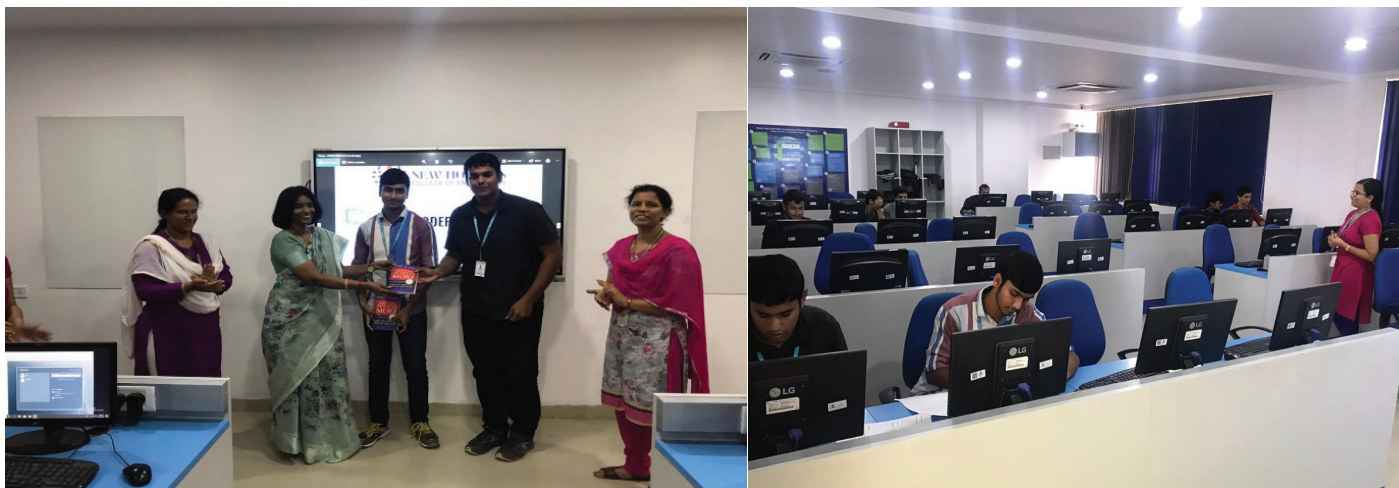
Department of Information Science and Engineering i-SCRUM club conducted a “T-ZEST” technical event with the theme, Technological solutions for Societal issues on 11th September 2019, at VM-ware lab, Department of ISE. More than sixty teams across various departments (AU, CIV, CSE, ECE, EEE, ISE, ME, and MCA) of NHCE participated. The winners were awarded certificates and a good amount of cash prize. Participants were given challenging questions from various emerging technologies, programming questions, and other general technical questions. Each team presented their innovative solutions in front of the expert panel consisting of Dr. Girija N Srinivasalu, Director, NHQASDC, and Dr. Anandhi R.J, HOD, Department of ISE, NHCE. The panel evaluated the participants based on predefined criteria. The teams that came up with the most innovative solution using technology were selected as the winner and runner-ups for the event.



Active participation of different department students

Koders contest

NOTE CLUB of information science and engineering department of New Horizon College of Engineering has conducted a contest “KODERS” on 21st October 2019. It was a team event where each team comprised two members—the event comprised of 3 rounds that include aptitude, Pictionary, and coding. Students from the electronics and communication department, computer science and engineering department, and ISE department participated in the event. The winning teams got attractive prizes as a token of appreciation by HOD –ISE Dr. R J Anandhi. All the students who attended the event were interested and actively participated, and were motivated to learn more.



Active participation of the students

Technomance Event

“Technomance,” an event from VMware IT Academy Club of Information Science & Engineering Department, was organized on 28th August 2019 at New Horizon College of Engineering. Around 80 students from various departments had attended the event in Dr. R J Anandhi, Professor & Head of the Department, Information Science & Engineering. The event started with Mr. Vikas B O, faculty coordinator of VMware IT Academy Club, in all club members and participants. This event mainly focuses on useful, informative, and competitive rounds like the general aptitude round, code debugging round, etc. All the students actively participated.



Active participation of students in general aptitude round and code debugging round

CRYPTOWAR

i-CSEH CLUB of Information Science and Engineering department of New Horizon College of Engineering has conducted a contest "CRYPTOWAR" on 24th of October 2019. The event comprised of 3 rounds, the first round being a Technical quiz round where all the teams were given 20 questions which had to be answered in 20 minutes. Second round was Puzzle Solving using Ciphers and the third round was Coding. All the students who attended the event showed immense interest and enthusiasm and were motivated to learn new things. The event concluded on a successful note.



