A Report on
"EXPERT TALK - 2024"
(21st February 2024, Tuesday)

GUide:
Gandhinagar University managed by Platinum Foundation inaugurated its speaker's forum titled "GUide" on September 5th 2023 with an initiative aimed at bringing in prominent National and International professionals to facilitate insightful discussion, share knowledge and foster intellectual growth amongst students of various disciplines.

Event Overview:
Gandhinagar University had a privilege of hosting an "EXPERT LECTURE" on 21st February, 2024 under the **GUide lecture series** at its own green lush campus as a part of shaping education. The session on "Empower Minds Through Robotics: Learning and Development" was delivered by Dr. Iraklis Varlamis, Professor at Harokopio University of Athens, Greece and Christos Chronis, Research Associate, Phd Candidate at Harokopio University of Athens, Greece.

Event Objective:
The objective of this session is to provide participants insights and guidance on how robotics can be utilized as a powerful tool for enhancing learning and development in individuals, especially in the context of education. The talk aims to address various aspects like highlight the importance of Robotics in learning & education, illustrate how robotics education bridges various disciplines, fostering interdisciplinary learning, how robotics is applied in industries and sparking interest in real-world applications.

Program overview:
The event was inaugurated in the seminar hall followed by brief introduction of the honored guests, Dr. Iraklis Varlamis and Christos Chronis by Mr. Shehrevar Davierwala. The event was attended by all the esteem guest, Head of Institutions and Head of the Departments. Around 180 interested students had attended the session of GUide lecture series.

Dr. Iraklis Varlamis discussed the fundamental of robotics with the help of DIY robot "FOSSBot" which is designed for education purpose using an open technology. He has covered essential parameter like weight, cost, repairable and customizable which should be consider during the robot assembly and explained the role of actuators, sensors, controllers, power sources, materials, and mechanical structures in robot design. He has showcased some examples of robots for various industries applications and everyday life. He has discussed

different types of sensors, such as cameras, infrared sensors, and ultrasonic sensors and explained the role of sensors in enabling robots to perceive their environment and how robots use sensor data for navigation and interaction. Dr. Iraklis Varlamis explored the basics of robot programming, including programming languages and environments with practical demonstrations or simulations to illustrate programming concepts.Session was followed by question-answers. The subject matter was presented in such a straightforward manner that even undergraduate students could generate questions, and their queries were effectively addressed by experts.

The session was fruitfully accomplished with Vote of Thanks by Dr Nimesh Gajjar, Head of Mechanical Engineering Department, Gandhinagar University.

Programme Outcome:

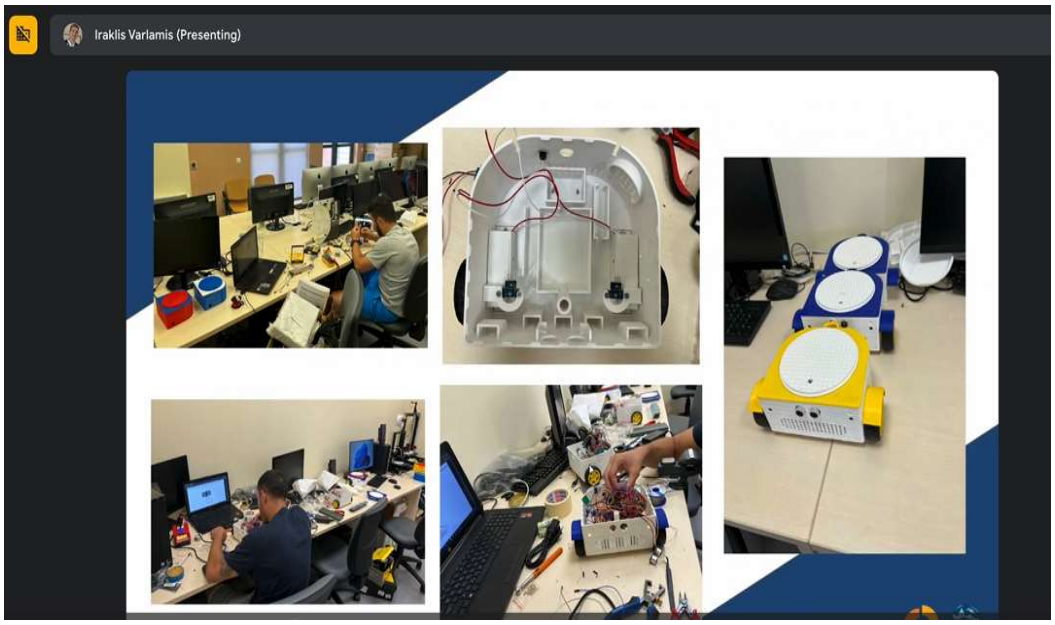
After participating this GUide event on "Empower Minds Through Robotics: Learning and Development", students are able to enhance their understanding of robotics concepts, empower their problem-solving capabilities specific to robotics challenges, know on the latest trends, technologies, and advancements in the field of robotics. The session inspires participants to pursue further study, research, or personal projects in the field of robotics

