Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Textile Technology
Choice Based Credit System (CBCS) in Light of NEP-2020
Diploma in Textile Engineering
(2021-2024)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTTX302	DCS	Yarn Formation Technology-I	60	20	20	30	20	3	0	2	4

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical; **C** – Credit.
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

1. To understand the processing of textile fibres on Blow Room, and Card.
2. To demonstrate conceptual knowledge to solve the problem in Blow Room, and Card.
3. To investigate the reasons of various problems and their solution in Blow Room, and Card.

Course Outcomes (COs)

Student will be able

1. To apply their knowledge for the production, processing of various fibers and analyse the problem of various faults occurring in Blow Room, and Card machines.
2. To apply their knowledge for setting of machine parameters for various textile fibers.

Syllabus:

Unit I: Ginning

Characteristic of cotton fiber, Ginning of cotton fibers, Different types of ginning, roller ginning, saw ginning, Importance of the ginning to eliminate the contamination in the yarn, The scenario ofIndian ginning industries.

Unit II: Blow Room

Objects of blow room, Principles of opening, cleaning, and blending, Preparation of uniform lap, Principal of blow room machines and blow room lines, Recentdevelopments in blow room machinery, Assessment ofblow room performance, Calculation of blow room production.

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Unit III: Carding

Object of carding, Principles of working, Construction and working of different parts of the card, Type of card clothing, Concept of chute feed, Factors influencing the design of carding machines, Elements, and effect of their speed on carding performance. Assessment of card performance, Production calculation, Waste % and draft etc. Concept of coiling.

Unit IV: Manmade Fiber Processing

Characteristics of manmade fibres, Object of blending, Types of blending, Processing, and difficulties of manmade fibres in blow room, carding, and draw frame, Idea of fibre distribution in yarns, factors affecting the blend irregularity.

Unit V: General Process Parameters and Maintenance

Environmental condition for various fibers in blow room, and carding, Process parameters of different machines for different materials, General idea of speed, setting and their impact on both natural and manmade fibre processing, General idea of defects and remedies in blow room, and carding, Maintenance schedule and important supervisory check points at blow room, and carding.

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List of Practical (Expand it if needed):

1. Demonstration of spinning machines for conversion of Fiber into Yarn.
2. To study the passage and working of material through Mixing Bale Opener.
3. To study the gearing system of Mixing Bale Opener.
4. To study the passage and working of material through Hopper Feeder.
5. To study the gearing system of Hopper Feeder.
6. To study the passage and working of material through Two Blade Beater.
7. To study the gearing system of Two Blade Beater.
8. To study the passage and working of material through Lap Forming Unit.
9. To study the gearing system of Lap Forming Unit.
10. To study the passage and working of material through Carding Machine.
11. To study the gearing system of Carding Machine.

Text Books:

1. Manual of Textile Technology Vol. I, II, Klein W.,The Textile Institute, 1993.
2. Element of Raw Cotton and Blow Room, Khare A R, Sai Book Centre, 1999.
3. Elements of Carding and Drawing, Khare A R, Sai Book Centre, 1999.
4. Processing of Manmade and Blends on Cotton System, 3rd Edition, Salhotra K R, Textile Association (India), 2004.
5. Cotton Opening and Picking - Gilbert Merrill
6. Cotton Carding - Gilbert Merrill
7. Spun Yarn Technology, Vol. I Blow room - Venkatasubramani
8. Spun Yarn Technology, Vol. II Carding – Venkatasubramani
9. Technology of Carding - Chattopadhyay R

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DTTX303	DCS	FABRIC FORMATION TECHNOLOGY I	60	20	20	30	20	3	0	2	4

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Course Educational Objectives (CEOs):

1. To provide the knowledge of the working principles of different weaving preparatory processes.
2. To provide the knowledge of the working principles of primary and secondary motions of the loom.

Course Outcomes (COs)

Students will be able to

1. Describe the working principles of different weaving preparatory m/c and prepare cone or cheese as per the required quality and specifications.
2. Identify and will prepare size paste recipes for natural and synthetic yarns correctly.
3. Identify the working principles of primary and secondary motions of the loom and can manufacture fabrics as per the required quality and specifications.

