VISHWAKARMA INSTITUE OF TECHNOLOGY

DEPARTMENT OF ENGINEERING SCIENCES AND HUMANITIES

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| **CAP. PROJ1 BATCH:- B3** | **CAP. PROJ 1 GROUP ID:- Q12** | **ACADMIC YEAR 2020-21** | | **SEMESTER-1** |
| TITLE OF PROJECT | **GyroBike: Self balancing Bike** | | | |
| DOMAIN | Automobile. | | | |
| TOOLS | Gyroscope, HTML-5, CSS-3, JavaScript. | | | |
| TECHNOLOGY | Mechatronics, Web Development. | | | |
| NAME OF GUIDE | Prof. Ranjeetsingh Suryawanshi | | Roll Numbers:-  61,62,63,64,65 | |

**SYNOPSIS**

**IMPORTANCE OF THE DECIDED PROJECT (2/3 LINES):-**

The principle objective of our project is to create a self balancing bike using gyroscopic abilities. This will make sure that the bike becomes **accessible to all** who wish to ride it, without their disabilities coming in.

This will help children, adults and people who lack confidence a chance to learn a bike easily.

1. One of the upcoming future of automotive industry.
2. Everyone can access GyroBike (**disabled, aged**) without fear of disbalance.
3. Reduces risk of minor accidents.

**Bonus**: A interactive and informative website to showcase our project, with our 3-D model and much other statistics, facts and fun-knowledge of the project. Connected to every devices. So that our project is just not limited to the 4 walls of the room.

**STEPS TO DO THE PROJECT/ METHODOLGY (7/8 LINES):-**

1. Making a 3-D model of the prototype.
2. Understanding the principle and physics behind the project.
3. Implementation of physics on paper.
4. Collection of all the components and materials needed to build the bike
5. Assembling of bike.
6. Testing it.
7. Fixing minor/major issues in the project.
8. Ready to present the prototype.

T**ENTATIVE EXPECTED RESULTS FROM THE PROJECT (2/3 LINES):-**

A pure self balancing bike that would help disabled/handicap people to ride a bike without any worry.

Best bike to learn how to ride **without any fear of disbalance and injuries**.