

## Global Engineer Training Program at NITKC (tentative)

### Detailed Information on Training and Research Sub-programs

#### ME&MS-2. Developments a mini-robot

Students will develop an original remote-control mini-robot by themselves. They can gain experience about mechanical design and drawing, making machine parts by machining and assembling mechanical systems through this program.

##### Schedule:

1st day: Introduction to NITKC and campus tour.

2<sup>nd</sup> day Explaining purpose of this program

-Tasks and Requirements Specification of the developed mini-robot and rule of mini-robot contest.

3<sup>rd</sup> day: Discussion and planning of developing the mini-robot with tutor (provide 1 tutor per 2 students)

4<sup>th</sup> -7<sup>th</sup> day: Mechanical design and drawing the mini-robot.

8<sup>th</sup> -9<sup>th</sup> day: Making machine parts of mini-robot by machining.

10<sup>th</sup> -12<sup>th</sup> day: Assemble and churning the mini-robot.

13<sup>th</sup> day: Robot contest using mini-robot.

14<sup>th</sup> day: Presentations about the design architectures of each robot.

Period:	2 weeks	Available period	Late April-May	Acceptable number of students:	6
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##### Basic knowledge required:

Mechanical design and drawing, Electric and electronic circuits (basic), Experience using machine tools

##### Notes: