

SONA COLLEGE OF TECHNOLOGY, SALEM-5

(An Autonomous Institution)

B.Tech- Fashion Technology

CURRICULUM and SYLLABI

[For students admitted in 2025-2026]

B.E / B.Tech Regulations 2023

Approved by BOS and Academic Council meetings


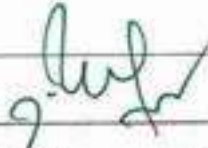



Sona College of Technology, Salem
(An Autonomous Institution)
Courses of Study for B.E/B.Tech. Semester I under Regulations 2023 (CBCS)
Branch: Fashion Technology

S. No	Course Code	Course Title	L	T	P	J	C	Category	Total Contact Hours	Course Type*
Theory courses										
1.	U23ENGI01A	Communication Skills in English	2	0	2	0	3	HS	60	TL
2.	U23MAT102C	Calculus and Statistics with MATLAB	3	0	2	0	4	BS	75	TL
3.	U23CHE104E	Chemistry for Fashion Technology	3	0	0	0	3	BS	45	T
4.	U23FT101	Fibres and Yarns for Fashion	3	0	0	0	3	PC	45	T
5.	U23TAM101	தமிழர் மரபு /Heritage of Tamils	1	0	0	0	1	HS	15	T
6.	U23GE101	Basic Aptitude-I	2	0	0	0	0	AC	30	T
Practical courses										
7.	U23CHL111B	Chemistry Laboratory	0	0	2	0	1	BS	30	L
8.	U23FTL102	Fibre and Yarn Analytical Laboratory	0	0	2	0	1	PC	30	L
9.	U23FTL103	Fashion Illustration Laboratory	0	0	2	0	1	PC	30	L
10.	U23FTL104	Computer Basics for Fashion Technology Laboratory	0	0	2	0	1	PC	30	L
Total Credits							18			
Optional Language Courses**										
11.	U23OL1101	French							15	T
12.	U23OL1102	German							15	T
13.	U23OL1103	Japanese	1	0	0	0	1	OL	15	T
14.	U23OL1104	Korean							15	T
15.	U23OL1105	Hindi							15	T

*T- Theory, TT- Theory with Tutorial, TL- Theory with Laboratory, TP- Theory with Project, TLP- Theory with Laboratory and Project, L-Laboratory, LT- Laboratory with Theory, LP- Laboratory with Project

**Students may opt for foreign languages viz., German/French/Japanese/Korean/Hindi with additional one credit

(Not accounted for CGPA calculation)

Approved By				
				
Chairperson, Science and Humanities BoS	Chairperson, FT BoS	Member Secretary, Academic Council	Dean-Academics	Chairperson, Academic Council & Principal
Dr. M. Renuga	Dr.D.Raja	Dr.R.Shivakumar	Dr.J.Akilandeswari	Dr.S.R.R.Senthil Kumar

Copy to:-

HOD/ Fashion Technology, First Semester B.Tech. FT Students and Staff, COE

24.07.2024 Version 1.1 Semester I

B.E/B.Tech Regulations-2023


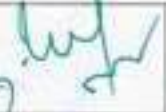
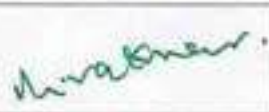


Sona College of Technology, Salem
(An Autonomous Institution)
Courses of Study for B.E/B.Tech. Semester II under Regulations 2023 (CBCS)
Branch: Fashion Technology

S. No	Course Code	Course Title	L	T	P	J	C	Category	Total Contact Hours	Course Type*	
Theory courses											
1	U23ENG201A	Technical English	2	0	0	0	2	HS	30	T	
2	U23MAT202E	Probability and Statistical Quality Control	3	1	0	0	4	BS	60	TT	
3	U23PHY203E	Physics for Fashion Technology	3	0	0	0	3	BS	45	T	
4	U23BEE206C	Basics of Electrical, Electronics and Instrumentation Engineering	3	0	0	0	3	ES	45	T	
5	U23EGR207	Engineering Graphics	3	0	0	0	3	ES	45	T	
6	U23TAM201	தமிழ்நாடு தொழில்நுட்பமும் / Tamil and Technology	1	0	0	0	1	HS	15	T	
7	U23GE201	Basic Aptitude-II	2	0	0	0	0	AC	30	T	
8	U23GE202	Disaster Management and Preparedness	2	0	0	0	0	AC	30	T	
Practical courses											
9	U23PHL210A	Physics Laboratory	0	0	2	0	1	BS	30	L	
10	U23BEEL213C	Basics of Electrical, Electronics and Instrumentation Engineering Laboratory	0	0	2	0	1	ES	30	L	
11	U23FT201	Digital Fashion Foundation Laboratory	1	0	2	0	2	PC	45	LT	
12	U23WPL214	Workshop Practice	0	0	2	0	1	ES	30	L	
Total Credits							21				
Optional Language Courses**											
13	U23OL1201	French - II	1	0	0	0	1	OL	15	T	
14	U23OL1202	German - II							15	T	
15	U23OL1203	Japanese - II							15	T	
16	U23OL1204	Korean - II							15	T	
17	U23OL1205	Hindi - II							15	T	

*T- Theory, TT- Theory with Tutorial, TL- Theory with Laboratory, TP- Theory with Project, TLP- Theory with Laboratory and Project, L-Laboratory, LT- Laboratory with Theory, LP- Laboratory with Project

**Students may opt for foreign languages viz., German/French/Japanese/Korean/Hindi with additional one credit (Not accounted for CGPA calculation)

Approved By

				
Chairperson, Science and Humanities BoS Dr.M.Renuga	Chairperson, FT-BoS Dr.D.Raja	Member Secretary, Academic Council Dr.R.Shivakumar	Dean-Academics Dr.J.Akilandeswari	Chairperson, Academic Council & Principal Dr. S.R.R. Senthil Kumar

Copy to :-HOD/ Fashion Technology, Second Semester, B.Tech. FT Students and Staff, COE

12.12.2025

Version 1.2

Semester II

B.E/B.Tech Regulations-2023

U23ENG101A	Communication Skills in English (Common to ADS, AIML, BME, CSD, CSE, CIVIL, ECE, EXE, EEE, EFE, EVE, FT, IT, MCT and SCE Branches)	L	T	P	J	C
		2	0	2	0	3

Course Outcomes

At the end of the course, the student will be able to

CO1:	Use grammatical components effectively in both written and spoken communication
CO2:	Develop speaking skills for self-introduction, delivering speeches and technical presentation
CO3:	Demonstrate effective listening skills for academic and professional purposes
CO4:	Write emails, formal letters, build resumes and construct paragraphs
CO5:	Develop speaking skills both in terms of fluency and comprehensibility

Pre-requisite:

- Knowledge and Understanding of Grammar
- Fundamental Language Skills (LSRW)

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	1	1	1	3	3	2	3	3	2	3	2	3
CO2	1	1	1	1	1	3	3	3	3	3	3	3	3	3
CO3	1	2	3	2	2	3	3	2	3	3	3	3	3	3
CO4	1	2	1	2	2	3	3	3	3	3	3	3	3	3
CO5	1	2	2	3	2	3	3	3	3	3	3	3	3	3

Course Assessment methods

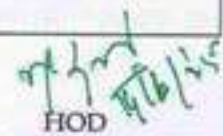
Direct	Indirect
CIE test I (10) (Theory) CIE test II (10) (Theory) CIE test III (10) (Theory) CIE test IV (15) (Practical)	Assignment/seminar/Quiz (5) Total CIE: 50 marks Semester End Examination (50) (SEE – Theory (25 marks + Lab (25 marks)) Course end survey

Unit 01:

6 Hours

- General vocabulary, Parts of Speech, Articles
- Email, fixing an appointment, cancelling appointments, conference details, hotel accommodation, order for equipment, training programme details, paper submission for seminars and conferences
- Paragraph writing – Describing – defining – providing examples or evidences

Unit 02:				6 Hours
<ul style="list-style-type: none"> • Tenses, Sentence Patterns • Instructions • Letter Writing - calling for quotations, placing orders 				
Unit 03:				6 Hours
<ul style="list-style-type: none"> • Prefixes and Suffixes • Cover letter and resume writing 				
Unit 04:				6 Hours
<ul style="list-style-type: none"> • Modal verbs, concord • Checklist • Letter Writing - Business communication, complaints, replies to queries from business customers 				
Unit 05:				6 Hours
<ul style="list-style-type: none"> • If conditionals • Letter Writing - inviting dignitaries, accepting and declining invitations 				
Lab component:				
<ol style="list-style-type: none"> 1. Self-introduction, personal information, name, home background, study details, area of interest, hobbies, strengths and weaknesses, projects and paper presentations, likes and dislikes in food, travel, clothes, special features of home town. 2. Mini presentation - Office Arrangements, Facilities, Office Functions, Sales, Purchases, Training Recruitment, Advertising, Applying for financial assistance, applying for a job. 3. Listening - understanding short conversations or monologues, taking down phone messages, orders, notes, etc. 4. Listening – entering information in tabular form 5. Loud Reading 				
Theory: 30 Hrs	Tutorial: --	Practical: 30 hours-	Project:--	Total Hours: 60 Hrs
TEXT BOOKS				
1.	Technical English I & II, Dr. M. Renuga et al. Sonaversity, 2016			
2.	Extensive Reading			
	<ol style="list-style-type: none"> 1. She is Dancing Back to Life – A Short Story 2. The Story of Google – Sara Gilbert, published by Jaico 3. The Story of Amazon.com- Sara Gilbert, published by Jaico 			
REFERENCES				
1.	Norman Whitby, Business Benchmark – Pre-Intermediate to Intermediate, Students Book, Cambridge University Press, 2006.			
2.	A Course in Communication Skills, P. Kiranmai Dutt, Geetha Rajeevan, C. L. N. Prakash, published by Cambridge University Press India Pvt. Ltd.			


 HOD

Dr. M. RENUGA,
Professor & Head,
 Department of Humanities & Languages,
 Sona College of Technology,
 SALEM - 637 002

SEMESTER - I	CALCULUS AND STATISTICS WITH MATLAB (FASHION TECHNOLOGY)	L	T	P	J	C
U23MAT102C		3	0	2	0	4

Course Outcomes

At the end of the course, the student will be able to

CO1:	apply the various differentiation techniques to the algebraic and transcendental functions.
CO2:	apply the various integration techniques to the algebraic and transcendental functions.
CO3:	represent the data in the form of a diagram or a graph, then analyze them.
CO4:	apply the concepts of measures of central tendency, dispersion and skewness to the given data and analyze the results.
CO5:	apply the concepts of correlation and regression to the data and analyze the results.

Pre-requisites:

<ul style="list-style-type: none"> Fundamentals of elementary algebra Fundamentals of calculus Fundamentals of geometry 	<ul style="list-style-type: none"> Fundamentals of trigonometry Fundamentals of statistics
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CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3		3								2			3
CO2	3	3		3								2			3
CO3	3	3		3								2			3
CO4	3	3		3								2			3
CO5	3	3		3								2			3

Course assessment methods [Theory with laboratory course]

Direct		Indirect
CIE test I (10) (Theory)	Total CIE: 50 marks Semester End Examination (50) [SEE- Theory (35) + Lab(15) marks]	Course end survey
CIE test II (10) (Theory)		
CIE test III (10) (Theory)		
CIE test IV (15) (Practical)		
Assignment/Quiz/Seminar (5)		

Unit 01	DIFFERENTIAL CALCULUS	9 Hours
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Ordinary Differentiation: Rules of differentiation- differentiation of elementary functions- differentiation of inverse functions – differentiation of logarithmic functions – differentiation of implicit functions – successive differentiation of simple functions. **Partial Differentiation:** Total differential coefficient – Euler's theorem – partial differentiations of implicit functions.

Unit 02	INTEGRAL CALCULUS	9 Hours
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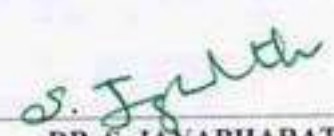
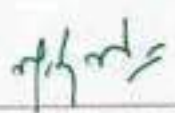
Definite and indefinite integrals- substitution rule-integration by parts- Bernoulli's formula- integration of rational functions by partial fraction – double integral in Cartesian coordinates – change of order of integration.

Unit 03	COLLECTION AND REPRESENTATION OF DATA	9 Hours
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Collection of data – primary and secondary data – diagrammatic representation – simple, subdivided and multiple bar diagrams- Pie diagram – pictograph – graphs of frequency distribution – histogram – frequency polygon - frequency curve – cumulative frequency curve.

Unit 04	MEASURES OF CENTRAL TENDENCY, DISPERSION AND SKEWNESS	9 Hours
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Measures of central tendency (Simple arithmetic mean, median, mode) - quartiles - measures of dispersion (range, inter-quartile range, quartile deviation, mean deviation, standard deviation, coefficient of variation) – skewness – Karl Pearson's coefficient of skewness.

