

(d) Educational qualification prescribed for the post:-

The candidate in order to be eligible for appearing in the selection examination for the post must have passed:

HSC or Matriculation with a certificate of completion of training in PMF/ Handloom weaving & dyeing from institute of Handloom weaving & Design, Khordha, Odisha.

6. Examination Fee:

The candidates other than SC/ST/PwD category have to pay a non-refundable examination fee of Rs. 200/-. The fees can be deposited only through online mode using Internet Banking/Debit Card/Credit card/UPI/other available payment methods linked with the online application form. On clicking the payment option through any of the above option of payment the candidate will be redirected to treasury portal and the amount will be deducted from candidate's account and will be deposited in the Head of Account "0051-00-104-0047-02041-000". Candidates are advised to keep with them the copy of the e-receipt as a token successful payment of required examination fee for future reference.

Application(s) without payment of examination fee (except SC/ST/PwD candidates) will be treated as incomplete and shall be liable for rejection.

7. PLAN OF EXAMINATION:

There shall be two stages such as (i) Main written Examination
(ii) Certificate Verification

Stages of Examination	Type of Examination	No. Of Paper & Marks	Duration	Remarks
Stage-I	Main written Examination to be conducted in CBRE mode	<u>One Composite Paper</u> Odia Language - 15 marks General English -15 marks General Studies- 20 marks Technical Subject- 50 marks (Handloom Weaving & Design) Total- 100 marks	90 minutes	There shall be Negative Marking @0.25 marks per each wrong Answer
Stage-II	Certificate Verification	-		Candidates two times of the vacancies in order of merit category wise shall be shortlisted for Certificate Verification.

7(i) Syllabus of Composite Paper:-
Composite Paper

Composite paper consists of 100 questions of multiple choices of the following subjects. The standard of questions in Composite paper Odia Language, General English & General Studies will be of HSC standard.

Technical subject:(Handloom Weaving & Design) -The syllabus of Technical subject is appended as Annexure-'A'.

8. Certificate Verification:-

Candidates numbering about two(2) times of the vacancies in order of merit category wise will be called for certificate verification to determine their eligibility in all respect for the post with reference to their original certificates/ documents.

9. Detailed Application Form(DAF) to be submitted at the time of Certificate Verification:

The candidates are required to submit the self attested photocopies of the following documents mentioning on each of the document “**Submitted by me**” and put their **full signature**. However, the candidates have to produce their Original certificates before the verifying officer for necessary verification.

- i. OSSC Copy of the Online Application legibly signed by the candidate at appropriate place.
- ii. Photocopy of HSC certificate & mark sheet or equivalent certificate in support of Date of Birth, issued by the concerned Board/Council.
- iii. Photocopy of certificate indicating successful completion of a training in PMF/ Handloom weaving & dyeing from institute of Handloom weaving & Design, Khordha.
- iv. ST/SC candidates claiming reservation and age relaxation must submit photocopy of caste certificate issued by the competent authority for the purpose of employment/service.
- v. SEBC category candidates claiming age relaxation must submit photocopy of valid SEBC certificate issued by the competent authority which must be **within one year prior to the closing date of online application.**
- vi. Photocopy of online disability certificate issued by UDID (by Appropriate Medical Authority) in case of PwD candidates.
- vii. Candidates have to submit a self-attested copy of certificate either of passing HSC examination with Odia as a compulsory subject, or in lieu thereof a certificate of passing Odia of M.E. standard issued by competent authority.
- viii. Photocopy of discharge certificate, identity card and document indicating the period of service rendered in defence forces in case of Ex-Servicemen candidates.
- ix. An undertaking whether availed Ex-Serviceman benefits previously or not as per the prescribed format appended as Annexure-B in case of Ex-SM candidates only.
- x. The In-Service Contractual employees claiming age relaxation must submit a copy of his/her Appointment Order along-with a certificate as per the prescribed format appended from the employer indicating therein the Date of Appointment, Period of Service completed, Post held, Nature of post, Scheme under which appointed as well as NOC from the employer.

N:B: If the In-Service Contractual Employees will fail to submit required information in the prescribed format, they cannot claim the benefits as per Rule-8 of Odisha Group-C & Group-D posts (Contractual Appointment) Rules,2013.



Annexure- A

DETAILED SYLLABUS ON CERTIFICATE COURSE ON HANDLOOM WEAVING & DESIGN

(Question papers are to be prepared as per the capacity of a 10th pass out Student passing the certificate course in Handloom Weaving & Design)

01. FABRIC STRUCTURE & CLOTH ANALYSIS

- Classification of Textiles Design
- Study of Design, Draft and peg plan
- Preparation of Design for plain weave and its derivatives
- Preparation of Design for Twill, Satin weaves & its derivatives.
- Colour and weave effect.
- Towelling of cloth, Honey Comb, Huck a back, Terry weave
- Double cloth, Tubular cloth
- Leno weave, Mock leno weave
- Extra warp, Dobby, Jacquard
- Extra weft, Jalla Weave, Insertion of Buty
- Study on tradition product of Orissa,- Bomkoi, Habaspuri, Khandua, Dhalapathar Parada.
- Product diversification for export oriented
- Solid Border Design
- Property of Fiber.
- Natural and manmade fiber, staple length, TPI (Turn per inch) , Twist , Moisture content, Strength , Single thread and lea, count

CLOTH ANALYSIS

- Equipment used for cloth analysis
- Various aspect of cloth analysis
- Quantity of yarn required per square meter of fabric

02. WEAVING MECHANISM:

Pre loom processing:-

- Winding, Warping, Type of warp, Different parts of warping machine, Denting, Drafting of threads

Type of Loom:-

- Study of various types of looms in the country,
- Classification of loom.

