

*Placed at the meeting of  
Academic Council  
held on 30.03.2021*

**APPENDIX – G**  
**MADURAI KAMARAJ UNIVERSITY**  
*(University with Potential for Excellence)*

**Syllabus for**  
**One Year Diploma in Textiles and Handlooms**  
**(Under Semester Pattern - NSQF Programme)**  
**With effect from the academic year 2021-2022**  
**Regulations, Scheme of Examination and Syllabus**

**Eligibility for the Award of Diploma :** No candidate shall be eligible for the Diploma unless he/she has completed the +2 (Higher Secondary Course) Exam conducted by the State Board of Education, Tamil Nadu and has passed the prescribed examination.

**Examinations :** External Examination in all subjects of the semester under the scheme of examinations will be conducted at the end of year. The sessional marks in all the subjects will be awarded on the basis of continuous internal assessment earned during the year concerned. For each subject 25 marks are allotted for internal assessment and 75 marks are allotted for External Examination.

**Continuous Internal Evaluation Theory (Internal Assessment Mark 25 Marks) :** It has been decided to introduce Continuous Internal Assessment marks for a total of 25marks, which are to be distributed as follows:

**Attendance: 5 Marks**

(Award of marks for attendance will be as per the range given below)

80% - 83% 1 Mark

84% - 87% 2 Marks

88% - 91% 3 Marks

92% - 95% 4 Marks

96% - 100% 5 Marks

**Test: 10 Marks :** 3 Tests each of 2 hours duration for a total of 30 marks is to be conducted out of which the best two will be taken and the marks to be reduced to 10.

**Question Paper Pattern for Internal Exam:**

5 Objective Questions x 1 Mark ... 05 Marks  
5 Either or Questions x 3 Marks ... 15 Marks  
2 (out of 3) Questions x 5 Marks ... 10 Marks

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30 Marks  
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**Assignment: 10 Marks :** For each subject three Assignments are to be given each for 20 marks and the average marks scored should be reduced for 10 marks.

All the mark entries for assignment, test and attendance should be entered in the personal logbook of the staff handling the subject. This is applicable to the theory subjects.

**Criteria for Pass**

1. No candidate shall be eligible for the award of Diploma unless he/she has undergone the prescribed courses of study successfully in an institution approved by UGC and MKU pass all the subjects prescribed in the syllabus.

2. A candidate shall be declared to have passed the examination in a subject if he/she secures not less than 40% in theory, subject out of the total prescribed maximum marks including both the sessional and the external Examination marks put together, subject to the condition that he/she has to secure at least a minimum of 30 marks out of 75 marks in the Board's Theory Examinations.

**Question Paper Pattern for External Exam:**

10 Objective Questions x 1 Mark ... 10 Marks  
5 Either or Questions x 7 Marks ... 35 Marks  
3 (out of 5) Questions x 10 Marks ... 30 Marks

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75 Marks  
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External Exam Duration 3 Hours.

## Scheme of Examination

DIPLOMA IN TEXTILES AND HANDLOOMS							
No.	Course Name	Subject	Hours	Credit	Internal Marks	External Marks	Total Marks
01	Handloom Weaving Technology	Core	90	5	25	75	100
02	Textile Management	Core	90	5	25	75	100
03	Textile Marketing and Merchandising	Core	90	5	25	75	100
04	Goods and Service Tax	Core	90	5	25	75	100
05	Lab- Ms Office and Tally	Core - Practical	90	5	40	60	100
	Total				140	360	500

### 01 - HANDLOOM WEAVING TECHNOLOGY

**OBJECTIVES:** To enable the students to understand the principles of handlooms weaving technology like primary, secondary, system of ties and jacquard and traditional method of designing.

**Unit-I :** Different forms of yarn packages - Purpose and use - Essential characteristic of warp and weft-Yarn Preparatory process -Warping and its requirements--Objective and importance of sizing of cotton yarn -Ingredients used in size mixture and their functions Various forms of sizing- hank sizing and street warp sizing- cotton blends-Ideal sizing-Common defects during sizing- causes and remedies.

**Unit-II :** Evolution of handlooms- functions-Types of handlooms- Motions of a handloom-definitions of primary, secondary & auxiliary, motions-Different types of shed formations – Centre Closed shed, Bottom closed shed, Top closed shed, Open-shed and Semi-open shed– roller system, pulley reversing system and jack and lam-rod system.

**Unit-III :** Picking mechanism of a handloom - Types of shuttles – Different types of reed – suitability for various fabrics-Let off motion in handlooms – ratchet and pawl, rope and weight, rope-lever and weight-Take up motion in handloom – Design and essential features of a pit loom – Structural Loom, Lay-out and relationship between the loom design and the product manufactured-Design and essential features of a frame loom.

