

CERTIFICATE COURSE

CPCC79 - COSMETICS AND SANITARY FORMULATIONS: PRODUCTION, QUALITY CONTROL AND MARKETING

The certificate course was conducted for BSc Chemistry students (2022 & 2023 Admission students).

Students were given training on the theory and manufacture of following products

1. Beauty soap
2. Powder detergent
3. Liquid detergent
4. Hand wash
5. Floor cleaner
6. Pain balm

Students prepared these products and later sold these products under the brand name CheLuv (chemistry with Love) Certificates were distributed and an exhibition was also conducted in the College protico.







Science Centre

Kokkanattukunnu, Methala
Kodungallur-680 669

Mob : 9446 08 34 25

E-mail : sciencecentrekodungallur@gmail.com

AXIS Bank, Kodungallur
A/c No. : 918010040353648
IFSC Code : UTIB0002583

Bill No **009**

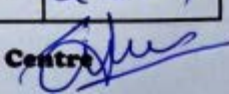
Date **5/9/23**

CASH BILL

To Principal Cust Collage Mob :

Sl No.	Description of Goods	Qty	Rate	Amount
	Soap kit	1	60	60
	Coconut oil	1 lb	150	150
	Detergent kit	1	280	280
	Hand wash	1	200	200
	Dish wash	1	200	200
	Floet Cleanb	1	203	203
	Dish wash bottle	16	109	109
	Floet Cleanb bottle	20	109	109
	Hand wash bottle with pump	12	300	300
	Tripurant Soapkit	1 kg	200	200
	Balm kit	1	150	150
	Soap mould	2	900	900
TOTAL				2851

For Science Centre



Total no. of products = 163

Total selling = $163 \times 40 = 6520$ /-

Profit = $6520 - 1878.559$
= 4641.441 /-

①

Pain Balm

Petroleum Jelly (2kg)	= $190.60 \times 2 \Rightarrow 381.2$
Menthol	= 254.24
Camphor oil	= 161.017
Eucalyptus oil	= 161.017
Lemon Grass	= 186.441
Methyl salicylate	= $52.322 \times 2 \Rightarrow 104.644$
Balm Jar [300 pcs / 1.50/-]	= 450 /-
Sticker	= 180
Total	= <u>1878.559</u>

Total no. of products $\Rightarrow 80 \text{ cl} + 80$
= 160.

Ist Batch, = $80 \times 80 = 6400$
= $85 \times 80 = 6800$
(cl)

Total = 13200

Profit $\Rightarrow 13200 - 5278.813$
= 7922

②

Soap Powder

Soda Ash (50 kg)	= 1600
Sodium Sulphate (25 kg)	= 635.590
Salt (25 kg)	= 374.613
Acid slurry (12.5 kg)	= 1588.975
Granules (1 kg)	= 250
Perfume (250g)	= 317.797
Total weight	= 113.75 kg
Chlorine (1 kg)	= 33.898
Cover (1 1/4 kg)	= 478
Total price	= <u>5278.813</u>
Total weight	= 114.75

Total no. of products = 45 (1 Ltr)

Total weight = 50 (Ltr)

Total expense = 3294.685

50 Ltr → 3294.685

1 Ltr → 65.893

Price of 45 bottle → 2965.185/-

130/- for 1 Ltr

price of 45 bottle (130/-) = 5850

Profit = 5850 - 3294.685
= 2555.315

(4)

Detergent liquid

1 Litre bottle (63 pcs) = (16.67 / per pcs) ⇒ 1232/-

Salt 001 Salt (1kg) = 10/-

Sles 25% godrej = 483.048/-

Plastic can (10 Ltr) = 50.841/-

Labsa HMW = 406.779/-

2.5 Ltr plastic can = 16.549/-

Aoso 50 Alpha olefin = 162.542/-

Plantacave 1200 = 162.642/-

Detmer (polymer) = 30/-

Sc- Blue Rise = 317.726/-

Phenoxy ethanol = 60.841/-

Arrow kleen = 216.102/-

KBC Baillant = 57.80/-

Tinopal CB6X = 87.796

Selling Price (1 Ltr) = 130

Compulsory Certificate Program (BSc Chemistry-Semester 1)

DEPARTMENT OF CHEMISTRY, CHRIST COLLEGE (AUTONOMOUS), IRINJALAKUDA

NAME: COSMETICS AND SANITARY FORMULATIONS: PRODUCTION, QUALITY CONTROL AND MARKETING

The Certificate Program in Sanitary and Cosmetic Formulations covers the chemistry of cosmetic science and sanitary formulations. Enables the student to start a small-scale industry with knowledge on costing, production and marketing. The program also covers the essential skills required for quality control of such products.