Types of motion

- Primary, Secondary, Auxiliary.
- Tie up arrangement
- Type of reed and heald and its uses
- Dobby- Types of Dobby- Tapped, Barrel , and lattice- Mounting of doobby
- Principle and working of Jacquard Machine- 60 hooks,100 Hooks, 200 hooks, Card cutting, lacing, harness building

96 125

03. TEXTILE CHEMISTRY

Use of water in handloom industry:

- Hardness of water, boiling
- Scouring and bleaching of cotton yarn

Various types of dyes: Direct, Azoic, Vat, Sulpher, Acid, Metal complex, Reactive, Disperse dyes

- Selection of Azo free eco- friendly synthetic dyes
- Fiber suitable for various dye stuff
- Effect of mercerization on cotton yarn
- Degumming of silk and tassar yarn
- Different types of natural dyes and its application
- Different types of fastness properties
- Common defects in dyeing and improvement of dye fastness

DIFFERENT TYPES OF FINISHES ON COTTON AND SILK:-

- **Cotton:** Sizing, Calendering and anti crease
- **Silk:** Scrooping and weightening

04. TEXTILES CALCULATION

- Counting system of Yarn (Direct / Indirect/ Universal)
- Conversion of count
- Average count and resultant
- Reed and Heald calculation
- Diameter of yarn- Fixation of ends/ inch & Picks /inch- cover factor
- Various aspects of yarn (Count, twist, strength etc)
- Warping calculation
- Take up motion calculation
- Costing of fabric

05. Tie & Dye (Ikat Technology)

Ornamentation of fabric

- Different methods and comparative study on fabric ornamentation
- Printing, Extra warp, Extra Weft, Tie & Dye
- Fancy yarn, Colour and weave, Count Variation
- Variation of tension, use of different machines (dobby, jacquard, jalla etc.)

Type of Ikat (Resist method)

- **Fabric-** Fold resist, stitch resist, wrap resist, tensile resist, wax resist ((Batic), Mordant resist
 - **Yarn Resist method** (Yarn Tie & Dye)
- Preparatory process for yarn Tie & Dye)**
- **Preparation of yarn** (Scouring, bleaching), Winding, design & Colour selection, yarn set up for fabric.

- **Weft ikat** preparation of sub group, preparation of group, tying and dyeing, washing and drying, untying, separation from groups to subgroups and subgroup to individual thread, winding of pirn
- **Warp Ikat**- Preparation of Yarn- set up for fabric, warping, selection of subgroups, selection of group, folding up to desired length, tying and dyeing, washing and drying, untying, separation of group to subgroup and subgroup to individual thread, fitting on loom.
- **Double Ikat**- Design selection- Yarn set up of formal process of warp and weft Ikat in repeat.
- **Combined Ikat**- Combination of warp/weft or double Ikat or any two selection of tied materials, design repeats, fabric set up, enlargement of paper design.

Calculation of Raw material-

- Weft yarn-Warp yarn-Boarder –Anchal-Extra warp-Extra weft- Yarn for the fabric
- **Study of various traditional Tie & Dye Design of fabrics of Orissa**
- Khundua, Tarabali, Nabakothari, Nabarangi, Saktapur, Bichitrapur, Bijayapuri , Aswani, Baghambari
- **Comparative study of Ikat Fabric in India, Orissa Ikat, Puchamapalli, Ikat and Patola**- Recent development in Tie & Dye.

06. MADE UP GARMENTS (Theory)

- Basic tailoring, Cloth cutting, Stitching, Designing on patch work

07. HANDLOOM ECONOMICS AND MANAGEMENT

- Handloom Statistic of Orissa- Brief scenario of Indian Handloom Industry of Orissa
- Government Scheme policy for development of Handloom Industry in the state as well as the Country.
- Brief note on various Committee Reports on Handloom Industry.
- Various Important Handloom Clusters of India and its products.
- Various Important Handloom Clusters of Orissa and its products.
- Study on modern management.
- Total Quality Management (TQM)
- Economical Ordering Quantity (EOQ)
- Project Management-Constitution of S.H.Gs and S.M.Es
- Administration, Finance, Marketing Management related to S.H.Gs, S.M.E.s, Co-operatives etc.

08. Computer-Aided-Designs

- Module 1- Computer Fundamental
- Module 2- Windows Xp
- Module 3 – MS Words 2003
- Module 4 – MS Excel- 2003
- Preparation of Handloom Design and colour
- Computer aided Design
- Colour Cycle, Floral & all over Design, Colour Combination
- Designs for Dobby, Jacquard, Jalla weave with the help of computer