Winners of the cryptowar received attractive prizes as a token of appreciation by the HOD of ISE department, Dr. R J Anandhi

CRYPTATHON

"CRYPTATHON - A Python Boot Camp" was organized on the 28th August, 2019 by the faculty and student coordinators of the i-CSEH (Cyber Security and Ethical Hacking Club) of the Information Science and Engineering Department in collaboration with Xobin Technologies PVT LTD. The session was organized for the 3rd semester students of the ISE Department. It was held from 1.30 PM to 4.00 PM. The session started off with an introduction to the basics of python followed by a hackathon. The session was quite interactive and the students got an opportunity to experience a hands-on workshop. The session was very informative and helpful as it gave the students an insight to Python Programming Language.

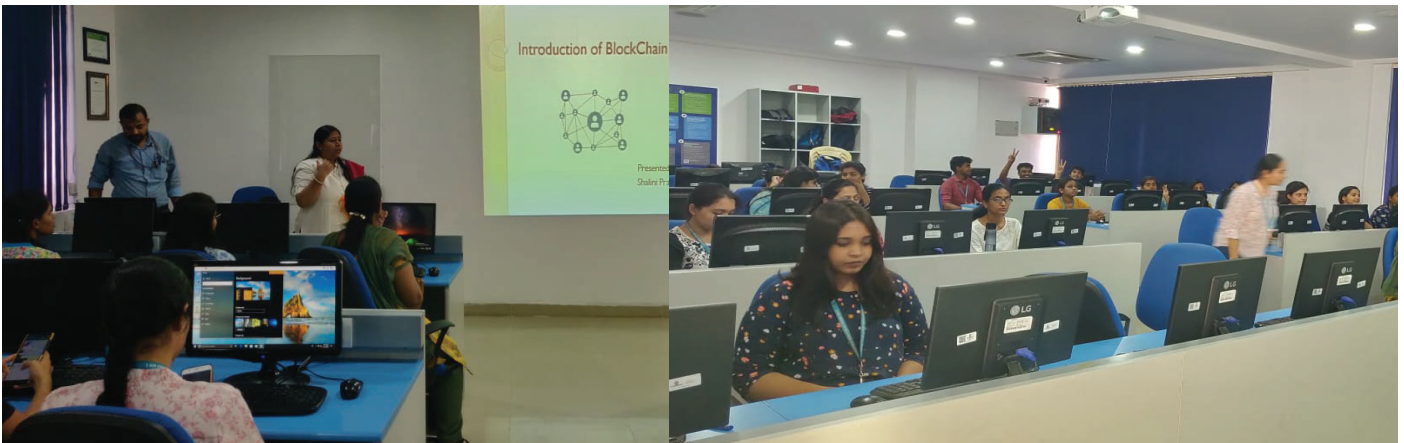


Session Addressed by Mr. Guruprakash Sivabalan, Founder and Chief executive of Xobin Technologies

EXPERT TALKS CONDUCTED

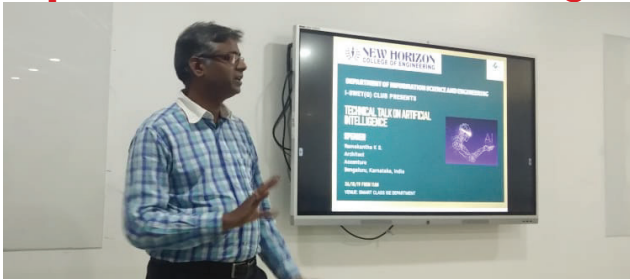
Expert Talk on Blockchain (12th February 2019)

The department of Information Science and Engineering has conducted an expert talk on the topic "Blockchain" for the Sixth-semester students on 11th APRIL, 2019, under Dr. Anandhi R J's supervision HOD ISE at Information Science and Engineering department. The expert speaker, Ms. Shalini Prakash, is a multi-skilled professional with 8+ years of experience in the IT industry specializing in Object-oriented concepts Web-Based Enterprise Application Development. She is a certified blockchain expert. She is also certified in Machine Learning from Stanford University Online. Overall topics covered in this one-day program are Introduction to the blockchain, blockchain types, bitcoin, blockchain advantages over traditional technologies, different terminologies used in blockchain, cryptography, use cases. The students were provided good knowledge about the blockchain concepts, terminologies, advantages, applications, and hands-on sessions.



