



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

INDIAN SCHOOL OF ROBOTICS  
**3D Design & Printing**

**Curriculum**  
**38 Classes**

## COURSE TITLE

# 3D Design & Printing

Class Plan For

ACADEMIC YEAR

**2020-21**

3D Design & Printing, is transforming how products are designed, produced, and serviced. It enables on-demand production without dedicated equipment or tooling, unlocks digital design tools, and offers breakthrough performance and unparalleled flexibility across industries.

After completing this course, you can create unique 3D models for 3D Printing in a 3D Printer, turn your ideas into something real by having them 3D printed, create 3D models fast and efficiently inside the free software, export your 3D models to for 3D printing.

### 3D Printer!!!

You can also get your exclusive 3D Printer. Visit [www.mydeck.club](http://www.mydeck.club) for more details. Printer comes with additional 3D Printer Filament in various colors, complete tool kit and a 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.

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## INDEX

	Class	Content
<b>BEGINNER</b>	Class 1	Introduction to 3D geometry
	Class 2	Tinker cad user interface
	Class 3	Shapes and orientation of objects
	Class 4	Graphical representation using 3D model
	Class 5	Write text in 3D
	Class 6	Grouping and ungrouping an objects
	Class 7	Design - Key chain with your name on it
	Class 8	Project
<b>PROFICIENT</b>	Class 9	Design - Spinning top
	Class 10	Design - A random object
	Class 11	Design - Snow flakes
	Class 12	Design - Book marker
	Class 13	Alignment of parts in design
	Class 14	Write text on an object
	Class 15	Concept of hollow objects
	Class 16	Project
<b>EXPERT</b>	Class 17	Design - A cube shape with text on it
	Class 18	Design - A container box with cap
	Class 19	Design - An object which has multiple sub-parts
	Class 20	How to do Scaling of objects in 3D
	Class 21	Creating a scaled object
	Class 22	Replication of any object
	Class 23	Design - A whistle
	Class 24	Design - A pen case / stand
	Class 25	Design - A fidget spinner
	Class 26	Project
<b>MASTER</b>	Class 27	Design - A soap case
	Class 28	Design - A musical instrument
	Class 29	Design - A functional wrench
	Class 30	Identify design problem in an object near us & design its solution
	Class 31	How to upgrade a tool or object's part
	Class 32	Design - A structure using different designing skills
	Class 33	Design - A balloon powered car
	Class 34	Design - A mobile stand by doodle
	Class 35	Design - A door stopper
	Class 36	Design - An Eiffel tower
	Class 37	Design -A Dragon
	Class 38	Project