



Instructor Profile

Dr. Sajjad Haider is currently an Associate Professor of Computer Science and the Head of the Artificial Intelligence Lab at the Institute of Business Administration, Karachi. He also holds a dual position of Honorary Associate at the University of Technology, Sydney where he is a member of the Innovation and Enterprise Research Lab. He is currently working on a National ICT R&D Fund research grant to develop data mining-based solutions to tackle money laundering and suspicious financial activities in the country.



# ROBOTICS WORKSHOP

An interactive workshop on Robot Programming & Engineering

DATE: 30th November, 2013  
Timings: 09:00 am to 04:30 pm  
Fee: Rs. 12,000/- per candidate

For Queries & Information:

**Sumera Muhammad**  
Manager, Center for Executive  
Education

Ph.: 021-38104700-01 Ext.: 1801

Fax: 021-38103008

Email: BE&SDP@iba.edu.pk;  
smuhammad@iba.edu.pk

**Agha Muhammad Raza**

Executive Assistant, Center for  
Executive Education

Ph.: 021-38104700-01 Ext. : 1541

Email: agha.raza@khi.iba.edu.pk

The Workshop has been tailor made for High School Teachers and will introduce them to the world of Robot programming and engineering in a fun filled and interactive fashion. It will provide an overview of the fundamental of robotics, working of different sensors and how the overall robot control architecture works .

Learning Outcomes:

- Understand the fundamentals of cognitive robots and the context of artificial intelligence in robotics.
- Understand the concept of sensors and actuators.
- Hands-on experience of assembling robots from Lego Mindstorms kits.
- Learn NXT-G programming for robot control.
- Hands-on experience of programming line follower, maze solver and sumo wrestler robots.
- Exposure to state-of-the-art competitions and developments in the field of cognitive robotics

**SKILL DEVELOPMENT PROGRAM**

*Adding Skills to Experience*