A Five Day National Workshop on

Basics in Robotics and Applications

(NWBRA-2K18)

17th - 21st December, 2018

Organized by

Department of Mechanical Engineering

Registration Form

Name of the participant :
Gender:
Age :
Qualification :
Address:
Mobile number :
Email:
Registration fee paid : Yes / No
Chalan Number :
Write up on 'Interest of participation : Enclosed / Not
Holding Laptop : Yes / No
Signature of participant :

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Foundation for Science, Technology & Research

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asics in Robotics and Applications (NWBRA-2K18)

17th - 21st December 2018

Convenor: Dr. L. Suvarna Raju, Professor & Head

Coordinator : Mr. Ravi Kumar Mandava, Asst.Professor

Co-Coordinator: Mr. N.Narayan Rao, Asst. Professor

Organized by Dept. of Mechanical Engg.



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VFSTR (DEEMED TO BE UNIVERSITY)

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DEPARTMENT OF MECHANICAL ENGINEERING

VFSTR offers various programs in Mechanical Engineering at bachelor, master and Ph.D level. Our strong and interactive curriculum incorporates learning with hands-on practice that makes the students capable of taking their career to the next level, be it in the professional engineering practice or in further studies. Right from its inception in 1997, the Department has been focusing on quality teaching with integrated laboratory practice. The Department has 14 laboratories, 3 research centers and a Center of Excellence in Composite Materials that are designed to cater to the needs of academic, industrial and research activities.

INTRODUCTION

The field of Robotics has now gained immense popularity in respect of dealing with problems in different disciplines all over the world. This workshop is designed to provide knowledge on the recent developments in Robotics, applications and the allied research field. This program is also aimed to provide hands-on experience on development and testing of mobile robots in real time environment for various applications.

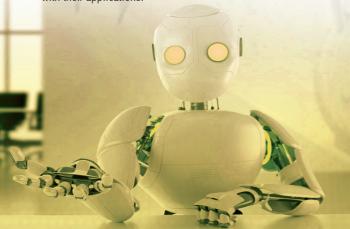
The workshop offers a unique multi-disciplinary platform to the participants to undergo training and improve research activity. This course is beneficial for the students, scholars, practicing engineers and academicians from various disciplines.

OBJECTIVES

- To provide knowledge on basics, kinematics and dynamics of robotics
- To provide in-depth knowledge on the forward and inverse kinematic models of usual serial and parallel manipulators
- To create an understanding on the concepts of various bio-inspired robots
- To impart knowledge on concepts of static and dynamic walking of humanoid robots
- To discuss development of various path/motion planning algorithms using soft computing techniques

COURSE CONTENT:

- Introduction to Robotics
- Forward and Inverse Kinematics of the Planar Serial and Planar Parallel Manipulators.
- Static Walking and Dynamic Walking of the Biped Robot.
- Biologically Inspired Robots and its applications.
- Design of controllers and its working in various robots.
- Path/Motion planning algorithms and their applications.
- Soft computing based algorithms using in path planning algorithms.
- Various robots are using in space applications.
- Hands on experience on developing various mobile robots with their applications.



REGISTRATION FEE:

Rs. 2,000/-
Rs. 1,500/-
Rs. 1,000/-

KEYNOTE SPEAKERS:

Dr. C.D. Sridhara

Former Deputy Director for ISRO Satellite Center (Retd)

Dr. V. PanduRanga, IIT Bhubaneswar.

Dr. Santhakumar Mohan, IIT Indore

Dr. Vivek Sangwan, IIT Bombay

Dr. Nirmal Baran Hui, NIT Durgapur.

Dr. Rahul Kala, IIIT Allahabad.

Dr. N. Siva Prasad, TATA Elxsi, Bangalore.

Dr. K. Venkata Rao, VFSTR, Guntur

Mr. Ravi Kumar Mandava, VFSTR, Guntur

How to Apply

The duly filled Registration form along with the Registration fees should be sent to the coordinator through E-mail on or before 10th December 2018. Fee can be deposited by electronic transfer through NEFT to the bank account "VFSTR MISCELLANEOUS", A/C-21890210000151, IFSC-UCBA0002189, payable at Guntur, Andhra Pradesh, India



