

 **POST GRADUATE DIPLOMA IN  
SERICULTURE (MULBERRY)**  
(AFFILIATED TO THE UNIVERSITY OF KALYANI)  
A FIFTEEN MONTH DIPLOMA COURSE



**PROSPECTUS: 2012-13**



**Central Sericultural Research and Training Institute**

**Central Silk Board**, Ministry of Textiles, Govt. of India

Berhampore-742101, West Bengal

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## INTRODUCTION

Central Silk Board (CSB) is the nodal agency of Govt. of India for overall development of Sericulture Industry in the Country. Training is one of the key areas of its mandate and CSB is playing a pivotal role in generating the required technical manpower since its establishment, it is organizing different training programme for the benefit of various stakeholders of the industry.

These programmes are well-designed to meet the specific needs of each sector and of immense help in updating the knowledge and skills of the extension personnel as well as the Sericulturist. This exercise has the dual advantage of development of essential human resource for the industry and complementing the efforts of effective transfer of technologies.

CSB conducts these training Programme mainly in its Research Institutes located in different parts of the country, while some courses are conducted at the nested Regional Sericultural Research Station (RSRS). The main Research Institutes are:

1. Central Sericulture Research & Training Institute, **Mysore**, Karnataka.
2. Central Sericulture Research & Training Institute, **Berhampore**, West Bengal
3. Central Sericulture Research & Training Institute, **Pampore**, Jammu & Kashmir.
4. Central Tasar Research & Training Institute, **Ranchi**, Jharkhand.
5. Central Muga, Eri Research & Training Institute, **Lahdoigarh**, Assam
6. Central Silk Technological Research Institute, **Bangalore**, Karnataka,
7. Seri-Biotech Research Laboratory, **Bangalore**, Karnataka.

These institutes have all required facilities for research and training programmes, supported with reputed scientists-cum-faculty and well-equipped laboratories. The training courses cover the topics on pre-cocoon and post cocoon technology aspects of both mulberry and non-mulberry (Vanya) sericulture. Of the Vanya training courses, Tasar is concentrated at CTR&TI, Ranchi while courses on Eri and Muga are being conducted at CMER&TI, Lahdoigarh

The training courses offered in these institutes are oriented towards the specific requirement of the industry / sponsorers. Based on the duration, the training courses are broadly divided into following three categories:

1. **Structured Courses** : Courses of long-term duration 15 months.
2. **Capsule Courses** : Courses of short-term duration ranging from 6 to 12 days.
3. **Adhoc Courses** : Short duration non- calendared courses conducted upon request from different agencies.

## **TRAINING PROGRAMMES LAUNCHED IN CSR&TI BERHAMPORE, W.B.**

The Central Sericulture Research & Training Institute, Berhampore, W. B is the premier research institute in the country established in 1943 and the same has been christened as Central Sericulture Research & Training Institute (CSR&TI) in the year June, 1980. Since then the training courses, structured courses in particular, were launched through monitoring of Central Academic Council, Central Silk Board, Bangalore.

The said structured courses have been affiliated to the University of Kalyani from **2007-08**. The course commences from **1<sup>st</sup> July** every year and is conducted in semester scheme that completed by two semesters. The course is open to **the Bio-science Graduates** from the recognized Universities.

### **ADMISSION**

#### **STRUCTURED COURSE**

**The course is affiliated to the University of Kalyani, Kalyani, West Bengal.**

The institute has been imparting training in Mulberry Sericulture to the candidates sponsored by various Sericultural states to meet their requirement of trained technical manpower, for manning the various projects of sericulture development. CSR&TI, Berhampore, W.B. also publishes admission notification for the fresh graduates and sponsored candidates in the newspaper. The details of the course and its prerequisites are as follows:

- a. DURATION:-** The training will be for a period of 15-months including 3-months intensive Practical Training (IPT)/Dissertation/Project work.
- b. CAPACITY:-** Admission is open for 20 candidates (maximum) from Directorate of Sericulture of different states and another 20 seats for fresh candidates, in all 40 seats to be filled up on convertible basis.
- c. QUALIFICATION:-** Candidates who are possessing B.Sc. degree with Sericulture, Zoology, Botany, Biochemistry or Agriculture as electives / optionals with a minimum of **45%** marks (**40%** in case of SC &ST) in aggregate may apply in the prescribed form.
- d. AGE LIMIT:-** Maximum of 50 Years as on the date of commencement of the course for in-service candidates and minimum 21 years for the fresh candidates.

#### **COURSE FEE:**

Rs. 10,000/- for the course, however, the fees may vary. Concession of 50% on the prescribed course fee will be extended to the candidates sponsored from both State Sericulture Departments (DOS) and NGOs. An additional fee of Rs.2500/- will be charged to NGO candidates. The sponsoring agency has to deposit the prescribed fee in the form of Demand draft of Nationalized Banks preferably, Central Bank of India/ State Bank of India to be drawn in favour of the Director, CSR&TI, Berhampore, West Bengal payable at Berhampore while forwarding the nominations. Other stipulations will be as per the University guidelines.

