



**MALNAD COLLEGE OF ENGINEERING**

An Autonomous Institution affiliated to VTU , Belagavi



**DEPARTMENT OF INFORMATION SCIENCE  
AND ENGINEERING**

# Newsletter

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**ACADEMIC YEAR 2023-2024**

**JANUARY TO JUNE**

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## **EDITORIAL BOARD:**

**Ms. Shruthi DV**  
Assistant Professor

**Ms. Sindhu K S**  
Assistant Professor

**ADVAITH HN**  
7th Sem

# VISION OF THE DEPARTMENT

The department will be a premier center focusing on knowledge discrimination and generation to address the emerging needs of information technology in diverse fields.

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# MISSION OF THE DEPARTMENT

1. To make students competent to contribute towards the development of the IT field.
2. Promote learning and practice of the latest tools and technologies among students and prepare them for diverse career options
3. Collaborate with industry and institutes of higher learning for Research and Development, innovations and continuing education.
4. Developing capacity of teachers in terms of their teaching and research abilities.
5. Develop software applications to solve engineering and societal problems

# PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

Graduates will:

**PEO1:** be successful professionals in the IT industry with good design, coding, and testing skills, capable of assimilating new information and solving new problems.

**PEO2:** communicate proficiently and collaborate successfully with peers, colleagues and organizations.

**PEO3:** be ethical and responsible members of the computing profession and society.

**PEO4:** acquire necessary skills for research, higher studies, entrepreneurship, and continued learning to adopt and create new applications.

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## PROGRAM SPECIFIC OBJECTIVES (PSOs)

**PSO1:** Design and develop efficient information systems for organizational needs.

**PSO2:** Ability to adopt software engineering principles and work with various standards of computing systems.

# FEATURED TECH

## Quantum Computing Breakthroughs:

Quantum computing is making headlines with breakthroughs that promise to revolutionize computing power and solve complex problems faster than traditional computers. Companies and research institutions are racing to develop practical quantum applications



## Robotics and the Metaverse:

The hospitality industry is seeing an increase in the use of service robots and augmented reality (AR). These technologies are being used to enhance customer experiences and address labor shortages. The metaverse is also gaining traction, with applications in various industries offering immersive and interactive experiences

**Sustainability and Green Tech:** There is a growing focus on sustainability in the tech industry, with companies developing green technologies to reduce environmental impact. Innovations include energy-efficient data centers, eco-friendly processes, and sustainable product designs



**SpaceX scales up Starfactory, aiming to build a starship a day** SpaceX's Starfactory started construction back in February. The upgrade gives Starbase an extra 100,000 square feet of factory floor to help SpaceX reach its ambitious goal of producing one Starship a day. SpaceX intends to start building Starship Version 2 at the new Starfactory. Starship Version 2 is said to hold more propellant, have improved reliability and a lower dry weight, and feature aerodynamic changes. There are currently over 1,800 full-time employees at Starbase.

## Siri is reborn in iOS 18 : Everything Apple's voice assistant is able to do:

Details about Siri's new functionalities as well as prompts that Apple used to test the software have been leaked. Many of the prompts used contain natural language, often detailing descriptions of what the user is trying to do along with arguably superfluous details. Several core apps, including Notes, Photos, Safari, and Mail, will be getting enhanced Siri features in iOS 18. This article looks at all of the enhanced Siri features coming in iOS 18 and other updates that can be expected in iOS 18 and macOS 15.

# FEATURED TECH

## HAPT X GLOVES G1: REVOLUTIONIZING VR WITH TOUCH SENSATIONS

AGHAR USMAN K T - 4MC21IS006



In 2024, the HaptX Gloves G1 surprised tech enthusiasts with its ability to bring the sense of touch into virtual reality. These gloves use advanced haptic feedback technology to simulate realistic pressure and texture, making virtual objects feel tangible. This unexpected gadget takes VR experiences to the next level, offering users a more immersive interaction, ideal for gaming, training, or remote collaboration. The gloves could transform industries by adding a tactile dimension to digital environments, bridging the gap between the physical and virtual worlds.

As more industries adopt VR for training simulations, education, or design, the HaptX Gloves G1 could significantly enhance how professionals interact with virtual objects. Imagine surgeons practicing procedures or architects reviewing 3D models with tactile feedback, adding a whole new layer of realism. The potential applications are vast, and the gloves could become an essential tool for anyone working in virtual environments.

