



**CHILDREN'S
UNIVERSITY**

DEPARTMENT OF TOY INNOVATION

**CERTIFICATE COURSE IN
INNOVATION IN TOY BASED PEDAGOGY**

Course Name: Innovation in Toy Based Pedagogy

Paper Code:- ITBP-101
Paper Name :- Innovation in
Toy Based
Pedagogy
Total Seats :- 35

Credit :- 03
Department :- Toy Innovation
Course Type :- Core
(core/Elective/
Foundation/Generic)

Course Objectives:

- Designing a teaching method to integrate Toys with science.
- Exposing kids to scientific principles through stories and case studies.

Course Content:

Unit	Topic	Content	Unit wise SLO	Hours
1	Introduction to Different types of Toys and Components	<ul style="list-style-type: none">• Different Toys• Coin• Scale• Paper• Match Stick• Tap• Wooden Stick• Candy Stick• Cutter• Rubber Band• Straw• A4 Size Paper	Familiarize yourself with the types of toys and different materials used for toy making.	6
2	Toys based on Coin Game, Flying, and Paper	<ul style="list-style-type: none">• Coin Centrifuge• Coin Inertia• Coin Hanger• Paper Gliders• Flapping Paper Butterfly• Square Paper Spinner and other paper-based toys	Will gain the understanding of the concept of centrifuge, Inertia and origami	14

3	Toys Based on Pressure, 3D shapes and Sound	<ul style="list-style-type: none"> • Basic Toys from Match Sticks • Complex structures from Match sticks • Toy Pump • Colour Wheel • Rainbow Spectrum • Straw Flute • Air Jack • Straw Sprinkler and Other Toys 	Will gain the understanding of concept of visualization, relevance of various shapes and pressure	14
4	Toys based on Spinning, Math and Origami	<ul style="list-style-type: none"> • Pulley Blocks • Trolley from match box • Water Turbine • Multiplication Table Wheel • Triangle to Square • Which holds more? • Circle to rectangle • Square to Cylinder 	Will gain the understanding of concept of the Force, Torque, Mathematics and different shapes	14
Total Hours				48