## **CAPSULE COURSES**

Research institutes also conduct 6 to 12 days practical-oriented training programmes in various fields of Sericulture, such as Soil Fertility Management, Mulberry cultivation, Silkworm Rearing, Race Maintenance, Extension Management, Silkworm Egg production, Silk Reeling and so on. The cost structure for candidates sponsored through M.E.A. New Delhi will be governed by the guidelines of M.E.A.

## **ADHOC COURSES**

Research institutes also organize tailor-made courses on cost basis, upon special requests DOSs and NGOs, Entrepreneurs, colleges & Universities etc. These courses specially cater to the requirements of sponsoring agencies.

## **RESOURCES**

The following facilities are available for conducting the training programme for the Human Resource Development in Sericulture (Mulberry).

1. **Faculty:** Highly qualified and experienced faculty members having expertise in different field of sericulture are available for conducting various training programmes (structured & non-structured).
2. **Library facilities:** A well equipped library with about 5554 scientific books including 500 accession exclusively for sericulture sciences is available for the trainees in different courses.
3. **Computers:** Computers with Internet facilities are available for the trainees to fulfill their thrust of knowledge.
4. **Class rooms:** Well equipped lecture rooms and laboratory with advanced audio visual facilities are available for attractive class lectures and practical demonstration.
5. **Rearing halls:** Model rearing houses for demonstration of mulberry silkworm rearing for the trainees in different designated courses like Chawki rearing, multi-voltine rearing, bivoltine rearing etc. are available
6. **Mulberry Farm:** A model sericulture farm with 30 acres of mulberry plantation is supporting the trainees for field demonstration and rearing works in different courses as field laboratory.
7. **Grainage facility:** A model grainage for quality seed (laying of silkworm) production is also available, close to the Institute for practical demonstration of commercial seed production techniques.
8. **Boarding and Lodging:** Hostel facilities are available for the trainees, having 96 single bedded rooms.
9. **Recreation facilities:** Outdoor and indoor games such as Football, Volley ball, Cricket, Badminton, Table Tennis, Carom are available as source of enjoyment for the trainees.
10. **Accommodation and Food:** Accommodation will be provided in the hostel against payment of a nominal charge of Rs. 15/- per person per day per bed. Charges on food are based on actual (dividing system) for one and all.

**CENTRAL SERICULTURAL RESEARCH & TRAINING INSTITUTE  
BERHAMPORE – 742 101 (W. B.)**

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**Principle Co-ordinator : Sri R. N. Dutta, Scientist – D**

Sl. No.	Programme/ Course	No. of batches	Duration	Intake/ Batch	Course Fee (Rs.)	Course Coordinator	Key content
<b>I. STRUCTURED COURSES</b>							
1.	Post Graduate Diploma In Sericulture (Mulberry)  <i>Affiliated by</i> <b>Kalyani University</b>	1	15 months course starts from July to September next year	40 (20 from DOS/ NGO sponsored)  (20 from open pool)	10000	Scientist-D	Introductory Sericulture, Mulberry Cultivation, Mulberry & Silkworm Crop Protection, Mulberry Physiology, Mulberry & Silkworm Breeding & Genetics, Silkworm anatomy & physiology, Silkworm seed production, rearing technology & Post-cocoon Technology, Extension Management, Economics & Statistics, hands on computer.

**UNIVERSITY OF KALYANI**  
***(Out line Syllabus of PG Diploma in Sericulture)***

**SEMESTER-I: EXAMINATION** (Theoretical 300 marks & Practical 100 marks)  
Theoretical papers: (3 x 100 marks = 300 marks)

**PAPER-I: 100 marks**

**GROUP-A:** Mulberry Cultivation -40 marks  
Internal assessment-10 marks

**GROUP-B:** Mulberry Crop Protection -40 marks  
Internal assessment -10 marks

**PAPER-II: 100 marks**

**Theory Final Examination : 80 marks , Internal assessment-10+10=20 marks**

**GROUP-A:** General Sericulture & Rearing Technology -40 marks  
Internal assessment -10 marks

**GROUP-B:** Silkworm Breeding & Genetics -40 marks  
Internal assessment -10 marks

**PAPER-III: 100 marks**

**Theory Final Examination : 80 marks , Internal assessment-10+10=20 marks**

**GROUP-A:** Cocoon Crop Protection -40 marks  
Internal assessment -10 marks

**GROUP-B:** Silkworm Seed Production -40 marks  
Internal assessment -10 marks

**Practical Paper: (1 x 100 marks = 100 marks)**

**PAPER-IV: 100 marks**

**Practical Final Examination : 100 marks**

**GROUP-A:** Mulberry Cultivation -20 marks  
Mulberry Crop Protection -20 marks

**GROUP-B:** Rearing Technology -10 marks  
Individual Rearing -10 marks  
Cocoon Crop Protection -10 marks  
Silkworm Breeding & Genetics -10 marks  
Viva-voce -10 marks  
Laboratory Note Book -10 marks

