

Goa University

Electronics Discipline, School Of Physical & Applied Sciences

Report on Five Day Workshop titled "Hands-On Robotics Programming"

Title of the event	Hands-On Robotics Programming		
Date and time	24 – 28 th June 2024; 9.30am to 5.30pm		
Mode	Offline		
Department/School/Directorate/ Section	Electronics Programme, School Of Physical And Applied Sciences (SPAS), Goa University, in association with Goa State Research Foundation		
Participants (Total)	20		
Participants (Goa University)	Nil		
Participants (External)	Students: 20		
Resource Person/s	 Prof. Gourish M. Naik, Retired Professor (HAG) Electronics Prof. Rajendra S. Gad, Professor of Electronics, SPAS Prof. Jivan S. Parab, Professor of Electronics, SPAS Dr. Narayan T. Veterekar, Assistant Professor of Electronics, SPAS Dr. Marlon D. Sequeira, Assistant Professor of Electronics, SPAS Dr. Aniketh A. Gaonkar, Assistant Professor of Electronics, SPAS 		
Faculty attended	Nil		
Students attended	20		
The objectives / description of the activity (50 words)	 To develop a solid understanding of fundamental robotics concepts, including kinematics and applications. Participants should gain proficiency in C programming languages commonly used in robotics. Acquire the skills to write code for controlling robot movements, sensors, and actuators. To implement algorithms for tasks like obstacle avoidance, path planning, and navigation. Hands-On Experience to control Robotic Arm. Developing an Home surveillance robotic 		

	system using IoT.		
Copy of Flyer of the event uploaded on the Goa University Website	<image/> <section-header> <image/></section-header>		
URL of the event	-		
Social Media posts and links: Ni			
Photos (5)	Enclosed		
Feedback	The overall feedback from the participants was good.		
Benefit/Key outcome of the event in terms of learning/skills/knowledge	 Participants were introduced to the world of Robotics, its history, structures, Kinematics and ROS They were thrilled by knowing the detailed robotic applications in the area of Manufacturing industry, defense, rehabilitation, medical, UAV, Drone, Humanoid Robots, Underwater robot etc. They were also introduced to Embedded C programming where they could learn basic C programming, serial, timer, interrupts and peripherals along with hands-on. Further they had hands-on on Arduino Programming, Interfacing peripherals etc. Day 2: Participants had a detailed lecture on Instrumentation, sensors and actuators, where they were explained from the basics of instrumentation standards up to the working of various sensors and actuators, such as commonly used strain gauge, proximity, distance sensors, vision sensors, flame sensors, gas sensors, smoke sensors, stepper, DC servo, brushless motors etc. The learnt theory about the various sensors was demonstrated and implemented by the participants in the hands-on session. Participants had an opportunity to study the output by interfacing the various types of sensors mentioned above with the controller. Further they could implement some modifications as per their understanding. 		

•	As a hands-on robotics application, the participants were provided with a Arduino based robot-car kit. This exercise involved the manual assembly of the robot- car including motors, tyers, sensor modules and all other peripherals
	other peripherals.
•	The interfacing procedure / codes for different sensor modules, motors and other peripherals of the assembled robot-car was explained to the participants and the same was implemented by them. Further different applications like Line follower Robot, obstacle detection, counting and avoidance, etc. were programmed and implemented by the participants using the assembled robot-car.
Day 4:	
•	Image processing being one of the important components for robotic vision, the basics of image processing, the filtering techniques and CNN was covered for the participants. Further ESP32 based camera interfacing application was explained and implemented by the participants. The bands-on sessions for assembling and
•	Programming the 6DOF robotic arm were held for the participants. Where they were provided with the parts of robotic arm and different motors to be used for assembly. Post assembly they could program the robotic arm for various moments and gripper application
Day 5	vanous moments and gripper application.
•	on the last day of the workshop participants learnt about basics of IoT and IoT platforms. IoT configuration steps and implementation using ThingSpeak.
•	Home surveillance application was developed using sensors they have studied earlier.

