

LBD

Let's Build and Develop

ROBOTICS LAB



ENCOURAGING

CHILDREN TO INNOVATE



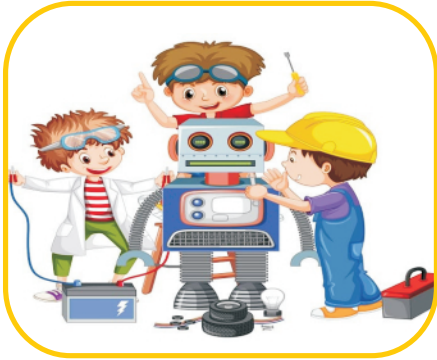
Registered Vendor
On GEM for ATL Package

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We, at **LBD** strive to provide quality products for our customers. As it is said that Great products build Great trust, we leave no stone unturned in ensuring quality for our products. Each and every detail of the product is monitored by our qualified Professional . We are dedicated towards developing quality products and enhancing them furthermore through regular feedback taken from our customers, and Clients.

We firmly believe that good relations with the customers is the sole reason behind the success of the product and we put in best of our efforts to maintain this relation. According to the market requirements and customers' demand, we are providing a wide range of materials Services

LBD provides products that are tested for their quality, durability while ensuring optimum pricing which helps us to provide the best solutions for everyone.

For any further information, reach us at sales@lbdrobotics.com

Thank You

LETTER TO THE PRINCIPAL

Dear Principal,

I am writing to you on behalf of the company I represent, LBD to inquire about the possibility of establishing a Robotics Lab on your school campus. We are a well-established technology company that has been providing innovative solutions to our clients for over 10 years.

We specialize in the development of solutions related to Robotics and we believe that our expertise could be a valuable asset to your school. We are confident that our services could greatly contribute to the educational experience of the students at your school by providing a unique hands-on approach to the Robotics. Further more, we are committed to ensuring that the lab is completely safe and secure for the students.

We have a team of highly qualified professionals who specialize in the safety protocols of lab environments. This ensures that your students are safe and that the lab is in compliance with all safety regulations. We understand that this type of project can be a significant investment for your school, so we are willing to discuss the costs of the project and any other questions you may have.

We look forward to hearing from you and to the possibility of working together to provide your students with a valuable learning experience. Sincerely,



Director
MR. KUMAR MAYANK

Contents of Training Module

1. **Tinkering & STEM Module** **Page 1-2**
2. **Programming & Coding Module** **Page 3-4**
3. **Robotics Module** **Page 5-6**
4. **Embedded Systems Module** **Page 7-8**
5. **Artificial Intelligence Module** **Page 9-10**
6. **3D Design & Printing Module** **Page 11-12**
7. **Drone Module** **Page 13-14**
8. **App Development & Gaming Module** **Page 15-16**
9. **Space Science Module** **Page 17-18**
10. **Astronomy Module** **Page 19-20**
11. **Financial Literacy Module** **Page 21-22**

Tinkering & STEM Module

COURSE MODULE:

- ❖ Activity Based Teaching
- ❖ Science And Stem Kits
- ❖ Diy Kits
- ❖ Project Based Teaching
- ❖ Engineering Design Process



LEARNING OUTCOME

- ❖ Critical Thinking
- ❖ Great Communication and Collaboration
- ❖ Creative and Innovative
- ❖ Problem Solving Skills
- ❖ Independent Learning

Tinkering & STEM Module

Competitions/ Olympiads

- ❖ Imagine Cup
- ❖ International STEM Olympiad
- ❖ Google Science Fair
- ❖ Intel International Science & Engineering Fair
- ❖ IRIS National Science Fair
- ❖ First Lego League India
- ❖ Destination Imagination
- ❖ First Tech Challenge
- ❖ National Science Concours
- ❖ CSIR Innovation Award for School Children