Syllabus:

Unit I: Weaving Preparatory Process I:

Objectives of Winding, Classification of winding machines, Passage of yarn through winding machines, Passage of yarn through pirn winding machine, Different features of Automatic high speed winding machines. Objectives of warping, Classification of warping machines. Passage of warp yarn through warping machines. Classification of faults and their remedial measures.

Unit II: Weaving Preparatory Process II:

Objectives of sizing, classification of sizing machines, passage of warp yarn through sizing machines, various types of size ingredients used in sizing, detailed study of various drying systems. Manual and automatic drawing-in and knotting process. Various weaving preparatory process related calculations.

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Unit III:Introduction to Weaving Process:

Objectives of weaving, classification of weaving machines, passage of warp yarn through the weaving machines, function of different parts of the loom, main shaft of the loom and their speed ratio, driving arrangement of the loom and loom speed calculation.

Unit IV:Primary Motions of the loom:

Different types of primary motions, Shedding – its various types and devices, positive and negative shedding, Negative tappet shedding mechanism, Picking classification, mechanism of Over and Under pick motions, causes of shuttle flying and shuttle trap. Beat-up motion, factors affecting sley movement, sley eccentricity and its effect.

Unit V: Secondary Motions of the loom:

Different types of secondary motions, Let-off motions: Negative and positive let-off motion.

Take- off motions: 7-wheel take-up motion, Dividend calculation, continuous take up motion,

Electronic let-off and take up motion.

List of Practical (At least 10 practical experiments to be performed by each student):

1. To study the yarn passage through cone winding machine.
2. To study the warp passage through beam warping machine.
3. To study the warp passage through sizing machine.
4. To study the warp passage through the loom.
5. To study the working of negative tappet shedding mechanism.
6. To study the working of cone over picking mechanism.
7. To study the working of side lever under picking mechanism.

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8. To study the working of cone under picking mechanism.
9. To study the working of beat-up mechanism.
10. To study the working of negative let off motion.
11. To study the working of 7 wheel take up motion mechanism.
12. To study the working of Ruti positive let off motion.

Text Books:

1. M. K. Talukdar, An Introduction to winding and Warping Testing Trade Press, Mumbai, 1982.
2. Modern Preparation and Weaving by Ormerod, Merrow Publication Co. U.K., 1988.
3. Sizing: Material Methods and Machineries by D. B. Ajgaonkar, M. K Talukdar and Wedekar, Mahajan Publications Ahmedabad, 1999.
4. Weaving Calculation by Sengupta, D.B. Taraporevala Sons and Co; 5th rev. & enl. ed edition (January 1, 1971)

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DTTX304	DCS	FABRIC STRUCTURE I	60	20	20	30	20	3	0	2	4

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***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

1. To understand and design basic fabric structures (like plain, twill and satin structures as per specifications.
2. To identify and differentiate different derivatives of basic weaves and their effect in fabric

Course Outcomes (COs)

Students will be able to

1. To develop new woven fabric design.
2. To make honeycomb, welt structures.
3. To solve technical problems related to basic fabric structures on the loom.
4. To provide suitable draft and peg plan for a given weave for making design.

Course Contents:

Unit I: Classification of weaves and study of plain weave

Fabric classification, Weave notation and weave repeat, Introduction to design, drafting and peg-plan systems and their relationship, Plain weave and its derivatives e.g. warp rib, weft rib and hopsack/ matt.

Unit II: Twill Weave

Twill weave its different types and derivatives e.g., pointed, curved, broken, elongated, transposed, fancy and cork-screw.

Unit III: Modification of Twill weaves

Diamond, Honeycomb ordinary honeycomb and brighton honeycomb, Mockleno, Huckaback, crepe weave.

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DTTX304	DCS	FABRIC STRUCTURE I	60	20	20	30	20	3	0	2	4

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Unit IV: Sateen and satin weave

Types of sateen, Construction of sateen, Examples on weft sateen, Construction of warp satin weaves, Draft and peg plan for sateen's or satins , Modification of sateen.

Unit V: Colour-and-weave effects

Principles of colour-and-weave effects ,Examples on colour and weave effect ,Development of colored stripe for Plain with 1:1 colouring , Development of patterns with compound coloring, Development of dogstooth and houndstooth ,Stepped twill , Birds eye view , Stripe and check effect.

