REGISTRATION DETAILS

Participants can register for this course on AICTE ATAL by following steps
https://atalacademy.aicte-india.org/login
Registration Fee: Nil
TA will be provided as per ATAL Norms
Number of Seats (Maximum)-50
(on first come first basis)

CHIEF PATRON

Dr Amar Nishad T M
Principal
KMEA Engineering College

PATRON

Dr Rekha Lakshmanan
Vice Principal
KMEA Engineering College

ADVISORY COMMITTEE

Dr Sija Arun
HoD, Civil Engineering

Prof Sheena Kurian
HoD, Computer Science & Engineering

Dr Reena Sebastian
HoD, Electrical And Electronics Engineering

Dr Shahin M Abdulla
HoD, Electronics And Communication Engineering

Dr Leera Raju
HoD, Mechanical Engineering

Prof Rijul M
HoD, Safety And Fire Engineering

COORDINATORS

Dr Sangeetha C P
Associate Professor & Head,
Robotics And Automation Engineering

Ms. Aliya Shahul
Assistant Professor,
Robotics And Automation Engineering

ORGANISING COMMITTEE

Mr. Muhammed Ajmal, Assistant Professor, CE
Ms. Fasalul Faseeh K A, Assistant Professor, CSE
Dr Faseela C K, Assistant Professor, EEE
Ms. Jubaira Mammoo, Assistant Professor, ECE
Mr Haris P A, Assistant Professor, ME

HOW TO APPLY?

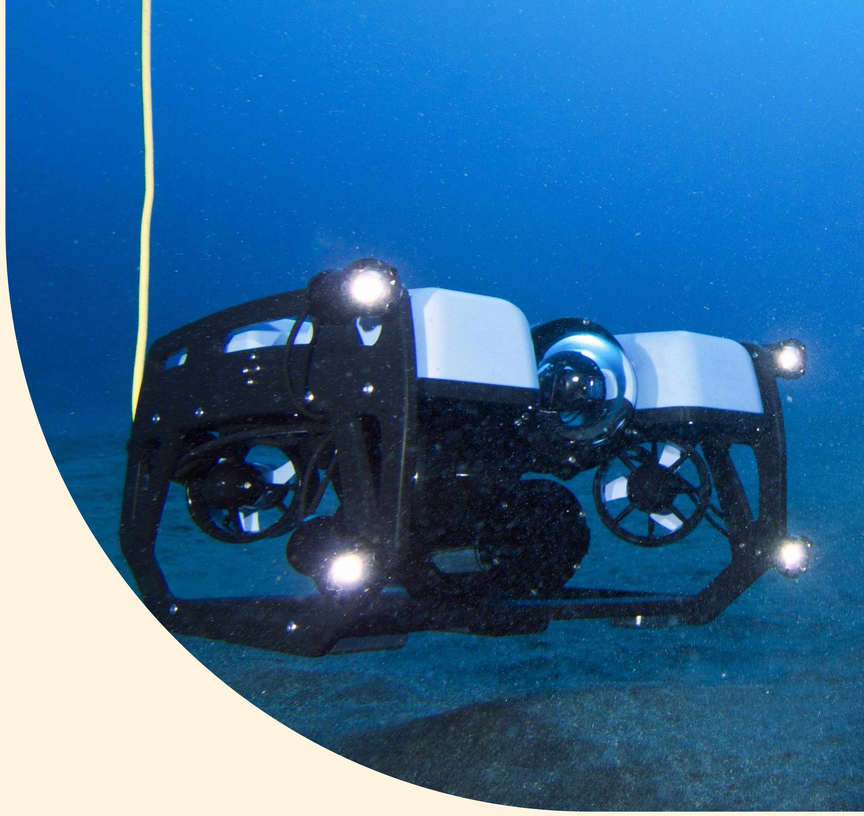
Application in the prescribed format attached herewith duly recommended /Sponsored by the Head of the Institution should be send to the coordinator email ID.

Application Form

Name(in block letters): _____
Gender (M/F): _____
Designation: _____
Department : _____
Organisation: _____
Mailing address: _____
Telephone: _____
E-mail:_____
Educational Qualification: _____
Experience : _____
Signature of Applicant: _____
Signature of Head of the Institution(with Date & Seal): _____

CONTACT DETAILS
Dr Sangeetha C . P
Contact No: 9003920949/9744876658
Mail Id: hodra@kmeacollege.ac.in

Ms. Aliya Shahul
Contact No: 8075540122
Mail Id: asl.ra@kmeacollege.ac.in



KMEA ENGINEERING COLLEGE

ACCREDITED PROGRAMMES CSE, ECE, EEE, CE & ME

AICTE TRAINING AND LEARNING(ATAL) ACADEMY SPONSORED

6-DAY OFFLINE

FACULTY DEVELOPMENT PROGRAM (FDP)

ON

UNDERWATER ROBOTICS : RESEARCH OPPORTUNITIES AND CHALLENGES

15th to 20th JANUARY 2024

ORGANISED BY

DEPARTMENT OF ROBOTICS AND AUTOMATION ENGINEERING

(Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University)

KMEA

NATIONAL BOARD OF ACCREDITATION

ACCREDITED PROGRAMMES
CSE, ECE, EEE, CE & ME

ABOUT AICTE & ATAL FDP

The All India Council for Technical Education (AICTE) is India's national-level apex advisory body, established in November 1945, responsible for planning, setting norms, and maintaining standards for technical education. The AICTE & mission is to guarantee quality assurance through accreditation, promote innovation, and manage funding for technical institutions. AICTE also plays an important role in the management and development of technical education across the country. AICTE ATAL Faculty Development Programme (FDP) aims to improve faculty member's teaching abilities and competences in technical institutes. It allows faculty members to acquire new teaching approaches, research advances, and industry-relevant practises, ultimately boosting the overall quality of technical education in India.