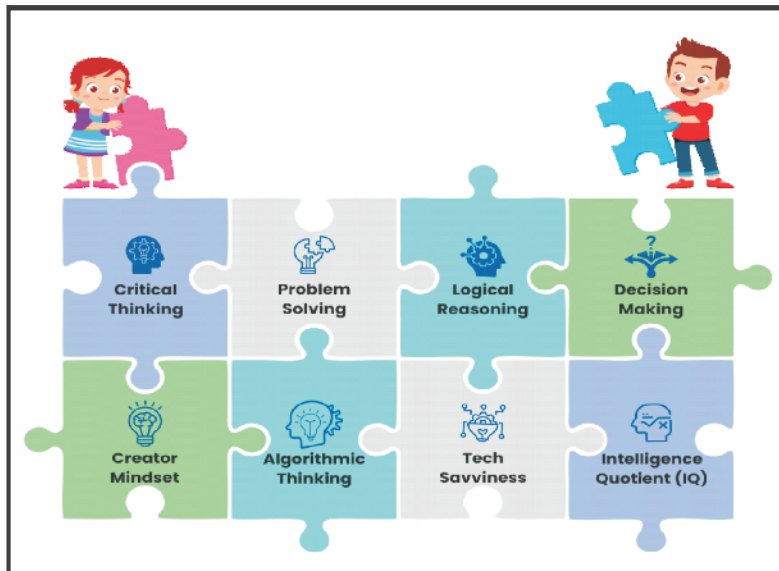
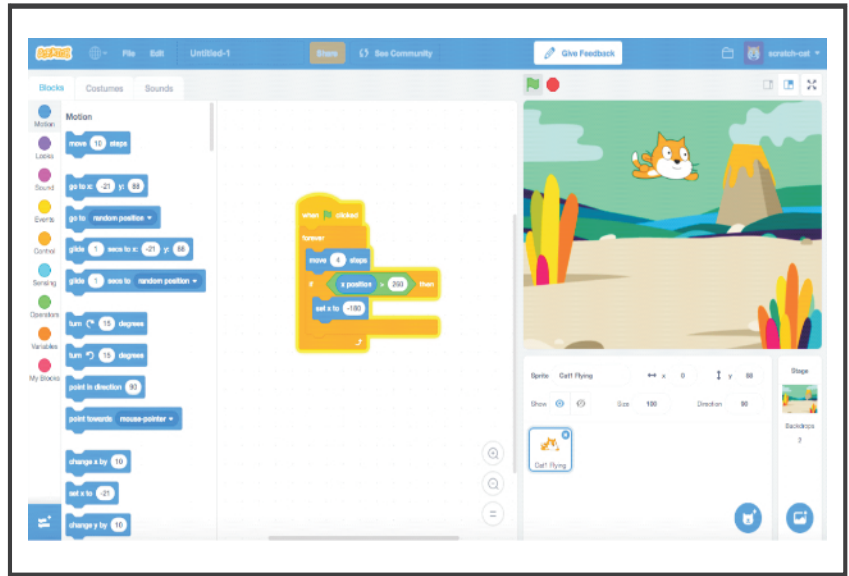
Why LBD Robotics

LBD has a thoroughly skilled, knowledgeable and well-qualified team of young and dynamic trainers with field expertise. Our goal is to inculcate among students an enthusiasm for STEM and equip them with all the high demand skills that will never cease to pay off in their future ventures.

Programming & Coding Module

COURSE MODULE:

- ❖ Scratch Programming
- ❖ Block Based Coding
- ❖ mBlock
- ❖ EduBlocks
- ❖ Code Monster



LEARNING OUTCOME:

- ❖ Encourage Creative Thinking
- ❖ Foster Problem Solving
- ❖ Computational Thinking
- ❖ Logical Thinking Skills
- ❖ Intrinsic Motivation

Robotics Module

COURSE MODULE:

- ❖ Circuit Designing
- ❖ Sensors and Actuators
- ❖ Microcontroller and Wi Fi Boards
- ❖ Object Oriented Programming
- ❖ 20 Real Life DIY Projects



LEARNING OUTCOME:

- ❖ Concept of Electronics
- ❖ Interdisciplinary Approach
- ❖ Concrete Learning
- ❖ Stimulate The Development of Creativity
- ❖ Getting More Physically Active

Robotics Module

Competitions/ Olympiads

- ❖ World Robot Olympiad India
- ❖ Wonder League Robotics
- ❖ Robofest
- ❖ BEST Robotics tournament
- ❖ The VEX Robotics Competitions
- ❖ FIRST LEGO League India
- ❖ First Robotics Competition
- ❖ Indian Robo Cup Junior
- ❖ International Robotronics Competition (IRC)



