



A new **DIMENSION** to  
your **LEARNING**

INDIAN SCHOOL OF ROBOTICS  
**Machines & Mechanisms**

**Curriculum**  
**38 Classes**

## COURSE TITLE

# Machines & Mechanisms

Class Plan For

ACADEMIC YEAR

**2020-21**

Machines & Mechanisms course helps participants to understand STEM concepts of simple & powered machines, structures and mechanisms. Participants learn design engineering with advanced mechanisms, structures, and forces in the course.

LEGO Simple & Powered machines set is required for pursuing this course.

### **LEGO SIMPLE & POWERED MACHINES (9686) KIT**

You can also get your exclusive LEGO Kit. Visit [www.mydeck.club](http://www.mydeck.club) to buy. Kit comes with 396 parts such as beams, connectors, battery box, gears, axles etc in a sturdy storage box

### **LIVE CLASSES**

Live classes are hosted on 'Google Classrooms.' We recommend you schedule 1 to 2 class per week.

Participants will be provided with the certification on successful completion of each level of the course.

## INDEX

	Class	Content
<b>BEGINNER</b>	Class 1	Pantograph
	Class 2	Merry go-round
	Class 3	Watch Tower
	Class 4	Wastle mechanism
	Class 5	Cable car
	Class 6	Mechanical toy
	Class 7	Juice making machine
	Class 8	Project
<b>PROFICIENT</b>	Class 9	Wearable
	Class 10	Solar system
	Class 11	Newton disk
	Class 12	Freewheeler
	Class 13	Crazy floor
	Class 14	Mocing car
	Class 15	Violin
	Class 16	Project
<b>EXPERT</b>	Class 17	Egg beater
	Class 18	Foldable bridge
	Class 19	Flywheeler
	Class 20	Rubber band powered car
	Class 21	Steering car
	Class 22	Inclined plain
	Class 23	Beam balance
	Class 24	Hammer
	Class 25	Trundle wheel
	Class 26	Project
<b>MASTER</b>	Class 27	Windmill
	Class 28	Lifter
	Class 29	Sweeper car
	Class 30	Land yatch
	Class 31	Fishing rod
	Class 32	Drawing machine
	Class 33	Walker I
	Class 34	Walker II
	Class 35	Dragster
	Class 36	Dog bot I
	Class 37	Dog bot II
	Class 38	Project