Unit 05	CORRELATION AND REGRESSION	9 Hours
Simple and rank correlations- multiple and partial correlations- linear regression- multiple and partial regressions- curve fitting (straight line and parabola).		
List of MATLAB Programs		
1.	Finding derivatives of polynomial functions.	
2.	Finding derivatives of exponential functions.	
3.	Finding derivatives of logarithmic functions.	
4.	Finding derivatives of trigonometric functions.	
5.	Finding successive derivatives of simple functions.	
6.	Evaluating definite integral.	
7.	Evaluating indefinite integral.	
8.	Evaluating double integral.	
9.	Plotting simple functions.	
10.	Finding mean, median, mode and standard deviations for the given data.	
Theory: 45 Hrs	Tutorial: -	Practical: 30 Hrs
		Project:-
Total Hours: 75 Hrs		
TEXT BOOKS:		
1.	S. Narayanan and T.K. Manicavachagom Pillay, "Calculus- volume I and II", S. Viswanathan Publishers, 2016.	
2.	S. P. Gupta, "Statistical Methods", Sultan Chand and Sons Publishers, 15 th Edition 2012.	
3.	W. Yang, Y. K. Choi, K. Jackwon, M. C. Kim, H. J. Kim and T. Im, "Engineering Mathematics with MATLAB", CRC Press Publishers, 1 st Edition, 2017.	
REFERENCE BOOKS:		
1.	J. Stewart, "Calculus", Cengage Publishers, 8 th Edition, 2016.	
2.	G.B.Thomas," Calculus", Pearson Publishers, 14 th Edition, 2018.	
3.	S.C.Gupta and V.K.Kapoor, "Fundamentals of Mathematical Statistics", Sultan Chand and Sons Publishers, 11 th Edition, Reprint, 2019.	
4.	R. A. Johnson and C.B. Gupta," Miller and Freund's, Probability and Statistics for Engineers", Pearson Publishers, 9 th Edition, 2018.	
5.	P.G. Hoel, S.C. Port and C.J.Stone," Introdution to Probabilty Theory", Universal Book Stall Publishers, Reprint, 2003.	
6.	D. Xu, "Calculus problem solutions with MATLAB", Walter de Gruyter Publishers, 1 st Edition, 2020.	
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>DR. S. JAYABHARATHI Head / Department of Mathematics</p> <p>Dr. S. JAYABHARATHI ASSOCIATE PROFESSOR & HEAD DEPARTMENT OF MATHEMATICS, SONA COLLEGE OF TECHNOLOGY, SALEM-636 005, Tamilnadu. Ph: 0427 - 4099999.</p> </div> <div style="text-align: center;">  <p>DR. M. RENUGA BoS Chairperson/S&H</p> <p>Dr. M. RENUGA, Professor & Head, Department of Humanities & Languages, Sona College of Technology, SALEM - 636 005.</p> </div> </div>		
B.E/B. Tech Regulations 2023		S&H BoS Date: 08-07-2023

U23CHE104E	CHEMISTRY FOR FASHION TECHNOLOGY	L	T	P	J	C
		3	0	0	0	3

Course Outcomes

At the end of the course, the student will be able to

CO1:	Analyse the impurities of water, their removal methods and explain the conditioning methods for industrial uses.
CO2:	Compare the type of bonds and their significances.
CO3:	Understand the basic concepts, and analyse the applications of surface chemistry and catalysis in engineering and technology.
CO4:	Analyse the chemical characteristics of oils, fats, soaps, detergents, lubricants and their applications in textile industry.
CO5:	Compare the types of polymerization reaction techniques and classification of dyes and their intermediates.

Pre-requisite: Basic knowledge on the concepts of organic, inorganic and physical chemistry.

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2					3							2
CO2	3	2												2
CO3	3	2					2							2
CO4	3	2				2	3							2
CO5	3	2				2	3							2

Course Assessment methods

Direct		Indirect
CIE test I (9) CIE test II (9) CIE test III (10) Objectives Test (7)	Assignment/seminar/Quiz (5) Total CIE: 40 marks Semester End Examination: 60 Marks	Course end survey

Unit 01: WATER TECHNOLOGY

9 Hours

Introduction, Water quality parameters – hardness – estimation of hardness of water by EDTA method, alkalinity – estimation of alkalinity by indicator method, significances of pH, TDS, COD, BOD, chloride, sulphate – Water for industrial use – boiler troubles and remedies, internal conditioning – colloidal, phosphate, calgon and carbonate conditioning – External treatment methods – Zeolite and demineralization processes – desalination of brackish water by reverse osmosis method.

Unit 02: CHEMICAL BONDING				9 Hours
Types of chemical bonds - van der Waals (or) intermolecular forces – types – hydrogen bond – types, Valence Bond Theory (VBT) – VSEPR Theory - Molecular Orbital Theory – Linear Combination of Atomic Orbitals (LCAO method)- energy level diagram of molecular orbitals (nitrogen and oxygen only) – coordinate bond – metallic bond.				
Unit 03: SURFACE CHEMISTRY AND CATALYSIS				9 Hours
Adsorption-types-physical and chemical adsorption – adsorption of gases on solids-adsorption isotherms-Freundlich and Langmuir isotherms - role of adsorption in catalytic reactions - applications of adsorption – detergency, water repellency, wetting and foaming, emulsifiers, deemulsifiers and defoamers – catalysis – definition and types – homogeneous and heterogeneous catalysis.				
Unit 04: CHEMISTRY OF OILS, FATS, SOAPS AND LUBRICANTS				9 Hours
Oils and fats – chemical constitution and general chemical characteristics – drying, rancidifications, hydrogenation, hydrogenolysis – chemical analysis – acid, saponification and iodine, R M values – determination and their significances, Soaps and detergents – types and cleansing actions, Lubricants – types – mechanism of lubrication – properties of lubricants – viscosity, flash and fire points, cloud and pour points.				
Unit 05: POLYMER AND DYE CHEMISTRY				9 Hours
Introduction – degree of polymerization, functionality and tacticity, glass transition temperature – types of polymers – types of polymerization – addition, condensation and copolymerization Dyes : Theory of colour and constitution–chromophore and auxochromes. Optical brightening agents. Nomenclature of dyes - commercial naming, colour index. Classification of dyes based on chemical structure and application. Chemistry of dye Intermediates - nitration, halogenation, sulphonation.				
Theory: 45 Hrs	Tutorial: --	Practical: --	Project:--	Total Hours: 45 Hrs
TEXT BOOKS				
1.	P.C.Jain and Monica Jain, "Engineering Chemistry" Dhanpat Rai Pub, Co., New Delhi , 17th Edition, 2018.			
2.	BS. Bahl and Arun Bahl, "A Textbook of Organic Chemistry" S Chand and Company, Limited, New Delhi, Reprint 2019.			
REFERENCES				
1.	H.K. Chopra, A. Parmer, "Chemistry for Engineers", Narosa Publishing House, New Delhi, 110002, 2016.			
2.	Kannan P., Ravikrishnan A., "Engineering Chemistry", Sri Krishna Hi-tech Publishing Company Pvt. Ltd., Chennai, 2009.			
3.	B. Sivasankar "Engineering Chemistry" Tata McGraw-Hill Pub.Co.Ltd, New Delhi, 2008.			
4.	Puri, Sharma, Pathania "Principles of Physical Chemistry" Vishal Publishing Co. 48th Edition, 2021.			

C. Shanthi
14.6.2025

Dr. C. Shanthi
HOD / Science

Dr. C. SHANTHI, M.Sc., M.E., Ph.D.,
Professor of Physics
Head, Department of Sciences
Sona College of Technology (Autonomous)
SALEM-636 005.

M. Renuga
14/6/25

Dr. M. Renuga
BoS – Chairperson
Science and Humanities

Dr. M. RENUGA,
Professor & Head,
Department of Humanities & Languages,
Sona College of Technology,
SALEM - 636 005.

U23FT101	FIBRES AND YARNS FOR FASHION	L	T	P	J	C
		3	0	0	0	3

Course Outcomes

At the end of the course, the student will be able to

CO1:	Classify textile fibres, define the basic terms used, outline fundamental concepts of fibre structure, describe the properties of an ideal fibre and state the properties and uses of major natural fibres.
CO2:	Describe the common man-made fibre spinning techniques and explain the properties and uses of major natural-polymer, synthetic and special fibres.
CO3:	Describe the identification methods of common fibres and define the common linear density terms used for man-made fibres.
CO4:	Outline the objectives and working principles of the different processes in spun yarn production.
CO5:	Describe sewing thread types, fibres used, quality requirements, outline of production and state the characteristics and uses of fancy yarns and certain special yarns.

Pre-requisite: -

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

COs	Programme Outcomes (POs)												Programme Specific Outcomes (PSOs)	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3		3	1					3	1	2
CO2	3	3	2	2	2	2	2					3	3	2
CO3	3	2	2	2	2	1						3	2	1
CO4	3	3	3	3	2	3	3	3				3	3	2
CO5	2	3	2	2	2	2	2	3				3	2	2

Course Assessment methods

Direct		Indirect
CIE test I (9)	Assignment/seminar/Quiz (5) Total CIE: 40 marks Semester End Examination (60 marks)	Course end survey
CIE test II (9)		
CIE test III (10)		
Objectives Test (7)		

Unit 01: GENERAL INTRODUCTION AND NATURAL FIBRES

10 Hours

Definitions: Textile fibre, staple fibre, filament; yarn: spun, continuous filament, monofilament and multifilament, flat and textured yarn; single, ply and cabled yarns; thread; fabric: woven, knitted and non-woven

Classification of textile fibres: Main classes and sub-classes with examples for each class / sub-class
Basic concepts of fibre structure: Definition of orientation, types, schematic representations and examples; definition of crystallinity, schematic representation of fibre with crystalline and amorphous contents, outline of influence of crystallinity on fibre properties; crystallinity values of some common natural and man-made fibres

Properties expected of a Textile Fibre: Definitions of fibre length, fineness, strength, flexibility, elongation, elasticity, moisture content, moisture regain, crimp, fibre uniformity, lustre, fibre modulus, T_m and T_g;
Essential and desirable properties of a textile fibre

Natural Fibres: Definition and source, properties and uses of cotton, flax, silk and wool
Unconventional natural fibers: Source, properties and uses of jute, coir, pineapple and banana

9 Hours

Unit 02: MAN MADE FIBRES

Introduction to man-made fibre spinning: Principles of wet-spinning, dry-spinning and melt-spinning of

14.6.2025 Version 1.1

Programme: Fashion Technology

BE/B.Tech Regulations 2023

Dr. D. RAJA, M.Tech., Ph.D.,
Professor & Head
Department of Fashion Technology
Sona College of Technology
Salem - 636 005, Tamil Nadu

man-made fibres, principle of drawing and its importance. Raw materials, properties and uses of natural-polymer and synthetic fibres: Viscose rayon, modal, bamboo, polyester, nylon 6, acrylic and elastomeric fibre. High performance fibres: Definition, characteristics, types, properties and uses of carbon, glass, nomex and kevlar. latest developments in fibres to attain comfort properties.				
Unit 03: LINEAR DENSITY AND IDENTIFICATION OF FIBRES				8 Hours
Linear density: Definition, denier and tex systems, decitex, millitex, kilotex and English cotton count; Conversion formulae and simple calculations of linear density Definition, properties and uses: Micro, nano fibres and bio polymers Identification of common textile fibres: Microscopic test, burning test, solubility test and density test				
Unit 04: OUTLINE OF YARN PRODUCTION				10 Hours
Preparatory processes: Objects of ginning, names of machines used; Objects of mixing and blending; Objects of blow room, common sequence of machines used for processing of cotton, manmade fibre and blends; Objects of carding, outline of working principle of high production card; Objects of combing, difference between carded and combed yarns; Objects of draw frame, outline of working principle of draw frame; Objects of speed frame, outline of working principle of simplex Yarn production: Objects of ring spinning outline of working principle of ring frame; yarn count and TPI; Objects of doubling, difference between single and double yarn; Outline of principles of compact spinning. New spinning system: Types and its needs, principle of rotor and air jet spinning system.				
Unit 05: SEWING THREADS, FANCY YARNS AND SPECIAL YARNS				8 Hours
Sewing thread: Definition, quality requirements, fibres used, types, properties, production process, selection of sewing thread, ticket number, leading brands of sewing threads Fancy yarns: Definition, brief study of chenille yarn, slub yarn, snarl yarn, melange yarn, and corkscrew yarn and spotted yarn. End uses of fancy yarn Other special yarns: Brief study of core spun yarn, metallic yarn, hollow yarn and applications of these yarns				
Theory: 45 Hrs	Tutorial: 0	Practical: 0	Project: 0	Total Hours: 45 Hrs
TEXT BOOKS				
1. Mishra S.P., "Fibre Science and Technology", New Age International Publishers, New Delhi, 2000				
2. Lord P. R., "Yarn Production: Science Technology and Economics", The Textile Institute, Manchester, U.K., 2003				
REFERENCES				
1. Bernard P. Corbman, "Textiles: Fibre to Fabric", McGraw Hill International Edition, New Delhi, 1983				
2. Srinivasamoorthy H. V., "Introduction to Textile Fibres", The Textile Association India, Mumbai, 1993				
3. Cook, J. Gordon, "Hand Book of Textile Fibres: Man-Made Fibres", Vol. 1 and 2, Merrow Publishing Co. Ltd., England, 2005				
4. Moncrief R.W., "Manmade Fibres", John Willey & Sons, New York, 2004				
5. Klein W. "A practical guide to opening and carding", Vol 2, The Textile Institute, Manchester, 1987				
6. Klein W. "A practical guide to combing and drawing", Vol 3, The Textile Institute, Manchester, 1987				
7. Klein W. "A practical guide to ring spinning", Vol 4, The Textile Institute, Manchester, 1987				

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U23TAM101	தமிழர் மரபு / Heritage of Tamils		L	T	P	J	C
			1	0	0	0	1
Course Outcomes							
At the end of the course, the student will be able to							
CO1:	Describe Tamil Language and Literature						
CO2:	Analyse Heritage - Rock Art Paintings To Modern Art – Sculpture						
CO3:	Explain Folk and Martial Arts						
CO4:	Describe Thinaï Concept of Tamils						
CO5:	Analyse Contribution of Tamils to Indian National Movement and Indian Culture						
Course Assessment methods							
Direct				Indirect			
CIE test I (30)	Total CIE: 100 marks			Course end survey			
CIE test II (30)	Semester End Examination: NIL						
CIE test III (40)							
Unit 01: LANGUAGE AND LITERATURE						3 Hours	
Language Families in India - Dravidian Languages – Tamil as a Classical Language - Classical Literature in Tamil – Secular Nature of Sangam Literature – Distributive Justice in Sangam Literature - Management Principles in Thirukural - Tamil Epics and Impact of Buddhism & Jainism in Tamil Land - Bakthi Literature Azhwars and Nayanmars - Forms of minor Poetry - Development of Modern literature in Tamil - Contribution of Bharathiyar and Bharathidhasan..							
Unit 02: HERITAGE - ROCK ART PAINTINGS TO MODERN ART – SCULPTURE						3 Hours	
Hero stone to modern sculpture - Bronze icons - Tribes and their handicrafts - Art of temple car making - - Massive Terracotta sculptures, Village deities, Thiruvalluvar Statue at Kanyakumari, Making of musical instruments - Mridhangam, Parai, Veenai, Yazh and Nadhaswaram - Role of Temples in Social and Economic Life of Tamils							
Unit 03: FOLK AND MARTIAL ARTS						3 Hours	
Therukoothu, Karagattam, Villu Pattu, Kaniyan Koothu, Oyillattam, Leather puppetry, Silambattam, Valari, Tiger dance - Sports and Games of Tamils							
Unit 04: THINAI CONCEPT OF TAMILS						3 Hours	
Flora and Fauna of Tamils & Aham and Puram Concept from Tholkappiyam and Sangam Literature - Aram Concept of Tamils - Education and Literacy during Sangam Age - Ancient Cities and Ports of Sangam Age - Export and Import during Sangam Age - Overseas Conquest of Cholas.							
Unit 05: CONTRIBUTION OF TAMILS TO INDIAN NATIONAL MOVEMENT AND INDIAN CULTURE						3 Hours	
Contribution of Tamils to Indian Freedom Struggle - The Cultural Influence of Tamils over the other parts of India – Self-Respect Movement - Role of Siddha Medicine in Indigenous Systems of Medicine – Inscriptions & Manuscripts – Print History of Tamil Books							
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--	
Total Hours: 15 Hrs							
REFERENCES							
1	தமிழக வரலாறு – மக்களும் பண் பொடும் – மக.மக. பிள்மள (தவளியீடு: தமிழ்நொடு பொடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).						
2	கணினித் தமிழ் – முமனவர ில. சுந்தரம் . (விகடன் பிரசுரம்)						

3	கீழடி - மவமக நதிக்கமரயில் ெங்ககொல நகர நொகரிகம் (ததொல்லியல் துமறதவளியீடு)
4	பொருமந - ஆற்றங்கமர நொகரிகம். (ததொல்லியல் துமற தவளியீடு)
5	Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL - (in print)
6	Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies)
7	Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies).
8	The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)
9	Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
10	Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
11	Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
12	Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) - Reference Book.


HOD

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U23TAM101	தமிழர் மரபு / Heritage of Tamils	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Describe Tamil Language and Literature					
CO2:	Analyse Heritage - Rock Art Paintings To Modern Art – Sculpture					
CO3:	Explain Folk and Martial Arts					
CO4:	Describe Thinaï Concept of Tamils					
CO5:	Analyse Contribution of Tamils to Indian National Movement and Indian Culture					
Course Assessment methods						
Direct				Indirect		
CIE test I (30)		Total CIE: 100 marks		Course end survey		
CIE test II (30)		Semester End Examination: NIL				
CIE test III (40)						
அலகு 1 : மொழி மற்றும் இலக்கியம்					3 Hours	
இந்திய மொழிக் குடும்பங்கள் - திராவிட மொழிகள் - தமிழ் ஒரு செம்மொழி -தமிழ் செவ்விலக்கியங்கள் - சங்க இலக்கியத்தின் சமயச் சார்பற்ற தன்மை - சங்க இலக்கியத்தில் பகிர்தல் அறம் - திருக்குறளில் மேலாண்மைக் கருத்துக்கள் - தமிழ்க் காப்பியங்கள், தமிழகத்தில் சமண பௌத்த சமயங்களின் தாக்கம் - பக்தி இலக்கியம், ஆழ்வார்கள் மற்றும் நாயன்மார்கள் - சிற்றிலக்கியங்கள் - தமிழில் நவீன இலக்கியத்தின் வளர்ச்சி - தமிழ் இலக்கிய வளர்ச்சியில் பாரதியார் மற்றும் பாரதிதாசன் ஆகியோரின் பங்களிப்பு.						
அலகு 2 : மரபு – பாறை ஓவியங்கள் முதல் ஓவியங்கள் வரை – சிற்பக் கலை					3 Hours	
நடுகல் முதல் சிற்பங்கள் வரை – ஐம்பொன் சிலைகள் - பழங்குடியினர் மற்றும் அவர்கள் தயாரிக்கும் கைவினைப் பொருட்கள், பொம்மைகள் - தேர் செய்யும் கலை- சுடுமண் சிற்பங்கள் - நாட்டுப்புறத் தெய்வங்கள் - குமரிமுனையில் திருவள்ளூர் சிலை - இசைக் கருவிகள் - மிருதங்கம், பறை, வீணை, யாழ், நாதஸ்வரம் - தமிழர்களின் சமூக பொருளாதார வாழ்வில் கோவில்களின் பங்கு						
அலகு 3: நாட்டுப்புறக் கலைகள் மற்றும் வீர விளையாட்டுகள்					3 Hours	
தெருக்கூத்து, கரகாட்டம், வில்லுப்பாட்டு, கணியான் கூத்து, ஓயிலாட்டம், தோலபாவைக் கூத்து, சிலம்பாட்டம், வளரி, புலியாட்டம், தமிழர்களின் விளையாட்டுகள்.						
அலகு 4: தமிழர்களின் திணைக் கோட்பாடுகள்					3 Hours	
தமிழகத்தின் தாவரங்களும், விலங்குகளும் - தொல்காப்பியம் மற்றும் சங்க இலக்கியத்தில் அகம் மற்றும் புறக் கோட்பாடுகள் – தமிழர்கள் போற்றிய அறக்கோட்பாடு – சங்ககாலத்தில் தமிழகத்தில் எழுத்தறிவும், கல்வியும் -						

சங்ககால நகரங்களும் துறை முகங்களும் - சங்ககாலத்தில் ஏற்றுமதி மற்றும் இறக்குமதி - கடல்கடந்த நாடுகளில் சோழர்களின் வெற்றி.

அலகு 5: இந்திய தேசிய இயக்கம் மற்றும் இந்திய பண்பாட்டிற்குத் தமிழர்களின் பங்களிப்பு

3 Hours

இந்திய விடுதலைப்போரில் தமிழர்களின் பங்கு - இந்தியாவின் பிறப்பகுதிகளில் தமிழ்ப் பண்பாட்டின் தாக்கம் - சுயமரியாதை இயக்கம் - இந்திய மருத்துவத்தில், சித்த மருத்துவத்தின் பங்கு - கல்வெட்டுகள் கையெழுத்துப்படிக்கள் - தமிழ்ப் புத்தகங்களின் அச்சு வரலாறு.

Theory: 15 Hrs

Tutorial: --

Practical: --

Project:--

Total Hours: 15 Hrs

REFERENCES

1	தமிழக வரலாறு - மக்களும் பண்பாடு - கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).
2	கணினித் தமிழ் - முனைவர் இல.சுந்தரம்.(விகடன் பிரசுரம்).
3	கீழடி - வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு)
4	பொருளை - ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)
5	Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL - (in print)
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7	Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies)
8	The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)
9	Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
10	Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
11	Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
12	Journey of Civilization Indus to Vaigai (R.Balakrishnan) (Published by: RMRL) - Reference Book.


HOD

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U23GE101	BASIC APTITUDE-1	L	T	P	J	C
		2	0	0	0	0

Course Outcomes

At the end of the course, the student will be able to

CO1:	Solve the problems in Divisibility , Division algorithm ,Successive Division and HCF & LCM. Identify Synonyms and Antonyms.
CO2:	Elucidate the problems in BODMAS rule, Approximation, Surds and Indices, Algebraic Simplification and Square root and Cube root. Choose appropriate Verbal Analogies and edit the given passages.
CO3:	Crack the problems involving Ratio and Proportion, and discuss Proportionality Theorems. Comprehend the given passages for Reading Comprehension activity and answer the questions correctly.
CO4:	Deduce the problems involving Linear equation and Quadratic equation. Demonstrate good vocabulary skill by doing the one word substitution and sentence filler exercise with high degree of accuracy.
CO5:	Interpret the logical reasoning problems from Number series ,Coding and Decoding and Exhibit good expertise in detecting errors in the given sentences.

Pre-requisite:

- Basic English language and Grammar knowledge
- Knowledge in Basic Mathematics

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	1	1	1	3	3	3	2	3
CO2	3	3	3	2	1	1	1	3	3	3	2	3
CO3	3	3	3	2	1	1	1	3	3	3	2	3
CO4	3	3	3	2	1	1	1	3	3	3	2	3
CO5	3	3	3	2	1	1	1	3	3	3	2	3

Course Assessment methods

Direct		Indirect
CIE test I (30) - Theory	Total CIE: 100 marks Semester End Examination – NIL	Course end survey
CIE test II (30) - Theory		
CIE test III (40) – Theory		

Unit 01				6 Hours
Number Properties: Classification of numbers - Divisibility - Division algorithm - Successive Division - HCF and LCM – Problems Verbal Aptitude: Synonyms and b. Antonyms				
Unit 02				6 Hours
Simplification: BODMAS Rule - Approximation - Surds and Indices - Algebraic Simplification - Square root and Cube root – Problems Verbal Aptitude: Verbal analogy, Editing passages				
Unit 03				6 Hours
Ratio and Proportion : Ratio - Properties of Ratios - Compound Ratio - Coin based problems - Proportion - Proportionality Test - Proportionality Theorems - Inverse Proportion - Variation - Problems Verbal Aptitude: Reading Comprehension				
Unit 04				6 Hours
Equations: a. Linear equation: Simultaneous Linear Equations - Consistent System - Inconsistent System - Problems b. Quadratic Equation: Different Ways to Express the Quadratic Equation - Discriminant of the Quadratic Equations - Roots - Nature of the Roots - Relation between roots and coefficient of equation - Formation of a Quadratic Equation – Problems Verbal Aptitude: One word substitution , Sentence filler words				
Unit 05				6 Hours
Logical Reasoning : Number series – Coding and Decoding – Problem Verbal Aptitude: Error detection				
Theory: 30 Hrs	Tutorial: 0	Practical: 0	Project: 0	Total Hours: 30 Hrs
TEXT BOOKS				
1.	S.Chand and Dr.R.S.Aggarwal, “Quantitative Aptitude for competitive examinations”, S Chand and Company Limited 2019.			
2.	Nishit K.Sinha, “Logical Reasoning and Data Interpretation”, Pearson 2021.			

S. Anita
11/09/2023

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U23CHL111B	CHEMISTRY LABORATORY (Common to Mechanical, Safety and Fire Engineering, EEE, EFE & FT branches)		L	T	P	J	C							
			0	0	2	0	1							
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	Analyse the amount of hardness and alkalinity of a given water sample, determine the amount of HCl by pH metry and conductometry, and determine the copper in brass by EDTA method.													
CO2:	Estimate the amount of mixture of acids by conductometry and estimate the amount of iron in a sample by potentiometry and spectrophotometry, determine the molecular weight of the water-soluble polymer and estimate the amount of chromium in wastewater.													
CO3:	Estimate the amount of hardness present in the household ground water by EDTA method.													
Pre-requisite: Capable of handling pipette, burette, standard measuring flask and conical flask.														
CO/PO, PSO Mapping (3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2		1		1	2		1					2
CO2	3	2		1		1	2		1					2
CO3	3	2		1		1	2		1					2
Course Assessment methods														
Direct						Indirect								
CIE test I (15)						RTPS (10)		Course end survey						
Quiz 1 (5)						Record (10)								
CIE test II (15)						Total CIE:60 marks								
Quiz 2 (5)						Semester End Examination (40 marks)								
LIST OF EXPERIMENTS														
1	Estimation of hardness of water sample by EDTA method.													
2	Estimation of alkalinity of water sample by indicator method.													

3	Estimation of copper in brass by EDTA method.
4	Estimation of HCl acid by pH metry.
5	Estimation of HCl by conductometry. (HCl vs NaOH)
6	Estimation of mixture of acids by conductometry. (HCl + CH ₃ COOH vs NaOH)
7	Estimation of ferrous ion by potentiometric titration.
8	Estimation of chromium prepared from electroplating sludge by Permanganometry.
9	Determiration of molecular weight of a polymer by viscosity measurements.
10	Estimation of iron content in water by spectrophotometry.
	TOTAL : 30 HOURS

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24.7.2024
Dr. C. Shanthi
HOD / Science

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M. Renuka
24/7/24
Dr. M. Renuka
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U23FTL102	FIBRE AND YARN ANALYTICAL LABORATORY	L	T	P	J	C
		0	0	2	0	1

Course Outcomes

At the end of the course, the student will be able to

- CO1: Identify the common textile fibres and determine the blend proportion of binary blends
- CO2: Determine the physical properties like moisture regain, linear density, swelling behaviour of fibre and yarn / sewing thread characteristics like yarn type, yarn count and ticket number
- CO3: Solve real time problems in fibre identification, fibre and yarn properties

Pre-requisite: -

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	3	3	3					3	3	2
CO2	3	3	2	3	3	3	3					3	3	2
CO3	3	3	2	3	2	3	3					3	2	2

Course Assessment methods

Direct		Indirect
CIE test I (15)	RTPS (10)	Course end survey
Quiz 1 (5)	Record (10)	
CIE test II (15)	Total CIE: 60 marks	
Quiz 2 (5)	Semester End Examination (40 marks)	

LIST OF EXPERIMENTS

1. Identification of fibres by microscopy: longitudinal views of fibres
2. Identification of fibres by microscopy: cross-sectional views of fibres
3. Confirmation of fibres by means of the burning test
4. Confirmation of fibres by means of the solubility test
5. Identification of a textile fibre of unknown identity using microscopic, burning and solubility tests
6. Determination of blend proportion in fibre mixture / blended yarn / fabric.
7. Determination of the atmospheric conditions in the lab and the amount of moisture in given samples of conditioned and unconditioned fibre
8. Estimation of the crimp of man-made staple fibre and the denier by length and mass measurements
9. (a) Identification of yarn type and twist direction and determination of yarn count of given spun yarn
(b) Identification of fibre type and determination of number of filaments and yarn linear density of given continuous filament yarn
(c) Identification of filament yarn and spun yarn
10. Identification of type of given sewing thread and determination of its ticket number and linear density

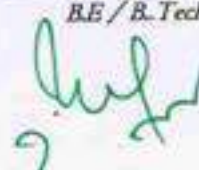
DEMONSTRATION

11. Identification of fibre by density test using density gradient column
12. Examination of the diametric swelling behaviour of cotton and viscose rayon fibres in water and alkali solution

SAMPLE COLLECTION

13. Collection of various fibre and yarn samples


Theory: 0	Tutorial: 0	Practical: 30	Project: 0	Total Hours: 30 Hrs
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U23FTL102 FIBRE AND YARN ANALYTICAL LABORATORY

List of equipment required for a batch of 30 students for U.G

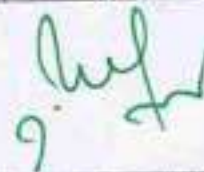
S. No.	Name of the equipment / software	Quantity Required
1.	Microscope	3
2.	Electronic Balance (1 mg. accuracy)	1
3.	Hot-Air Oven	2
4.	Wrap reel	1
5.	Hygrometer	1
Total		8