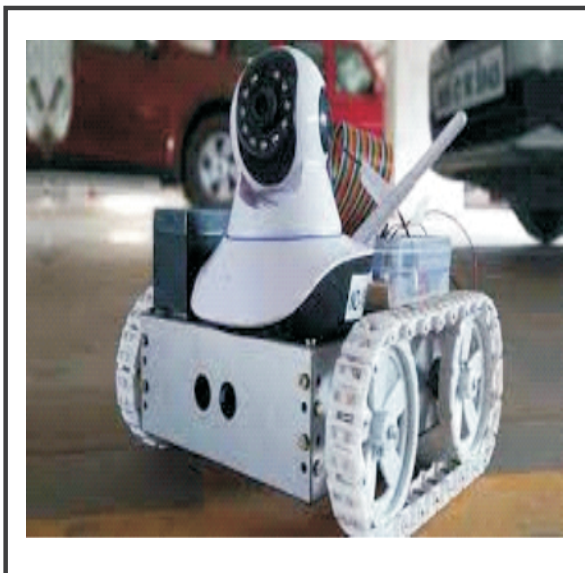
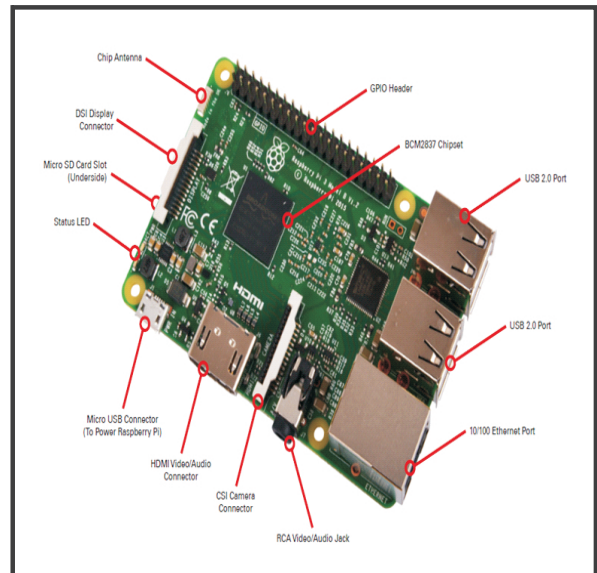
Why LBD Robotics

Our experts will teach robotics from a very basic level to developing such smart devices by using various sensors and actuators to develop smart robots. We prepare students for various national and international robotics competitions.

Embedded Systems Module

COURSE MODULE:

- ❖ Circuit & PCB Designing
- ❖ Microprocessor and Microcontroller
- ❖ Arduino and Raspberry
- ❖ Embedded Programming with Scratch
- ❖ LCD & LED Applications
- ❖ Games



LEARNING OUTCOME:

- ❖ Developing Social Skills
- ❖ Developing Learning Skills
- ❖ Hardware and Software Skills
- ❖ Team-Working Skills
- ❖ Communication Skills

Embedded Systems Module

Competitions/ Olympiads

- ❖ Imagine Cup
- ❖ Maker Faire
- ❖ Google Science Fair
- ❖ Intel International Science & Engineering Fair (IRIS National Science Fair)
- ❖ FIRST LEGO League India
- ❖ Destination Imagination
- ❖ National Science Concours
- ❖ CSIR Innovation Award for School Children
- ❖ Dr. A.P.J Abdul Kalam IGNITE



Why LBD Robotics

Starting from a basic circuit designing to developing games with microprocessor boards like raspberry, students develop a strong concepts of electronics with LBD. They also gather knowledge about PCB designing, microprocessor & microcontroller boards and embedded programming.

Artificial Intelligence Module

COURSE MODULE:

- ❖ Concept of AI with Real Time Projects
- ❖ Scratch
- ❖ Turtle Module
- ❖ Object Detection
- ❖ Pictoblox



LEARNING OUTCOME:

- ❖ Understanding of AI & ML
- ❖ Problem Solving
- ❖ Debugging Techniques
- ❖ Critical Thinking
- ❖ Logical Reasoning

Artificial Intelligence Module

Competitions/ Olympiads

- ❖ World Robot Olympiad India
- ❖ Maker Faire
- ❖ International Artificial Intelligence Olympiad
- ❖ Intel
- ❖ International Science & Engineering Fair (IRIS National Science Fair)
- ❖ FIRST LEGO League India
- ❖ First Robotics Competition
- ❖ Indian Robo Cup Junior
- ❖ CSIR Innovation Award for School Children
- ❖ Dr. A.P.J Abdul Kalam IGNITE
- ❖ International Robotronics Competition (IRC)



Why LBD Robotics

LBD has a well planned course curriculum to start the journey of your kid about artificial intelligence. We start from a very basic level i.e. scratch programming to teach about artificial intelligence to the kids. Our hands on activities about AI boosts the learning outcome of the kid very rapidly.

