



**DIPLOMA IN TEXTILE ENGINEERING
SYLLABUS
PROBIDHAN-2022**

Subject Code	Subject Name	Period Per Week		Credit
5062	CAD & CAM - I	T	P	C
		2	6	4

This course will be conducted by: Rifah Nanziba

Learning Outcome (Theoretical):

- To develop the basic concept of different garments CAD & CAM software and hardware.

Learning Outcome (Practical):

- To acquaint practical knowledge, skill and attitude in the area of different CAD & CAM software and hardware.

Detailed Syllabus (Theory)

Unit	Topics with contents
1	Understand the software & hardware used in garments and fashion industry 1.1 Explain & elaborate the CAD. 1.2 Object the CAD. 1.3 Describe different types of CAD software used in the garments industry. 1.4 Describe different types of CAD hardware configuration 1.5 Describe block creation by CAD software.
2	Understand the digitizing 2.1 Define pattern processing, digitizing & pds. 2.2 Describe the digitizing process of creating production patterns. 2.3 Define edit digitize. 2.4 Describe image creation & manipulation. 2.5 Describe different software key functions.
3	Understand the principles of computer grading 3.1 Define grading.

	3.2 Explain grade rule editor. 3.3 Describe the pattern designing. 3.4 Describe the preparation of grading by CAD software
4	Understand the marker making 4.1 Describe the preparation of the maker by using CAD. 4.2 Describe the marker creation editors. 4.3 Understand the marker making model editors, order editors, order process, auto maker edit, order activity log. 4.4 Describe the preparation of grading by CAD software.
5	Understand the digital pattern conversion & creation in CAD software 5.1 Define amma DXF file (all), MDL file (Lectra), TMP file (Garbar), HPGL & PLT file (all). 5.2 Describe amma DXF file with features. 5.3 Describe HPGL & PLT file.
6	Understand automatic fabric cutting & process control by CAD 6.1 Describe the basic requirements of fabric cutting by cam. 6.2 Identify problems of CAD software. 6.3 Define plotting & cutting. 6.4 Describe marker plot & piece plot. 6.5 Describe the parameters of marker plot & piece plot.
	Total Final Marks: 80

Detailed Syllabus (Practical)

Unit	Topics with Contents	Final Marks
1	Draw the CAD & plotter.	10
2	Draw digitizing board & cursor.	10
3	Draw & identify the different parts of the pattern cutter.	10
4	Make a basic block of shirts by CAD software.	10
5	Make a basic block of pants by CAD software.	10
	Total Final Marks:	50