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Salem - 636 005, Tamil Nadu

U23FTL103	FASHION ILLUSTRATION LABORATORY				L	T	P	J	C					
					0	0	2	0	1					
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	Develop the basic creative and manipulative skills necessary for fashion design through various shading techniques and Sketching and Draw fashion figures and visually communicate apparel design details.													
CO2:	Demonstrate an understanding of the color theory using various color schemes and illustrate different styles of garment components and reproduce it to fit fashion figures.													
CO3:	Illustrate different fashion figures incorporating all the illustrating techniques and designing high end fashion garments													
Pre-requisite: -----														
CO/PO, PSO Mapping (3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	3	3	3					3	3	2
CO2	3	3	2	3	3	3	3					3	3	2
CO3	3	3	2	3	2	3	3					3	2	2
Course Assessment methods														
Direct					Indirect									
CIE test I (15) Quiz 1 (5) CIE test II (15) Quiz 2 (5)					RTPS (10) Record (10) Total CIE: 60 marks Semester End Examination (40 marks)					Course end survey				
LIST OF EXPERIMENTS														
<ol style="list-style-type: none"> 1. Illustration of lines and strokes using pencil shading techniques 2. Illustration of different lettering and numbering styles 3. Illustration of human face 4. Illustration of different postures of human head, hand, leg and feet 5. Illustration of different hair styles 6. Sketching of lay figure using head theory (8 and 10 head theory) 7. Illustration of different postures of fashion figure. 8. Preparation of Prang's colour wheel and colour schemes 9. Illustration of sleeves and cuffs. 10. Illustration of pockets and necklines 11. Illustration of Men's lower torso garments. 12. Illustration of skirts and skirt tops 														
Theory: 0			Tutorial: 0			Practical: 30			Project: 0		Total Hours: 30 Hrs			

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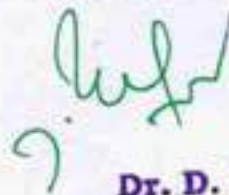


U23FTL104	COMPUTER BASICS FOR FASHION TECHNOLOGY LABORATORY					L	T	P	J	C				
						0	0	2	0	1				
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	Apply MS Excel tools for fashion, apparel manufacturing and retail data creation and management.													
CO2:	Apply different MS Excel data analysis tools for Fashion, Apparel manufacturing and retail area applications.													
CO3:	Develop basic fashion sketches and technical specification sheets by using fashion CAD software													
Pre-requisite: -----														
CO/PO, PSO Mapping (3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	2				2	2	3	2	2
CO2	3	3	3	2	3	2	2			1		3	2	3
CO3	3	3	3	3	1	2	2			2		2	2	3
Course Assessment methods														
Direct							Indirect							
CIE test I (15)				RTPS (10)			Course end survey							
Quiz 1 (5)				Record (10)										
CIE test II (15)				Total CIE: 60 marks										
Quiz 2 (5)				Semester End Examination (40 marks)										
LIST OF EXPERIMENTS														
<ol style="list-style-type: none"> Practice on MS Excel Basic tools, formulas and functions. (1 session) Prepare, validate and manage Fashion, Apparel and Retail data in spread sheets. (1 session) Create charts for visualization of Fashion, Apparel and Retail data. (1 session) Prepare different outputs from master data by applying filtering, sorting and conditional formatting methods for Fashion, Apparel and Retail applications. (1 session) Summarize, analyze, explore and present data using pivot tables and charts for Fashion, Apparel and Retail applications. (1 session) Create a dashboard with different visualization elements for Fashion, Apparel and Retail applications. (1 session) Practice on basic fashion illustration software tools and create basic motifs for textiles designing. (1 session) Design unisex T-shirt with five different textures and designs using fashion illustration software. (1 session) Design a women's fashion illustration and apply motifs, designs, textures and colours using fashion illustration software (1 session) Develop technical specification sheet for men's garment with all technical details using fashion illustration software (1 session) 														
Theory: 0			Tutorial: 0			Practical: 30			Project: 0		Total Hours: 30 Hrs			

U23FTL104 COMPUTER BASICS FOR FASHION TECHNOLOGY LABORATORY

List of equipment required for a batch of 30 students for U.G.

S. No.	Name of the equipment / software	Quantity Required
1.	Computers Intel i5 or higher configuration	30
2.	Digital Illustration Software	30
3.	MS Office Software	30
4.	Printer	1
5.	Scanner	1
Total		92



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U23OL1101	French	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Read French phrases, Spell French phonitis, practice French accents, differentiate French and English sounds					
CO2:	Introduce oneself, talk about someone, ask others personal information, identify an object, ask and respond politely in a conversation					
CO3:	Read and write a small announcement, describe about neighbours, write a small portrait					
CO4:	Express one's wishes, talk about one's hobbies, ask time, describe one's status of life in a blog, justify a choice, express one's preferences, write a list of needs					
CO5:	Suggest to do something, appreciate something, talk about a movie, write a postal card					
Course Assessment methods						
Direct				Indirect		
CIE test I (30)		Total CIE: 100 marks		Course end survey		
CIE test II (30)		Semester End Examination: NIL				
CIE test III (40)						
Unit 01:				3 Hours		
Hr 2: Alphabets, Basic wishes, self-introduction, basic verbs: avoir and être						
Hr 4: Nationalities and countries, colors, days & months						
Hr 6: Definite articles, numbers 0-20, write about one's identification						
Unit 02:				3 Hours		
Hr 8: Professions, conjugation: 1 st group verbs, indefinite articles						
Hr 10: Preposition of place, identity card, negative sentence						
Hr 12: Things around us, subjective and ephatic pronouns, self-introduction online						
Unit 03:				3 Hours		
Hr 14: Talk about accommodation, conjugation: aller and venir, possessive adjectives						
Hr 16: Adjective's gender, noun's gender, things in a room, simple prepositions						
Hr 18: Physical description, speak about accommodation, writing a self-potrait						
Unit 04:				3 Hours		
Hr 20: Hobbies, conjugation: vouloir, pouvoir and devoir, connected articles						
Hr 22: Interrogative adjectives, daily activities, time and seasons, pronominal verbs						
Hr 24: Near future tense, talk about preferences, write a mail						
Unit 05:				3 Hours		
Hr 26: Outing activities, conjugation: faire and sortir, demonstrative adjectives						
Hr 28: Adverbs of frequency, family members, past tenses (passé composé and imparfait)						
Hr 30: French arts, talk about a film, and write a postal card						
Theory: 15 Hrs		Tutorial: --	Practical: --	Project:--	Total Hours: 15 Hrs	
TEXT BOOKS						
1.	The course faculty will provide relevant audios, videos, handouts and notes					
2.	Books : Saison (Méthode de français, cahier d'activités)					
3.	Reference books : La conjugaison, Dondon, Echo					

M. Renuga
HOD

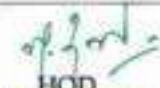
Dr. M. RENUGA,
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Department of Humanities & Language
Sona College of Technology,
SALEM - 637 002

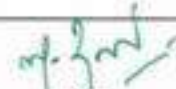
U23OL1102	German				L	T	P	J	C
					1	0	0	0	1
Course Outcomes									
At the end of the course, the student will be able to									
CO1:	Use common, everyday expressions to greet others and introduce themselves.								
CO2:	Construct simple sentences /questions.								
CO3:	Initiate and sustain basic conversation based on family, professions,								
CO4:	Hobbies and food.								
CO5:	Identify differences in using nouns based on gender.								
Course Assessment methods									
Direct					Indirect				
CIE test I (30) CIE test II (30) CIE test III (40)					Total CIE: 100 marks Semester End Examination: NIL				
					Course end survey				
Unit 01:					3 Hours				
<ul style="list-style-type: none"> Greeting and taking leave, introducing oneself, introducing others 									
Unit 02:					3 Hours				
<ul style="list-style-type: none"> Alphabets, spelling, numbers 									
Unit 03:					3 Hours				
<ul style="list-style-type: none"> Age, Telephone/mobile numbers, Month, Date, Time 									
Unit 04:					3 Hours				
<ul style="list-style-type: none"> Languages, Family, Asking/giving information about family members 									
Unit 05:					3 Hours				
<ul style="list-style-type: none"> Hobbies, Professions 									
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--		Total Hours: 15 Hrs	
TEXT BOOKS									
1. Netzwerk A1									


 HOD
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 SALEM - 637

U23OL1103	Japanese	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Use words and phrases of greeting in Japanese, write the letters of the alphabet, identify names of objects and do a self-introduction using short and simple sentences					
CO2:	Demonstrate the use of time-related words and verb conjunctions and make light conversation asking for directions and answering questions					
CO3:	Use different kinds of verbs through the day and those used for giving things, and demonstrate the use of adjectives					
CO4:	Express liking for the Japanese language, describe the locations of different things and demonstrate counting in Japanese					
CO5:	Make comparisons of stated things, express a willingness to go to Japan and use 'Te-form' verbs					
Course Assessment methods						
Direct				Indirect		
CIE test I (30)	Total CIE: 100 marks		Course end survey			
CIE test II (30)	Semester End Examination: NIL					
CIE test III (40)						
Unit 01:				3 Hours		
Hr 1-2: Greeting words and phrases; the Japanese alphabet: 104 Hiragana and 104 Katakana letters Hr 3-4: Identifying words from pictures or objects shown Hr 5-6: Self-introduction						
Unit 02:				3 Hours		
Hr 7-8: Asking for directions when shopping Hr 9-10: Time words and Verb Conjugations Hr 11-12: Making light conversation						
Unit 03:				3 Hours		
Hr 13-14: Expressions to use verbs from morning to night Hr 15-16: Verbs used for giving things Hr 17-18: Adjectives						
Unit 04:				3 Hours		
Hr 19-20: Ways to show liking for the Japanese language Hr 21-22: Describing the location of things (or where things are) Hr 23-24: Japanese numbers and counting						
Unit 05:				3 Hours		
Hr 25-26: Making comparisons Hr 27-28: Expressions wishing for something, like 'I want to go to Japan ...!' Hr 29-30: Using 'Te-form' Verb						
Theory: 15 Hrs		Tutorial: --	Practical: --	Project:--	Total Hours: 15 Hrs	
TEXT BOOKS						
1.	The course faculty will provide handouts / notes / course material.					
2.	Books on Basic Japanese language available in the college library.					


 HOD
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 Professor & Head,
 Department of Humanities & Language

U23OL1104	Korean	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Use single vowels and consonants syllable structure.					
CO2:	Greet others and introduce themselves.					
CO3:	Identify time , date and week					
CO4:	Explain location and places					
CO5:	Construct simple sentences / questions.					
Course Assessment methods						
Direct				Indirect		
CIE test I (30)		Total CIE: 100 marks		Course end survey		
CIE test II (30)		Semester End Examination: NIL				
CIE test III (40)						
Unit 01: Hangeul					3 Hours	
Single Vowels & Consonants Syllable Structure Tense Consonants Aspirated Consonants Double Vowels Final Consonants Double Final Consonants Liaison						
Unit 02: Introduction					3 Hours	
Greetings Talking about names Self-introduction Introducing my family members						
Unit 03: Time and Date					3 Hours	
Talking about location Talking about dates and days of the week Talking about doing something in the past						
Unit 04: Location and Places					3 Hours	
Talking about location Talking about doing something at a location Talking about directions						
Unit 05: Future					3 Hours	
Talking about doing something in the future Talking about plans for the future Talking about hope for the future						
Theory: 15 Hrs		Tutorial: --	Practical: --	Project:--	Total Hours: 15 Hrs	
REFERENCES						
1	Vitamin Korean - 1					


 HOD
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 Sona College of Technology,

U23OL1105		Hindi			L	T	P	J	C
					1	0	0	0	1
Course Outcomes									
At the end of the course, the students will be able to									
CO1:	Write स्वर(अ - अः), व्यंजन(क - श्र)								
CO2:	Identify and write बारहखडी(क - श्रः)								
CO3:	Coin 2,3&4 letters words								
CO4:	Read and frame sentences (grammar, verb, noun, pronoun, adjective, etc...)								
CO5:	Communicate effectively using tenses (with Continuous)								
Course Assessment methods									
Direct					Indirect				
CIE test I (30) CIE test II (30) CIE test III (40)					Total CIE: 100 marks Semester End Examination: NIL			Course end survey	
Unit 01: स्वर (अ - अः), व्यंजन (क - श्र)								3 Hours	
Hindi letters learning Letters identification Reading Writing Letters pronunciation									
Unit 02: बारहखडी (क - श्रः)								3 Hours	
Hindi letters learning Letters identification Reading Writing Letters pronunciation									
Unit 03: 2,3 & 4 letters words								3 Hours	
Words making Words meaning Reading & Writing									
Unit 04 : Grammar, (Verb, noun, pronoun, adjective, etc...)								3 Hours	
Words meaning Reading & Writing Sentence framing									
Unit 05 : Tenses (with Continuous)								3 Hours	
Talking about school Talking about family, friends Talking about doing something in the past, present, future Translation									
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--		Total Hours: 15 Hrs	
REFERENCES									
1	Diploma in Hindi (department of higher education, Delhi)								


HOD

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Sona College of Technology, Salem
(An Autonomous Institution)

Courses of Study for B.E/B.Tech. Semester II under Regulations 2023 (CBCS)


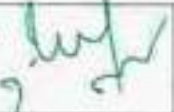
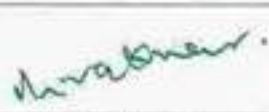


Branch: Fashion Technology

S. No	Course Code	Course Title	L	T	P	J	C	Category	Total Contact Hours	Course Type*
Theory courses										
1	U23ENG201A	Technical English	2	0	0	0	2	HS	30	T
2	U23MAT202E	Probability and Statistical Quality Control	3	1	0	0	4	BS	60	TT
3	U23PHY203E	Physics for Fashion Technology	3	0	0	0	3	BS	45	T
4	U23BEE206C	Basics of Electrical, Electronics and Instrumentation Engineering	3	0	0	0	3	ES	45	T
5	U23EGR207	Engineering Graphics	3	0	0	0	3	ES	45	T
6	U23TAM201	தமிழ்நாடு தொழில்நுட்ப அறிவு / Tamils and Technology	1	0	0	0	1	HS	15	T
7	U23GE201	Basic Aptitude-II	2	0	0	0	0	AC	30	T
8	U23GE202	Disaster Management and Preparedness	2	0	0	0	0	AC	30	T
Practical courses										
9	U23PHL210A	Physics Laboratory	0	0	2	0	1	BS	30	L
10	U23BEEL213C	Basics of Electrical, Electronics and Instrumentation Engineering Laboratory	0	0	2	0	1	ES	30	L
11	U23FT201	Digital Fashion Foundation Laboratory	1	0	2	0	2	PC	45	LT
12	U23WPL214	Workshop Practice	0	0	2	0	1	ES	30	L
Total Credits							21			
Optional Language Courses**										
13	U23OL1201	French - II	1	0	0	0	1	OL	15	T
14	U23OL1202	German - II							15	T
15	U23OL1203	Japanese - II							15	T
16	U23OL1204	Korean - II							15	T
17	U23OL1205	Hindi - II							15	T

*T- Theory, TT- Theory with Tutorial, TL- Theory with Laboratory, TP- Theory with Project, TLP- Theory with Laboratory and Project, L-Laboratory, LT- Laboratory with Theory, LP- Laboratory with Project

**Students may opt for foreign languages viz., German/French/Japanese/Korean/Hindi with additional one credit (Not accounted for CGPA calculation)

Approved By

				
Chairperson, Science and Humanities BoS Dr.M.Reouga	Chairperson, FT-BoS Dr.D.Raja	Member Secretary, Academic Council Dr.R.Shivakumar	Dean-Academics Dr.J.Akilandeswari	Chairperson, Academic Council & Principal Dr. S.R.R. Senthil Kumar

Copy to: -HOD/ Fashion Technology, Second Semester, B.Tech. FT Students and Staff, COE

12.12.2025

Version 1.2

Semester II

B.E/B.Tech Regulations-2023

U23ENG201A	Technical English (Common to ADS, AIML, BME, CSD, CSE, SCE, CIVIL, FCE, EEE,EVE, EXE, EFE, MCT, FT, IT Branches)	L	T	P	J	C
		2	0	0	0	2

Course Outcomes

At the end of the course, the student will be able to

- CO1: Frame sentences correctly, both in written and spoken forms of language with accuracy and fluency.
- CO2: Develop effective reading skills and reinforce language skills required for using grammar and building vocabulary
- CO3: Organise ideas and supporting arguments logically.
- CO4: Develop skills for writing conversations, proposals, reports and transcoding.
- CO5: Read for understanding and interpreting information and to utilise information accordingly.

