







- Create Without Limits -

ABSTRACT BOOK





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## *Foreword Rector's Message*

Assalamualaikum and warm greetings,

It is with great excitement that I welcome you to MINDAREKA 2025, a celebration of creativity, innovation, and the power of ideas. This year's theme, "Create Without Limits," is a call to embrace imagination, push beyond boundaries, and explore new possibilities in every field. Creativity is at the heart of transformation, whether in science, technology, the arts, or social innovation. In a world that is constantly evolving, the ability to think differently, challenge norms, and break new ground has never been more important. MINDAREKA - Create Without Limits provides a platform for visionaries, problem-solvers, and dreamers to showcase their ideas, collaborate, and spark meaningful change. As educators and lifelong learners, we must cultivate an environment where curiosity thrives, unconventional ideas are welcomed, and challenges become stepping stones to progress. This event reflects our collective commitment to pushing the boundaries of knowledge and fostering an interdisciplinary culture of learning. When creativity meets determination, there are no limits to what we can achieve. I extend my heartfelt appreciation to all participants, mentors, and organizers who have brought MINDAREKA - Create Without Limits to life. Your passion and dedication embody the true spirit of innovation that drives our institution forward.

Let's embrace the "Create Without Limits" mindset, inspiring each other to think boldly and make an impact. May this event ignite fresh ideas, lasting collaborations, and groundbreaking discoveries.

Wishing everyone a fulfilling and inspiring experience.

PROF DR ROSHIMA SAID  
ACTING RECTOR  
UNIVERSITI TEKNOLOGI MARA  
KEDAH BRANCH





## *Head of College's Message*

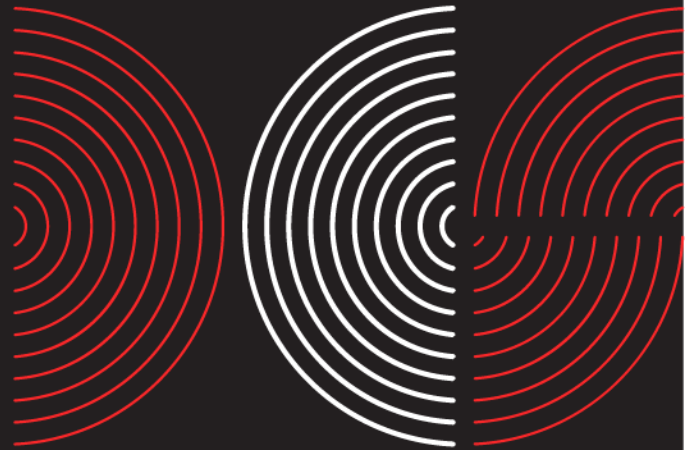
It fills me with immense joy to witness the extraordinary dedication of both the organizing team and students in ensuring the resounding success of this event. Our concern for the future of our students, particularly in navigating the complexities of the new normal, drives us to create a more vibrant and promising world for them. Thus, the significance of MINDAREKA - Create Without Limits, orchestrated by our College of Creative Arts, UITM Kedah Branch, cannot be overstated as it epitomizes our noble aspiration.

A heartfelt expression of gratitude is owed to our tireless organizing committee whose unwavering commitment, boundless energy, and meticulous attention to detail have been instrumental in realizing the objectives of this event. MINDAREKA - Create Without Limits serves as a pivotal platform for all students, particularly those in their final year, to showcase their talents and skills. This platform not only fosters self-expression but also lays the groundwork for students to navigate their professional paths in the future.

I extend my sincerest congratulations and appreciation to the organizing committee, faculty staff, students, and all stakeholders whose collective efforts have ensured the resounding success and cherished memories of this event. To the students, your dedication and hard work are commendable, and as you embark on this new chapter in life, I wish you the very best. May you embrace the opportunities that lie ahead with courage and determination. Best of luck to each of you.

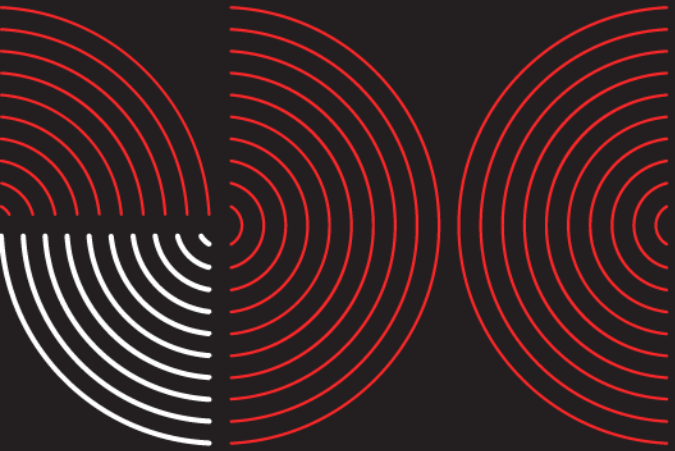
Dr. Nurul 'Ayn Ahmad Sayuti  
Head of College of Creative Arts,  
UITM Kedah Branch





- Create Without Limits -





# INDUSTRIAL DESIGN

## OCEAN SENTINEL

### Design Advisor :

Mr. Muhamad Aiman Afiq Bin Mohd Noor

### Abstract

"Ocean Sentinel: Exploring the Depths, Protecting the Future."

This final portfolio project explores innovative transport design for industrial biotechnology for conduct research of marine life. "Ocean Sentinel" conceptual design for a mini submarine used in research aims to create an advanced, efficient, and versatile underwater research tool. The submarine is designed with an aerodynamic shape that minimizes friction with water, ensuring high speed and energy efficiency while conducting research missions in deep-sea environments.

Made from lightweight and durable materials like carbon fiber composites, this mini submarine is built to withstand the extreme pressure of deep-sea environments with maximum strength. Its propulsion system utilizes green technology, such as high-powered batteries or hydrogen fuel cells, enabling longer and more eco-friendly operations while maintaining high mobility in confined spaces. Control and monitoring technologies such as touch screens and advanced sonar sensors will be used to assist researchers in collecting detailed data on marine ecosystems or underwater geological formations. The submarine is also equipped with a communication system to transmit data directly to a control center on the surface, as well as an automatic safety system to prevent any risks during research operations.

The name "Ocean Sentinel" for the research mini submarine symbolizes its role as a guardian and overseer of the sea, always vigilant in the depths of the ocean. "Sentinel" represents the submarine's function as a protector and monitor of the marine environment, gathering essential data on marine ecosystems and ensuring the well-being of the ocean is preserved. Meanwhile, "Ocean" refers to the vast underwater world full of mysteries and wonders waiting to be explored. The "Ocean Sentinel" not only investigates unexplored areas but also plays a crucial role in monitoring the health of the sea, detecting pollution, and assisting in efforts to conserve marine biodiversity.





## **COMMITTEE OF MINDAREKA 2025**

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Prof. Dr. Roshima Haji Said

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### **Timb. Pengarah Program**

En Mohamat Najib Mat Noor

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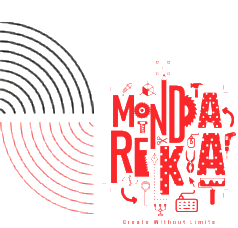
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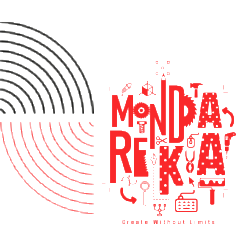
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# DESIGN SHOW 2025

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UNIVERSITI TEKNOLOGI MARA KEDAH BRANCH