**Subject: Apparel Manufacturing I Lab**

**Experiment no. 12**

**Experiment name: Study on Continuous fusing press machine.**

**Student Name:**

**Student ID with level & term:**

**Semester:**

**Introduction:** **Continuous fusing press machine:**

**Features:**

* The machine consists of a fusing chamber with continuous belt or feed sheet.
* The heating chamber is controlled by a switch.
* Two pressure rollers are in the fusing chamber and roller pressure are produced by spring or pneumatic power and have condition to increase or decrease of required heat.

**Figure: Continuous fusing machine**

**Working principle:**

* In this machine, interlining is placed between two layers of the fabric and passed to the fusing chamber.
* In fusing chamber, the required heat and pressures are applied.
* Direct heating or indirect heating are applied for heating the interlining.
* After heating, required pressure are applied by two pressure rollers.
* The fusing time is controlled by controlling the speed of feed sheet.
* Then the fabric is taken out from the fusing chamber.

**Advantages:**

* Mostly used in country.
* Higher production.
* Good quality fusing.
* Very suitable for pile fabric using.
* No possibility of fabric shrinkage.

**Disadvantages:**

* High cost.
* Large space required.
* Different bond strength of fused parts.

**Precaution:**

**Conclusion:**