Pre-requisite:

- Knowledge and Understanding of Grammar
- Fundamental Language Skills (LSRW)

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	1	2	2	2	3	3	2	3	3	3	3	3	3
CO2	1	2	2	3	2	3	3	2	3	3	2	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
CO4	1	3	1	2	2	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3	3	3	3	3

Course Assessment methods

Direct		Indirect
CIE test I (8)	Attendance (5)	Course end survey
CIE test II (8)	Assignment/seminar/Quiz (5)	
CIE test III (8)	Total CIE: 40 marks	
Objectives Test (6)	Semester End Examination (60)	

Unit 01: **6 Hours**

- Comparative adjectives
- Recommendations
- Guided writing – Conversation in workplace context
- Reading passages for specific information transfer

Unit 02: **6 Hours**

- Prepositions, adverbs
- Note making
- Reading passage with multiple choice questions, reading for gist and reading for specific information

Unit 03: **6 Hours**


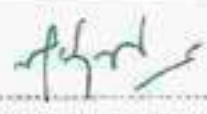
- Collocations, direct and indirect speech

<ul style="list-style-type: none"> • Memo • Proposal: establishing a lab, introducing a subject in the curriculum, training programme for students • Short reading passage: gap-filling exercise related to grammar 				
Unit 04:				6 Hours
<ul style="list-style-type: none"> • Cause and effect • Technical report writing – feasibility report, accident report, survey report • Short reading passages for sentence matching exercises, picking out specific information in a short text 				
Unit 05:				6 Hours
<ul style="list-style-type: none"> • Active, Passive and Impersonal Passive Voices • Transcoding – bar chart, pie chart, tabular column, graph, flow chart 				
Theory: 30 Hrs	Tutorial: --	Practical: --	Project:--	Total Hours: 30 Hrs
TEXT BOOKS				
1. Technical English I & II, Dr. M. Renuga et al. Sonaversity, 2016				
2. Extensive Reading				
1. Who Moved my Cheese? – Spencer Johnson-G. P. Putnam's Sons				
2. Discover the Diamond in You – Arindham Chaudhari – Vikas Publishing House Pvt. Ltd.				
REFERENCES				
1. Norman Whitby, Business Benchmark – Pre-Intermediate to Intermediate, Students Book, Cambridge University Press, 2006.				
2. A Course in Communication Skills, P. Kiranmai Dutt, Geetha Rajeevan, C. L. N. Prakash, published by Cambridge University Press India Pvt. Ltd.				


 HOD

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SEMESTER - II	PROBABILITY AND STATISTICAL QUALITY CONTROL										1	T	P	J	C	
U23MAT202E	(FASHION TECHNOLOGY)										3	1	0	0	4	
Course Outcomes																
At the end of the course, the student will be able to																
CO1:	apply the concepts of probability, random variable and their properties to generate the moments.															
CO2:	fit the suitable distribution and its properties to the real world problems and interpret the results.															
CO3:	apply the concepts of joint probability distribution and its properties to find the covariance and transformation of random variables.															
CO4:	apply the various designs of experiments to find cause-and-effect relationships.															
CO5:	apply the process control techniques to control and maintain the quality of the product.															
Pre-requisites:																
<ul style="list-style-type: none"> Fundamentals of elementary algebra Fundamentals of calculus Fundamentals of geometry 								<ul style="list-style-type: none"> Fundamentals of trigonometry Fundamentals of statistics 								
CO/PO, PSO Mapping																
(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak																
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)															
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	3	3	3	3	2							2	3		2	
CO2	3	3	3	3	2							2	3		2	
CO3	3	3	3	3	2							2	3		2	
CO4	3	3	3	3	2							2	3		2	
CO5	3	3	3	3	2							2	3		2	
Course Assessment methods																
Direct												Indirect				
CIE: test I (8)					Attendance (5)					Course end survey						
CIE: test II (8)					Assignment/seminar/Quiz (5)											
CIE: test III (8)					Total CIE: 40 marks											
Objectives Test (6)					Semester End Examination: 60 marks											
Unit 01	ONE DIMENSIONAL RANDOM VARIABLE												12 Hours			
One dimensional random variable – Discrete random variable – Distribution function of the discrete random variable – Probability mass function - Properties – Continuous random variable – Distribution function of the continuous random variable - Probability density function – Properties – Moments – Mathematical expectations – Moment generating function and its properties.																
Unit 02	THEORETICAL DISTRIBUTIONS												12 Hours			
Discrete distributions – Binomial distribution – Additive property, moment generating function, mean, variance and standard deviation of binomial distribution – Poisson distribution – Additive property, moment generating function, mean, variance and standard deviation of Poisson distribution – Poisson approximation to the binomial distribution – Geometric distribution – Memoryless property, moment generating function, mean, variance and standard deviation of Geometric distribution – Continuous distributions - Uniform distribution - Moment generating function, mean, variance and standard deviation of Uniform distribution - Exponential																

distribution - Memoryless property, moment generating function, mean, variance and standard deviation of exponential distribution - Normal distribution - Additive property, moment generating function, mean, variance and standard deviation of normal distribution - Problems based on real time applications in discrete and continuous distributions.				
Unit 03	TWO DIMENSIONAL RANDOM VARIABLES			12 Hours
Two dimensional discrete random variables Joint probability distribution of discrete random variables - Marginal and conditional probability distributions Two dimensional continuous random variables - Joint probability density function Joint probability distribution function for two dimensional continuous random variables - Marginal and conditional density functions - Covariance Correlation.				
Unit 04	DESIGN OF EXPERIMENTS			12 Hours
Basic principles of experimental design - Analysis of variance for one factor of classification - Completely randomized design - Analysis of variance for two factor of classification - Randomized block design - Analysis of variance for three factor of classification - Latin square design.				
Unit 05	STATISTICAL QUALITY CONTROL			12 Hours
Control charts for measurements (\bar{X} and R charts) - Control charts for attributes, p , c and np Charts - Examples of application of statistical control charts in garment industry.				
Theory: 45 Hours	Tutorial: 15 Hours	Practical: -	Project: -	Total Hours: 60 Hours
TEXT BOOK:				
1. T. Veerarajan, "Probability, Statistics and Random Processes with Queuing Theory and Queuing Networks", McGraw Hill Publishers, 4 th Edition, 7 th reprint, 2018.				
REFERENCE BOOKS:				
1. S. C. Gupta and V. K. Kapoor, "Fundamentals of Mathematical Statistics", Sultan Chand and Sons Publishers, 11 th Edition, Reprint, 2019.				
2. S. P. Gupta, "Statistical Methods", Sultan Chand and Sons Publishers, 15 th Edition, 2012.				
3. R. A. Johnson and C. B. Gupta, "Miller and Freund's, Probability and Statistics for Engineers", Pearson Publishers, 9 th Edition, 2018.				
4. S. Ross, "A first course in probability", Pearson Publishers, 9 th Edition, 2019.				
5. P. G. Hoel, S. C. Port and C. J. Stone, "Introduction to Probability Theory", Universal Book Stall Publishers, Reprint, 2003.				
6. W. Feller, "An Introduction to Probability Theory and its Applications", Vol. 1, 3 rd Edition, Wiley Publishers, 2008.				
 Dr. S. JAYABHARATHI Head / Department of Mathematics Dr. S. JAYABHARATHI ASSOCIATE PROFESSOR & HEAD DEPARTMENT OF MATHEMATICS, SONA COLLEGE OF TECHNOLOGY, SALEM-636 005, Tamilnadu. Ph: 0427 - 4099999.		 Dr. M. RENEGAYYA GA, HOS Chairperson/S&H Professor & Head, Department of Humanities & Languages, Sona College of Technology, SALEM - 636 005.		
B.E/B. Tech Regulations 2023				S&H BoS Date: 08.07.2023

U23PHY203E	PHYSICS FOR FASHION TECHNOLOGY	L	T	P	J	C
		3	0	0	0	3

Course Outcomes

At the end of the course, the student will be able to

- CO1:** Analyse the relation between the arrangement of atoms and material properties.
- CO2:** Discuss the dual nature of matter and radiation and the application of the wave nature of particles.
- CO3:** Describe the basic components of lasers.
- CO4:** Examine the elastic behavior of solid materials and apply hydrodynamic principles for the flow of liquids.
- CO5:** Elucidate the different modes of heat transfer.

Pre-requisite:

Basic Knowledge in atomic physics, optics and thermal physics

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)												PSO 1	PSO 2	PSO 3
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
CO1	3	2	-	-	-	2	2	-	-	2	-	1	-	2	-
CO2	3	2	-	-	-	2	2	-	-	2	-	1	-	2	-
CO3	3	2	-	-	-	2	2	-	-	2	-	1	-	2	-
CO4	3	2	-	-	-	2	2	-	-	2	-	1	-	2	-
CO5	3	2	-	-	-	2	2	-	-	2	-	1	-	2	-

Course Assessment methods

Direct		Indirect
CIE test I (8) CIE test II (8) CIE test III (8) Objectives Test (6) Attendance (5)	Assignment / Seminar / Quiz (5) Total CIE: 40 marks Semester End Examination (60)	Course end survey

Unit 01: CRYSTAL PHYSICS

9 Hours

Importance of crystals - Types of crystals - Basic definitions in crystallography (Lattice -space lattice - unit cell - lattice parameters - basis) - Bravais lattices - Lattice planes and Miller indices - Interplanar distance - d spacing in cubic lattice - Calculation of number of atoms per unit cell - Atomic radius - Coordination number - Atomic Packing Factor for SC, BCC, FCC and HCP structures - Polymorphism and allotropy - Crystal imperfections - Point, line and surface defects - Burger vector.

Unit 02: QUANTUM PHYSICS				9 Hours
Limitations of classical theory - Dual nature of matter and radiation - Compton effect - Expression for Compton shift (no derivation) - de Broglie waves - Heisenberg's Uncertainty Principle - Schrödinger's time independent and time dependent wave equations - Physical significance of wave function - Energy and wave function of an electron trapped in one dimensional box - Application of wave nature of particles - Electron microscope - Comparison of optical and electron microscope - Scanning electron microscope - Transmission electron microscope - Limitations of electron microscope.				
Unit 03: LASERS				9 Hours
Energy level - Stimulated absorption - Population inversion - Metastable state - Spontaneous emission - Stimulated emission - Basic components of a laser - Einstein's theory of spontaneous and stimulated emission of radiation - Types of lasers - Solid state laser - Nd: YAG laser - Gas laser - CO ₂ laser - Semiconductor laser - Homojunction and hetero junction laser - Holography - Construction and reconstruction of hologram - Application of laser in industry – Cutting, welding and drilling – Medical applications – Lasik.				
Unit 04: ELASTIC PROPERTIES OF MATERIALS AND HYDRODYNAMICS				9 Hours
Elasticity - Poisson's ratio and the relation between moduli (qualitative) - Stress-strain diagram - Factors affecting elasticity - Bending of beams – Cantilever - Expression for bending moment - Measurement of Young's modulus by uniform and non-uniform bending - Hydrodynamics - Streamline flow - Turbulent flow - Poiseuille's formula for the flow of liquid through a capillary tube - Determination of coefficient of viscosity of a liquid.				
Unit 05: THERMAL PHYSICS				9 Hours
Heat and temperature - Modes of heat transfer - Conduction, convection and radiation - Specific heat capacity - Thermal capacity and coefficient of linear thermal expansion - Thermal conductivity - Measurement of thermal conductivity of a good conductor - Forbe's method - Measurement of thermal conductivity of a bad conductor - Lee's disc method - Radial flow of heat - Cylindrical flow of heat - Practical applications of conduction of heat - Thermal radiations - Properties and applications of thermal radiations.				
Theory: 45 Hrs	Tutorial: --	Practical: --	Project: --	Total Hours: 45 Hrs
TEXTBOOKS				
1.	M.N. Avadhanulu, P.G. Kshirsagar, "A Textbook of Engineering Physics", S. Chand & Company Ltd, New Delhi 2014.			
2.	B D. K. Bhattacharya, Poonam Tandon "Engineering Physics", Oxford University Press 2017.			
REFERENCES				
1.	"Engineering Physics", Sonaversity, Sona College of Technology, Salem. Revised Edition 2018.			
2.	B. K. Pandey and S. Chaturvedi, "Engineering Physics", Cengage Learning India Pvt. Ltd., Delhi, 2021.			
3.	Brij Lal and N. Subrahmanyam, "Properties of Matter", S. Chand & Company Ltd, New Delhi 2003.			

4.	R. Murugesan, Kiruthiga Sivaprasath, "Thermal Physics", S. Chand & Company Ltd, New Delhi 2018.
5.	R. Wolfson, "Essential University Physics", Volume 1 & 2. Pearson Education (Indian Edition), 2009.

