

e- Yantra Robotics Club

First Lecture Series of “Course on Robotics”

e- Yantra club conducted its first lecture series of “Course on Robotics” on 3rd and 4th Feb’2017.

It started with the speech given by Dr. B.C Sharma, Director IPEC, followed by Dr. Pooja Tripathi, HOD (IT) and Dr. Rekha Kashyap, HOD (CSE). They inspired everyone to enhance more and more with innovative ideas, briefed about objective and scope for this course and also appreciated this peer to peer learning course.

OBJECTIVE:

This course is designed to keep in mind that it is ‘for students and by the students’. The main goal of this first lecture series was to provide knowledge about Robotics, Embedded system and programming concept for Robotics.

PARTICIPANTS:

About 65 students from all branches of B.Tech attended this lecture series, in which 45 students were from 1st year and rest 20 students were from 2nd year.

CONTENTS:

The course was designed for 2 days covering a range of topics towards:

- Introduction to Robotics
- Introduction to Embedded System
- Introduction to Firebird V
- Display of White Line Sensor Robot
- Display of obstacle avoider Robot
- Programming Concept of C Language
- Introduction to Microcontroller and Microprocessor
- Introduction to Arduino Uno, Arduino Mega
- Program writing for LED on/off on Arduino
- Hands on practice on Arduino

IMAGE GALLERY:



Speech by Director- Dr. B.C. Sharma



Demonstration of Robots



Kunal Verma(EC,3rd yr.) giving lecture on FireBird V

Second Lecture Series of “Course on Robotics”

With immense pleasure, we are proud to announce our success on completion of the 2nd lecture series on "THE COURSE OF ROBOTICS" which was conducted on 3rd -4th March'17.

OBJECTIVE:

The objective of this series was to introduce elaborated and fundamental learning on the basic components involved, introduction of ARDUINO software with hands-on practice by applying this knowledge over a small project.

PARTICIPANTS:

About 50 students from all branches of B.Tech attended this lecture series, in which 40 students were from 1st year and rest 10 students, were from 2nd year. It was truly delightful to see the enthusiasm and dedication of the students.

CONTENTS:

- Revision of lecture series 1
- Arduino Hardware and Software
- Programming with C
- Explanation and videos of some Hi-Tech robots
- Introduction to components of Arduino kit
- Various functions used in Arduino
- Infrared sensors and potentiometers
- H-Bridge concept of Motor Driving Unit
- Small Project using all the components of Arduino kit.

IMAGE GALLERY:



Kunal verma(EC,3rd yr.) giving lecture on Arduino Hardware and Software



Veenu sharma(IT ,3rd yr.) giving lecture on C Programming



Students having hands-on practice on Arduino kit

Third Lecture Series of “Course on Robotics”

The 3rd lecture series on "THE COURSE OF ROBOTICS " was conducted on 8th April"17. It was the last lecture series of this semester. Three more lecture series has been planned to be conducted in next semester.

OBJECTIVE:

The objective of this series was to introduce new and advanced concept of hardware and software used in Robotics.

PARTICIPANTS:

About 45 students from all branches of B.Tech attended this lecture series, in which 35 students were from 1st year and rest 10 students, were from 2nd year.

CONTENTS:

- Circuit designing and Simulation using Proteus
- Serial communication in Robotics
- Data transmission through various modules

IMAGE GALLERY:



Designing of Circuit by Priya Patel (EC 2nd yr.,
2nd yr.)

Data transmission by Aditi (IT,
2nd yr.)



Simulation by Kunal Verma (EC, 3rd yr.)

Serial communication by Tanmay Gupta (IT, 3rd yr.)

