Robotics Club Winter Camp: Unlock the Roboticist Within

ROBO101: A Zero Credit Course

Aim: This is an introductory course in Robotics. All the concepts covered here, are used directly or indirectly in building robotic systems.

Syllabus

- **Programming**
- **Microcontrollers**
- **Designing**
- **Computer Vision**
- **Robot Operating System**

Schedule:

- 2 sessions will be held everyday from 30th November to 16th December 2019
  - Session 1: 1:30 pm to 4:45 pm
  - Session 2: 5:45 pm to 7 pm
- The venues for these sessions will be KD101, NCL CC03 or Robotics Club, Hall 12, IIT Kanpur.
- Detailed Schedule with venues will be posted separately.

Enrolment:

- Students have been selected for the Robotics Club Winter Camp after going through a **rigorous aptitude-based test**.

Abhay Varshney | Madhur Deep Jain | Neil Shirude
Robotics Club, IIT Kanpur
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Instructors:

Programming: Kuldeep Kumar, Sourish Mondal, Neil Shirude
Microcontrollers: Ayush Sinha, Himanshu Pawar Rahangdale, Abhay Varshney, Neil Shirude
Computer Vision: Paras Mittal, Sidhant Chandak, Madhur Deep Jain, Neil Shirude
Designing: Aditya Goyal, Anmol Gupta, Abhay Varshney
Robot Operating System: Arunim Joarder, Ashwin Shenai, Haren Bhandari, Madhur Deep Jain

Tutors:

Programming: Arunim Joarder, Dipak Miglani, Ramyata Pate, Ruchina Shree, Shivam Goel
Microcontrollers: Prakash Choudhary, Nikhil Verma, Shivam Goel, Suman Singha
Computer Vision: Ashwin Shenai, Dipak Miglani, Haren Bhandari, Kartik Gupta
Designing: Nikhil Verma, Prakash Choudhary, Ruchina Shree, Yatish Sharma
Robot Operating System: Kartik Gupta, Paras Mittal, Ramyata Pate

Grading:

- ROBO101 is a Pass/ Fail (S/X) Type Course.
- Every assignment/ quiz will be graded as S/X.
- You are required to secure a minimum number of S grades in order to complete the course satisfactorily. This minimum number of S Grades will be revealed later.
- Attendance and class participation have weightage equivalent to N assignments. "N" will also be revealed later.
- .If you complete the course satisfactorily, you will-
    - Consolidate your interest in the fascinating field of Robotics
    - Get a Certificate of Completion of Robotics Club Winter Camp from Science and Technology Council, IIT Kanpur
    - Get a Hoodie from Robotics Club, IIT Kanpur with your name written on it (at a discounted price). The Hoodie Design will be revealed in the first/ second session of the Winter Camp.