C. Shanthi
8-1-2026

Dr. C. Shanthi
HOD / Science

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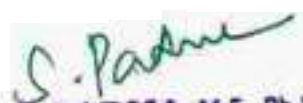
M. Renuga
8/1/26

Dr.M. Renuga
BoS - Chairperson,
Science and Humanities

Dr. M.RENUGA,
Professor & Head,
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Sona College of Technology,
SALEM - 636 005.

U23BEE206C	BASICS OF ELECTRICAL, ELECTRONICS AND INSTRUMENTATION ENGINEERING						L	T	P	J	C			
							3	0	0	0	3			
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	Apply the fundamental laws of electrical circuits.													
CO2:	Apply the key concepts of AC electrical circuits and analyse their steady state performance.													
CO3:	Select electrical machines for various applications.													
CO4:	Analyze the construction and working of various measuring instruments and sensors.													
CO5:	Describe the operation of semiconductor devices and interpret their input and output characteristics.													
Pre-requisite:														
Mathematics, Physics														
CO/PO, PSO Mapping														
(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	-	2	2		-	2	2	2	3	2	2
CO2	3	2	2	-	2	2		-	2	2	2	3	2	2
CO3	2	2	1	1	1	2		-	2	2	2	2	2	2
CO4	2	2	1	1	1	2		-	2	2	2	2	2	2
CO5	2	2	1	1	2	1		1	2	2	2	2	2	2
Course Assessment methods														
Direct						Indirect								
CIE test I	(8)					Assignment/seminar/Quiz (5)				Course end survey				
CIE test II	(8)					Total CIE: 40 marks								
CIE test III	(8)					Semester End Examination: 60								
Objectives Test	(6)					marks								
Attendance	(5)													
Unit 01: DC CIRCUITS										9 Hours				
Circuit Components: Resistor, Inductor, Capacitor – Ohm's Law – Kirchhoff's Laws – Series and Parallel Combinations of Resistances- Voltage and Current Division, Source transformation.														
Unit 02: AC CIRCUITS										9 Hours				
Introduction to AC Circuits and Parameters: Power and Energy-Waveforms- Sinusoidal, Triangular and square waveforms, Average value, RMS Value, Form factor and Peak factor, Instantaneous power, real power, reactive power and apparent power, power factor – Three phase supply – star and delta connection.														
Unit 03: DC AND AC MACHINES										9 Hours				
DC Generator: Construction - Principle of operation - EMF equation - Types - Characteristics - Applications. DC Motors: Construction - Principle of operation – Torque equation - Types - Characteristics - Applications. Induction Motor (Three Phase): Construction - Principle of operation-Applications.														

Unit 04: MEASUREMENTS AND INSTRUMENTATION					9 Hours
Functional elements of instrument – Static & Dynamic characteristics – Moving coil and Moving Iron instruments-Energy meter, wattmeter, DC Bridge (Wheatstone bridge) –AC Bridge (Anderson Bridge and Schering Bridge). Sensors, Photo sensors, Proximity sensors, Piezoelectric, Thermal Imagers.					
Unit 05: SEMICONDUCTOR DEVICES AND CIRCUITS					9 Hours
PN Junction Diodes– Characteristics & Application- Diode rectifier: Working principle of half wave rectifier and Bridge rectifier – Bipolar Junction Transistor-Transistor as an amplifier-study of CE configurations and characteristics – SCR, MOSFET-Characteristics & Application - Single phase inverter circuit.					
Theory: 45 Hrs	Tutorial: --	Practical: --	Project:--	Total Hours: 45 Hrs	
TEXT BOOKS					
1.	S. Salivahanan, R Rengaraj and G.R Venkatakrisnan, "Basic Electrical and Instrumentation Engineering", McGraw Hill Education Publisher, 2018.				
2.	D P Kothari, I J Nagrath, 'Basic Electrical Engineering', 4 th Edition, Mc Graw Hill Education Publishers, 2019.				
REFERENCES					
1.	S.K. Bhattacharya, "Basic Electrical and Electronics Engineering", Pearson publishers, 2016.				
2.	Leonard S Bobrow, "Foundations of Electrical Engineering", Oxford University Press, 2013.				
3.	Arun K. Ghosh, "Foundations of Electrical Engineering", Easter Economy Edition, 4 th Edition, 2012.				
4.	B.L. Theraja, A.K. Theraja, A Text Book of Electrical Technology, Electronic Devices and Circuits, Volume-IV, S. Chand Publishers, Reprint, 2019.				


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 Salem-636 005. Tamil Nadu.

U23EGR207	ENGINEERING GRAPHICS (Common to ADS, BME, CSE, ECE, FT, IT branches)					L	T	P	J	C				
						3	0	0	0	3				
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	Construct -Ellipse, Parabola, Hyperbola, Cycloids and Involutes.													
CO2:	Draw the projection of Point, Line and Plane surfaces.													
CO3:	Draw the projection of simple solids by rotating object method.													
CO4:	Develop the section of simple solids and lateral surface of truncated solids.													
CO5:	Draw the isometric view to orthographic projection.													
Pre-requisite: Nil														
CO/PO, PSO Mapping (3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1							3		2			1	
CO2					3			2		2		2		2
CO3					3			2		2		2	1	2
CO4					3			2		2		2	1	2
CO5			2					2		2		2	1	
Course Assessment methods														
Direct						Indirect								
CIE test I (8) CIE test II (8) CIE test III (8) Objectives Test (6)					Assignment/seminar/Quiz (5) Attendance (5) Total CIE: 40 marks Semester End Examination 60 marks					Course end survey				
CONCEPTS AND CONVENTIONS - (Not for Examination). Importance of graphics in engineering applications - Use of drafting instruments - BIS conventions and specifications – Size, layout and folding of drawing sheets – Lettering and dimensioning.											9 Hours			
Unit 01: PLANE CURVES - (Manual drafting). Basic Geometrical constructions, Curves used in engineering practices: Conics – Construction of ellipse, parabola and hyperbola by eccentricity method – Construction of cycloid – construction of Involute of circle – Drawing of tangents and normal to the above curves.														

Unit 02: PROJECTION OF POINTS, LINES AND PLANE SURFACES (CAD software). Orthographic projection- principles-principal planes-First angle projection-projection of points. Projection of straight lines (only First angle projections) inclined to both the principal planes -Determination of true lengths and true inclinations by rotating line method. Projection of planes (polygonal and circular surfaces) inclined to one of the principal plane by rotating object method.					9 Hours
Unit 03: PROJECTION OF SOLIDS (CAD software). Projection of simple solids - prisms, pyramids, cylinder, cone and truncated solids when the axis is inclined to one of the principal planes and parallel to the other by rotating object method.					9 Hours
Unit 04: PROJECTION OF SECTIONED SOLIDS AND DEVELOPMENT OF SURFACES (CAD software). Section of solids in simple vertical position when the cutting plane is inclined to one of the principal planes and perpendicular to the other – (obtaining true shape of section is not required). Development of lateral surfaces of truncated solids – Prisms, pyramids cylinders and cones.					9 Hours
Unit 05: ISOMETRIC TO ORTHOGRAPHICS PROJECTION- (Manual drafting). Representation of three dimensional objects – General Principles - Need for importance of multiple views – First angle projection – layout of views – Conversion of isometric view to orthographic views. Practicing three dimensional modelling of simple objects using CAD Software (Not for examination)					9 Hours
Theory: 45 Hrs	Tutorial: --	Practical: --	Project:--	Total Hours: 45 Hrs	
TEXT BOOKS					
1.	Bhatt N.D. and Panchal V.M., "Engineering Drawing", Charotar Publishing House, 53rd Edition, 2019.				
2.	Natrajan K.V., "A Text Book of Engineering Graphics", Dhanalakshmi Publishers, Chennai, 2018.				
3.	Parthasarathy, N. S. and Vela Murali, "Engineering Drawing", Oxford University Press, 2015				
4.	P.Suresh., "Engineering Graphics and Drawing", Sonaversity, Sona College of Technology, Salem, Revised edition, 2012.				

REFERENCES	
1.	BasantAgarwal and Agarwal C.M., "Engineering Drawing", McGraw Hill, 2nd Edition, 2019.
2.	Gopalakrishna K.R., "Engineering Drawing" (Vol. I&II combined), Subhas Publications, Bangalore, 27thEdition, 2017.
3.	Luzzader, Warren.J. and Duff, John M., "Fundamentals of Engineering Drawing with an introduction to Interactive Computer Graphics for Design and Production, Eastern Economy Edition, Prentice Hall of India Pvt. Ltd, New Delhi, 2005.
4.	Parthasarathy N. S. and Vela Murali, "Engineering Graphics", Oxford University, Press, New Delhi, 2015.
5.	Shah M.B., and Rana B.C., "Engineering Drawing", Pearson Education India, 2nd Edition, 2009.
6.	Venugopal K. and Prabhu Raja V., "Engineering Graphics", New Age International (P) Limited, 2008.


Dr. D. SENTHIL KUMAR, M.E., Ph.D
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 DEPT. OF MECHANICAL ENGG.
 SONA COLLEGE OF TECHNOLOGY
 JUNCTION MAIN ROAD, SALEM-5

U23PHL210A	PHYSICS LABORATORY (Common to I Year B.E/B. Tech. CIVIL, MECH, FT & SFE)	L	T	P	J	C
		0	0	2	0	1

Course Outcomes

At the end of the course, the student will be able to

CO1:	Apply the principles of optics and thermal Physics to determine the engineering properties of materials.
CO2:	Apply the principles of elasticity, electricity and magnetism to determine the engineering properties of materials.
CO3:	Apply fundamental Physics principles to analyse and interpret experimental results.

Pre-requisite: Capable of using Screw gauge, Vernier calliper, Travelling microscope, able to handle interferometer.

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	3	2		1		1			1					2
CO 2	3	2		1		1			1					2
CO 3	3	2		1		1			1					2

Course Assessment methods

Direct		Indirect
CIE test I (15)	RTPS (10) Record (10) Total CIE:60 marks Semester End Examination (40 marks)	Course end survey
Quiz 1 (5)		
CIE test II (15)		
Quiz 2 (5)		

LIST OF EXPERIMENTS

1	Determination of the thickness of a thin wire by forming interference fringes using air wedge apparatus.
2	Determination of the wavelength of a diode laser.
3	Determination of particle size of lycopodium powder using diode laser.
4	Determination of acceptance angle and numerical aperture of an optical fibre using diode laser.

5	Determination of the thermal conductivity of a bad conductor using Lee's Disc apparatus.
6	Determination of velocity of ultrasonic waves and compressibility of the given liquid using ultrasonic interferometer.
7	Determination of Rigidity Modulus of given wire using Torsion Pendulum.
8	Determination of Young's modulus of the material of the beam by Non-uniform bending method.
9	Determination of coefficient of viscosity of liquid by Poiseuille's method.
10	Determination of hysteresis loss using B-H curve method.
	TOTAL : 30 HOURS

C. Shanthi
14.6.2025

Dr. C. Shanthi
HOD / Science

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Professor of Physics
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M. Renuga
14/6/25

Dr.M. Renuga
BoS - Chairperson,
Science and Humanities

Dr. M.RENUGA,
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Department of Humanities & Languages
Sona College of Technology,
SALEM - 636 005.

U23BEEL213C	BASICS OF ELECTRICAL, ELECTRONICS AND INSTRUMENTATION ENGINEERING LABORATORY	L	T	P	J	C
		0	0	2	0	1

Course Outcomes

At the end of the course, the students will be able to

- CO1: calculate the electrical parameters of DC circuits using basic circuit laws and to determine the loop currents and nodal voltages of DC circuits.
- CO2: analyze the performance characteristics of electron devices using circuit components.
- CO3: design an electrical circuit for real-time textile applications.

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	2	-	-	3	2	2	3	3	3
CO2	3	3	3	2	2	2	-	-	3	2	2	3	3	3
CO3	2	3	3	2	2	2	-	-	3	2	2	3	3	3

Course Assessment methods

Direct		Indirect
CIE test I (15)	RTPS (10)	Course end survey
Quiz I- (5)	Record (10)	
CIE test II (15)	Total CIE: 60 marks	
Quiz II- (5)	Semester End Examination: 40 marks	

LIST OF EXPERIMENTS

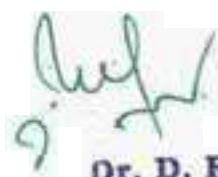
1. Verification of Ohm's Law and Kirchhoff's Laws.
2. Measurement of power and power factor for series RLC circuit
3. Load characteristics of DC shunt motor.
4. Load test on self-excited DC generator.
5. Speed control of DC shunt motor.
6. VI characteristics of BJT(CE Configuration) and MOSFET
7. Measurement of inductance using Anderson Bridge.
8. Measurement of capacitance using Schering Bridge.
9. Assembly, Integration techniques of electronics components in smart garments and continuity testing.
10. Development of sensors and switches using conductive yarn and conductive fabric.
11. Design and analysis of half wave and full wave rectifiers.
12. Practical study of conductive yarn and its electrical properties.