# UNIVERSITY OF KALYANI

## ***(Out line Syllabus of PG Diploma in Sericulture)***

**SEMESTER-II EXAMINATION:** (Theoretical Papers – 200 marks & Practical Papers – 200 marks)

Theoretical papers: (2 x 100 marks = 200 marks)

### **PAPER-V: 100 marks**

**Theory Final Examination : 80 marks , Internal assessment-10+10=20 marks**

**GROUP-A:** Mulberry Breeding, Genetics & Physiology-40 marks  
Internal assessment -10 marks

**GROUP-B:** Post Cocoon Technology -40 marks  
Internal assessment -10 marks

### **PAPER-VI: 100 marks**

**Theory Final Examination : 80 marks , Internal assessment-10+10=20 marks**

**GROUP-A:** Extension Management -40 marks  
Internal assessment -10 marks

**GROUP-B:** Computer Economics & Statistics -40 marks  
Internal assessment -10marks

**Practical Paper: (2 x 100 marks = 200 marks)**

### **PAPER- VII: 100 marks**

**Practical Final Examination : 100 marks**

**GROUP-A:** Mulberry Breeding, Genetics & Physiology -20 marks  
And Computer Economics & Statistics -20 marks

**GROUP-B:** Silkworm Seed Production -20 marks  
And Post Cocoon Technology -20 marks  
Viva-voce -10 marks  
Laboratory Note Book -10 marks

### **PAPER-VIII: 100 marks**

**Practical Final Examination : 100 marks**

**Dissertation / Project work- (50 marks+ Viva-voce 10 marks =60 marks)**

**Study Tour Report – 20 marks**

**Seminar –20 marks**

## Regulations

- 1) A candidate after completion of regular course of study for the exam. and having satisfied the condition of eligibility in accordance with rules of admission as laid down by the University, may appear in the examination as regular examinee.
- 2) Syllabus will be, two semesters of six month duration (July – December) and (January – June) and three month for Dissertation / Project work. Each candidate will be examined on following papers covering a total of 800 marks.
- 3) The candidate has to carry out a Dissertation / Project Work on Sericulture, related to their respective optional subjects (Moriculture/ Sericulture/ Post Cocoon Technology). The project may be carried out in any Research Institute/ RSRS of Central Silk Board / approved University / NGO's. The candidate shall pursue the project in consultation with two supervisors, at least one of them shall be from the Research Institute of Central Silk Board, the other one may be from the concerned University/ NGO'S/ Research Institutes/ Industries, if the project is carried out outside the Research Institute of CSB, he/ she shall submit a comprehensive written report after completion of the project work, endorsed by his/ her supervisors.
- 4) The exam shall be in Theory, Practical and Dissertation/ Project work. There shall be written exam in all the theory papers.
  - a. **Internal assessment:** 20% of total marks (500) of the papers *i.e.* 100 marks shall be assessed through, continuous evaluation process by the teachers/ faculty of the Institutes, who will conduct the Programme.
  - b. The candidates shall be internally assessed on the basis of answer received in response to questions sent periodically. However one internal assessment will be made during the interactive session.
  - c. **Final assessment:** Each theoretical paper of 80 marks (Group-A, 40 & Group-B,40) shall be of 4 hours duration in the final examination which will be held at the end of each semester.
  - d. The paper setting, evaluation of answer scripts will be governed by the University rules.
  - e. The question papers will be, both multiple choice, short and broad essay type.
  - f. Practical paper each will be of 100 marks. Setting of papers / evaluation and selection of examiners will be done as per existing norms / rules of the university.

- 5) The Dissertation/ project works of 60 marks, Study tour report 20 marks and seminar 20 marks, total 100 marks will be evaluated by one external and one internal examiner. The examiners shall be appointed by the University. The internal examiner together with the external examiner will evaluate the project/ dissertation work and award list will be prepared under the joint signatures of the examiners after viva-voice.
- 6) In order to pass, a candidate has to obtain at least 40% marks in theoretical, practical and project work separately both in internal assessment and in final examination. The result shall be based on internal assessment, the result of final examination and project submitted.
- 7) Candidates fulfilling the conditions stipulated in paragraph – 8 and obtaining 60% marks and above in the aggregate shall be placed in first class and those obtaining less than 60% of the total marks but 40% or above shall be placed in the second class
- 8) Existing provision for awarding Gold Medals should be continued subject to bring necessary changes suggested / approved by the University.
- 9) The written examination shall be by means of printed question papers and center of examination will be as per University rules.
- 10) No post publication scrutiny will be allowed.
- 11) Disqualified candidates will be given maximum two chances to clear their credits.
- 12) **Selection Criteria:** Application will be invited through the widely circulated dailies, minimum age limit should be 21 years. However age relaxation will be there for in – service candidates of different DOS (Directorate of Sericulture).

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