

Courses of Study

2019-20

B.Sc. Cosmetic Science

IILP

School of Fashion Design and Beauty Cosmetology

Semester	Course I				Course II				Course III				Course IV				Course V				Course VI				Course VII				Course VIII				L	T	P	C	Contact Hours
	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C					
I	TXFE101				TXCO101				TXCO102				TXCO103				TXCO104				TXCO111				TXCO112				TXCO113								
	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	0	2	0	2	0	0	4	2	0	0	4	2	0	0	4	2					
	PC				PC				PC				PC				PC				PC				UC												
	Contemporary English I				Cosmetic Chemistry I				Product Development I				Quality Assurance I				Dermatology I				Cosmetic Chemistry I L				Product Development I L				Quality Assurance I L				14	0	6	20	20
II	TXFE201				TXCO201				TXCO202				TXCO203				TXCO204				TXCO211				TXCO212				TXCO213								
	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	0	0	4	2	0	0	4	2	0	0	4	2					
	PC				PC				PC				PCE1				PC				PC				UC												
	Contemporary English II				Cosmetic Chemistry II				Product Development II				Quality Assurance II				Dermatology II				Cosmetic Chemistry II L				Product Development II L				Quality Assurance II L				14	0	6	20	20

School of Fashion Design and Beauty Cosmetology

Semester	Course I				Course II				Course III				Course IV				Course V				Course VI				Course VII				Course VIII				L	T	P	C	Contact Hours								
	TXFE101				TXCO101				TXCO102				TXCO103				TXCO104				TXCO111				TXCO112				TXCO113																
I	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	14	0	6	20	20
	3	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	2	0	0	2	0	0	4	2	0	0	4	2	0	0	4	2													
PC				PC				PC				PC				PC				PC				UC																					
Contemporary English I				Cosmetic Chemistry I				Product Development I				Quality Assurance I				Dermatology I				Cosmetic Chemistry I L				Product Development I L				Quality Assurance I L																	
II	TXFE201				TXCO201				TXCO202				TXCO203				TXCO204				TXCO211				TXCO212				TXCO213				14	0	6	20	20								
	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C	L	T	P	C													
3	0	0	3	3	0	0	3	3	0	0	3	3	0	0	3	2	0	0	2	0	0	4	2	0	0	4	2	0	0	4	2	0	0	4	2										
PC				PC				PC				PCE1				PC				PC				UC																					
Contemporary English II				Cosmetic Chemistry II				Product Development II				Quality Assurance II				Dermatology II				Cosmetic Chemistry II L				Product Development II L				Quality Assurance II L																	

Rysooj
Programme co-ordinator

Mendait
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Rysooj
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Registrar 16/7/19

School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year
Course: : Cosmetic Chemistry I(Theory)

Semester: I
Course Code: TXCO101

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	0	-	3	20	20	10		-	100	-	100
Max. Time, End Semester Exam (Theory) - 3Hrs.											

Prerequisite	<ol style="list-style-type: none"> 1. Introduction and basic concepts of Chemistry. 2. Basic concepts and raw materials used in the cosmetic preparation.
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Course Objectives

The students will be familiar with the physical and chemical properties and reactions of commonly used raw materials in cosmetics.

Students will be familiar with chemistry (especially the reactivity and stability of an organic molecules based on structure and isomerism) of commonly used chemicals.

They will know common natural raw materials, especially the basic functional group involved, their physical and chemical properties and their applications.

Course Content

Unit No.	Content	Hours
1	Hydrocarbons (Saturated) Alkanes, Tetrahedral nature of carbon, SP ³ hybridisation, preparation and reaction of Alkanes, isomerism, liquid paraffin, hard paraffin, cycloalkanes, its role in cosmetic industry. Hydrocarbons (Unsaturated) .Alkenes SP ² Hybridisation, preparation of alkenes, properties and chemical reaction, Markownikowff Rules, Cis-trans isomerism, Dienes. Alkenes SP – hybridization, preparation, properties, reactions of acetylene, its role in cosmetic industry.	10
2	Carbohydrates-Definition , classification and general identification tests. Starches-Wheat, maize, rice, potato and their cosmetic application, Recent sophisticated derivatives available in market and their merits over traditional starches.	10



