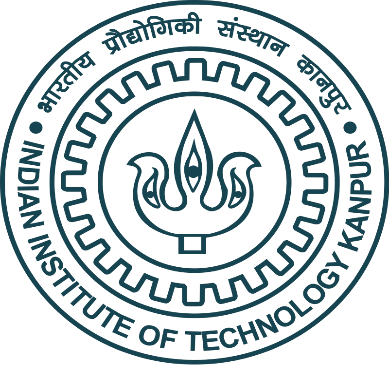
**AUTOMATIC CUTTING AND CHOPPING MACHINE**



**TA212 – MANUFACTURING PROCESS**

**GROUP NUMBER:23**

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**Introduction**

The automatic Cutting and Chopping Machine is used to chop vegetables and fruits into two different sizes either cubic blocks or to chop finely in small pieces. It is a completely automatic machine used for domestic purposes. It is done with help of motor and gears. The motors are driven by a motor driver using arduino and replacing objects is manual.

Various secondary manufacturing processes such as gear formation, drilling, etc, are used in making the machine.

The project will be made close to real life as possible, following the requirements and constraints of the course.

**Parts List**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S No.** | **Part Name** | **Quantity** | **Dimensions**  **(mm)** | **Materials** |
| 1. | Base Plate | 1 | 400 x 300 x 5 | Mild Steel |
| 2. | Pillar | 2 | 50 x 450 x 10 | Mild Steel |
| 3. | Disk | 1 | 95 x 9 | Mild Steel |
| 4. | Spur Gear | 1 | NA | Mild Steel |
| 5. | Bevel Gear | 1 | NA | Mild Steel |
| 6. | Rod | 1 | 400 x 300 x 5 | Mild Steel |
| 7. | Shaft | 2 | 12.7 x 300 | Mild Steel |
| 8. | Guiding Block | 1 | 50 x 50 x35  16(diameter) | Mild Steel |
| 9. | Container | 1 | 75 x 65 x 2 | Mild Steel |
| 10. | L-Shaped Rectangle | 2 | 26 x 26 | Mild Steel |
| 11. | Mesh | 1 | 60 x 50 | Mild Steel |