ABOUT THE INSTITUTION

The Kerala Muslim Educational Association was established in 1957 with the lofty aim of setting up quality educational institutions on a par with global standards. KMEA Engineering College (KEC) was established in 2002 under the management of Kerala Muslim Educational Association, a charitable trust. It is approved by All India Council for Technical Education (AICTE) and affiliated to APJ Abdul Kalam Technological University. KMEA Engineering College has been accredited by the National Assessment and Accreditation Council (NAAC).Five B.Tech Programs : CE, CSE, ME, ECE and EEE are accredited with NBA.

ABOUT THE DEPARTMENT

The Department of Robotics and Automation, established in 2023, is working with a vision to become a globally recognised leader in providing industry-oriented education along with research related projects in the field of robotics and automation. To enhance the learning experience and provide exposure to interdisciplinary student projects with cutting-edge resources, the KMEA Centre for AI, Robotics, and Entrepreneurship (CARE) Lab has been established, which serves as a hub for young minds to cultivate their passion for robotics, engineering, and technological innovation. The department has established collaborative partnerships with various industrial organisations to enhance our commitment to bridging academia and industry.

ABOUT THE FDP

This Faculty Development Program on Underwater Robotics is a specialized training initiative designed to enhance the skills and knowledge of researchers and faculty members in the field of underwater robotics. This program starts with underwater exploration and proceeds to all aspects of underwater ROV design concepts. This FDP integrates the software and hardware components so that it will empower researchers and academic professionals with the expertise necessary to teach, mentor, and lead projects related to underwater robotic systems.

RESOURCE PERSONS

Mr. Sanjeev Shashikant Afzulpurkar
Rtd. Scientist-G ,Head Of Marine Institute Division National Institute Of Oceanography, Goa

Mr. Alok Mukherjee
Rtd. Scientist-G R&DE(E), DRDO Pune

Mr. Sunil Paul CEO
Shristi Robotics Technologies Pvt Ltd

Dr. Rituparna Datta
Manager, Data Science Cape Gemini Technologies Services India Ltd.

Mr. Christin T Joseph
CEO, Black Bear Automations Pvt Ltd

Mr. Prakash Khanzode
Managing Director, Onio Design, Pune

Ms. Maya Menon
Founder, Mind Empowered Charitable Trust, Kochi

Mr. Lentin Joseph
CEO ,Qbotics Labs

Dr. Alex P James
Dean(Academics), Digital University Of Kerala

TARGET PARTICIPANTS

Faculty of AICTE approved Institutions, Research Scholars, Industrialists.

KMEA ENGINEERING COLLEGE

AICTE Training And Learning (ATAL) Academy Sponsored Faculty Development Program (FDP)
On
Underwater Robotics : Research Opportunities And Challenges
15th -20th January 2024

Organised By Department Of Robotics And Automation Engineering

(Approved by AICTE & Affiliated to APJ Abdul Kalam Technological University)

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
	15 Jan 2024 Monday	16 Jan 2024 Tuesday	17 Jan 2024 Wednesday	18 Jan 2024 Thursday	19 Jan 2024 Friday	20 Jan 2024 Saturday
9.00-9.30AM	Inauguration					
9.30-12.00PM	**Session 1 :** Underwater Exploration	**Session 3 :** Components Needed For Developing An ROV Project	**Session 5 :** Mechanical Design Constraints In ROV Frame Design	**Session 7 :** Mental Health Awareness	**Industrial Visit** (Maker Village/ Fab Lab Kalamassery)	**Session 10 :** AI Hardware Design
12.00-1.00PM	Article Discussion	Article Discussion	Article Discussion	Article Discussion		Reflective Journal
1.00-2.00PM			LUNCH BREAK			
2.00-4.30PM	**Session 2 :** Design Of Underwater Rover	**Session 4 :** Optimisation Techniques For Underwater Applications	**Session 6 :** Product Design Concepts	**Session 8 :** How To Prepare Student Team For An International ROV Competition	**Session 9 :** Building Smart Robots Using ROS	MCQ/Feedback/ Interactions
4:30 – 5:30PM	**Practical Session 1** ROV Frame Design	**Practical Session 2** ROV Frame Assembly	**Practical Session 3** ROV Electronics	**Practical Session 4** ROV Software - Blue OS	**Practical Session 5** ROV Testing In Pool	Valedictory Ceremony

Details of Resource Persons

Session 1	**Mr. Sanjeev Shashikant Afzulpurkar** Rtd. Scientist-G ,Head Of Marine Institute Division National Institute Of Oceanography, Goa
Session 2	**Mr. Alok Mukherjee** Rtd. Scientist-G R&DE(E), DRDO Pune
Session 3	**Mr. Sunil Paul** CEO, Shristi Robotics Technologies Pvt Ltd
Session 4	**Dr. Rituparna Datta** Manager, Data Science Cape Gemini Technologies Services India Ltd.
Session 5	**Mr. Christin T Joseph** CEO, Black Bear Automations Pvt Ltd

Session 6	**Mr. Prakash Khanzode** Managing Director, Onio Design, Pune
Session 7	**Ms. Maya Menon** Founder, Mind Empowered Charitable Trust, Kochi
Session 8	Industrial Visit
Session 9	**Mr. Lentin Joseph** CEO ,Qbotics Labs
Session 10	**Dr. Alex P James** Dean(Academics), Digital University Of Kerala