## **IENG301 LABORATORY 5**

**Experiment:** Analysis –Application of Charts and Diagrams for Method Study **Simultaneous Motion Cycle Chart** 

**Objectives:** 

- 1. To study an existing process or a job: recording all the tasks or events that occur during their performance with the help of Simultaneous Motion Cycle Chart.
- 2. To analyze the process: suggestions for the improved method.
- 3. To suggest the proposed method of doing the job or process: recording the tasks or events of the method with the help of Simultaneous Motion Cycle Chart.
- 4. To compare between the existing and the proposed methods: productivity improvement.

## **Preliminary Information:**

**Simultaneous Motion Cycle Chart** can be thought as the extension of the Left Hand-Right Hand Chart, through taking photograph identified by the therbligs required for LHS or RHS and record the time for each therblig. Simo chart is simply a graphic picture of the motions on paper.

While constructing a Simo Chart, you will also need to observe and record basic motions or therbligs. Therefore therbligs are listed below:

Effective	RE-	M-	G-	RL-	PP-	U-	A-	DA-
Therbligs	Reach	Move	Grasp	Release	Preposition	Use	Assembly	Disassembly
Ineffective	SE-	P-	I-	PL-	UD-	AD-	R-	H-
Therbligs	Select	Position	Inspect	Plan	Unavoidable	Avoidable	Rest to	Hold
			_		delay	delay	overcome	

## **Experiment:**

Assume that present method for filling the pin board is as follows:

- 1. Transport Empty: Reach for pin
- 2. Select: Select one pin among those in box. The eyes aid the hand in searching for a particular pin. This searching and then spotting or finding a particular pin is called select
- 3. Grasp: Close thumb and fingers around the pin selected.
- 4. Transport Loaded: Carry pin from tray to hole in board into which it will be inserted.
- 5. Position: Pin is lined up directly over the hole in the board into which it is to be inserted.
- 6. Assemble: Insert pin into hole in board.
- 7. Release Load: Open fingers let go of pin.