**Unit-IV :** Introduction to numbering of yarns - Indirect system of numbering of yarns – new English cotton, new French, decimal, metric, worsted, woollen Yorkshire, linen, spun silk and spun rayon - Direct system of numbering of yarns –Evolution of universal system of numbering –Determination of conversion factor-Conversion of count of yarn -indirect to indirect Conversion of count of yarn -direct to direct-Conversion of count of yarn - indirect to direct Conversion of count of yarn - direct to indirect.

**Unit-V :** Expression of Count of folded yarns-Determination of Equivalent/Resultant Count of folded yarns-Amount of component threads in folded yarn and costing-Average Count of warp – Combination of different counts, material and system of counting -Read Count –Relation between Reed Count, cloth width, reed width and ends per inch.

**Text Books:**

1. Talukdar M. K., Sriramulu P. K. and Ajgaonkar D. B, “Weaving Machine, Mechanism, Management”, 2010.

**Reference Books:**

1. Ormerod. A and Sondhelm .W. S., “Weaving – Technology and Operations”, 2015.
2. Lord.P.R and Mohamad, “Weaving: Conversion from yarn to Fabric”, 2012.
3. Hanton, WA, “Mechanics for Textiles Student an Introduction to the study of mechanics for Textiles Student”, 2010.
4. Greenwood, Hony., “Hand book of weaving and manufacturing”, 2<sup>nd</sup> Edition, 2014.

## **02 – TEXTILE MANAGEMENT**

**OBJECTIVE :** The main objective of this subject is to impart knowledge and skills to succeed in shop floor management of Textile Industry, with specific reference to supervisory management in textiles.

**Unit – I : Concepts of Management - Planning and organising in Textile units.**

Definition, Nature, importance of Management. Planning - Purpose, steps, types of plans. Organisational levels &Span of Management. Effective organisation and various structures and types in Textile Mills. Textile Plant location and site selection - Types of industrial buildings, lighting, ventilation, Humidification. Control of Air Pollution in Textile Mills.

**Unit –II : Production & Financial functions in Textile Management:**

Factors of production - Productivity of Labour and Machine. Objectives of Work measurement – Definition of Work study. Production lay outs types with advantages and disadvantages - Inventory control and material handling in Textile Mills.- Market research and product development. Sources and types of finance.

**Unit –III: Managing Men in Textile units :** Objectives - Need & importance of Personnel Management - Manpower Planning. Recruitment - Various sources, merits and demerits – Selection techniques- Interviews, Tests and functional value. Employee Training - Advantages, types, methods and evaluation. Components of methods of wage payments with its merits & demerits - Labour welfare - Labour grievances.

**Unit –IV: Supervisory and safety management in Textile Factory:** Factory Act –Preventions and precautions –types of fire and Fire prevention& control - Guards and safety devices in Textile Mill Direction & Supervision - Role of the supervisor - Characteristics of effective supervision. Nature, importance and theories of motivation; Principles of effective Communications. Role and characteristic of leadership – Difference between leader &Manager.

## **Unit – V: International Marketing Management and Fundamentals of Entrepreneurship.**

Exim policy of India - Concepts of WTO, GATT and Globalisation. Export Market Entry - Institutional infrastructure for Textile Exports - Texprocil, Export finance & Export Pricing – Pre-shipment & post shipment finances Documentary credit, letter of credit - Export price composition - Marine Insurance Export Documents. Entrepreneurship - Meaning, Characteristic and functions of entrepreneur. Entrepreneurial Development Programmes.

### **Text Book:**

1. Management in Textiles By R. Muthusamy & Major S. Sivapathasekaran Ssm. Itt. Co-op. Stores.

### **Reference Books:**

1. Principles of Management P.C.Tripathi Tata Mcgrow Publishing Company Ltd, New Delhi.
2. Management of Textiles Dudega.V.D Trade Press, Textile Industry, Ahemadabad.
3. Industrial Eng. and Management Balasundaram. K Sri.Ramalingasowdeswari Publications, Coimbatore.
4. Personnel Management of Human Resources Mamoria.C.B Himalaya Publishing House, Mumbai.

## **03 – TEXTILE MARKETING AND MERCHANDISING**

**OBJECTIVES :** To know about basic marketing statistics, export marketing. To have knowledge about marketing firm's micro and macro environment, international markets. Product package and labelling, retail and whole sale, merchandizing, merchandizing calendar and to understand about marketing research. To know about export marketing.

### **Unit-I : BASIC CONCEPTS OF MARKETING**

Basics of Marketing - Need, Wants, demands, product, exchange and values. Marketing objectives and strategies – Market Management. Marketing Philosophies and challenges Ahead. Need and importance of Export Marketing. Services Marketing and its characteristics.