DURATION

Span- Three months: Hours: 50

PROGRAM OUTCOMES

PO1: Classify and define Cosmetics and Cosmeceuticals as per Indian and EU regulations

PO2: Describe the role of ingredients in the formulation of cosmetics

PO3: Explain the fundamentals of soaps and detergents.

PO4: Better understanding of Floor cleaners and Toilet cleaners

PO5 Understand basic tests and how to create some basic formulations

SYLLABUS THEORY (30 HOURS)

MODULE 1: SOAPS AND DETERGENTS

History of Soap, Different types of soaps, cleansing action of soap.

Detergents, Classification, Advantages of detergents over soaps, Environmental effects of detergents

MODULE 2: PAIN BALM, SHAMPOOS, FACE CREAM, LIP BALM

Composition of Sanitizer, pain balm, Face cream, lip balm, and Shampoos

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Different types of shampoos

MODULE 3: FABRIC STIFFENER, DISH WASHES AND HAND WASHES

Composition of fabric stiffener, Dish washes different types and its formulations,

MODULE 4: TOILET CLEANER, FLOOR CLEANER

Composition of toilet cleaner, Different types,

Different types of floor cleaner

Chlorine based, Solvent based, Phenol based and Pine oil based floor cleaner

MODULE 5: TESTING, TOXICOLOGY EFFECTS OF COSMETICS BASIC

CHARACTERIZATION OF SOAPS

TFM Value, Acid value, Iodine value, Saponification Value

MODULE 6: COSTING & MARKETING

Costing: Definition - Meaning and scope-Cost classification - Elements of cost-Preparation of Cost sheet.

Marketing Management-Introduction, Definition-Role & Importance-4Ps of Marketing, Segmentation, Target Marketing, Product Positioning, Product-Packaging, Branding, Price, Promotion, Advertising, Personal selling, Sales promotion, Distribution, Distribution Channels, Different types of distribution intermediaries

PRACTICALS -PRODUCTION (10 HOURS)

Hands on training for the preparation of the following formulations

- Different types of Soaps and Detergents
- Pain Balm ,Shampoos, Lip balms, Face creams,
- Fabric Stiffener, Dish Washes And Hand Washes
- Toilet Cleaner, Floor Cleaner

PRACTICALS -MARKETING (10 HOURS)

- Preparation of flyers, posters and videos
- Conduction of sales exhibition



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Certificate

This is to certify that


P. S. NANDAGOPAN (CCAXSCH045)

of BSc Chemistry 2023 Admission has completed the Certificate Course in
**COSMETICS AND SANITARY FORMULATIONS:
PRODUCTION, QUALITY CONTROL AND MARKETING** with A⁺ Grade.

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Dr. Rani Varghese
(Head of the Department)




Fr. Dr. Jolly Andrews CMI
(Principal)

Irinjalakuda
12th December 2023



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AMRUTHA JOBY (CCAXSCH044)

of BSc Chemistry 2023 Admission has completed the Certificate Course in
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MALAVIKA .K.R (CCAXSCH043)

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ATHUL.T.S. (CCAXSCH042)

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LAKSHMI . A . D (CCAXSCH041)

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GOURI . K . R (LLAXSCH040)

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ADITH DASAN (CCASCH039)

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ROOPIKA . M (CCAXSCH038)

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NIRANJANA . E.U. (CCAXSCH037)

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GOPIKA. P (CC4X5CH036)

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ARSHA ROSE.P.V (CCAXSCH035)

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AYSHA THASNEEM. A.A (CC4XSCH034)

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LITHIN.P.R (CCAXSCH033)

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KIRAN PAULY (CCA X SCH 032)

of BSc Chemistry 2023 Admission has completed the Certificate Course in
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NANDHANA . M.V (CCAXSCH031)

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SNEHA JOBI (LCAXSCH028)

of BSc Chemistry 2023 Admission has completed the Certificate Course in
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MANJIMA C.M (CCAXSCH029)

of BSc Chemistry 2023 Admission has completed the Certificate Course in
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OLIN MARIA JOSE (CLAXSCH030)

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DAISY DAVIS (CCARSCH027)

of BSc Chemistry 2023 Admission has completed the Certificate Course in
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ADITHIAN . O.P (CCAXSCH026)

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ABISHEK SATHYAN.C (CCAXSCH025)

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ATHULA SALIM (CCAXSCH1024)

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ALFIDHA MEHAR P (CCAXSCH023)

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KARTHIKA . K . NAIR . (CCAXSCH022)

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ANEXY NIXON (CCASCH021)

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SARANGI. S (CCAXSCH020)
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ANJALA ANTO (CCAXSCH019)

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ABHIRAMI P.B (CCAXSCH018)

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(Head of the Department)




Fr. Dr. Jolly Andrews CMI
(Principal)

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MARIA MATHAI (CLAXSCHOOR)

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ARYA - A (CLAXSCH006)

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