



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

(An Autonomous Institute under VTU)

Doddaballapur Main Road, Avalahall, Yelahanka, Bengaluru - 560064

Department of Mechanical Engineering

Open Course on “Automation and Robotics”

Automation control is the application of technology, programs, robotics or processes to achieve outcomes with minimal human input. It involves using automation and control products like contactors, HMIs, PLCs, sensors, relays, timers and modules to operate machines, systems or processes. It requires a deep knowledge of the many components needed for automation and how to combine them into a complete control system or a subset to a platform. It can improve speed, production, and safety in various industries and applications, such as mining, by using cutting edge technology and interoperable solutions. It also involves using a measuring element that generates an output signal that can be monitored by an instrument in an automatic control loop.

What you will learn:

- Introduction to Automation
- Introduction to Robotics
- Conveyers
- Sensors
- Transducers
- Actuators
- Trajectory planning
- Robot programming

Venue: A202, 2nd floor, Academic block

Date: 12th to 16th June 2023

Time: 8.30 am to 4.30 pm

Coordinators

Mrs.Nitya Poornima S
nityapmech@bmsit.in
Mob: 9986026013

Mr.Sriganesh T G
ganeshmech@bmsit.in
Mob: 9738456024

Convener

Dr.H.K.Govindaraju
Professor and HoD



In association with DiFACTO Robotics and Automation.Pvt Ltd

Plot no – 103, 113, 114, 7th main, 3rd Cross Rd, 3rd Stage, Industrial Area, Bengaluru, Karnataka 560058
Ph: 080-43722985

Registration details:

<https://projects.bmsit.ac.in>

Registration Fee Details: ₹400/-

1. Login into: <https://bmsitm.gnums.in>
2. Go to Menu Fee->other Fee
3. Select the Fee Head as Open Course fee and pay Rs.400/-



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

Department of Mechanical Engineering

Course Schedule: "Automation and Robotics"

12th June 2023 to 16th June 2023

Sl No.	Date	Topics covered	Break	Topics covered	Break	Topics covered	Assessment/feedback
		8:30 to 10:30 am	10:30 to 10:50 am	10:50 to 12:50 pm	12:50 to 1:50 pm	2:00 to 4:00 pm	4:00 pm to 4:30 pm
1	12.06.2023	Introduction of Automation by Mr.Chethan (Hydac Technology)	TEA BREAK	Advancements in Automations by Mrs.Nitya Poornima S	LUNCH BREAK	CNC lab by Mr. Sriganesh T G	Overall Feedback & Assessment
2	13.06.2023	Introduction of Robotics by Mrs.Nitya Poornima S		Working of Motors and actuators by Mrs.Nitya Poornima S		Hands on - Motors and actuators by Mrs. Manjula B K (EEE)	Overall Feedback & Assessment
3	14.06.2023	Advancements in robotics by Mr.Arun Singh (Difacto)		Sensors and transducers by Mrs.Nitya Poornima S		Hands on –M&M lab by Mr. Sriganesh T G	Overall Feedback & Assessment
4	15.06.2023	Industry visit to Difacto Automation and Robotics. Pvt Ltd by Mr. Sriganesh T G		Industry visit to Difacto Automation and Robotics. Pvt Ltd by Mr. Sriganesh T G		Industry visit to Difacto Automation and Robotics. Pvt Ltd by Mr. Sriganesh T G	Overall Feedback & Assessment
5	16.06.2023	Poster Presentation by Mrs.Nitya Poornima S		Poster Presentation by Mrs.Nitya Poornima S		Quiz Mrs.Nitya Poornima S	Overall Feedback & Assessment