Courses of Study

2019-20

B.Sc. Cosmetic Science

IILP

(III & IV Sem)

Semester				Course I				Course II				Course III				Course IV				Course V				Course VI				Course VII	Course VIII				L	Т	P	С	ontact Hours
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Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: III

Course: Advance Cosmetic Chemistry I Course Code: TXCO301

	Teaching Scheme (Hrs/Week)			Contin	uous Inte	ernal Ass	sessment	End Sei Examii		Total		
L	L T P C		C	CIA-1	CIA-2	CIA-3		Lab	Theory	Lab		
3	0	0	3	20	20	10			100		100	
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) -											

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.	Introduction, Types, Study of Functional group involved, mechanism of action, Safety aspects, Factors for Choice of actives, Estimation of efficacy by instrumental methods. Detailed study of recent five examples of Antiaging and Whitening agents.	15
2.	Introduction, Types, Study of Functional group involved, mechanism of action, Safety aspects, Factors for Choice of actives, Estimation of efficacy by instrumental methods. study of five examples of Hairgrowth promoters and antidandruff agents.	15
3.	Introduction, Types, Study of Functional group involved, mechanism of action, Safety aspects, Factors for Choice of actives, Estimation of efficacy by instrumental methods Detailed study of five examples of Polymers and Silicones.	10
4.	Morphological Study, Organoleptic Study and identification of Ginseng, Centella Asiatica Indigo Tinctofera, Lawsonia Inermis with its Cosmetic Application. Review of Cosmetic regulations for the same.	10
	Total No. of Hrs	50





Resources	
Recommended Books	1. Text book of Pharmacognosy – Trease and Evan's
	2. Pharmacognosy – Claus and Taylor.
	3. Text Book of Pharmacognosy – T. E. Wallis.
	4. Materia Medica – By Nadkarni.
	5.Wealth of India – CSIR
	6. Pharmacognosy – Dr. Kokate
	7.Naturals and Cosmetics – Dr. Satish Sakharwade





Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: III

Course: Advance Product Development I Course Code: TXCO302

	Teaching Scheme (Hrs/Week)			Contin	uous Inte	ernal Ass	sessment	End Sei Examii		Total	
L	T	PC		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) – 2										m (Lab) – 2Hr	

Duamaguigita	1. Study of herbs, extraction and standardisation of herbal actives.
Prerequisite	2. Cosmetic applications of herbs.

Course Objectives

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

	Course Content	
Unit No.	Content	Hours
1	Skin products for babies; Introduction, skin problems in babies, functional requirements of baby products, safety of baby products, examples, formulations.	15
2	Soaps; Manufacturing technology, ingredients, and types of soaps. Bath preparations; Introduction, formulation of foam baths,types of products, product assessment, bath salts, ingredients and formulations.	5
3	Skin and hair Bleach; Formulation aspects.	10
4	Bath oils; Introduction, floating and spreading oils, dispersible or blooming oils, soluble oils, foaming oils. Body Oils-Introduction, types, review of ayurvedic methods to infuse natural ingredients Applications. Facial Oils- Introduction, types, review of ayurvedic methods to infuse natural ingredients Applications.	10
5	Skin products for babies; Introduction, skin problems in babies, functional requirements of baby products, safety of baby products, examples, formulations.	5
	Total No. of Hrs	45





December de d	1) New Cosmetic Science by Takeo Mitsui
Recommended Books	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.





Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: III

Course: Advance Quality Assurance I Course Code: TXCO303

	Teaching Scheme (Hrs/Week)			Contin	uous Inte	ernal Ass	sessment	End Sei Examir		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 (Lal										m (Lab) – 2Hr	

Course Objectives

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

No.	Content	Hours
1	Ultraviolet and visible spectroscopy	5
2	Flame photometry; General principles and determination of metal ions like alkali and alkaline earth metals.	10
3	Chromatography; General principles, type-columns, paper, thin layer, Introduction to gas and high pressure liquid chromatography.	10
4	Polarimetry; General principles, apparatus, application in the determination of specific rotation of substances.	10
5	Potentiometry; Instrumentation, types, advantages of potentiometric titration	10
	Conductometry; Principles, instrumentation and applications. Total No.of Hrs	4.5
		45





Recommended	 Microbiology: A textbook of university students by Sharma P.D. Fundamentals of analytical chemistry-Skoog D.A and West D.M.Saunders, College
Books	Publication
	3) Principle and practice of analytical chemistry-Fifield F.W and kealyD,Blackwell science.





Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: III

Course: Advance Dermatology I Course Code: TXCO304

	Teaching Scheme (Hrs/Week)			Contin	uous Inte	ernal Ass	sessment	End Ser Examin		Total		
L	L T P C		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) – 2											m (Lab) – 2Hr	

Course Objectives

1 The students will acquire treatments for skin and hair defects, the underlying mechanism and ways to perform it.

Resour	rces		
		1) Fransis – Introduction to Human Anatomy.	
Recommended Books		2) Pharmacology and Pharmacotherapeutics By R.S. Satoskar and S. Bha	ndarkar _
	4		
	3	Treatments for Disorders of sebaceous gland-Acne, rosacea, perioral dermatitis	6
	4	Treatments for Disorders of eccrine and apocrine glands	9
	5	Treatment for Disorder of hair:hair loss and hairshaft defects.	9
		Total No. of Hrs	39





School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year **Semester: III**

Course: Advanced Cosmetic Chemistry-I (Practical) Course Code: TXCO311

	Teaching Scheme (Hrs/Week) Continuous Internal Assessment (CIA)							End Sem Examina	Total	
L	Т	P	C	CIA-1	CIA- 2	CIA-3	Lab	Theory	Lab	
0	0	4	2	20	20	10	50	0	50	100
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr									

Objectives	
1.	At the end of this course, students will know the various estimation methods of physical constants of raw material. Students will be familiar with instrumental analysis and methods to assess the efficacy. Students will also be familiar with analysis of raw materials with regard to its identification.

Unit	Details	Hours
Number		
1	Estimation Of Vitamin C (Ascorbic acid)	4
2	Test for amino acids and Proteins	4
3	Identification of Adulteration in herbs (Ginseng, Centella Asiatica Indigo Tinctofera, Lawsonia Inermis)	4
4	Limit test for chloride, sulphate ,iron and arsenic in finished products/ raw materials/herbs.	4
5	Test of Lawsonia Inermis as per BIS	4
6	Study of Mexameter(Skin colour assessment) and Tewameter (Skin epidermal water loss assessment)	8
7	Determination of Combing force and shine test for Silicones	4





Total 32 Hrs





School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science(IILP)

Year: Second Year Semester: III

Course: Advanced Product development I (Practical) Course Code: TXCO312

	Teac Sch Hrs/\	eme	-	Contin	uous Inte	ernal Ass	sessment	End Semester Examination		Total	
L	T	P	C	CIA-1	CIA- 2	CIA-3	Lab	Theory	Lab		
0	0	4	2	20	20	10	50	0	50		100
Ma	Max. Time, End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr										m (Lab) – 3Hr

Objectives	
	At the end of this course, students will understand the practical aspect of formulations

Unit Number	Details	Hours
1	Preparation of Skin and hair bleach	
	a)Powder Base	10
	b) Cream Base	
2	Preparation of Baby formulations	
2	a) Body lotion	10
	b) Baby Shampoo	10
	c) Baby Powder	
3	Preparation of Natural Hair colour	
	a) Powder form	12
	b) Paste form	
4	Preparation of bath products	10





	a) Bath Bombs	
	b) Bubble bath	
5	Preparation of Skin whitening powder	10
6	Evaluation of Body Powder and face powder	8
	Total hours	60 hours





School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: III

Course: Advanced Quality Assurance I (Practical) Course Code: TXCO313

	Teaching Scheme (Hrs/Week) Continuous Internal Assessment (CIA)						End Semester Examination Total				
L	Т	P	C	CIA-1	CIA- 2	CIA-3	Lab	Theory	Lab		
0	0	4	2	20	20	10	50	0	50		100
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr										

Course Objectives

	Course Content	
Unit No.	Content	Hours
1	Determination of absorption curve of substances by Colorimeter.	4
2	Determination of concentration of substance by Spectrophotometer.	4
3	Basic experiments based on Chromatography.	4
4	Experiments based on conductometer.	4
5	Experiment based on polarimeter.	4
6	Experiments based on Flame photometer.	4
7	Experiments based on Brookfield/cup bob viscometer	4
	Total	28 Hrs.