3	Lipids- Definition , classification and general identification tests. Study of criteria for selection of oils in formulation.	15
4	Oils-Castor, linseed, olive, sesame ,coconut, arachis oil. Study of different oils available in market.	6
Total No. of Hrs		60

Recommended Resources

Text Books

1. Text book of Pharmacognosy – Trease and Evan’s
2. Pharmacognosy– Claus and Taylor.
3. Text Book of Pharmacognosy – T. E. Wallis.
4. MateriaMedica – By Nadkarni
5. Pharmaceutical Formulation – B. M Mitthal

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School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year
Course: Product Development I

Semester: I
Course Code: TXCO102

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	-	0	3	20	20	10			100		100
Max. Time, End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> 1. Basic concepts of product formulation. 2. Introduction of different raw materials and basic concepts in product formulation.
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Course Objectives

1. At the end of this course, students will be familiar with the basic concepts of cosmetics. They will know the theoretical aspect of basic formulations and for commonly used additives in cosmetic formulations.

Course Content

Unit No.	Content	Hours
1.	Surfactants- Introduction, physical and chemical properties, its types, HLB scale, its application in cosmetics. Review of commercialized surfactants.	15
2.	Preservatives—Introduction, properties, types, significance, partition coefficient phenomenon, review of individual and blended commercial preservatives.	15
3.	Hydrocolloids-Introduction, chemistry, its types, different roles in formulations, different categories of hydrocolloids, review of commercialized hydrocolloids.	15
4.	Emulsion- Introduction, types of emulsion, identification test for emulsion, formulation of emulsion, choice of emulsifying agents, selection of other additives in the emulsion, evaluation of emulsion.	10
5.	Suspension- Introduction, types of suspension, formulation of suspension, evaluation of suspension.	05
Total No. of Hrs		60



Recommended Resources

Text Books

1. New Cosmetic Science by Takeo Mitsui
2. Harrys Cosmetology
3. Cosmetic Science and technology by Sagrin C.B4) Handbook of Cosmetic Science and technology by Marc paye, Andre. O. Barel.
4. Cosmetic- Formulation, manufacturing and quality control by P.P. Sharma.

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School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: I

Course: Quality Assurance I

Course Code: TXCO103

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	0	0	3	20	20	10			100		100
Max. Time, End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> Basic concepts of Microbiology. Basic concepts of chemical calculations.
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Course Objectives

- At the end of this course, students will be familiar with mandatory chemical and microbiological Quality requirement of naturals and ayurceuticals in Cosmetic Industry.

Course Content		
Unit No.	Content	Hours
1	Introduction to microbiology: Microbiology and origin of life, group of microorganisms, applied areas and applications of microbiology. Classification of microbes, Classification on the basis of oxygen requirements. Structure of bacterial cell. Classification of bacteria- Characterization, classification, Introduction to concept of sterilization and its significance.	10
2	BIS, its role in quality maintenance of cosmetics. Review of BIS of commonly employed raw materials and finished products.	10
3	Titrimetric analysis, classification of reactions in titrimetric analysis- standard solutions, equivalents, normalities and oxidation numbers. Preparation of standard solutions, primary and secondary standards.	15
4	Chemical calculations: Mole concepts: Mole atom, mole molecule, atomic weight, molecular weight, equivalent weight, relationship between molecular weight and equivalent weight. Concentration units- molarity, molality, percentage, (w/w, w/v, v/v) strength, weight fraction, mole fraction.	15
5	Analytical chemistry- Definition, scope, functions of analytical chemistry, analytical methods, procedures and techniques, Importance	10



	of analytical chemistry, Criteria for selection of method of analysis, Role of instrumentation.	
	Total No. of Hrs	60

Recommended Books	<p>1) Microbiology by Michael.J. Pelczar, J.R.,E.C.S Chan and Noel kreig.</p> <p>2) Microbiology by Ananthnarayan</p> <p>3) Microbiology: A textbook of university students by Sharma P.D.</p> <p>4) Fundamentals of analytical chemistry-Skoog D.A and West D.M.Saunders,College Publication</p> <p>5) Principle and practice of analytical chemistry-Fifield F.W and kealyD,Blackwell science.</p>
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Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: I

Course: Dermatology I

Course Code: TXCO104

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
2	0	0	2	20	20	10			100		100
Max. Time,End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	1. Basic concepts of Research
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Course Objectives

- At the end of this course, students will be familiar with mandatory chemical and microbiological Quality requirement of naturals and ayurceuticals in Cosmetic Industry.

