

# B G I E T

# NEWSLETTER

DEPARTMENT OF CSE

## VISION

To be a center of excellence in technical education, research and support services to produce comprehensively trained, innovative Computer Science Engineers of highest quality to contribute to the Nation's



## MISSION

M1. Create an environment of skill learning through faculty training, online learning, sound academic practices and research endeavors

M2. Provide opportunities to promote organizational and leadership skills in students through various extra-curricular and co-curricular events

M3. To uplift innovative research in Computer Science and Engineering to serve the needs of industry, Government and society.

M4. Providing social awareness and responsibility in students to serve the Nation and to protect environment.

# DEPARTMENT OF CSE NEWSLETTER

1	HOD's MESSAGE
2	SEMINAR
3	WORKSHOP
4	LAB SESSIONS
5	GUEST LECTURE

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# DEPARTMENT OF CSE NEWSLETTER

## FROM THE HOD'S DESK



Congratulations to the team for the upcoming edition of CSE Messenger! It is your hard work & dedication that this newsletter is holding the pride of the department & is raising the standards of excellence.

Dr. Arun Kumar Singh



# DEPARTMENT OF CSE NEWSLETTER

## FROM THE EDITOR'S DESK



The bond between a mentor and a disciple is really worked hard for this newsletter and I would like to appreciate everyone for their mind blowing efforts. I would like to request the readers to have a joy of reading this newsletter and request you to send me any queries or suggestions regarding this to my email. [yadvindersss@gmail.com](mailto:yadvindersss@gmail.com)

# DEPARTMENT OF CSE NEWSLETTER

## FROM THE STUDENT EDITOR'S

The content in this newsletter is in perfect blend of quality. It is an incredible platform for real technical, managerial & social insight. hence, in a perfect tune to convert a raw student into successful one.

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## Online SEMINAR ON E-Learning

Distance learning became the top 2020 educational technology trend overnight because of the rapid spread of COVID-19 and school closures. This led to a rising demand for online educational platforms. eLearning is education or training delivered electronically. It can be slide-based online activities, or it can also be an online course that helps a business train employees in necessary skills.



With eLearning, educational content is delivered to learners through computers, laptops, tablets, or smartphones. Not only saving time but opening many doors for interactive learning. Rather than being in a passive experience, learners can choose what they need to learn quickly and easily, wherever they are. They also learn through interacting directly with on-screen information through, for instance, dragging content from one place to the next. Moreover, the decision-making scenarios in eLearning also encourage learners to make their own choices on what they will learn next.

In eLearning, learners just soak in knowledge through reading or viewing content, it changes the way education is delivered. Also, many eLearning courses include animation, podcasts, and videos that create a multimodal and practical learning experience.

The last point is, although eLearning has been around for a long time, it is staying green and continuously developing. Educators are using the advantages of technology to make learning more effective. That's why more and more online and blended learning courses are produced nowadays.

Variety is the outstanding feature of online learning platforms. You can teach your students in real time (synchronous) via live stream or group meetings using Zoom or Microsoft Teams, or you can use recorded (asynchronous) methodologies with a wide range of media and digital functions available to enrich lessons. A good online learning platform can also be combined with a Learning Management System (LMS) so you can keep track of your students' learning outcomes.



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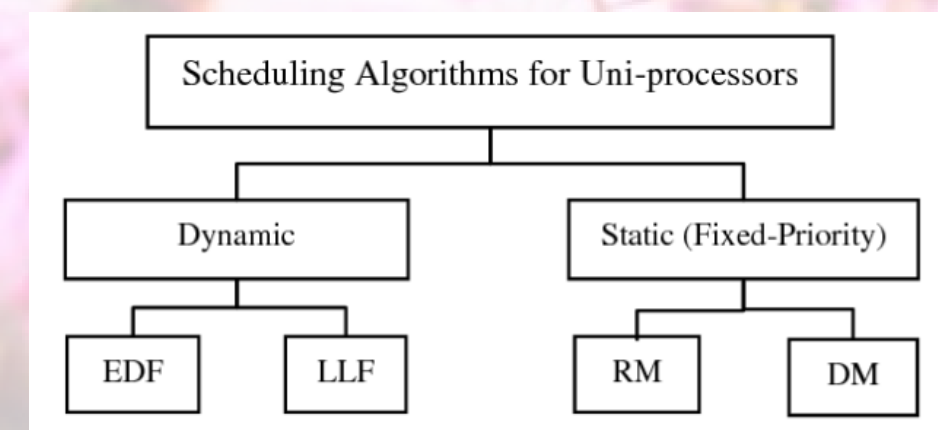
# DEPARTMENT OF CSE NEWSLETTER