3D Design & Printing Module

COURSE MODULE:

- ❖ Introduction to 3D using 3D Pen
- ❖ 3D Printer & Its Parts
- ❖ Software
- ❖ 3D Designing using Online Platforms (Tinkercad, Sketchup, Fusion 360)
- ❖ Technologies in 3D printing



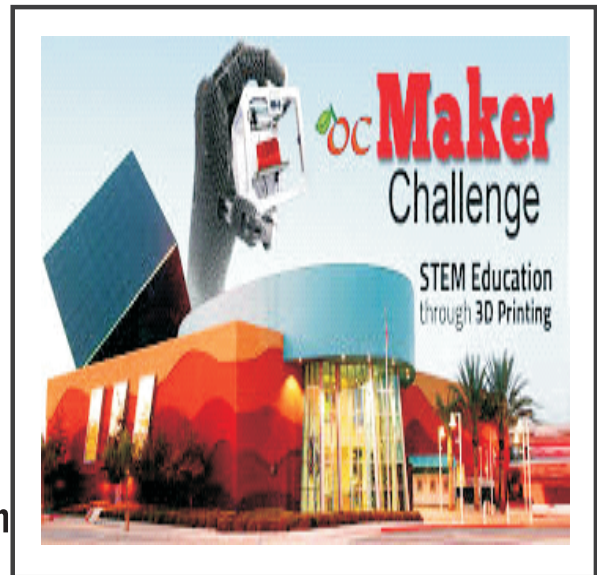
LEARNING OUTCOME:

- ❖ Creating Inventors
- ❖ Engaging Reluctant Learners
- ❖ Problem Solving Skills
- ❖ Design Thinking
- ❖ Understanding Science Concepts

3D Design & Printing Module

Competitions/ Olympiads

- ❖ Imagine Cup
- ❖ Young India Innovator Challenge
- ❖ Maker Faire
- ❖ FIRST LEGO League India
- ❖ Destination imagination
- ❖ F3.Space Global Web Design Challenge
- ❖ CSIR Innovation Award for School Children
- ❖ World Robot Olympiad India



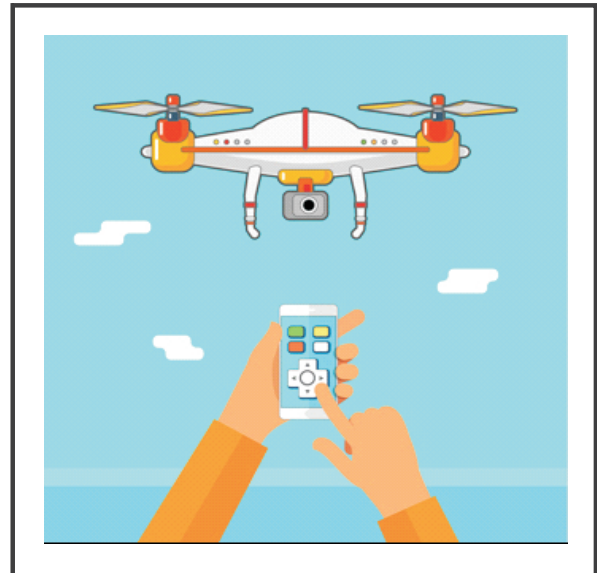
Why LBD Robotics

We have designed our curriculum about 3D printing and designing in such a way that it is flexible for kids to high school students. We, at first introduce 3D to students with very basics followed by 3D pen to 3D printer. We also teach students about 3D designing using various online platforms and software.