Course Content		
Unit No.	Content	Hours
1	Detailed knowledge of structure and function of skin	15
2	Detailed knowledge of structure and function of Hair. Study of hair growth cycles Study of defects in hair shaft	15
3	Structure, mechanism, functions of Sweat gland	10
4	Skin layer formation by keratinisation	10
5	Structure, mechanism, functions of sebaceous gland	10
Total No. of Hrs		60



Resources

Recommended Books	<ol style="list-style-type: none">1. Fransis – Introduction to Human Anatomy.2. Ross and Willson- Human Anatomy and Physiology.
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Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		

School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: I

Course: Product Development I-L

Course Code: TXCO112

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)	End Semester Examination		Total
L	T	P	C	Lab	Theory	Lab	
0	0	4	2	25	0	25	100
Max. Time,End Semester Exam (Theory) -3Hrs.					End Semester Exam (Lab) – 3Hr		

Objectives

The students will be aware of quality control methods applicable to commonly used raw material and finished products.

Unit Number	Details	Hours
1	Preparation of basic product forms a) Emulsion b) Suspension c) Monophasic formulation	16
2	Preparation of formulations using oils, waxes, fats, higher alcohols a) Oils b) Ointments c) Creams	16
3	Preparation of formulations using surfactants a) Shampoo b) Bodywash	08



	c) Handwash	
4	Preparation of formulations using hydrocolloids a) Face packs b) Facemasks c) Toothpaste	08
	Total Hrs	48

Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Course: : Quality Assurance I-L

Semester: I

Course Code: TXCO113

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)	End Semester Examination		Total
L	T	P	C	Lab	Theory	Lab	
0	0	4	2	25	0	25	50
Max. Time, End Semester Exam (Theory) - 3Hrs.							

Prerequisite	<ol style="list-style-type: none"> 1. Introduction and basic concepts of Chemistry. 2. Basic concepts and methods for synthesis of chemicals.
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Course Objectives

- 1 The learners will acquire comprehensive knowledge of cosmetic bases and factors affecting their physical properties, chemical properties and stability.
- 2 The students will get clear understanding of the concepts of rheology, micromeritics and dispersion techniques.

Course Content

Unit No.	Content	Hours
1	Study of various instruments used in Microbiology 1) Compound microscope(Light and dark microscopy) 2) Study of pH meter and centrifuge 3) Study of autoclave, hot air oven, Incubator, bacteriological filters	12
2	Cleaning and preparation of glassware for sterilization	4



3	Standardization of volumetric apparatus and Preparation of standard solutions, stock solutions as per Indian Pharmacopoeia. a) Determination of exact normality of sodium hydroxide and find strength of hydrochloric acid. b) To prepare standard solution of oxalic acid and to standardize approximately 0.05 N KMnO ₄ solution	8
4	Basic qualitative and quantitative analysis of any two herbs according to indian cosmetic regulation.	4
5	Basic qualitative and quantitative analysis of creams as per BIS.	8
	Total no. of Hrs	48

Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year
Course: Cosmetic Chemistry II

Semester: II
Course Code: TXCO201

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	0	0	3	20	20	10			100		100
Max. Time, End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> 3. Basic concepts of quality assurance and testing of finished products and raw materials. 4. Introduction of different instrumental analysis and chemical analysis of raw materials and finished products.
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Course Objectives

- 1** At the end of this course, students will be familiar with the basic concepts of cosmetics and will understand commonly used cosmetic bases. The student will study basics of different bases used in formulations.

Course Content

Unit No.	Content	Hours
1.	Solutions: Raoult's law, and its application, molecular weight determination by measuring vapour pressure, Boiling Point. & freezing point.	15
2.	Chemical kinetics: Introduction, molecularity, order and rate of reaction. Kinetics of first and second order reaction, their characteristics and some methods of determination.	15
3.	pHmetry: pH and hydrogen ion concentration, pH calculation for weak acids and weak bases. Buffer solutions and types, mechanism of buffer action of acidic and basic buffers. Theories of acid base indicators.	15
4.	Chemical kinetics: Introduction, molecularity, order and rate of reaction. Kinetics of first and second order reaction, their characteristics and some methods of determination.	10
5.	Phase rule: Phase rule, the terms involved in it and applications to one component system, water and sulphur system. Introduction to two component systems.	5
Total No. of Hrs		60



