## Who Should Attend?

- Students of Engineering Colleges.
- Students of Polytechnic Colleges.
- Industries and R&D Organizations.

## **Delegate Fee**

Category	Per Delegate Fee	
U.G. Student (TRS member)	Free	
U.G. Student (Non-TRS member)	300	
R&D, Industry	500	

#### Notes:-

- Last date of registration is 14/03/2023, as entry is limited to 50 on first come first serve basis.
- DD/at par Cheque/Net transfer to be drawn in favour of :
   Principal, Amrutvahini College of Engineering at UBI Branch Ghulewadi
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## **Speakers**

Specialists in the field of Robotics from premier Institutions and Industry professionals will deliver lectures and hands on sessions on recent advances in robotics.

## **Contact Details**

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# Department of Automation and Robotics Engineering Amrutvahini College Of Engineering, Sangamner

(Approved by AICTE, New Delhi; Permanently affiliated to Savitribai Phule Pune University, Pune & Best College Award by University of Pune (Professional- Rural) (Twice)

Awarded 'A' Grade by Govt. of Maharashtra, fourth times accredited by NBA, New Delhi;

Accredited 'A+' grade by NAAC, Bangalore;

An ISO 9001: 2015 TUV-SUD Certified Institute.

At – Amrutnagar, Post Ghulewadi,
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Department of Automation & Robotics Engineering
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#### Welcome to Ahmednagar(Hindu Holy City)

Ahmednagar is a largest district of Maharashtra state in western India, about 120 km northeast of Pune, 70 km from Aurangabad. It is situated on the west bank of the Sina river. Sugar, milk and bank co-operatives thrive here. The city was founded in 1490 by Ahmad Nizam Shah Bahri. The city witnesses some magnificent architectural monuments from the Nizam Shahi dynasty. The district is strewn with a number of temples, many of them ancient, which are much visited by the pilgrims. Among them, Shirdi is quite famous across the India. The famous Sai Baba Temple lies in Shirdi, Some other famous tourist places in Ahmednagar are Ahmadnagar Fort, Alamgir, Amriteshwar Temple, Anand Dham, Mula Dam, Chandbibi Mahal, Harishchandragad Fort, Meherazad, Newase where Dnyaneshwari was written, one of Ashtavinayaks at Siddhatek, the famous Kanifnath temple, the Palace of Chandbibi, the Bhandardara dam, Mula Dam, Ratangadh Fort, Mount Kalsubai, Shani Shingnapur, the Maldhok (Black-Buck) sanctuary and the Rehkuri sanctuary, etc. are some of the places of tourist attraction.

#### **About Sanstha**

Honorable Sahakar Maharshi Late Shri. Bhausaheb Thorat, Freedom Fighter, Pillar of Co-operative Movement and Founder of Amrutvahini Sheti and Shikshan Vikas Sanstha, a great visionary and philanthropist. He converted his thoughts into reality by creating educational and training facilities. For this, he has founded the Amrutvahini Sheti and Shikshan Vikas Sanstha in 1978 to provide education to the poor farmer at his doorstep, which boosted the socio-economic progress of the rural people. The Sanstha is running following educational institutions:

- Amrutvahini College of Engineering.
   Amrutvahini Institute of Management and Business Administration.
   Amrutvahini Industrial Training Institute.
- Amrutvahini Institute of Pharmacy.
   Amrutvahini NIDO International School

- Amrutvahini Polytechnic. Amrutvahini Model School.
- Amrutvahini College of Pharmacy.

- Amrutvahini Institute of Diploma in Pharmacy.
   Amrutvahini International School.
- Amrutvahini Junior College

About the Institute

Amrutvahini College of Engineering has been established in 1983 and presently offers UG (Civil - (Intake-120), Automation and Robotics - (Intake-120), Electronics & Computer Engineering - (Intake-60), Mechanical - (Intake-120), Electronics & Computer Engineering - (Intake-60), Mechanical - (Intake-120), Electronics & Computer Engineering - (Intake-60), Electronics - (Intake-60), Elec E&TC - (Intake-60), IT - (Intake-60), Electrical Engineering - (Intake-60)) & PG (Structure - (Intake-18), Mech. Design - (Intake-06), MBA - (Intake-60)) courses with Ph.D. Center in Mechanical and Civil Engineering. All the UG programs except Electrical Engineering were accredited by NBA, New Delhi.

#### **About the Department**

Department of Automation and Robotics Engineering is recently established by the Institute from A.Y. 2021-22 with a UG program of intake capacity of 60. This program is approved by AICTE. New Delhi and Affiliated to the Savitribai Phule Pune University. The department has following laboratories such as Automation & Control Lab, Metrology & Quality Control Lab, CAD/CAM Lab, Simulation Lab with following major equipments like Coordinate Measuring Machine (CNC-CMM), 6-Axis Programmable Robotic Arm with MIG welding set up (Make: ABB, Model: IRB1410), E -Yantra kits under VLSI Lab setup initiative supported by IIT Mumbai, Advanced Inverted Metallurgical Microscope with Image Analysis System (Make: Olympus, Japan, Model: GX-53), Micro Vickers Hardness Tester (Make: Omnitech, Model: MVH – I C), Sample sectioning or abrasive cutting machine, Metallography sample polishing machine, Metallography hot mounting press, Electro-Hydraulic Trainer, Pneumatic trainer, Pol Maker's Microscope, Surface Finish Tester, Profile Projector, Electronic Comparator with Probe. Also, department has following application Software's such as, Mechanical Desk Top 6.0, Autodesk Mechanical Solution, Unigraphics NX 4.0, PTC-Creo University Plus Academic Campus Pack, Witness Simulation Software, MasterCAM V X. Stat graphics Centurion Xv 6, Robot studio, RoboAnalyser, Coppeliasim, Do-NC-CNC, CADEM, DELCAM, etc.

As per the direction of AICTE on model curriculum at UG level on the emerging areas such as Artificial Intelligence (AI), Internet of Things (IoT), Block Chain, Robotics, Quantum Computing, Data Sciences, Cyber Security, 3D Printing and Design, Virtual Reality (VR), it is inevitable to learn, teach to the students and implement these techniques in the form of different applications for the societal benefits.

#### **Aim and Objective**

Automation is an indispensable part of the manufacturing industry, the majority of companies today are looking for lean manufacturing solutions and the industrial manufacturing robots provide many benefits that companies require to stay competitive. Recent developments in information technology and engineering sciences have been the main reason for the increased utilization of robots in a variety of advanced manufacturing facilities. Robots with vastly different capabilities and specifications are available for a wide range of applications. A futuristic and forward looking vision is specifically important for India as robotics is still novel and its impact and consequences are yet to unfold. This calls for a drive to ensure that larger percentage of the workforce is equipped with enhanced industrial skills and training, indigenous manufacturing is incentivized, entrepreneurship and SMEs are promoted, and innovation is bolstered. In this background, this program is the right platform to get experienced and educated with the ambitious and exhaustive expert sessions on robotics and allied fields. The aim of the program is tuned to educate and train the students to meet the upcoming requirements of the industrial robots. The objective of this course is to impart knowledge about industrial robots for their control and design. The sessions will be handled by experienced faculties and industry experts.

#### **Organizing Committee**

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