### **Unit-II : MARKETING ENVIRONMENT, SEGMENTATION & BUYER BEHAVIOR**

Marketing firm's Micro Environments, Macro Environment. Market segmentation - criteria for effective segment selection strategies. Consumer behavior - buying roles - Buyer Decision process. Segmentation of International Markets.

### **Unit-III : MARKETING MIX**

Marketing Mix - Components of Marketing Mix .Product .Product strategy; Brand, package and Labelling. - Product life cycle analysis. New product Development .Price - Place - Nature, Importance and behavior of Distribution channels. Promotion –Advertising - Copy, Media, Budget, Sales promotion. Public Relations and Personal selling.

**Unit-IV : MERCHANDISING**

Definition of Merchandizing. Function of Merchandizing Division. Role and Responsibilities of Merchandiser - Product development line Planning and Presentation. Role of merchandiser in an apparel firm. Inter relationship between the Merchandising and other divisions. Merchandising calendar and its role in the manufacturing process.

**Unit-V : MARKET RESEARCH AND EXPORT MARKETING**

Market research -Market research Process. Foreign exchange regulation acts – Exports Management risk. Indian Textile Policy and Exports Import Policy. Objectives of the following Organization: Ministry of Commerce, Ministry of Textiles. Export Promotion Councils. Export Business Negotiations stages - Selection & Appointment of foreign agent.

**TEXT BOOK:**

1. Marketing management - Abraham Koshy & Mithileshwarjha.

**Reference Books:**

1. Textile marketing & merchandising - Dr.P.S.Ravichandran, Major S.Sivapathasekaran & Naraashiman. Published by Student co-operative stores, SSMITT & PC,Kumarapalayam.
2. Marketing Management Philip Kotler & Armstrong Prentice – Hall of India (p) Ltd, New Delhi 110 001.
3. Exports Parasram Anuram Publisher, R-98, model Town –III, New Delhi 110 009.
4. Marketing Management Sherlekar Prentice – Hall of India (p) Ltd., New Delhi 110 001.

**04 – GOODS AND SERVICE TAX**

**Objective:** To understand the concept and the importance of goods and services tax in the context of Indian economy.

**Unit-I :** GST – Concept – Meaning – Definition – Objectives – Advantages, GST and Centre, State Financial Relation.

**Unit-II :** Main features of GST Law – Impact of GST – Subsuming of taxes – Types of GST – CGST – SGST – IGST – UTGST.

**Unit-III :** GST Council – Constitution – Structure – Action Plan – Quorum and Decision making of Meeting – Functions.

**Unit-IV :** Registration – Registration under GST – Procedure – Persons liable for Registration – Persons not liable for registration – Company Registration.

**Unit-V :** Computation of taxable value and tax liability – Comparative calculations with previous tax laws – Tax calculation for inter-state Sales – Value of Supply – Value of Taxable Supply – Input Tax Credit.

**Text Book:**

- 1) Goods and Services Tax – Ghousia Khatoon, Naveen Kumar C.M., & Venkatesh S.N., Himalaya Publishing House Private Ltd., Mumbai.

**Reference Books:**

1. Fundamentals of GST and Customs Act, R.G.Sha, S.K.Podder Shruthi Prabhakar.
2. Goods and Services Tax – B. Maariappa.
3. GST – The Essentials of Goods and Service Tax, Dr.Thomas Joseph, Dr.Jayajacob, Ms.Chinnu Mariamchacko.
4. Business Taxation (Good & Services Tax – GST), T.S.Reddy, Y. Hari Prasad Reddy, Margham Publications, Chennai.

**05 –MS OFFICE AND TALLY (LAB)**

**Objective :** This syllabus trains students how to use MS Office and Tally applications to carry out office and financial accounts works.

**Unit-I :** Starting Word 2007 – Creating a document – Editing – Saving – Formatting - Creating a Table – Printing a document.

**Unit-II :** Starting Excel 2007 – Editing – Inserting and deleting rows and columns – Changing width and height – Formula (Financial formula only).

**Unit- III :** Power point 2007 – Creating a new presentation – using templates – Slide transition – Slide animation.

**Unit-IV :** Opening screen of Tally – Creating company – Selecting a company – Altering a company.

**Unit-V :** Creating groups & Ledger – Alteration – deletion – Voucher entry – Payment – Receipt – Journal – Contra Voucher – Alteration – Deletion – Simple problems.

**Text Book:**

1. A first course in Computers – Sanjay Saxena, Vikas Publishing House Private Limited, Chapter 1,2,3.

**Reference Books:**

1. PC Software for Windows 2010 Made Simple – R.K. Taxali, Tata Mc Graw Hill Publishing Company Ltd., - Chapters: 9 to 32. Annexure-B.
2. Tally Accounting Software – S. Palanivel, Margham Publications, Chennai.

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