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| Title of Course: | GENERAL SERICULTURE |
| Nodal Department of HEI to run course | |
| Broad Area/Sector | SILKWORM REARING AND COCOON HARVESTING |
| Sub Sector | Mulberry Silkworm rearing |
| Nature of Course-Independent/Progressive | INDEPENDENT |
| Name of suggestive Sector Skill Council | |
| Aliened NSQF level | |
| Expected fees of the course- Free/Paid | |
| Stipend to student expected from industry | |
| Number of Seats | |
| Course Code: | Credits: 03 (1 Theory, 2 Practical) |
| Max. Marks: 100 (75+25) | Min Marks: 40 Marks |
| Name of proposed Skill Partner (Please specify Name of Industry, Company etc. for Practical/Training/internship/OJT) | Regional Centre for Sericulture, Uttar Pradesh |
| Job prospects-Expected Fields of occupation where student will be able to get job after completing this course (Please specify name/type of industry) | Entrepreneurial, government and public silk producing sectors. |

Syllabus

| Unit | Topics | General/Skill component | Theory/Practical/OJT/Internship/Training | No of Theory Hrs (Total-15 Hrs=1 Credit) | No of Skill Hrs (Total-60 Hrs=2 Credits) |
|------|--|---|--|--|--|
| I | Silkworm classification & life-cycle. | To learn classification , biology and life cycle of Silkworms | Theory/Practical | 1 | 4 |
| II | Silkworm morphology: Morphology of the egg, larva, pupa, adult and Silk glands | To study morphology and anatomy of <i>Bombyx mori</i> | Theory/Practical and training. | 3 | 4 |
| III | <i>Bombyx mori</i> Rearing :Maintenance of optimum conditions for rearing, feeding, brushing, spacing and caring during moulting | To learn and develop the skills for silkworm rearing. | Theory/Practical and training. | 4 | 20 |
| IV | Mounting ,spinning and cocoon harvesting | Learning skills to maintain and harvest the cocoons. | Theory/Practical and training. | 2 | 14 |

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|----|---|---|---------------------------------------|----------|-----------|
| V | Silkworm Diseases: Protozoan, Bacterial, Fungal, Viral, Sotro, septicemia Silkworm Pests: Uzi fly, Ants and Dermestid Beetles. | To understand common diseases, prevention and their treatment. | Theory/Practical and training. | 3 | 8 |
| VI | Sericulture markets and their kinds. Marketing problems of silk industry. Visit to field/farmers/rearing house and demonstration. | Understanding marketing skills. | Theory/Practical and training. | 2 | 10 |

Suggested Readings:

1. RANGASWAMI, G.(1976). MANUAL ON SERICULTURE, CENTRAL SILK BOARD, BANGALORE., FAO AGRICULTURAL SERVICES BULLETINS
2. CHARLESLEY, S.R. (1982). CULTURE AND SERICULTURE. ACADEMIC PRESS INC., NEW YORK, U.S.A
3. GANGA, G., AND J. SULOCHANA CHETTY. (1991) AN INTRODUCTION TO SERICULTURE. OXFORD & IBH PUBLISHING COMPANY.
4. MANUAL-2 - SILKWORM REARING. AGRICULTURE SERVICE BULLETIN, FAO, ROME.
5. MADAN MOHAN RAO, M. (1999) COMPREHENSIVE SERICULTURE MANUAL. PS PUBLICATIONS, HYDERABAD.
6. M. AMIN MASOOD AND AFIFA S. KAMILI (2000). PRINCIPLES OF TEMPERATE SERICULTURE. KALYANI PUBLISHER.
7. SILKWORM CROP PROTECTION, CENTRAL SILK BOARD, BANGALORE, INDIA.
8. GOVINDAN, R.; NARAYANASWAMY, T.K. AND DEVAIAH, M.C. (1998) PRINCIPLES OF SILKWORM PATHOLOGY. SERI SCIENTIFIC PUBLISHERS, BANGALORE.
9. GOVINDAN, R.; RAMAKRISHNA NAIKA AND SANNAPPA, B. (2004) ADVANCES IN DISEASE AND PEST MANAGEMENT IN SERICULTURE. SERI SCIENTIFIC PUBLISHERS, BANGALORE.

Suggested Digital Platforms/Web Links for Reading: <https://www.classcentral.com/course/swayam-sericulture-technology>

Suggested OJT/ Internship/Training/Skill Partner): राजकीय रेशम फार्म, रेशम विकास विभाग , पृथ्वी गढ़ी, आगरा

Suggested Continuous Evaluation Methods:

House Examination /Test: 10 Marks

Written Assignment/ Presentation/ Project/ Term Paper/ Seminar: 10 Marks

Class performance/ Participation: 5 Marks

Course Pre-requisites:

1. **No pre-requisite required – Open to all**

Suggested equivalent online courses: **Sericulture courses by Swayam**

Any remarks/suggestions: None

Notes:

*Number of units in Theory/Practical may vary as per need.

*Total Credits/semester-3 (There can be more credits, but student will get only 3 credits/semester or 6 credits/year)

*Credits for Theory = 01 (Teaching Hours = 15)

*Credits for Internship/Training/Practical = 02 (Training Hours = 60)