## ONLINE workshop ON Real Time Scheduling: RM and EDF (27/04/2021) - ARN Infotel

**Earliest Deadline First (EDF)** is an optimal dynamic priority scheduling algorithm used in real-time systems. It can be used for both static and dynamic real-time scheduling.

EDF uses priorities to the jobs for scheduling. It assigns priorities to the task according to the absolute deadline. The task whose deadline is closest gets the highest priority. The priorities are assigned and changed in a dynamic fashion. EDF is very efficient as compared to other scheduling algorithms in real-time systems. It can make the CPU utilization to about 100% while still guaranteeing the deadlines of all the tasks.

**Rate monotonic scheduling** is a priority algorithm that belongs to the static priority scheduling category of Real Time Operating Systems. It is preemptive in nature. The priority is decided according to the cycle time of the processes that are involved. If the process has a small job duration, then it has the highest priority. Thus if a process with highest priority starts execution, it will preempt the other running processes. The priority of a process is inversely proportional to the period it will run for.





# DEPARTMENT OF CSE NEWSLETTER

**LAB SESSION ON NoSQL (15/03/2021)**

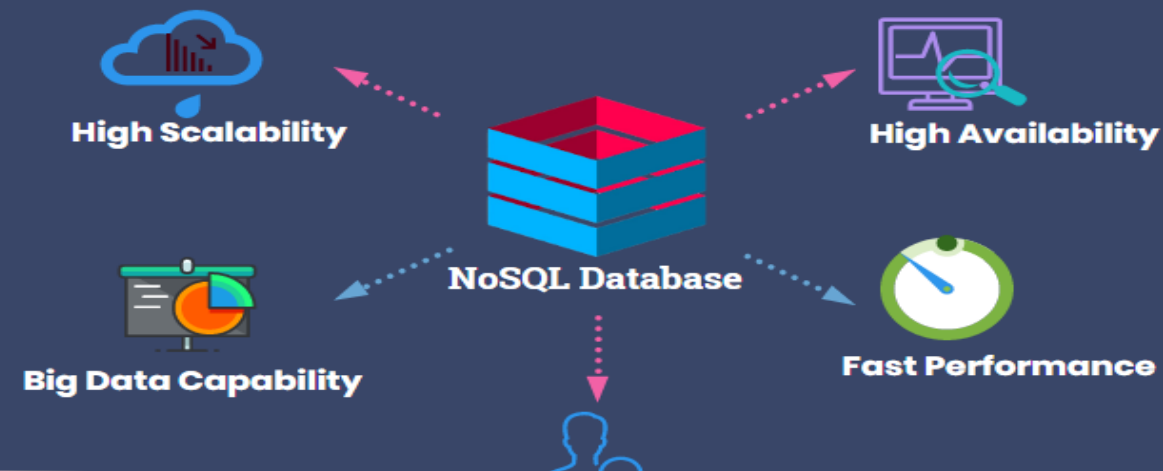
**- Allumez Infotech Pvt. Ltd**

NoSQL databases (not only SQL) are non-tabular databases and store data differently than relational tables. NoSQL databases come in a variety of types based on their data model. The main types are document, key-value, wide-column, and graph. They provide flexible schema and scale easily with large amounts of data and high user loads.