Photo Gallery:

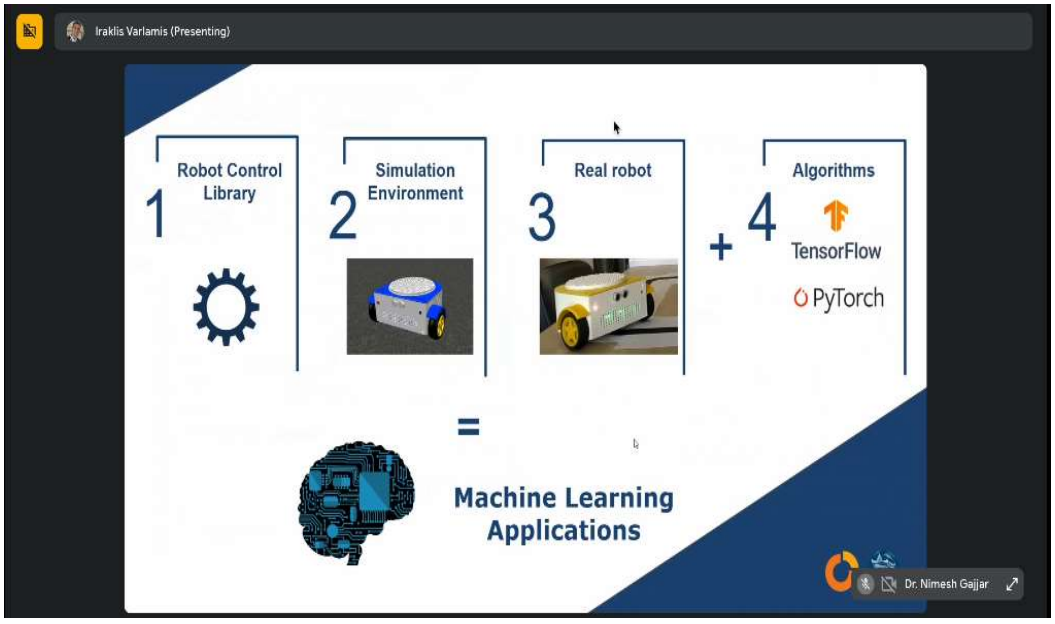
Dr. Iraklis Varlamis (Professor) and Christos Chronis (Research Associate, Phd Candidate) at Harokopio University of Athens, Greece during inauguration of the session

Students and staff members attending the session of Dr. Iraklis Varlamis

Dr. Iraklis Varlamis explaining fundamental of robotics with the help of DIY robot "FOSSBot"



Dr. Iraklis Varlamis and Christos Chronis showing their research laboratory



Dr. Iraklis Varlamis explaining the concept of Machine Learning through Robotics

Audience Interaction during Q & A session

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