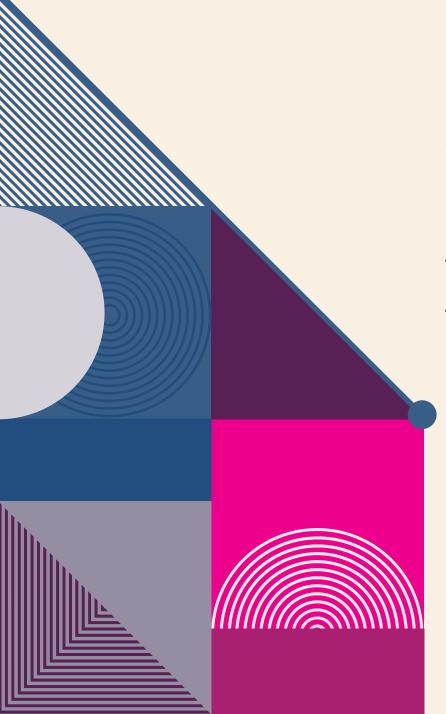


### HOME SCIENCE BA SEM 3 SEWING MACHINE PARTS AND THEIR **FUNCTIONS**

BY SUNAINA GUPTA (ASSISTANT PROF. HOME SCIENCE RR BAWA DAV COLLEGE FOR GIRLS BATALA)



### INTRODUCTION TO SEWING MACHINES

Basic sewing machine: A device used for stitching fabrics.

Types of sewing machines:

- Basic Sewing Machine: Suitable for simple tasks.
- Electric Sewing Machine: Operated electrically for faster stitching.
- Industrial Sewing Machine: Used in factories, high-speed machines.



# COMPONENTS OF A SEWING MACHINE

- Thread Tension Regulator: Controls the tension of the thread to prevent loose or tight stitches.
- **Needle**: Small steel rod that holds the thread and stitches fabric.
- Spool Pin: Holds the thread spool.
- **Bobbin**: A small spool used to hold the bottom thread.



## TYPES OF THREAD AND NEEDLE

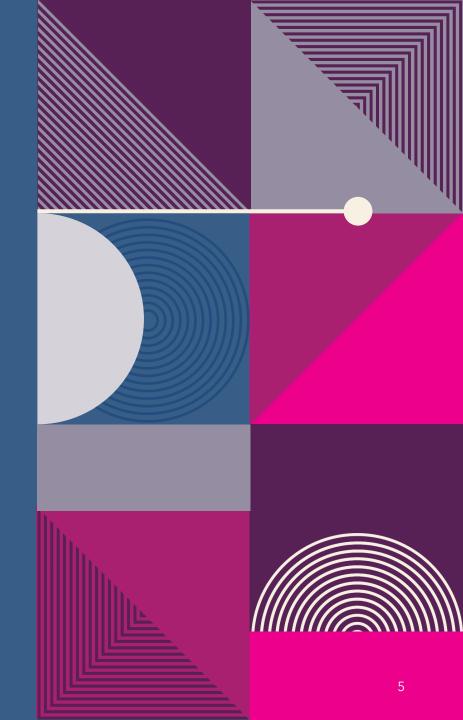
Needle Types: Different needles for different fabric types (e.g., heavy fabrics, delicate fabrics).

Thread Types: Varying thicknesses for different fabric weights.

#### STITCHING PROCESS

Threading the Machine: The thread passes through several parts such as the tension regulator, needle, and bobbin to form stitches.

Needle Plate: A flat plate under the needle where fabric is guided and stitched.





#### TENSION ADJUSTMENT

Adjusting Tension: Use the tension dial to set the appropriate tension. Too tight or too loose can affect the stitching quality.

Setting Thread Tension: Adjust the tension for different fabrics.

#### **MOVING THE NEEDLE**

Needle Movement: The needle moves up and down, creating stitches. Adjusting the speed of the machine affects stitching quality.

Foot Pedal: Controls the speed of the machine, allowing for faster or slower sewing.



#### MACHINE MAINTENANCE

Cleaning the Machine: Regular maintenance to ensure smooth functioning.

Oil the Machine: Apply machine oil to keep parts running smoothly.



#### CONCLUSION

- Importance of Practice: Mastery over stitching techniques comes with practice.
- Exploring Different Machines: Experimenting with various sewing machines can improve sewing skills.