School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science(IILP)

Year: Second Year Semester: III

Course: Advanced Dermatology I (Practical) **Course Code: TXCO314**

	Teac Sch Hrs/V	eme		Contin	uous Inte	ernal Ass	sessment	End Semester Examination		Total	
L	Т	P	C	CIA-1	CIA- 2	CIA-3	Lab	Theory	Lab		
0	0	4	2	20	20	10	50	0	50		100
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3H									m (Lab) – 3Hr	

Objectives	
	The students will acquire knowledge about skin and hair defects, the underlying reason and ways to
	avoid it.

Unit	Details	Hours
Number		
1	To study and perform Microdermabrasion technique.	6
2	To study and perform experiments related to Galvanic current.	9
3	To study and perform experiments on Chemical peel.	6
4	To study and carry out Skin rejuvenating techniques.	9
5	To perform Hair massage, steaming and dandruff treatments	9
6	Ways to understand the associated problem with skin and hair and treat by protocol formulation.	6
	Total hours	39 hrs .





Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: IV

Course: Advance Cosmetic Chemistry II Course Code: TXCO401

Teaching Scheme (Hrs/Week)				Contin	uous Inte	ernal Ass	sessment	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
Ma	Max. Time, End Semester Exam (Theory) - 3Hrs. End Semester Exam (Lab) – 2Hr									m (Lab) – 2Hr	

Course Objectives

The students will be familiar with specific actives used in cosmetic formulations, their technical aspects and evaluation methods.

Students will be familiar with chemistryof actives used in cosmetic formulations. 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.	Introduction, Types, Study of Functional group involved,mechanism of action,Safety aspects,Factors for Choice of actives,Estimation of efficacy by instrumental methods.Detailed study of recent five examples of Sunscreen agents	15
2.	Introduction, Types, Study of Functional group involved,mechanism of action,Safety aspects,Factors for Choice of actives,Estimation of efficacy by instrumental methods. Detailed study of five examples of colors pigments and dyes used in lipsticks.	15
3.	Introduction, Types, Study of Functional group involved, mechanism of action, Safety aspects, Factors for Choice of actives, Estimation of efficacy by instrumental methods Detailed study of five examples of hair and skin conditioners.	10
4.	Cosmetic applications of Ginseng, Centella Asiatica, Indigo Tinctofera, Lawsonia Inermis in Skincare and Haircare	8
	Total hrs	48





Resources	
	1. Text book of Pharmacognosy – Trease and Evan's
Recommended Books	2. Pharmacognosy – Claus and Taylor.
	3. Text Book of Pharmacognosy – T. E. Wallis.
	4. Materia Medica – By Nadkarni.
	5.Wealth of India – CSIR
	6. Pharmacognosy – Dr. Kokate
	7.Naturals and Cosmetics – Dr. Satish Sakharwade





Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: IV

Course: Advance Product Development II Course Code: TXCO402

Teaching Scheme (Hrs/Week)				Contin	uous Inte	ernal Ass	sessment	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
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 2Hr									m (Lab) – 2Hr	

Course Objectives

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 basicsof different bases used in formulations.