# FRESH INK

## OSMO AI: THE FUTURE OF DIGITAL SCENTS

AGHAR USMAN K T - 4MC21IS006

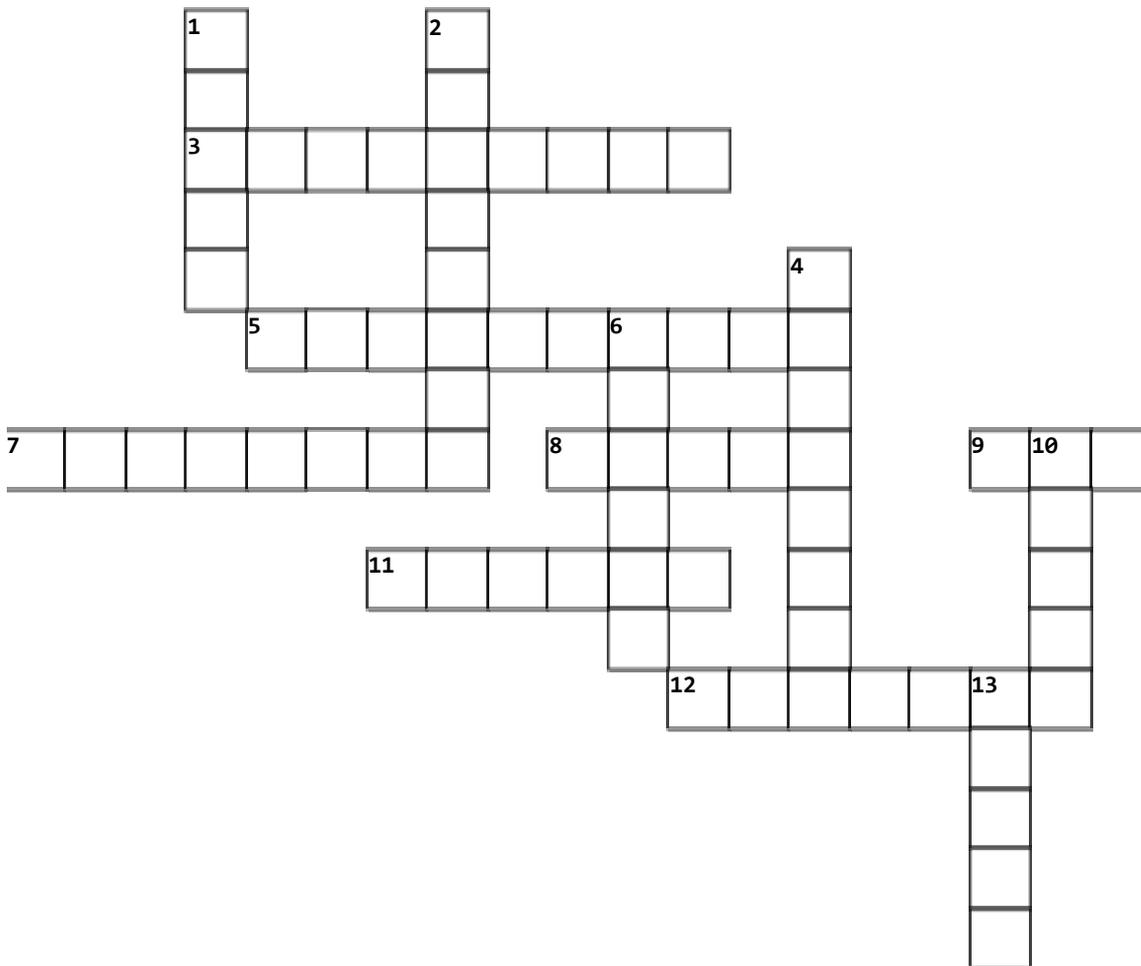


Imagine being able to experience scents through your phone or computer screen! That's what Osmo AI is working on, aiming to create a digital system that can identify, classify, and recreate aromas without any human input. Normally, scent recognition relies on humans, which makes it subjective. Osmo AI's approach removes this subjectivity by using AI and chemical sensors.

Here's how it works: Osmo AI's system uses sensors to analyze the chemical makeup of different scents, creating unique "scent profiles" for each one. These profiles are saved in a digital library, sort of like a music playlist but for smells. Their machine learning algorithms then organize and classify these profiles, allowing the system to recreate scents without needing human descriptions.