### NoSQL database features

- Flexible schemas
- Horizontal scaling
- Fast queries due to the data model
- Ease of use for developers

## What is NoSQL Database



NoSQL databases emerged in the late 2000s as the cost of storage dramatically decreased. Gone were the days of needing to create a complex, difficult-to-manage data model in order to avoid data duplication. Developers (rather than storage) were becoming the primary cost of software development, so NoSQL databases optimized for developer productivity.

# DEPARTMENT OF CSE NEWSLETTER

## HOLI CELEBRATION

BGIET Celebrated the Holi with the students from Nepal, Sudan, Bengal, Up, Kashmir and others at the campus. The Faculty and Staff of BGIET played HOLI with the students and wished them happiness, wellness and success in best of everything in their future. The entire campus reverberated with the eco of HAPPY HOLI as students wished one another for happiness joy and glee on this colorful festival as they ran after one another to splash “Gulaal” on each other. Smiling Faces with the hues of pink, red, purple, green, yellow and more made the campus more colourful. Our Students from other countries found it to be an entirely different experience playing with Holi, Rangoli making, decorating the campus with flowers and other arrangements of eatables. Dr. Guninderjeet Singh Jawandha, Chairman BGIET wished everyone happiness and colourful life forever. Dr. (Prof) Tanuja Srivastava, Campus Director distributed homemade sweets and wished them colours of compassion, happiness, kindness where ever they go in life.

**WISH YOU A HAPPY HOLI**



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# DEPARTMENT OF CSE NEWSLETTER

## PLACEMENT DRIVE



We are proud to share that our 26 Students of B.Tech, CSE, IT student selected by IT-ExpertUS. The renowned companies ITExpertUS conducted recruitment drive at Bhai Gurdas Institute of Engineering and Technology and selected 26 students. Students participated in the drive enthusiastically for placement drive at BGIET, there is an intensive focus on getting each and every student industry ready with more than 1500 recruiters visiting our campus every year BGIET is transforming the lives of its students into a successful future with continuous placement drives in the campus. The campus placement drive were open for students of B.Tech, CSE, IT Dr. Guninderjit Singh Jawandha, Chairman BGIET felicitated the selected students. BGIET testimonies the hard work and inno-vative thinking by working on the ultimate focus of providing the best placements. Dr. Suvreet Kaur Jawandha, M.D and Executive Member appreciated the hard work of stu-dents and said that sincere efforts deserve this success. All the Best for the future. Dr. (Prof.) Tanuja Srivastava, Director congratulated and motivated the students and staff that every day your feet hit the floor.

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**Online Guest Lecture on Pervasive**