Drone Module

COURSE MODULE:

- ❖ Drones and Their Applications
- ❖ Dynamics of an Aerial System
- ❖ Stability and Control
- ❖ Coding with Drones
- ❖ Building a Drone



LEARNING OUTCOME:

- ❖ Real World Maths
- ❖ Engineering and Physics Principals
- ❖ Remote Control Concepts
- ❖ Leadership
- ❖ Team work

Drone Module

Competitions/ Olympiads

- ❖ IDRL Indian Drone Racing League
- ❖ Aerothon
- ❖ ASFU Drone Championship
- ❖ TX Drone Racing
- ❖ International Ariel Robotics Competition
- ❖ Student Design Competition
- ❖ Drone Innovation Challenge 1.0



Why LBD Robotics

We, at first introduce drone to students using physics principals behind it and also the dynamics of an aerial system. Students learn from stability and control of the drone to programming and building of a drone with LBD. We also provide Drone pilot training to the senior learners.

App Development & Gaming Module

COURSE MODULE:

- ❖ MIT App Inventor
- ❖ Kodular
- ❖ Appzio
- ❖ Code.Org
- ❖ Niotron



LEARNING OUTCOME:

- ❖ CIC Approach
- ❖ Activity Based Learning
- ❖ Project Based Learning
- ❖ Concept of Mathematical & Logical Operator
- ❖ Importing & Handling of Extension

App Development & Gaming Module

Competitions/ Olympiads

- ❖ Times NIE App Development Challenge For School Kids
- ❖ Code Chef
- ❖ F3.Space Global Web Design Challenge
- ❖ American Computer Science League
- ❖ International scratch competition
- ❖ Code 4 Fun
- ❖ NASA App Development Challenge
- ❖ CSIR Innovation Award for School Children



Why LBD Robotics

We introduce kids app development from a basic level with the help of an online platform MIT App Inventor. Kids learn app development from block based coding like scratch and kodular. Strating from the basic level of programming student also learns about game development with online platforms.

Space Science Module

COURSE MODULE:

- ❖ DIY Moon Phase Calculator
- ❖ Teaching Through VR
- ❖ Rocket Experiments
- ❖ Mini Satellite
- ❖ Telescope



LEARNING OUTCOME:

- ❖ Inquiry Based Learning
- ❖ Critical Thinking
- ❖ Analytical Skills
- ❖ Ability to Communicate Ideas Effectively

Space Science Module

Competitions/ Olympiads

- ❖ Indian Space Science Olympiad
- ❖ Google Science Fair
- ❖ NSS & NASA Space Settlement
- ❖ Intel International Science & Engineering Fair
- ❖ IRIS National Science Fair
- ❖ International Space Olympiad
- ❖ National Science Concours
- ❖ F3. Space Global Web Design Challenge



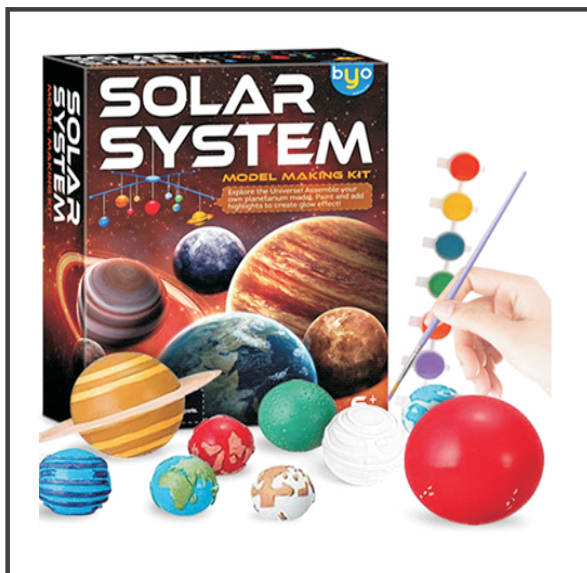
Why LBD Robotics

We teach kids about space science with various fun and gaming modules of space science. To make learning more easier we also use VR to teach the kids and high school students. Students learn about space science through various hands on activities. They also learn about telescope. LBD ensures the learning outcome of students in such a way that they are ready to participate in various competitions and olympiads.