When a specific scent is needed, Osmo AI's device mixes precise chemicals to produce that aroma. This automated method could be used in online shopping (like "smelling" perfumes before buying), VR experiences (to add realistic scents), and even healthcare (for therapeutic uses). By digitizing aromas, Osmo AI is exploring new ways for us to engage with digital media using our sense of smell.

# CROSSWORD



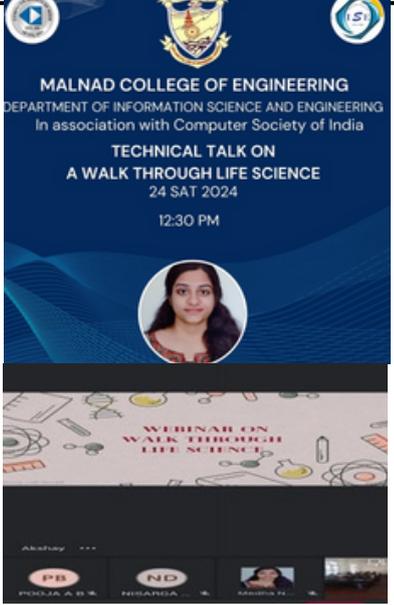
## Across

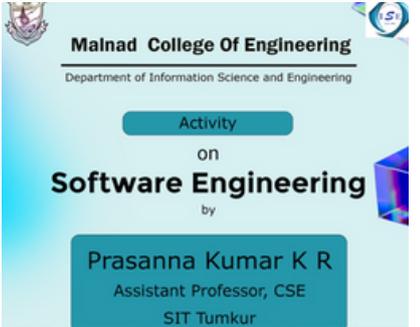
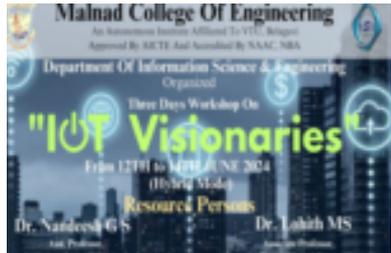
- 3.** A step-by-step procedure for solving a problem or accomplishing some end.
- 5.** A programming language commonly used to create interactive effects within web browsers.
- 7.** A set of rules governing the exchange or transmission of data between devices.
- 8.** A linear structure which follows a particular order in which the operations are performed
- 9.** A language used in programming and designed for managing data held in a relational database management system.
- 11.** The central part of an operating system, managing system resources and communication between hardware and software.
- 12.** The delay before a transfer of data begins following an instruction for its transfer.

## Down

- 1.** A linear data structure which follows a particular order in which the operations are performed.
- 2.** A network security system that monitors and controls incoming and outgoing network traffic.
- 4.** A system for connecting computers within a local area network (LAN).
- 6.** A device that forwards data packets between computer networks.
- 10.** A request for information from a database.
- 13.** A component that stores data so future requests for that data can be served faster.

# ASSOCIATION ACTIVITIES

Date	Title	Resource Person	Photos
03/02/2024	Devops (Webinar)	Mr. Akshay Bharadwaj K S, Senior Engineer, Tata Consultancy Services, Bengaluru	
24/02/2024	Technical Talk on Walk through life Sciences	Ms Medha Narayan Programmer Analyst Cognizant Technology Solution	
28/02/2024 to 01/03/2024	3days Workshop on IoT and Its Applications	Mr. Rajashekara Team Leader Synopsys India Pvt. Ltd.	

<p>04/03/2024 To 09/03/2024</p>	<p>Value added course on Linux administration and Commands”</p>	<p>Mr. Sudarshan G. K. Mr. Krishna Swaroop A Mrs. Priyanka H. L.</p>	 
<p>04/03/2024 To 09/03/2024</p>	<p>Value added course on Linux administration and Commands”</p>	<p>Mrs.Tasmiya Anjum H.N.</p>	 
<p>20/05/2024</p>	<p>Activity on Software Engineering</p>	<p>Mr.Prasanna Kumar K R Assistant Professor, SIT Tumkur</p>	 
<p>12/06/2024 to 14/06/2024</p>	<p>IoT Visionaries</p>	<p>Dr. Nandeesh G S Asst. Professor, KIT Tiptur  Dr. Lohith M S Assoc. Professor, KIT Tiptur</p>	 