	Course Content	
Unit No.	Content	Hours
1	Shaving preparations: Wet shaving preparation, Introduction, Beard softening cream, Lather shaving creams, lather shaving sticks, Aerosols of shaving foams, brushless or non lathering creams, beard balms. Review of recent trend in shaving preparation.	15
2	Foot preparations: Introduction, influence of foot wear, foot ailments, foot infections, foot care and hygiene, foot powders, foot sprays, foot creams, crack creams, athletes foot preparations. Review of recent developments in cosmetic preparations for foot problems.	10
3	Shampoos; Introduction, detergency, evaluation of detergents as shampoo bases, raw materials for shampoos ,formulation of all types of shampoos, safety of shampoos. Review of industrial and environmental problems with synthetic surfactants.	15
4	Hair colorants: Introduction- Hair colouring systems, characteristics of an ideal hair colourants, the process of hair colouring, Chemistry of hair colour formation, temporary hair dyes, semi-permanent colorants, permanent hair dyes, other dyes for hair, hair dye removers, bleaching and lightening.	10
5	Packaging: Introduction, principles of packaging, marketing, technology and components of packaging, package development and design, package testing and compatibility. Recent trends in packaging of skin and hair cosmetics.	5
	Total no. of hrs	55 hrs





D 1 1	1) New Cosmetic Science by Takeo Mitsui
Recommended Books	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.





School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year **Semester: IV**

Course: Advance Quality Assurance II Course Code: TXCO403

Teaching Scheme (Hrs/Week)				Contin	uous Inte	ernal Ass	sessment	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
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 2Hr										

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

	Course Content	
Unit No.	Content	Hours
1	Importance of Quality Control in Cosmetic preparation and guidelines for hygienic manufacture of Cosmetics	15
2	ISO / ICH /Cosmetic regulations	10
3	GMP/GLP	15
4	Testing of Packaging materials	5
5	Efficacy testing of preservative.	5
	Total no.of hrs	50hrs





Recommended	1) Microbiology by Michael.J. Pelczar, J.R.,E.C.S Chan and Noel kreig.
Books	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.





Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year Semester: IV

Course: Advance Dermatology II Course Code: TXCO404

Teaching Scheme (Hrs/Week)				Contin	uous Inte	ernal Ass	sessment	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
Ma	Max. Time, End Semester Exam (Theory) - 3Hrs. End Semester Exam (Lab) – 2Hr									m (Lab) – 2Hr	

Course Objectives

1 The students will acquire treatments for skin and hair defects, the underlying mechanism and ways to perform it.

	Course Content	
Unit No.	Content	Hours
1	Theoretical considerations for performing Facial in detail Steps in Facial: cleaning, toning, face massage, Face pack application(customized treatment for open pores, freckles, Uneven skin tone, treatment for curing wrinkles)	10
2	Theoretical considerations for Make-up: (Day make up, Corrective make up.Party Make up, Bridal Make up) 1) Pre-make-up skin care 2) Make-up techniques-complexion planning 3) Uses of cosmetics during make up Cleanser, toner, astringent, moisturiser, concealer, foundation, powder, blusher, lipstick	15
3	Theoretical considerations for Eye make-up(Day make up, Corrective make up. Party Make up, Bridal Make up) Use of eye shadow, eye liner, highlighter ,mascara, eye brow grooming	10
4	Theoretical considerations for	5





	Synthetic hair dye, Henna dye and henna conditioning and its	
	contraindications Basic hair styling techniques.	
	Theoretical considerations for performing Facial in detail	
=	Steps in Facial: cleaning, toning, face massage, Face pack	=
5	application(customized treatment for open pores, freckles, Uneven skin	5
	tone, treatment for curing wrinkles)	
	Total no. of hrs	45 hrs

Resources	
	1) Fransis – Introduction to Human Anatomy.
Recommended Books	2) Pharmacology and Pharmacotherapeutics By R.S. Satoskar and S. Bhandarkar





School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science (IILP)

Year: Second Year **Semester: IV**

Course: Advanced Cosmetic Chemistry-II (Practical) Course Code: TXCO411

	Teaching Scheme (Hrs/Week)			Continuous Internal Assessment (CIA)					End Sem Examina	Total		
L	T	P	C	CIA-1	CIA- 2	CIA-3	Lab	Theory	Lab			
0	0	4	2	20	20	10	50	0	50	100		
Ma	Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr											

Objectives	
1.	At the end of this course, students will know the various estimation methods of physical constants of raw material. Students will be familiar with instrumental analysis and methods to assess the efficacy. Students will also be familiar with analysis of raw materials with regard to its identification.

