



PRODUCT NAME : 7 Days Robotics with
ATMEL AVR Distance Learning Ki

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PRICE : Rs 4,900.00

SKU : RM1193



DESCRIPTION

OVERVIEW:

This Program mainly focuses on the Individuals eager to learn Robotics from Basic through Distance Education. They will get the chance to expand their knowledge in the field of Designing, Construction, Operation, and Application of Robot with real time hand on practical experience. The duration of this module is 7 days. After completion of the Learning Section the Individual have to give examination on any working day within 3 Months, prior he/she has to lock the Examination Date within 2 days of completion of Learning Section. On successful completion of the Program Individual will be provided with Certificate of Distance Learning Program certified by Robosapiens Technologies Pvt. Ltd.

- 1. Duration: 7 Days
- 2. Best Suited For: Individual Eager to Learn Robotics *
- 3. Fees: 4900/- (Including Courier Charge)
- 4. Project: 25 Experiments cum Projects
- 5. Training Kit: Robosapiens DLK (For details view KIT Tab)
- 6. Delivery: DLK will be delivered to you in 5 working days after receiving your payment
- 7. Examination: You can give exam on any working day within 3 Months #
- 8. Certification: DLC from Robosapiens Technologies Pvt. Ltd.

Course:

Day 1:

Introduction to Robotics

- Three Laws Of Robotics
- Components Of Robotic Systems
- Types Of Robots
- Future Of Robotics

Day 2:

Introduction To Embedded Systems

- Semiconductor Memories
- Semiconductor Memory Technologies
- Flipflops
- Introduction To Computer Architecture
- Introduction To Microprocessors
- Introduction To Microcontroller
- Introduction To AVR Microcontrollers
- Introduction To AVR ATMEGA 16
- Pin Out Diagram Of AVR ATMEGA 16
- Pin Descriptions
- I/O Ports Of ATMEGA16

Day 3:

Installation of Software and Debugging

- Review Of Tool Chain Used To Design An Embedded System
- Integrated Development Environment (IDE)
- Compiler
- Robosapiens Boot Flasher
- Installation Of Softwares
- Installation Steps Of Winavr
- Installation Steps Of Avr Studio 4.0
- How To Work With Avr Studio 4.0

- Writing your First 'Embedded C' Program in AVR Studio
- Program Compilation and Debugging
- Loading Compiled 'C' Program into Microcontroller using Robosapiens 'AVR BOOTFlasher v1.0 Beta'

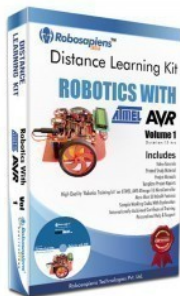
Day 4: Introduction To Display Devices

- Liquid Crystal Display (Lcd's)
- 16 X 2 Lcd Display
- Pin Diagram Of 16x2 Lcd
- Important Commands Codes For Lcd

Day 5:

ADDITIONAL IMAGES

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1 Pair Wheel



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Robosapiens Atmega16 Mini Robotics Development Board V4.0



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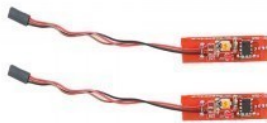
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CHASSIS BOARD



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IR Based Digital Sensors



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1 Pair D.C Plastic gear motors



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Sound Sensor



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Tool Kit CD



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DTMF Decoder Module



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LIGHT SENSOR



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Screw Driver



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Support Studs



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USB CONNECTOR CABLE



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Caster Wheel



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ACCELEROMETER



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LIGHT SENSOR (LDR SMALL)



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Sensor Extension Strip



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Temperature Sensor



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Tool Kit CD



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Joystick module



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RGB Led Module



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Stepper Motor



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TEMPERATURE SENSOR MODULE



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Ultrasonic Sensor



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