

## **Machine Room**

The **Machine Room** in a pharmacy college is a specialized laboratory designed to give students hands-on experience with industrial-scale pharmaceutical machinery used in drug manufacturing and processing. This facility plays a key role in helping students understand the practical aspects of pharmaceutical engineering and formulation development. The machine room is typically equipped with various essential machines such as tablet punching machines, capsule filling machines, coating pans, rotary tablet presses, fluidized bed dryers, mixers, blenders, and granulators. These machines simulate real manufacturing processes, allowing students to learn about unit operations like mixing, granulation, drying, compression, and coating. Through demonstrations and supervised operation, students gain insights into equipment functionality, production parameters, troubleshooting, and safety protocols. The machine room also emphasizes Good Manufacturing Practices (GMP) and quality control measures, preparing students for roles in the pharmaceutical production industry. Overall, the machine room is a vital part of pharmacy education, bridging the gap between laboratory-scale formulation and large-scale industrial production.

<b>S. No.</b>	<b>Name</b>	<b>Quantity Available</b>
1	Capsule filling machine	1
2	Automated Single Station Tablet punching machine	1
3	Tablet disintegration test apparatus IP (Digital Single/Double unit)	1
4	Monsanto's hardness tester	2
5	Pfizer type hardness tester	2
6	Friability test apparatus (Digital Single/Double unit)	1
7	Sieve shaker with sieve set	1
8	Ointment filling machine	1
9	All-purpose equipment with all accessories	1
10	Bottle washing Machine	1
11	Bottle Sealing Machine	1
12	Liquid Filling Machine	1
13	Ampoule washing machine	1
14	Ampoule filling and sealing machine (Jet Burner)	1
15	Clarity test apparatus	1
16	Collapsible tube – Filling and Sealing	1
17	Liquid Mixer	1