Recommended Resources

Text Books

- 1) Pharmaceutical analysis: KastureVadodkar
- 2) Pharmaceutical analysis:P.D.ChaitanyaSudha
- 3) Quantitative Analysis: Vogel

Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: II

Course: Product Development II

Course Code: TXCO202

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	0	0	3	20	20	10			100		100
Max. Time, End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	5. Study of herbs, extraction and standardisation of herbal actives. 6. Cosmetic applications of herbs.
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Course Objectives

- At the end of this course, students will be familiar with mandatory chemical and microbiological Quality requirement of naturals and ayurcetics in Cosmetic Industry.

Course Content		
Unit No.	Content	Hours
1	Study of monophasic liquid formulations Techniques of enhancing solubilities of ingredients in vehicles, other problems involved in preparation and stability of liquid with special emphasis on spray. Study of recent new Solubilizers in marketed formulations.	15
2	Study of biphasic liquid formulations Emulsions and suspensions. Emulsions-types, identification of emulsions, preparation, physical and chemical stability studies in detail. Review of marketed formulations based on biphasic liquid formulations.	15
3	Suspensions-Flocculated and non-flocculated suspensions, selection of wetting suspending and dispensing agents, preparations and stability. Recent stability parameters of emulsion and suspension. Review of marketed formulations based on suspensions.	10
4	Semisolid formulations Ointments-Introduction, physical and chemical properties of ointment, types of ointment bases, selection of ideal bases, preparation, stability and packaging. Review of marketed formulations based on ointments.	10
5	Paste-Introduction, physical and chemical properties of paste, types of bases in paste, preparation, stability and packaging. Review of marketed formulations based on pastes.	10
	Total No. of Hrs	60



Recommended Books	1) New Cosmetic Science by Takeo Mitsui 2) Harrys Cosmetology 3) Cosmetic Science and technology by Sagrin C.B 4) Handbook of Cosmetic Science and technology by Marc paye, Andre. O. Barel.
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Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		

School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: II

Course: Quality Assurance II

Course Code: TXCO203

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	0	0	3	20	20	10			100		100
Max. Time,End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> Study of herbs, extraction and standardisation of herbal actives. Cosmetic applications of herbs.
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Course Objectives

- At the end of this course, students will be familiar with mandatory chemical and microbiological Quality requirement of naturals and ayurcetics in Cosmetic Industry.

Course Content		
Unit No.	Content	Hours
1	Argentometric titrations, Gayiusac, Volhards, Mohrs andfujan method, Mercuric nitrate titration.	15
2	Determination & significance of acid value, saponification value, iodine value,ester value.	15
3	Complexometric titrations, concept of complexation and chelation, coordination number stability constant, titration curves, metal ion indicator, masking and demasking agents, types of complexometric titration and its application in cosmetics.	10
4	Cultivation of bacteria: Nutritional requirements, types of bacteriological media nutritional types of bacteria, physical conditions requirement of bacteria.	10
5	Isolation of bacteria-Selective methods of isolation, isolation of pure culture. Techniques, cultural characteristics, staining techniques, methods of maintenance and bacteria and culture collections.	10
	Total No.of Hrs	60



Recommended Books	1) Microbiology by Michael.J. Pelczar, J.R.,E.C.S Chan and Noel kreig. 2) Microbiology by Ananthnarayan 3) Microbiology: A textbook of university students by Sharma P.D. 4) Fundamentals of analytical chemistry-Skoog D.A and West D.M.Saunders,College Publication 5) Principle and practice of analytical chemistry-Fifield F.W and kealyD,Blackwell science.
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Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: II

Course: Dermatology II

Course Code: TXCO204

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	T	P	C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab	
3	0	0	3	20	20	10			100		100
Max. Time, End Semester Exam (Theory) -3Hrs.									End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> 1. Basic concepts of Microbiology. 2. Basic concepts of chemical calculations.
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Course Objectives

- 1 At the end of this course, students will be familiar with mandatory chemical and microbiological Quality requirement of naturals and ayurceuticals in Cosmetic Industry.