Unit	Details	Hours
Number		
	Test of Sunscreen as per BIS	4
1		-
	Test of Lipstick as per BIS	4
2		4
3	Test of hairdye as per BIS	4
4	Test of Hair oil as per BIS	8
5	Determination of sunscreen efficacy on Human Skin	4
6	Test of Sunscreen as per BIS	8
	Total no . of hrs	32 Hrs









School of Fashion Design and Beauty Cosmetology Second Year B.Sc. Cosmetics Science(IILP)

Year: Second Year Semester: IV

Course: Advanced Product development II (Practical) Course Code: TXCO412

Teaching Scheme (Hrs/Week)			-	Continuous Internal Assessment (CIA)					End Semester Examination		Total
L	Т	P	C	CIA-1	CIA- 2	CIA-3	Lab	Theory	Lab		
0	0	4	2	20	20	10	50	0	50	100	
Ma	Max. Time, End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr						m (Lab) – 3Hr				

Objectives	
	At the end of this course, students will understand the practical aspect of formulations

Unit Number	Details	Hours
1	Preparation of shaving preparations a)Shaving Cream b) After Shave Lotion	8
2	Preparation of foot preparations a) Foot Creamb) Baby Shampooc) Baby Powder	10
3	Preparation of Manicure preparation s c) Powder form d) Paste form	8
4	Preparation of Shampoos c) clear d) Pearelscent e) Powder	10
5	Preparation of hair colour	10





6	Preparation of hair gels	8
	Total no. of hrs	54 hrs







Second Year B.Sc. Cosmetics Science (IILP)





Year: Second Year Semester: IV



Course: Advanced Quality Assurance II (Practical)

Course Code: TXCO413







Teaching Continuous Internal Assessment (CIA) End Semester Total



~ -	T		
Scheme		Examination	



(Hrs/Week)		



L T P C CIA-1 CIA- CIA-3 Lab Theory Lab





0	0	4	2	20	20	10	50	0	50	100



Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr





Objectives



Students will understand the operations of analytical instruments used in Quality control



methods of cosmetics









Course Content



Unit	Content	Hours
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No.		
	No.	



1 Analysis of Stearic acid as per BIS 4



2 Analysis of Potassium Hydroxide as per BIS 4



3 Analysis of Sodium lauryl ether sulphate as per BIS 4



4 Analysis of water as per BIS 4



5 Analysis of Hair Colourant as per BIS 4



6 Analysis of Shaving cream as per BIS 4



7 Microbiological testing of raw material and finished products. 4



Total no. of hrs	28 hrs	











School of Fashion Design and Beauty Cosmetology



Second Year B.Sc. Cosmetics Science(IILP)





Year: Second Year Semester: IV



Course: Advanced Dermatology II (Practical) Course Code: TXCO414







Teaching Continuous Internal Assessment (CIA) End Semester Total



~ -	T		
Scheme		Examination	



(Hrs/Week)		



L T P C CIA-1 CIA- CIA-3 Lab Theory Lab





0	0	4	2	20	20	10	50	0	50	100



Max. Time,End Semester Exam (Theory) -3Hrs. End Semester Exam (Lab) – 3Hr









Objectives



The students will acquire knowledge about skin and hair makeup and its practical applications.





Unit	Details	Hours
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Number	



1 Customized Facial: Cleaning procedure, massage techniques with 9



	follow up routine.	



2 Customized Make-up with variants in each category: (Day make up, 9



Simple evening makeup, Party Make up, Corrective make up, Bridal



Make up)	



3 Eye make-up (Day make up, theme or colour based make up, 9



Corrective make up. Party Make up, Bridal Make up)



4 Practical application of Synthetic hair dye, (global and intermittent 9



highlights)Henna dye and henna conditioning.	



5	Basic and advanced hair styling techniques.	9
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Total	45 hours	
		1



