Dr. Aniketh Gaonkar Coordinator Asst. Professor. SPAS

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Prof. Jivan S. Parab Coordinator Vice-Dean (Academic), SPAS

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Prof. Ramesh . V. Pai Dean, SPAS



Date: 01 /07/2024

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1. Flyer

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	About the Goa University	ORGANISING COMMITTEE
	Goa University was established under the Goa Univer Act of 1984 (Act No. 7 of 1984) and commer operations on 1 June 1985. The University took over enhanced role of Centre of Post-Graduate Instruction	rsity ced Prof. Ramesh . V. Pai the Dean, SPAS and
GOA UNIVERSITY	Research (CPIR) which was set after the liberation Goa by India in December 1961, by the Universit Bombay (now Mumbai), in June 1962. Since 1985 University offers graduate and postgraduate studies research programmes.	and for COORDINATOR Goa and Prof. Jivan S. Parab, Professor of Electronics, SPAS
	About the SPAS The School of Physical and Applied Sciences is a re	DEPUTY COORDINATOR
SCHOOL OF PHYSICALAND APPLIED SCIENCES ELECTRONICS PROGRAMME	of the amalgamation of three correlated departm which belonged to the erstwhile Faculty of Nat Sciences. Individually, the departments have a long clorious part. Downtment of Physics and the Department	and Assistant Professor, SPAS
In Association with	of Mathematics have served local students by provi them with quality higher education in two of the ol fundamental sciences for more than four deca	dest Ase RESOURCE PERSON
GOA STATE RESEARCH	Department of Electronics, on the other hand, established in 2010. This School focuses on develo strong teaching and research programmes in Physical	was ping and Retired Professor (HAG) Electronics
FOUNDATION	Applied Sciences.	
Organizes Summer School On	Important Information Time: 9:30 am to 5:30 pm	Prof. Rajendra S. Gad Professor of Electronics, SPAS
	Target Audience: UG Students	Prof. Jivan S. Parab Professor of Electronics, SPAS
"Hands on Robotics Programming"	Registration Fee: Free Number of 25 (First Come First Sen Participants: 25	ve) Dr. Narayan T. Veterekar Assistant Professor of Electronics, SPAS
	Venue: Seminar Hall, Electronic Building, SPAS	Dr. Marlon D. Sequeira Assistant Professor of Electronics, SPAS
From 24 – 28 th June 2024	Mode of Conduct: Offline Registration Link https://forms.gle/5cQK 9mTtooSF48	Dr. Aniketh A. Gaonkar Assistant Professor of Electronics, SPAS

2. Copy of Registration & Attendance sheet



GOA UNIVERSITY Electronics Programme, School of Physical And Applied Sciences

> In Association with Goa State Research Foundation

Organizes Summer School On

"Hands on Robotics Programming" From 24 – 28" June 2024

Registration

Sr. No	College	Name	Class & Specialisation	Sign
1	Government College of Arts, Science & Commerce, Quepem	- Martine	-	
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26	Government College of Arts, Science & Commerce, Khandola	Divya P. Umerye	FTBSC(Ele)	muye
27	Goa allege of Engineering	Amey Nait	MECSE	Aguna
28	PES RSN college of Arts and sci	Sairaj Desai	TYBSC Physics	Steart
29	St. Xariers College	Ethan Fernandes	TYBSC (Elec)	el
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In Association with Goa State Research Foundation



Organizes Summer School On "Hands on Robotics Programming" From 24 – 28th June 2024

Attendance (Day 1 - 24/06/2024)

Sr. No	College	Name	Morning	Afternoon
1	Government College of Arts, Science & Commerce, Quepem			4
2	Government College of Arts. Science & Commerce, Quepem	-	-	-
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14	Carmel College Of Arts, Science And Commerce For Women, Nuvem	Nadia Coelho	Josethe	Doelho
15	Carmel College Of Arts, Science And Commerce For Women, Nuvem	Aishwarya Kelagerimath	A	A
16	Government College of Arts. Science & Commerce, Sanquelim	Pundalik S. Shirodkar	BrobalilL.	Brelalik
17	Government College of Arts, Science & Commerce, Sanquelim	Saish Gawade	Eist.	Jay

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18	Government College of Arts, Science & Commerce, Sanquelim	Nityanand Parab	Bal	ppal
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GOA UNIVERSITY

Electronics Programme, School of Physical And Applied Sciences

In Association with Goa State Research Foundation

Organizes Summer School On "Hands on Robotics Programming" From 24 – 28th June 2024

Attendance (Day 2 - 25/06/2024)

Sr. No	College	Name	Morning	Afternoon
1	Government College of Arts. Science & Commerce. Quepem		-	-
2	Government College of Arts. Science & Commerce. Quepem		-	
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Electronics Programme, School of Physical And Applied Sciences

In Association with Goa State Research Foundation

Organizes Summer School On "Hands on Robotics Programming" From 24 – 28th June 2024

Attendance (Day 4 - 27/06/2024)

Sr. No	College	Name	Morning	Afternoon
1	Government College of Arts. Science & Commerce, Quepem			
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26	Government College of Arts, Science & Commerce, Khandola	Divya P. Umarye	Counte	Counte	Court
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3. Photographs





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