S. Padma
27/1/23
Dr. S. PADMA, M.E., Ph.D.,
Professor and Head,
Department of EEE,

Theory: --	Tutorial: --	Practical: 30 Hrs	Project:--	Sona College of Techno Total Hrs: 30 Hrs item-636-005, Tamil
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U23FT201	DIGITAL FASHION FOUNDATION LABORATORY				L	T	P	J	C					
					1	0	2	0	2					
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	1. Demonstrate a comprehensive understanding of fashion, including proficiency in fashion figure drawing, colour theory application, and the ability to identify and analyse design features and style variations in various garment categories.													
CO2:	2. Analyse and apply the fundamental design elements in garment design, demonstrating an understanding of both structural and decorative aspects and to articulate the effects of these design elements on apparel of various silhouettes and their types.													
CO3:	3. Apply design principles in the context of apparel and demonstrate an understanding of how these principles impact both the functionality and aesthetics of garments to give a harmonious and visually appealing product.													
Pre-requisite: -														
CO/PO, PSO Mapping (3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
Cos	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	3	1	3	3	-	-	2	3	1	1
CO2	3	3	1	3	3	2	3	1	1	-	2	3	2	-
CO3	3	3	3	3	3	3	3	-	-	-	2	3	3	1
Course Assessment methods														
Direct										Indirect				
CIE test I (10) – Laboratory Quiz 1 (5) CIE test II (10) - Laboratory Quiz 2 (5)				CIE III (10) - Theory Record (10) Total CIE: 50 marks Semester End Examination: (50 marks) SEE :Laboratory						Course end survey				
Unit 01: INTRODUCTION AND OVERVIEW OF FASHION										5 Hours				
Introduction, definition, fashion figure drawing and rendering, color theory and its application in fashion. Overview of garment categories, design features and style variations of tops and blouses, Bottoms: pants, skirts, and shorts, dresses, jumpsuit, outerwear and jackets.														
Unit 02: ELEMENTS OF DESIGN										5 Hours				
Introduction: Garment Design: structural design and decorative design Elements of design: Line, Size, Shape, Texture, Form, Colour and light - effects of elements of design in the apparel. Silhouettes, types and their application														
Unit 03: PRINCIPLES OF DESIGN										5 Hours				
Principles of design: Introduction to principles of designs - Balance, Proportion, Emphasis, Rhythm, Harmony. effects of principles of design in the apparel, Principles on functionality and aesthetics														

LIST OF EXPERIMENTS				30 Hours
Practice using design software				
<ol style="list-style-type: none"> 1. Develop a croquis using 8 and 10 head theory 2. Illustrate different hair styles 3. Develop a design following line, shape and size as an elements of design 4. Develop a design following texture as an elements of design 5. Develop a design following colour as an elements of design 6. Develop a design following balance and proportion as principles of design 7. Develop a design following emphasis and rhythm as principles of design 8. Develop a design following harmony as principles of design 9. Develop flat sketches for men, women and kids garment 				
Theory: 15 Hrs	Tutorial: 0	Practical: 30	Project: 0	Total Hours: 45 Hrs
TEXT BOOKS				
1.	Faerm, S. (2021). Fashion Design Course: Principles, Practice, and Techniques: A Practical Guide for Aspiring Fashion Designers. Thames & Hudson.			
2.	McKelvey, K., & Munslow, J. (2021). Fashion Design: Process, Innovation, and Practice. Wiley.			
3.	Hopkins, J. (2020). Fashion Design: The Complete Guide. Laurence King Publishing.			
4.	Schaffer, J. (2020). Fashion Design Course: Accessories: Design Practice and Processes for Creating Hats, Bags, Shoes, and More. Thames & Hudson.			
REFERENCES				
1.	Jones, S. J. (2021). Fashion Design Course: Principles and Practice of Costumes and Stage Wear. Fairchild Books.			
2.	Stone, E. (2021). Fashion Design Course: Accessories. Thames & Hudson.			
3.	Seelenbinder, D. (2022). Fashion Design: A Guide to the Industry and the Creative Process. Bloomsbury Visual Arts.			
4.	Joseph-Armstrong, H. (2020). Patternmaking for Fashion Design. Pearson			



Dr. D. RAJA, M.Tech., Ph.D.,
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 Department of Fashion Technology
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 Salem - 636 005. Tamil Nadu

U23WPL214	WORKSHOP PRACTICE (Common to MCT and FT branches)					L	T	P	J	C				
						0	0	2	0	1				
Course Outcomes														
At the end of the course, the student will be able to														
CO1:	Perform the various techniques of sheet metal fabrication.													
CO2:	Analyse various techniques of welding and carpentry works.													
CO3:	Solve the real-time problems using sheet metal, welding and carpentry.													
Pre-requisite: Nil														
CO/PO, PSO Mapping														
(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak														
COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1							3				2	2	
CO2	1							3				2	2	
CO3	1							3				2	2	
Course Assessment methods														
Direct						Indirect								
CIE test I (15) Quiz I- (5) CIE test II (15) Quiz II- (5)						RTPS (10) Record (10) Total CIE: 60 marks Semester End Examination (40 marks)					Course end survey			

Importance of workshop practice- Introduction to Measuring and marking devices, Tools and equipment Maintenance - Workshop apparatus - Human safety practices - First aid procedures.
(Not for Examination)

LIST OF EXPERIMENTS

SECTION 1:	SHEET METAL Making of Cone, Dust Pan and Funnel.	8 hours
SECTION 2:	WELDING Arc welding of Butt joint and Lap joint.	8 hours
SECTION 3:	CARPENTRY Making of Half Lap joint and Dovetail joint.	8 hours
Demonstration:	FOUNDRY PRACTICES Simple pattern making	6 hours
		Total Number of hours: 30

Theory: --

Tutorial: --

Practical: 30 Hrs

Project: --

Total Hours: 30 Hrs


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U23TAM201	தமிழரும் தொழில்நுட்பமும்	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Describe the weaving and ceramic technology					
CO2:	Explain the design and construction technology					
CO3:	Analyse the manufacturing technology					
CO4:	Describe the agriculture and irrigation technology					
CO5:	Explain the Scientific Tamil and Tamil Computing					
Course Assessment methods						
Direct				Indirect		
CIE test I (30)		Total CIE: 100 marks		Course end survey		
CIE test II (30)		Semester End Examination: NIL				
CIE test III (40)						
Unit 01: WEAVING AND CERAMIC TECHNOLOGY						3 Hours
அலகு I <u>நெசவு மற்றும் பாணைத் தொழில்நுட்பம்:</u> சங்க காலத்தில் நெசவுத் தொழில் - பாணைத் தொழில்நுட்பம் - கரும்பு சிவப்பு பாண்டங்கள் பாண்டங்களில் கீறல் குறிப்புகள்.						
Unit 02: DESIGN AND CONSTRUCTION TECHNOLOGY						3 Hours
அலகு II <u>வடிவமைப்பு மற்றும் கட்டிடத் தொழில்நுட்பம்:</u> சங்க காலத்தில் வடிவமைப்பு மற்றும் கட்டுமானங்கள் & சங்க காலத்தில் வீட்டுப் பொருட்களில் வடிவமைப்பு- சங்க காலத்தில் கட்டுமான பொருட்களும் நடுகல்லும் - சிலப்பதிகாரத்தில் மேடை அமைப்பு பற்றிய விவரங்கள் - மரமல்லுரச் சிற்பங்களும், கோவில்களும் - சோழர் காலத்துப் பெருங்கோயில்கள் மற்றும் பிற வழிபாட்டுத் தலங்கள் - நாயக்கர் காலக் கோயில்கள் - மாதிரி கட்டமைப்புகள் பற்றி அறிதல், மதுரை மீனாட்சி அம்மன் ஆலயம் மற்றும் திருமலை நாயக்கர் மஹால் - செட்டிநாட்டு வீடுகள் - பிரிட்டிஷ் காலத்தில் சென்னையில் இந்தோ-சாரோசெனிக் கட்டிடக் கலை.						
Unit 03: MANUFACTURING TECHNOLOGY						3 Hours
அலகு III <u>உற்பத்தித் தொழில் நுட்பம்:</u> கப்பல் கட்டும் கலை - உலோகவியல் - இரும்புத் தொழிற்சாலை - இரும்பை உருக்குதல், எஃகு - வரலாற்றுச் சான்றுகளாக செம்பு மற்றும் தங்க நாணயங்கள் - நாணயங்கள் அச்சுத்தல் - மணி உருவாக்கும் தொழிற்சாலைகள் - கல்மணிகள், கண்ணாடி மணிகள் - சுடுமண் மணிகள் - சங்கு மணிகள் - எலும்புத்துண்டுகள் - தொல்லியல் சான்றுகள் - சிலப்பதிகாரத்தில் மணிகளின் வகைகள்.						
Unit 04: AGRICULTURE AND IRRIGATION TECHNOLOGY						3 Hours
அலகு IV <u>வேளாண்மை மற்றும் நீர்ப்பாசனத் தொழில் நுட்பம்:</u> அணை, ஏரி, குளங்கள், மதுகு - சோழர்காலக் குழுவித் தூய்பின் முக்கியத்துவம் - கால்நடை பராமரிப்பு - கால்நடைகளுக்காக வடிவமைக்கப்பட்ட கிணறுகள் - வேளாண்மை மற்றும் வேளாண்மைச் சார்ந்த செயல்பாடுகள் - கடல்சார் அறிவு - மீன்வளம் - முத்து மற்றும் முத்துக்குளித்தல் - பெருங்கடல் குறித்த பண்டைய அறிவு - அறிவுசார் சமூகம்.						
Unit 05: SCIENTIFIC TAMIL & TAMIL COMPUTING						3 Hours
அலகு V <u>அறிவியல் தமிழ் மற்றும் கணிததமிழ்:</u> அறிவியல் தமிழின் வளர்ச்சி - கணிததமிழ் வளர்ச்சி - தமிழ் நூல்களை மின்பதிப்பு செய்தல் - தமிழ் மென்பொருட்கள் உருவாக்கம் - தமிழ் இணையக் கல்விக்கழகம் - தமிழ் மின் நூலகம் - இணையத்தில் தமிழ் அகராதிகள் - சொற்குவைத் திட்டம்.						

Theory: 15 Hrs	Tutorial: --	Practical: --	Project:--	Total Hours: 15 Hrs
TEXT BOOKS				
1.	தமிழக வரலாறு - மக்களும் பண்பாடும் - கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் சபை).			
2.	கணிணித் தமிழ் - முனைவர் இல. சுந்தரம். (விசுடன் பிரசுரம்). கீழடி - வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு) பொருளை - ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)			
REFERENCES				
3.	Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)			
4.	Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies.			
5.	Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies).			
6.	The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)			
7.	Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)			
8.	Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)			
9.	Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)			
10	Journey of Civilization Indus to Vaigai (R.Ramakrishna) (Published by: RMRL) – Reference Book.			


HOD

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U23TAM201	TAMILS AND TECHNOLOGY	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Describe the weaving and ceramic technology					
CO2:	Explain the design and construction technology					
CO3:	Analyse the manufacturing technology					
CO4:	Describe the agriculture and irrigation technology					
CO5:	Explain the Scientific Tamil and Tamil Computing					
Course Assessment methods						
Direct				Indirect		
CIE test I (30)		Total CIE: 100 marks		Course end survey		
CIE test II (30)		Semester End Examination: NIL				
CIE test III (40)						
Unit 01: WEAVING AND CERAMIC TECHNOLOGY						3 Hours
Weaving Industry during Sangam Age – Ceramic technology – Black and Red Ware Potteries (BRW) – Graffiti on Potteries						
Unit 02: DESIGN AND CONSTRUCTION TECHNOLOGY						3 Hours
Designing and Structural construction House & Designs in household materials during Sangam Age - Building materials and Hero stones of Sangam age – Details of Stage Constructions in Silappathikaram - Sculptures and Temples of Mamallapuram - Great Temples of Cholas and other worship places - Temples of Nayaka Period - Type study (Madurai Meenakshi Temple)- Thirumalai Nayakar Mahal - Chetti Nadu Houses, Indo - Saracenic architecture at Madras during British Period.						
Unit 03: MANUFACTURING TECHNOLOGY						3 Hours
Art of Ship Building - Metallurgical studies - Iron industry - Iron smelting, steel -Copper and gold- Coins as source of history - Minting of Coins – Beads making-industries Stone beads -Glass beads - Terracotta beads -Shell beads/ bone beats - Archeological evidences - Gem stone types described inSilappathikaram.						
Unit 04: AGRICULTURE AND IRRIGATION TECHNOLOGY						3 Hours
Dam, Tank, ponds, Sluice, Significance of Kumizhi Thoompu of Chola Period, Animal Husbandry - Wells designed for cattle use - Agriculture and Agro Processing - Knowledge of Sea - Fisheries – Pearl - Conche diving - Ancient Knowledge of Ocean - Knowledge Specific Society						
Unit 05: SCIENTIFIC TAMIL & TAMIL COMPUTING						3 Hours
Development of Scientific Tamil - Tamil computing – Digitalization of Tamil Books – Development of Tamil Software – Tamil Virtual Academy – Tamil Digital Library – Online Tamil Dictionaries –Sorkuvai Project						
Theory: 15 Hrs		Tutorial: --	Practical: --	Project:--	Total Hours: 15 Hrs	
TEXT BOOKS						
1.	தமிழக வரலாறு - மக்களும் பண்பாடும் - கே.கே. பிள்ளை (வெளியீடு: தமிழ்நாடு பாடநூல் மற்றும் கல்வியியல் பணிகள் கழகம்).					
2.	கணினித் தமிழ் - முனைவர் இல. சுந்தரம். (விகடன் பிரசுரம்). கீழடி - வைகை நதிக்கரையில் சங்ககால நகர நாகரிகம் (தொல்லியல் துறை வெளியீடு) பொருளை - ஆற்றங்கரை நாகரிகம். (தொல்லியல் துறை வெளியீடு)					

REFERENCES

1.	Social Life of Tamils (Dr.K.K.Pillay) A joint publication of TNTB & ESC and RMRL – (in print)
2.	Social Life of the Tamils - The Classical Period (Dr.S.Singaravelu) (Published by: International Institute of Tamil Studies).
3.	Historical Heritage of the Tamils (Dr.S.V.Subatamanian, Dr.K.D. Thirunavukkarasu) (Published by: International Institute of Tamil Studies).
4.	The Contributions of the Tamils to Indian Culture (Dr.M.Valarmathi) (Published by: International Institute of Tamil Studies.)
5.	Keeladi - 'Sangam City Civilization on the banks of river Vaigai' (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
6.	Studies in the History of India with Special Reference to Tamil Nadu (Dr.K.K.Pillay) (Published by: The Author)
7.	Porunai Civilization (Jointly Published by: Department of Archaeology & Tamil Nadu Text Book and Educational Services Corporation, Tamil Nadu)
8.	Journey of Civilization Indus to Vaigai (R.Ramakrishna) (Published by: RMRL) – Reference Book.


HOD

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U23GE201	BASIC APTITUDE-II	L	T	P	J	C
		2	0	0	0	0

Course Outcomes

At the end of the course, the students will be able to

CO1:	Solve the problems in Divisibility, Division algorithm, Successive Division and HCF & LCM. Identify Synonyms and Antonyms.
CO2:	Elucidate the problems in BODMAS rule, Approximation, Surds and Indices, Algebraic Simplification and Square root and Cube root. Choose appropriate Verbal Analogies and edit the given passages.
CO3:	Crack the problems involving Ratio and Proportion, and discuss Proportionality Theorems. Comprehend the given passages for Reading Comprehension activity and answer the questions correctly.
CO4:	Deduce the problems involving Linear equation and Quadratic equation. Demonstrate good vocabulary skill by doing the one word substitution and sentence filler exercise with high degree of accuracy.
CO5:	Interpret the logical reasoning problems from Number series, Coding and Decoding and Exhibit good expertise in detecting errors in the given sentences.