Astronomy Module

COURSE MODULE:

- ❖ Interactive Sky Chart
- ❖ Solar System Model Making Kit
- ❖ Teaching Through AR & VR
- ❖ Telescope



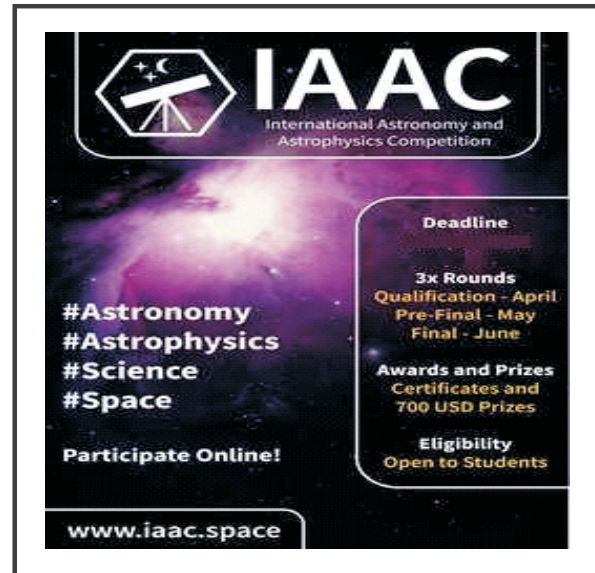
LEARNING OUTCOME:

- ❖ Spark Student's Curiosity and Imagination
- ❖ Become Increasingly Involved in the Sciences
- ❖ Higher Level Thinking
- ❖ Problem Solving Skills

Astronomy Module

Competitions/ Olympiads

- ❖ National Astronomy Challenge
- ❖ International Astronomy and Astrophysics Competition (IAAC)
- ❖ Google Science Fair
- ❖ Intel International Science & Engineering Fair
- ❖ IRIS National Science Fair
- ❖ FIRST LEGO League India
- ❖ National Science Concours



Why LBD Robotics

Students learn astronomy with easy hands on models and visual aids as well as augmented and virtual reality with LBD. We also use interactive sky chart in the learning method to clarify the concepts of astronomy and astrophysics. Students learn about application and usage of telescope with LBD. We teach the astronomy concepts to students in such a way that they can easily participate in any national or international Olympiad and secure a respected position.

Financial Literacy Course

COURSE MODULE:

- ❖ Basics of Money Management
- ❖ Basics of Banking & Insurance
- ❖ Introduction to Investing
- ❖ Introduction to Financial Market
- ❖ Introduction to Cryptocurrencies
- ❖ Early Entrepreneurship



LEARNING OUTCOME:

- ❖ Have An Improved Financial Iq
- ❖ Better Financial Decision Maker
- ❖ In-depth Understanding Of Investing In Equity
- ❖ Understanding Of Block Chain Technology & Its Potential
- ❖ Learn What To Do To Become A Rational Investor & An Entrepreneur

Financial Literacy Course

Competitions/ Olympiads

- ❖ Owlypia
- ❖ Junior Finance WIZ
- ❖ BSE International Finance Olympiad
- ❖ International Finance Olympiad
- ❖ International Economics Olympiad
- ❖ Olympiad Topper
- ❖ Finmania



Why LBD Robotics

Through lbd, we aim to create a money- wise generation by helping children

- ❖ Understand how money works in the 21st century
- ❖ Learn to wisely manage & be fiscally responsible
- ❖ Practice profitable investing & multiply their money
- ❖ Developing an entrepreneurial & growth mindset
- ❖ Understand, evaluate & start business

LBD Robotics Lab Elementary Fee Structure

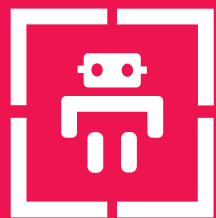
	Basic Learning Course 2 Months (16 Hours)	Concept Learning Course 6 Months (48 Hours)	Problem Learning Course 12 Months (96 Hours)
20 Student/ Batch	Rs 250/Hour	Rs 225/Hour	Rs 200/Hour
30 Student/ Batch	Rs 225/Hour	Rs 200/Hour	Rs 175/Hour
40 Student/ Batch	Rs 200/Hour	Rs 175/Hour	Rs 150/Hour

LBD Robotics Lab Net Payable Fee Structure

	Basic Learning Course 2 Months (16 Hours)	Concept Learning Course 6 Months (48 Hours)	Problem Learning Course 12 Months (96 Hours)
20 Student/ Batch	Rs 4000	Rs 10,800	Rs19,200
30 Student/ Batch	Rs 3600	Rs 9,600	Rs 17,800
40 Student/ Batch	Rs 3200	Rs 8,400	Rs 14,400

***The above cost is on per student basis**

**THANK
YOU!**



LBD
Let's Build and Develop

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