Ms. Shalini Prakash sharing her knowledge of Blockchain technology

Expert talk on Artificial Intelligence (26th October 2018)

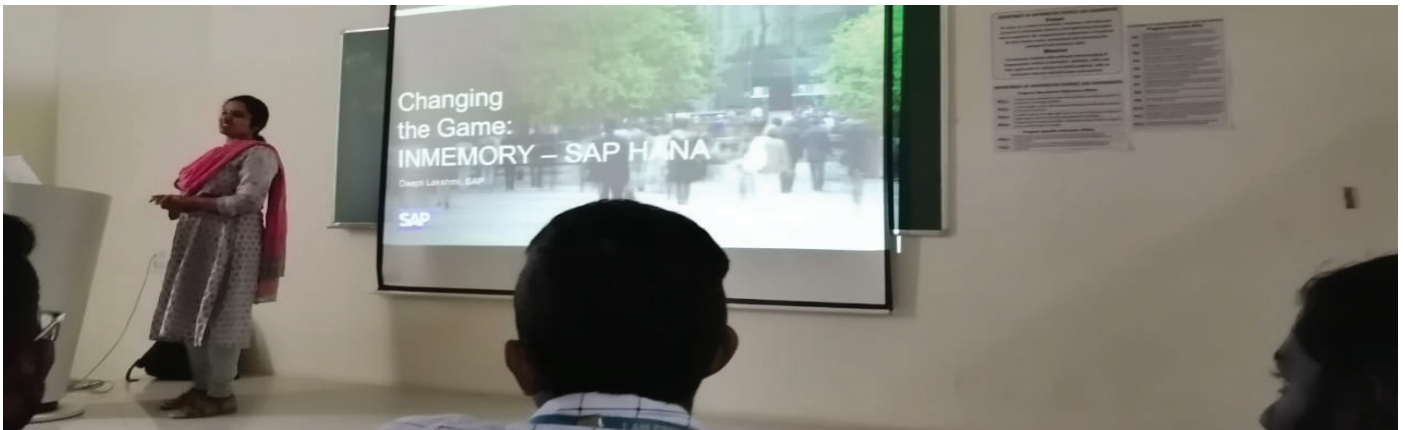


Mr. Ramakantha K.S sharing his knowledge on Artificial Intelligence

The department of Information Science and Engineering has conducted an expert talk on the topic “Artificial Intelligence” for the 5th-semester students on 26th OCTOBER, 2018, under the supervision of ISE department HOD Dr. Anandhi R J. The expert speaker Mr. Ramakantha K.S is a multi-skilled professional with 12+ years of experience spread across the IT sector database. The need for a database with Real-time applications was considered as the key area. The Speaker covered the topics like Introduction of artificial intelligence challenges, approaches, and AI tools.

Expert Talk on Transaction management in Database (27th August 2019)

The department of Information Science and Engineering has conducted a workshop on the topic “Transaction management in database” for the 5th-semester students on 14th APRIL, 2019 under ISE head of the Dr. Anandhi R J at ISE department. The expert speaker, Mrs. Deepti, is an experienced Solutions Manager with a demonstrated history of working in the computer software industry. They are skilled in SAP Netweaver, SQL, SAP Implementation, requirements analysis, and enterprise Software. The Speaker covered the topics like Introduction to database transactions, concurrency in transactions, types of transactions. The outcome of this program is that the students were provided good knowledge about the python concepts.



Mrs. Deepti sharing her knowledge on Transaction management in database

Expert talk on applications of Data Structure (12th September 2019)

The department of Information Science and Engineering has conducted an expert talk on the topic “Applications of Data Structures” for the 3rd semester students on 12th September 2019 under the supervision of HOD, ISE department Dr. Anandhi R J at Information Science and Engineering department. The Speaker, Mr. Nagesh, is a multi-skilled professional with experience in the IT industry, specialized in Operating systems, Data Structures, Data Science, and Computer Networks. The expert speaker covered the topics like arrays and structures, stack and application, queue, and application. The students were provided good knowledge about the applications of data structures.



