1	**Name of Course**	**C. C. In Perfume Distillation Unit Operator**	
2	**Max no. of Students**	25	**Course Code - 411172**
3	**Duration**	6 month	
4	**Course Type**	Full Time	
5	**No. of Days per week**	6 days	
6	**No. of hours per day**	7 Hrs	
7	**Space require**	Theory Class Room – 200 sqft Practical Lab – 1000 sqft Total – 1200 sqft	
8	**Entry qualification**	S.S.C. Pass	
9	**Objective of syllabus**	To teach various skills and workmanship practices about Perfume Distillation Unit Operator	
10	**Employment opportunities**	After completion of this training the Participant would be able to: work as Perfume Distillation Unit Operator in Perfume manufacturing industry	
11	**Teachers Qualification**	Diploma / Certificate Course in concern field.	

12] **Teaching Scheme –**

Training System per Week

Theory	Practical	Total
12 Hours	30 Hours	42 Hours

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13] **Examination Scheme –**

Sr	Paper code	Name of Subject	TH/PR	Hours	Max. Marks	Min Marks
1	**41117211**	PERFUME DISTILLATION	Theory - I	3 Hrs	100	35
2	**41117221**	PERFUME FRACTIONAL DISTILLATION	Practical - I	3 Hrs	100	50
3	**41117222**	PERFUME SOLVENT EXTRACTION	Practical - II	6 Hrs	200	100
		Total			400	185

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Perfume Distillation Unit Operator

Perfume Distillation - Theory - I
General awareness on safety, health and first aid. Knowledge on related safety aspects related to the trades and remedies from accident.
Knowledge about perfumery. Fundamentals of essential oil, fragrance & flavour, natural raw materials and synthetic raw materials and its utilities
Knowledge about raw materials on the basis of odour and taste.
Knowledge about raw materials on the basis of volatility.
Information for material handling
Knowledge about distillation unit
Knowledge about packing and its methods
Knowledge about labeling
Knowledge about care & maintenance of distillation unit.
Introduction to fractionation unit and its working procedure
Knowledge about packing and its methods
Knowledge about labeling
Knowledge about care & maintenance of fractionation unit.
Introduction and working procedure of solvent extraction and its accessories
Knowledge about care & maintenance of solvent extraction unit.

Perfume Fractional Distillation - Practical – I
Practice on general safety, health & hygiene and first aid. Safety aspects related to the trades
Identification of different types of raw materials and its utilities.
Procurement as per classification of raw materials on the basis of odour and taste
Procurement as per classification of raw materials on the basis of volatility.
Practice on collection of materials & handling
Demonstration on distillation & working methodology. Demonstration on distillation unit
Packing of material and handling & storing.
Practice on Labeling
Routine maintenance practice of distillation unit.
Demonstration on fractionation & its working. Demonstration on fractionation unit
Routine maintenance practice of fractionation unit.

Perfume Solvent Extraction - Practical - II
Practice on general safety, health & hygiene and first aid. Safety aspects related to the trades
Identification of different types of raw materials and its utilities.
Procurement as per classification of raw materials on the basis of odour and taste
Procurement as per classification of raw materials on the basis of volatility.
Practice on collection of materials & handling
Demonstration on distillation & working methodology. Demonstration on distillation unit
Packing of material and handling & storing.
Practice on Labeling
Routine maintenance practice of distillation unit.
Demonstration on solvent extraction & working methodology. Demonstration on solvent extraction unit.
Routine maintenance of solvent extraction unit

Tools & Equipments :-

1 Working model of electrically operated distillation unit 1 no
2 Weighing balance 2 no
3 Container 10 nos
4 Small Compressor unit 1 no
5 Electrically operated Water bath 1 no

Demonstration to be given in related Industries on the following equipments
1 Reaction unit (Lab scale)
2 Water dematerializing unit
3 Hydro-steam (Field distillation) distillation unit
4 Hydro distillation unit
5 Deep freezer
6 Electrically operated Steam boiler
7 Glass line reactor
8 Chilling plant
9 Reaction unit (pilot plant)
10 Cooling tower
11 Catalytic hydrogenation apparatus
12 Disintegrator

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