

School of Agriculture and Science

SEMINAR

Hosted by: Discipline of Computer Science

Dr Prasad Vinayak Patil

Assistant Professor

Department of Mechanical Engineering
Birla Institute of Technology and Science
(BITS Pilani), Goa Campus, India

TOPIC

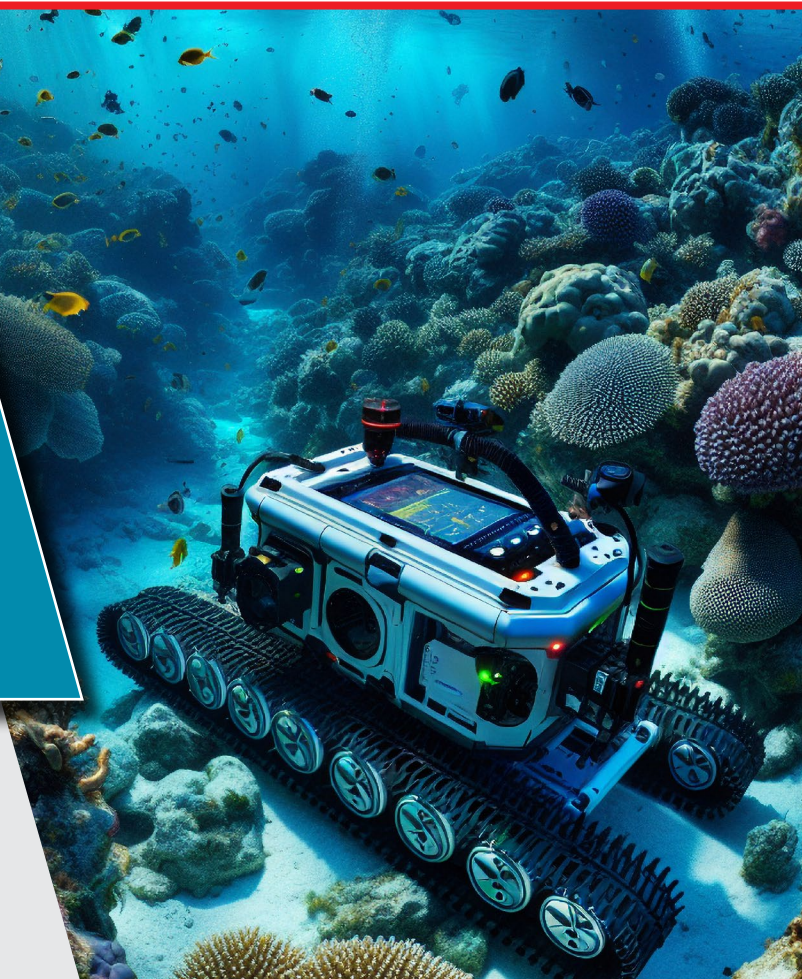
MARINE ROBOTICS:

*Advancing Intelligent and Autonomous Systems
for Ocean Exploration and Sustainability*

 **28 OCTOBER** 2026
Wednesday

 **14h00 - 15h00**

 **Elephant Room, M-Block,
Westville Campus**



ABOUT THE SEMINAR: Marine robotics is transforming how we explore, monitor and protect our oceans. This seminar will introduce advances in autonomous underwater and surface robotic systems, highlighting the integration of artificial intelligence, machine learning, intelligent navigation and control technologies.

Drawing on contemporary research and applications, the session will explore how intelligent marine robots can support ocean exploration, environmental monitoring, pollution detection and sustainable maritime operations.

The seminar will also provide an opportunity to discuss interdisciplinary research collaboration in robotics, AI/ML, autonomous systems and emerging intelligent technologies.

ABOUT THE SPEAKER: Dr Prasad Vinayak Patil is an Assistant Professor (Grade I) in the Department of Mechanical Engineering at BITS Pilani, Goa Campus, India. He holds a PhD in Underwater Robotics from the Indian Institute of Technology Kharagpur.

His research expertise spans marine robotics, autonomous underwater vehicles, ship dynamics, intelligent navigation, artificial intelligence and control systems. His work focuses on the design, modelling, optimisation and control of autonomous robotic systems, including applications in ocean monitoring and environmental sustainability.

Dr Patil is actively involved in international research collaborations and supervises doctoral research in underwater robotics, intelligent marine vessels and AI-driven environmental monitoring.



Click here for Faculty Profile:

All academics, postgraduate researchers and students with an interest in robotics, artificial intelligence, machine learning and intelligent systems are warmly invited to attend.

CLICK HERE to **RSVP**, no later than **Monday 26th October 2026**

CONTACT PERSON: Upasana Singh – singhup@ukzn.ac.za

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