Course Content		
Unit No.	Content	Hours
1	Immunologic response of Skin	10
2	Hypersensitivity and allergenicity of Skin	10
3	Disorders of sebaceous gland-Acne, rosacea, perioral dermatitis	15
4	Disorders of eccrine and apocrine glands	15
5	Disorder of hair:hair loss and hairshaft defects.	10
	Total No. of Hrs	60



ResourcesRecommended
Books

1. Fransis – Introduction to Human Anatomy.
2. Ross and Willson- Human Anatomy and Physiology.

Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: II

Course: Cosmetic Chemistry II L

Course Code: TXCO211

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)	End Semester Examination		Total
L	T	P	C		Theory	Lab	
0	-	4	2	Lab 25		25	50
Max. Time, End Semester Exam (Theory) -3Hrs.					End Semester Exam (Lab) – 2Hr		

Prerequisite	7. Basic concepts of product formulation. 8. Introduction of different raw materials and basic concepts in product formulation.
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Course Objectives

- At the end of this course, students will be familiar with the basic concepts of cosmetics. They will know the theoretical aspect of basic formulations and for commonly used additives in cosmetic formulations.

Course Content		
Unit No.	Content	Hours
1.	Organoleptic study of talc. Perform quality test as per BIS.	15
2.	Morphological study and identification of following tannin containing agents: a. Amla b. Behra c. Hirada d. Ashoka Bark.	15
3.	Organoleptic study and identification of a. Benzoin b. Storax.	15
4.	Study the phenol – water two phase systems and determine the critical temperature of the system.	7
5.	Study of partition of iodine between Carbon Tetrachloride and water and determine the partition coefficients of iodine between the two solvents.	8
Total No. of Hrs		60



Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		



School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: II

Course: Product Development II L

Course Code: TXCO212

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)	End Semester Examination		Total
L	T	P	C		Theory	Lab	
0	-	4	2	Lab 25		25	50
Max. Time, End Semester Exam (Theory) -3Hrs.					End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> 1. Basic concepts of product formulation. 2. Introduction of different raw materials and basic concepts in product formulation.
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Course Objectives

- 1 At the end of this course, students will be familiar with the basic concepts of cosmetics. They will know the theoretical aspect of basic formulations and for commonly used additives in cosmetic formulations.

Course Content		
Unit No.	Content	Hours
1.	Preparation of monophasic liquid formulations. a) Tonics b) Astringents c) After shave lotion.	15
2.	Preparation of biphasic liquid formulations a) Vanishing cream b) Cold cream c) Massage cream	15
3.	Preparation of paste a) Toothpaste b) Facepack c) Foundation	7
4.	Preparation of sticks A) Deodorant sticks	15



	b) Lipstick c) Lipbalm	
5.	Preparation of Powder a)Dusting b)face powder c)Talcum Powder	8
	Total No. of Hrs	60

Document Reference No	Revision No./Date	Prepared by	Approved By
SUN /SOFDBC/COSMO/06/2019	06/8/2019		

School of Fashion Design and Beauty Cosmetology

First Year B.Sc. Cosmetics Science (IILP)

Year: First Year

Semester: II

Course: Quality Assurance II L

Course Code: TXCO213

Teaching Scheme (Hrs/Week)				Continuous Internal Assessment (CIA)	End Semester Examination		Total
L	T	P	C		Theory	Lab	
0	-	4	2	Lab 25		25	50
Max. Time, End Semester Exam (Theory) -3Hrs.					End Semester Exam (Lab) – 2Hr		

Prerequisite	<ol style="list-style-type: none"> Basic concepts of product formulation. Introduction of different raw materials and basic concepts in product formulation.
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Course Objectives

- At the end of this course, students will be familiar with the basic concepts of cosmetics. They will know the theoretical aspect of basic formulations and for commonly used additives in cosmetic formulations.

Course Content		
Unit No.	Content	Hours
1.	Quality testing of Toothpaste as per BIS.	15
2.	Quality testing of any two herbs as per recent cosmetic regulation.	15
3.	Construction, operation and utility of anaerobic jar and laminar air flow	15
4.	Preparation and standardization of Sodium EDTA. Assay based on EDTA.	7
5.	Gravimetric analysis: Experiments based on gravimetric analysis	8
Total No. of Hrs		60



Document Reference No	Revision	Prepared by	Approved By
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