

### Module # 1

Have loads of fun taking apart products like bicycles, soap dispensers, and lots of toys. Figure out how they work and then put them together again or rework them in something else.



In the process, we will understand more about

- What is engineering, what do engineers do in general, and Mechanical engineers in particular
- Engineering Design as a problem solving process in Engineering
- Engineering Sketching and Drawing – Isometric and Orthographic
- Simple Machines, Mechanism and Structures, and the Science of Measurement

Schedule:

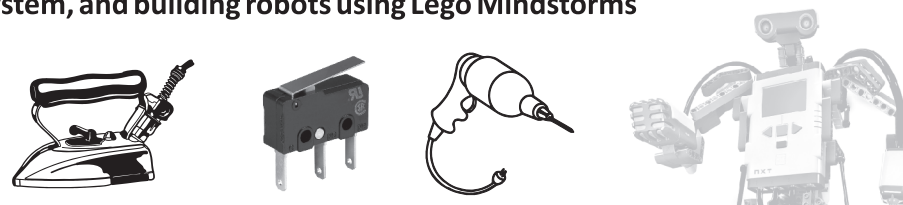
Batch	Start Date	End Date	Timing
Batch 1	18-April-2016	27-April-2016	10:00 AM to 01:00 PM
Batch 2	2-May-2016	11-May-2016	10:00 AM to 01:00 PM
Batch 3	2-May-2016	11-May-2016	03:00 PM to 06:00 PM

Eligibility: Students in 8<sup>th</sup> to 10<sup>th</sup> Std.

Fees: Rs. 2500=00

### Module # 2

In this module we will have fun taking apart products like irons and electric drills; building logic gates; assembling circuits, designing control system, and building robots using Lego Mindstorms



In the process, we will understand more about

- Electrical Engineering and its related branches
- Various electronic components; working of relays and switches
- Soldering / de-soldering components on a PCB and how to use a Multimeter for trouble shooting
- Working of a Programmable logic controller, ladder programming, ...
- Lego Mindstorms programming, working of various sensors

Schedule:

Batch	Start Date	End Date	Timing
Batch 1	16-May-2016	25-May-2016	10:00 AM to 01:00 PM
Batch 2	16-May-2016	25-May-2016	03:00 PM to 06:00 PM

Eligibility: Students in 8<sup>th</sup> to 10<sup>th</sup> Std.

Fees: Rs. 3500=00