List of Practical (Expand it if needed):

1. To study the design, draft and peg-plan of Plain weave
2. To study the design, draft and peg-plan of Satin and sateen weave
3. To study the design, draft and peg-plan of honeycomb
4. To study the design, draft and peg-plan of Brighton honeycomb
5. To study the design, draft and peg-plan of bed ford cord
6. To study the design, draft and peg-plan of welt and pique
7. To study the design, draft and peg-plan of twill
8. To study the colour and weave effects for strip weave
9. To study the colour and weave effects for check weave
10. To study the reed and heald count systems and related calculations

Text Books:

1. Textile Design & Color - Grosicki Watsons , Woodhead Publishing, 1977
2. Fabric Structure and Design, N. Gokarneshan, New Age International (P) Ltd,2005
3. Woven fabric structure design and product planning, Hayavadana, J, Woodhead, Publishing India in textiles, Materialsnetbase, CRC Press,2015

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DTTX305	DCC	Introduction to Natural Fibres	60	20	20	0	0	3	0	2	4

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***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

1. To provide the knowledge of principle and manufacturing process of natural.
2. To impart the knowledge of various properties of different natural fibre.
3. To expose the knowledge of structural properties of fibre.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills and attitudes.
The students will be able to

1. Explain the knowledge of fiber forming polymers and methods of polymerization.
2. Explain the structure of natural fibers.
3. Understand basic fiber characterization techniques.
4. Demonstrate their knowledge of various fibres and their properties and evaluate the properties of different natural and manmade fibre accurately.

Syllabus

Unit I Introduction to Polymers **9h**

Basic concept of polymer, their classification, methods of polymerization, molecular weight and its measurement, distribution and importance.

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Unit II Introduction to different Textile Terminologies and Fibres **9h**

Definition of terms like staple length, filament, fineness etc. Structure of Fibres: basic requirements for fibres formation, concept of order and morphology, molecular packing in crystalline and amorphous regions, physical structure of principal natural and manmade fibres.

Unit-III Fibre Characterization Techniques **9h**

Study of fiber structures & methods of investigating fiber structures e.g. X-ray diffraction, optical and electron microscopy, I R absorption, thermal methods NMR.

Unit-IV Introduction to Natural Fibres **9h**

General classification of fibres. Structure, properties and uses of cotton fibre. Structure, properties and uses of bast fibers, Structure, properties and uses of Cellulosic Fibre.

Unit-V Introduction to Natural Lignocellulosic, Protein and Mineral Fibre **9h**

Structure, properties and uses of Lignocellulosic, Natural Fibres ex. Jute, sisal, flax. structure, properties, uses and brief description of wool and silk fibres.

List of Experiments:

1. Identification of Natural fibres by optical microscope for longitudinal view: Cotton, Jute,

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Wool, Silk.
2. Identification of Synthetic fibres by optical microscope for longitudinal view: Viscose, Polyester, Nylon.
3. Identification of Natural fibres by optical microscope for cross sectional view: Cotton, Jute, Wool, Silk.
4. Identification of Synthetic fibres by optical microscope for cross sectional view: Viscose, Polyester, Nylon.
5. Identification of Natural fibres by burning test: Cotton, Jute, Wool, Silk.
6. Identification of Synthetic fibres by burning test: Viscose, Polyester, Nylon.
7. Identification of Natural fibres by chemical test: Cotton, Jute, Wool, Silk.
8. Identification of Synthetic fibres by chemical test: Viscose, Polyester, Nylon.
9. Identification of Natural fibre blend components from yarn.
10. Identification of Synthetic fibre blend components from yarn.

Text Books:

1. Manufactured Fibre Technology, Gupta, V.B., Kothari, V.K., Springer, 1997.
2. Textile Science: An Explanation of Fibre Properties, Gohl, E. P. G., Vilensky, L. D., CBS Publisher, 1984.
3. Handbook of Textile Fibre Structure, Eichhorn, S., Hearle, J. W.S., Kikutani, T., Jaffe. M., ELSEVIER, Vol. 1, 2009.

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1. The Chemistry of Textile Fibres, Mather, R. R., Wardman, R. H., Royal Society of Chemistry, 2015.
2. Production of Synthetic Fibres – Vaidya, A. A., Prentice Hall of India, Private Limited, New Delhi, 1998.
3. Manmade Fibres - Their origin and development, Seymour, R.B., Porter, R.S., Springer Dordrecht, XII, 1993.
4. Manmade Fibers – Moncrief, R.W., Halstead Press, New York, 1975.

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