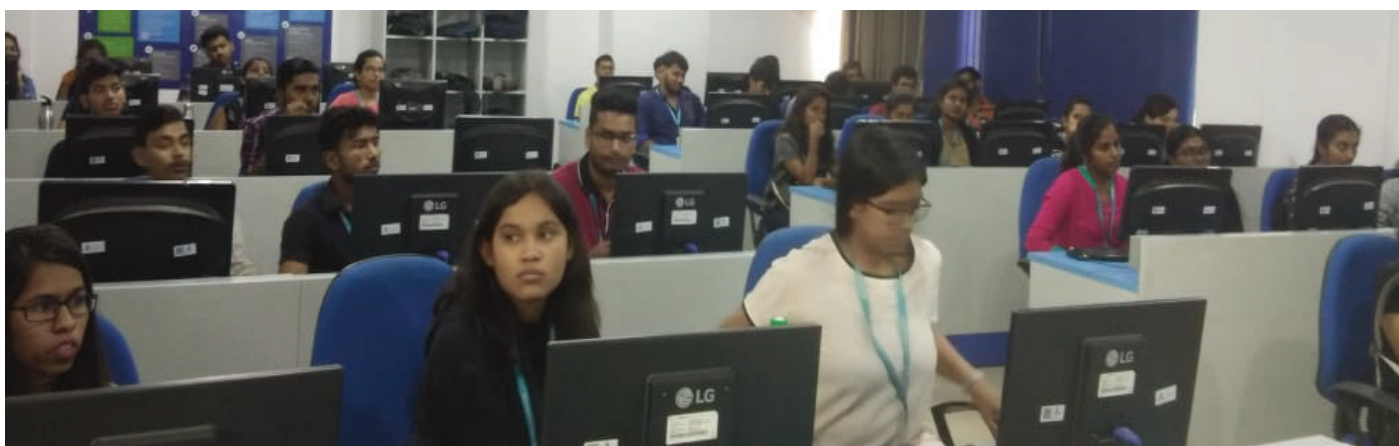
Mr. Nagesh sharing his knowledge on Applications of data structures

The expert talk on Software Engineering and best practices in Industry (26th October 2018)

The department of Information Science and Engineering has conducted an expert talk on the topic “Software Engineering, and best practices in Industry” for 5th-semester students on 26th October 2018 under the supervision of ISE Head of the department, Dr. Anandhi R J. The Speaker Mr. Darpan Majumder is a multi-skilled professional with 8+ years of experience spread across database in IT Sector. The need for the database with the Real-time applications was considered as the key area. The Speaker covered the topics like Introduction of Software Engineering, SE techniques and methods, Best practices. The students were provided good knowledge about the applications of Software engineering and best practices.



Students enthusiastically listening to the session



Expert talk on Machine learning algorithms and their applications (14th September 2019)

The department of Information Science and Engineering has conducted an Expert talk on the topic “Machine learning algorithms” for the 7th-semester students on 14th September 2019 under the supervision of ISE Head of the department, Dr. Anandhi R J at ISE department. The Speaker, Mr. Vinay, is a multi-skilled professional with experience in the IT industry specializing in machine learning, database, coding languages, and agile techniques and presently working as a data science Engineer, Vtricks Technologies iweave solutions Pvt ltd Bangalore. The expert speaker covered the topics like machine learning, neural networks, real-time applications. The students were provided good knowledge about the python concepts



Mr. Vinay sharing his knowledge of Machine learning algorithms

Forum between VMware officials & students of NHCE

Jackie Barker Weeks, Global Program Manager, Palo Alto, California, USA visited New Horizon college of engineering, Bangalore to address students about the working and management of VMware. Session involved discussing about the current and future technology in Virtual machine, cloud computing and VMware related technologies. continued with how the hiring goes, and how VMware course helps in improving students in the current and future technologies, improvising your skills in this fields help's in the career. Discussed things to be specialised in the course and skills to be expert in virtualization. Followed with Q&A session student were allowed to ask question related to the session. And followed by photo session with principal, HOD of ISE department ,chief guest and students opted VMware as there elective.



Jackie Barker Weeks, Global Program Manager giving ideas of emerging technologies to NHCE students

Industrial visit to ITORIZON (27th September 2019)

Department of Information Science and Engineering organized an Industrial Visit to ITOrizon Inc., Hoodi, Bengaluru on 27th September 2019. A half-day educational event aimed to know the real-time working environment's insights in warehouse managing of supply chain management. Sreevidhya Shashi, Head-HR, ITOrizon Inc, Mr. Neelakantan, Director, R&D, ITOrizon, explained about the company, Tie-ups made with other companies, their role in supply chain management sector, why supply chain management is required by any company, SCM Benefits, logistics, reverse logistics, transportation, the role played by efficient algorithms for warehouse management processes. The overall visit was very beneficial for students. They got to know the practical working supply chain management in all stages.



Sreevidhya Shashi, Head-HR, ITOrizon Inc explained about the company

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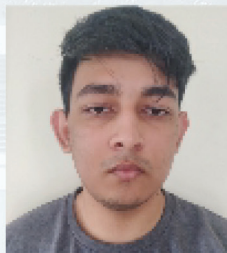


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