# PLACEMENT DETAILS

USN	Name	Company Name
4MC20IS009	Arjun H L	Toshiba Software
4MC20IS017	Hruthik G R	Tata Elxsi
4MC20IS025	Lahari B S	Tata Elxsi
4MC20IS026	Mohammed Abubakar	Tata Elxsi
4MC20IS029	Namitha D	Accenture
4MC20IS034	P S Amrutha Lakshmi	Tata Elxsi
4MC20IS040	Rakshitha H A	Mercedes-Benz
4MC20IS052	Sudarshan M G	Tata Elxsi
4MC20IS062	Yashwanth R	Toshiba Software
4MC20IS052	Sudarshan M G	Toshiba Software

# INTERNSHIP DETAILS

Name	USN	Company Name	Duration	Stipend
Akash GN	4MC21IS004	Inventron Technologies	1 Month	3000
Charan C S	4MC21IS011	Toshiba	6 Months	40000
Krithi KN	4MC21IS024	Mercedes-Benz	5 Months	30000
Rakshitha HA	4MC21IS040	Mercedes-Benz	5 Months	30000
Sudarshan MG	4MC21IS052	Toshiba	5 Months	40000

# FACULTY ACHIEVEMENTS

FACULTY NAME	ACHEIVEMENTS/TALKS	PLACE
Dr. ANANDA BABU J.	<ul style="list-style-type: none"><li>• External Member for OBS for the period 2024-26 to review the PG curriculum for the MCAR, MSIT and MSDA programmes (12/02/24)</li><li>• External BOE Member (5/01/24)</li><li>• Certificate of Appreciation for role as SPOC of the SWAYAM NPTEL (2024)</li><li>• Certificate of Appreciation for mentoring a team that participated in Telecombat : International Level Project Contest (2024)</li><li>• Session Chair in IEEE international conference on Data Science and network security on 19th -20th July 2024</li></ul>	Garden city University,Bangalore  Vidyavardhaka College of Engineering,Mysuru  BMSCE , Bangalore(Organizer)  KIT , Tiptur
Dr. NANDITHA B. R.	<ul style="list-style-type: none"><li>• NPTEL Certification in the course "Introduction to Automata, Languages &amp; Computation" (83%)</li><li>• NPTEL Certification in the course "Psychology of Stress, Health and Well-Being" (90%)</li></ul>	

# FACULTY AS RESOURCE PERSON

FACULTY NAME	ACHEIVEMENTS/TALKS
Dr. ANANDA BABU J.	Resource Person for "Data Structure Using C" at St. Joseph's College , Hunsur (28/03/24 to 30/03/24)
Dr. NANDITHA B. R.	Expert Talk on "THE SQL PROGRAMMING ESSENTIAL FOR BEGINNERS" at Navkis College of Engineering, Hassan 22/06/24

## STUDENT ACHIEVEMENTS IN EXTRACURRICULAR ACTIVITIES

Name	USN	Prize	Event
RAHUL .D	4MC20IS037	2nd Place (Division)	FOOT BALL
GAGAN H D	4MC22IS405	2nd Place (Division)	BASKET BALL
SUHAS B R	MCE23IS052M33	2nd Place (Division)	BASKET BALL
KARAN P GOWDA	4MC22IS053	1st Place in (Division) & 1st Place in state level	NETBALL
SURYA H.D	4MC22IS116	1st place in (Division) & 1st Place in State Level	HAND BALL
THARUN .K	4MC22IS118	1st place in (Division) & 1st Place in State Level	HAND BALL
RAKESH K N	4MC22IS092	1st Place in (Division) )& 2nd Runners up in State level	VOLLEY BALL
KIRAN KUMAR D R	4MC22IS057	1st Place in (Division) )& 2nd Runners up in State level	VOLLEY BALL

# KSCST APPROVED PROJECTS

PROJECT TITLE	NAME OF THE GUIDE(S)	NAME OF STUDENTS
SOLAR POWERED MULTIPURPOSE AUTONOMOUS AGRICULTURAL ROBOT	Mr. Sudarshan G. K. Mr. Nithin K.	Ms. Nisarga M. P. Ms. Gowthami D. M. Ms. Ananya J. R. Ms. Keerthana H. B.
AN AI ENABLED SYSTEM TO DETECT POTATO DISEASE	Dr. Chandrika J.	Ms. Lahari B. S. Mr. Mohith H. A. Mr. Nithish Sagar D. Mr. Rishab Nandan B. R.
SIGNSPEAK: BRIDGING COMMUNICATION THROUGH DEEP LEARNING	Mrs. Shruthi D. V.	Mr. Sandeepa T. N. Mr. Sathvik Rao Mr. Keerthan V. Mr. Anirudha R.