Pre-requisite:

- Basic English language and Grammar knowledge
- Knowledge in Basic Mathematics

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	3	3	2	1	1	1	3	3	3	2	3
CO2	3	3	3	2	1	1	1	3	3	3	2	3
CO3	3	3	3	2	1	1	1	3	3	3	2	3
CO4	3	3	3	2	1	1	1	3	3	3	2	3
CO5	3	3	3	2	1	1	1	3	3	3	2	3

Course Assessment methods

Direct		Indirect
CIE test I (30) - Theory	Total CIE: 100 marks Semester End Examination – NIL	Course end survey
CIE test II (30) - Theory		
CIE test III (40) - Theory		

Unit 01	6 Hours
Number Properties: Classification of numbers - Divisibility - Division algorithm - Successive Division - HCF and LCM - Problems Verbal Aptitude: Synonyms and b. Antonyms	
Unit 02:	6 Hours
Simplification: BODMAS Rule - Approximation - Surds and Indices - Algebraic Simplification - Square root and Cube root - Problems Verbal Aptitude: Verbal analogy, Editing passages	
Unit 03:	6 Hours
Ratio and Proportion : Ratio - Properties of Ratios - Compound Ratio - Coin based problems - Proportion - Proportionality Test - Proportionality Theorems - Inverse Proportion - Variation - Problems Verbal Aptitude: Reading Comprehension	
Unit 04:	6 Hours
Equations: a. Linear equation: Simultaneous Linear Equations - Consistent System - Inconsistent System - Problems b. Quadratic Equation: Different Ways to Express the Quadratic Equation - Discriminant of the Quadratic Equations - Roots - Nature of the Roots - Relation between roots and coefficient of equation - Formation of a Quadratic Equation - Problems Verbal Aptitude: One word substitution , Sentence filler words	
Unit 05:	6 Hours
Logical Reasoning : Number series – Coding and Decoding – Problem Verbal Aptitude: Error detection	
Theory: 30 Hrs	Tutorial: 0
Practical: 0	Project: 0
Total Hours: 30 Hrs	
TEXT BOOKS	
1.	S.Chand and Dr.R.S.Aggarwal, "Quantitative Aptitude for competitive examinations", S Chand and Company Limited 2019.
2.	Nishit K.Sinha, "Logical Reasoning and Data Interpretation", Pearson 2021.


 Dr.S.Anita
 Professor & Head
 Department of Training

U23GE202	Disaster Management and Preparedness	L	T	P	J	C
		2	0	0	0	0

Course Outcomes

At the end of the course, the students will be able to

CO1:	Explain basic disaster concepts, causes, and vulnerability in India.
CO2:	Classify natural and man-made disasters and their impacts.
CO3:	Apply disaster risk reduction measures and disaster management cycle.
CO4:	Describe disaster management policies, institutions, and stakeholder roles in India.
CO5:	Analyze the role of development and technology in disaster management.

Pre-requisite:

Nil

CO/PO, PSO Mapping

(3/2/1 indicates the strength of correlation) 3-Strong, 2-Medium, 1-Weak

COs	Programme Outcomes (POs) and Programme Specific Outcomes (PSOs)													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	-	-	2	2	-	-	-	-	-	-	-
CO2	2	3	-	-	-	2	3	-	-	-	-	-	-	-
CO3	-	2	3	2	-	2	2	-	-	-	-	-	-	-
CO4	-	-	-	-	-	3	2	2	2	2	-	-	-	-
CO5	-	-	2	2	3	-	3	-	-	-	-	2	-	-

Course Assessment methods

Direct		Indirect
CIE Test I (30) Theory CIE Test II (30) Theory CIE Test III (40) Theory	Total CIE: 100 marks Semester End Examination - Nil	Course end survey

UNIT-I - INTRODUCTION				06 Hours
Concepts and definitions: disaster, hazard, vulnerability and its types, risk-severity, frequency, impact, prevention, mitigation. Causes for Disasters. Vulnerability profile of India				
UNIT-II - DISASTERS AND ITS IMPACTS				06 Hours
Disaster's classification: natural disasters (floods, cyclones, earthquakes, landslides, forest fires, etc.); manmade disasters (industrial pollution, transportation accidents, terrorist strikes, etc.) Disaster impacts and their effects				
UNIT-III - DISASTER RISK REDUCTION (DRR)				06 Hours
Disaster management cycle - its phases: (prevention, mitigation, preparedness, relief, and recovery); structural and non-structural measures; early warning systems; post-disaster environmental response.				
UNIT-IV - DISASTER MANAGEMENT IN INDIA				06 Hours
Indian Disaster Management Act 2005- Policy on Disaster Management. Roles and responsibilities of NGOs, the community, and army forces. DRR programmes and the activities in India.				
UNIT-V - DEVELOPMENT AND TECHNOLOGY FOR DISASTER MANAGEMENT				06 Hours
Relationship between disaster and development. Reconstruction and development methods for disasters. Geo-informatics in Disaster Management (RS, GIS, IOT). Accessibility and Emergency Services for People with Disabilities.				
Theory: 30 Hrs	Tutorial: --	Practical: --	Project:--	Total Hours: 30 Hrs
TEXT BOOKS				
1.	Ghosh G.K., 2006, Disaster Management, APH Publishing Corporation.			
2.	Singh B.K., 2008, Handbook of Disaster Management: Techniques & Guidelines, Rajat Publication.			
3.	Pradeep Sahni, 2004, Disaster Risk Reduction in South Asia, Prentice Hall.			
REFERENCES				
1.	Disaster Medical Systems Guidelines. Emergency Medical Services Authority, State of California, EMSA no.214, June 2003.			
2.	Inter-Agency Standing Committee (IASC) (Feb. 2007). IASC Guidelines on Mental Health and Psychosocial Support in Emergency Settings. Geneva: IASC.			
3.	http://ndma.gov.in/ (Home page of National Disaster Management Authority).			
4.	http://www.ndmindia.nic.in/ National Disaster management in India, Ministry of Home.			



Raj

U23OL1201	French - II				L	T	P	J	C
					1	0	0	0	1
Course Outcomes									
At the end of the course, the student will be able to									
CO1:	Accept and refuse of an invitation, give some instruction of do's and don'ts, converse in commercial centres, write an invitation								
CO2:	Describe a city, locate a place in a city, ask further details, describe one's hometown								
CO3:	Talk about things around us, recite a past event, identify sign boards, express agree and disagree, express obligation and prohibition, sell an object in online								
CO4:	Talk about one's goals, express one's feelings, write a list of things to do, express an opinion, talk about weather, draft a mail response								
CO5:	Express one's interest and wish, describe a pet animal, express one's aversions, encourage others, write to ask for a help, narrate a past event, write a biography								
Course Assessment methods									
Direct					Indirect				
CIE test I (30)			Total CIE: 100 marks		Course end survey				
CIE test II (30)			Semester End Examination: NIL						
CIE test III (40)									
Unit 01:							3 Hours		
Hr 2: City shopping and services, conjugation: payer, manger and acheter, negative sentence									
Hr 4: Imperative sentence, food and beverages, utensils, cutleries, corckeries									
Hr 6: Quantitative articles, quantities, pronoun 'en', express appreciation, write an invitation									
Unit 02:							3 Hours		
Hr 8: City and localities, Conjugation: prendre, adjectives of place, pronoun 'y'									
Hr 10: Transport, leisure activities, preposition of place, degrees of comparison									
Hr 12: Asking information about a new place, describe a city									
Unit 03:							3 Hours		
Hr 14: Things in a store, conjugation : faire, imparfait 2, passé composé									
Hr 16: Things in a repairing shop, computer, relative pronouns: que and qui									
Hr 18: Imperative negative, express obligation and interdiction, online sale and response									
Unit 04:							3 Hours		
Hr 20: Professions, conjugation: croire, voir, recent past tense									
Hr 22: Traveling formalities, expressing about health condition, future tense									
Hr 24: Pronoun COD, talk about weather condition, write about one's plans and projections									
Unit 05:							3 Hours		
Hr 26: Citizenship and solidarity, conjugation: connaitre and savoir, depuis vs pendant									
Hr 28: Imparfait vs passé composé, nature and environment, indirect pronouns COI									
Hr 30: Animals, conditional, talk on supporting others, write a biography									
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--		Total Hours: 15 Hrs	
TEXT BOOKS									
1. The course faculty will provide relevant audios, videos, handouts and notes.									
2. Books : Saison (Méthode de français, cahier d'activités)									
3. Reference books : La conjugaison, Dondon, Echo									

HOD

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U23OL1202	German - II				L	T	P	J	C
					1	0	0	0	1
Course Outcomes									
At the end of the course, the student will be able to									
CO1:	Use grammatical expressions appropriately in day-to-day conversation.								
CO2:	Make them frame simple sentences /questions.								
CO3:	Accentuate to start and sustain basic conversation								
CO4:	Helps them articulate thoughts in German								
CO5:	Identify the different forms of the verb								
Course Assessment methods									
Direct					Indirect				
CIE test I (30) CIE test II (30) CIE test III (40)			Total CIE: 100 marks Semester End Examination: NIL		Course end survey				
Unit 01: Nominative/accusative case, adjectives							3 Hours		
Unit 02: Modes of transportation, orientation, giving/understanding simple directions							3 Hours		
Unit 03: • Food and beverages, Modal verbs, Separable verbs							3 Hours		
Unit 04: • Simple sentences using modal / separable verbs							3 Hours		
Unit 05: • Articles of clothing							3 Hours		
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--		Total Hours: 15 Hrs	
TEXT BOOKS									
1.	Netzwerk A1								

M. Renuga
HOD 13/2/24

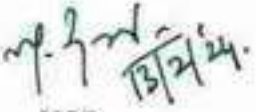
Dr. M.RENUGA,
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U23OL1203	Japanese - II	L	T	P	J	C
		1	0	0	0	1
Course Outcomes						
At the end of the course, the student will be able to						
CO1:	Use verbs in polite conversation or for dissuasion and describe two different activities					
CO2:	Demonstrate the application of causative verbs and those that express ability or possibility, and describe experiences					
CO3:	Use plain-style expressions, those that state opinions, and verbs and adjectives that go with nouns					
CO4:	Express sentences that use 'when' and 'if' and those that describe how services are given and received					
CO5:	Read 126 letters of Kanji, and demonstrate adequate knowledge of the lessons learnt in Levels I and II to pass the Japanese Language Proficiency Test (JLPT) for the N5 Level					
Course Assessment methods						
Direct			Indirect			
CIE test I (30)	Total CIE: 100 marks		Course end survey			
CIE test II (30)	Semester End Examination: NIL					
CIE test III (40)						
Unit 01:					3 Hours	
Hr 1-2: Words and verbs expressing requests / Kanji 1-10						
Hr 3-4: Asking for permission; making statements to prohibit something / Kanji 11-20						
Hr 5-6: Describing two activities / Kanji 21-30						
Unit 02:					3 Hours	
Hr 7-8: Verbs that express 'I have to ...' / Kanji 31-40						
Hr 9-10: Verbs which express ability or possibility / Kanji 41-50						
Hr 11-12: Describing experience / Kanji 51-60						
Unit 03:					3 Hours	
Hr 13-14: Plain-style expressions / Kanji 61-70						
Hr 15-16: Expressions like 'I think that ...' / Kanji 71-80						
Hr 17-18: Qualifying nouns with verbs and adjectives / Kanji 81-90						
Unit 04:					3 Hours	
Hr 19-20: Expressions using 'When ...' / Kanji 91-100						
Hr 21-22: Describing the giving and receiving of services / Kanji 101-110						
Hr 23-24: Expressions using 'If ...' / Kanji 111-126						
Unit 05:					3 Hours	
Hr 25-26: Preparing for JLPT N5						
Hr 27-28: Preparing for JLPT N5						
Hr 29-30: Preparing for JLPT N5						
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--
						Total Hours: 15 Hrs
TEXT BOOKS						
1.	The course faculty will provide handouts / notes / course material.					
2.	Books on Basic Japanese language available in the college library.					

HOD

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U23OL1204		Korean - II			L	T	P	J	C
					1	0	0	0	1
Course Outcomes									
At the end of the course, the student will be able to									
CO1:	Identify time								
CO2:	Identify the date and days of the week								
CO3:	Explain location and places								
CO4:	Explain destination								
CO5:	Construct simple sentences / questions.								
Course Assessment methods									
Direct					Indirect				
CIE test I (30) CIE test II (30) CIE test III (40)					Total CIE: 100 marks Semester End Examination: NIL Course end survey				
Unit 01: Time							3 Hours		
Talking about time									
Unit 02: Date							3 Hours		
Talking about dates and days of the week Talking about doing something in the past									
Unit 03: Location							3 Hours		
Talking about location Talking about doing something at a location									
Unit 04: Direction							3 Hours		
Talking about directions									
Unit 05: Future							3 Hours		
Talking about doing something in the future Talking about plans for the future Talking about hope for the future									
Theory: 15 Hrs		Tutorial: --		Practical: --		Project:--		Total Hours: 15 Hrs	
REFERENCES									
1	Vitamin Korean - 1								


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U23OL1205	Hindi - II		L	T	P	J	C
			1	0	0	0	1
Course Outcomes							
At the end of the course, the students will be able to							
CO1:	Write Tenses and Self – Introduction						
CO2:	Write Hindi numbers & sentence Translations						
CO3:	Read and Write comprehension question & days of the week						
CO4:	Read and frame sentences (Story) & part of the body						
CO5:	Communicate effectively using tenses (Conversation)						
Course Assessment methods							
Direct				Indirect			
CIE test I (30) CIE test II (30) CIE test III (40)			Total CIE: 100 marks Semester End Examination: NIL		Course end survey		
Unit 01: Tenses and Self – Introduction						3 Hours	
Learning Hindi pronunciation Speaking based on Tenses (Present, past & future) Reading Writing							
Unit 02: Hindi Numbers & Sentence Translations						3 Hours	
Reading Writing Letters pronunciation Meanings learning							
Unit 03: Comprehension question & Days of the week						3 Hours	
Reading & analysing the meaning Learning							
Unit 04 : Story and Part of the body						3 Hours	
Words meaning Reading & Writing Sentence framing							
Unit 05 : Conversation and Colours name						3 Hours	
Conversation between a boy and Doctor Coersation between Taxi driver and Passenger							
Theory: 15 Hrs		Tutorial: --	Practical: --	Project:--	Total Hours: 15 Hrs		
REFERENCES							
1	Diploma in Hindi (department of higher education, Delhi)						
2	Hindi Prachara sabha exam books (Pratharnic and Madhyama)						

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