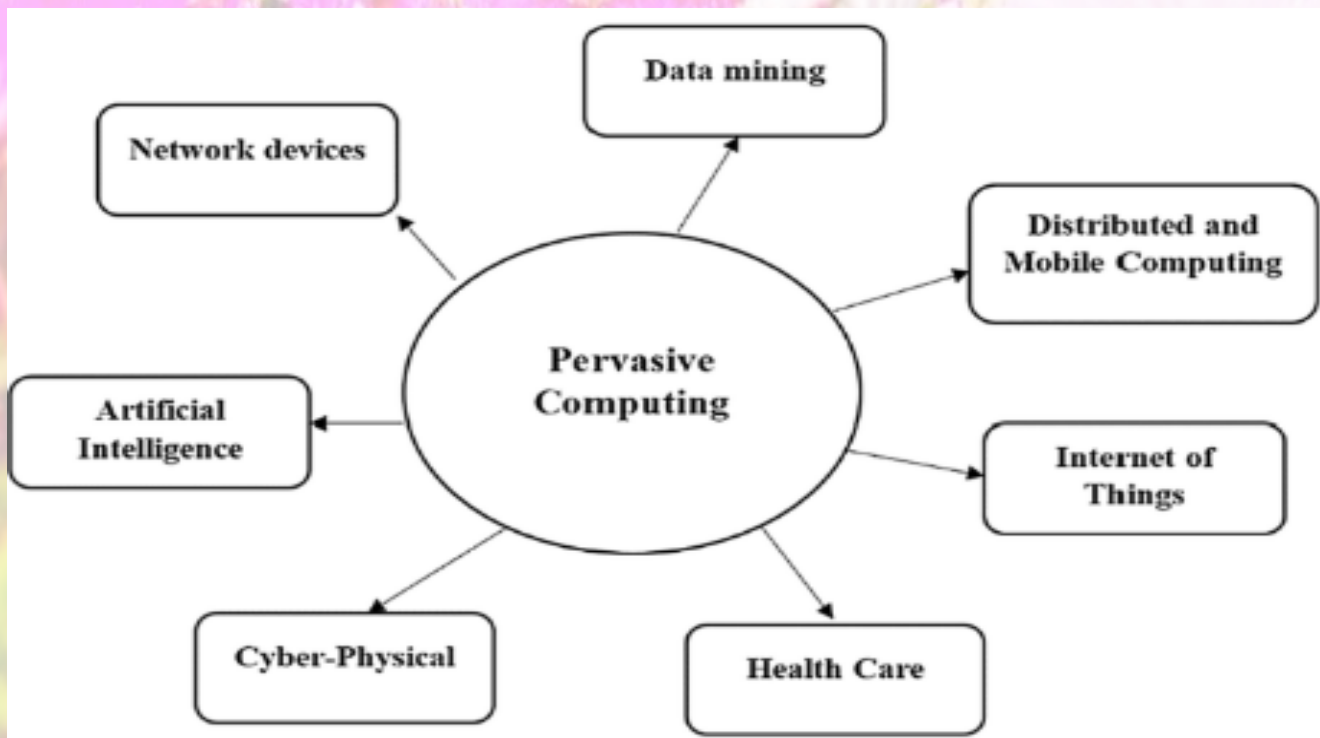
**(8/04/2021)**

**Er. Anupam**

Pervasive computing, which is also known as ubiquitous computing, is defined as the use of computerized technology through various devices in various settings around the clock. This means that most people now use different devices, such as smart phones and devices, to access, share, upload and post information via technology platforms and solutions.

Pervasive computing creates an unobtrusive environment with full and integrated Internet connectivity.

A combination of technologies is used to make pervasive computing possible, such as Internet capabilities, voice recognition, networking, artificial intelligence and wireless computing. Pervasive computing devices make day-to-day computing activities extremely easy to access. Pervasive computing also has a number of prospective applications, which range from home care and health, to geographical tracking and intelligent transport systems.



# DEPARTMENT OF CSE NEWSLETTER

## International Conference

BGIET HOSTS 9TH INTERNATIONAL CONFERENCE on 25,26 june 2021

With kind support of our worthy chairman, \*Dr. Guninderjit Singh Jawandha\* and under the able leadership of \*Dr. Tanuja Srivastava\*, Director, Bhai Gurdas Institute of Engineering and Technology, Sangrur,(CSE) has successfully conducted the Technical Session of \*9th International Conference on Advancements in Engineering and Technology ICAET 2021\* in the presence of eminent speaker and Expert \*Dr. Jitendra Chhabra\*, Professor, Computer Engineering, NIT Kurukshetra.



The poster for the 9th International Conference on Advancements in Engineering and Technology (ICAET - 2021) is displayed on a yellow background. At the top, it features logos for IEEE Photonics Society, IEEE, and the Bhai Gurdas Institute of Engineering and Technology. The text reads: "IEEE TECHNICALLY SPONSORED 9th INTERNATIONAL CONFERENCE ON ADVANCEMENTS IN ENGINEERING AND TECHNOLOGY (ICAET - 2021) June 25-26, 2021". Below this is an image of a hand holding a laptop displaying a globe. The organizing institution is "Bhai Gurdas Institute of Engineering & Technology, Sangrur-Patiala Road, Sangrur - 148001 (Punjab), India, www.bgiel.ac.in". At the bottom, it lists indexing services: SCOPUS, Springer, Google, PennState, and ProQuest.

