

VALUE ADDED COURSES "Rearing of Silk Worm & Sericulture, Session 2020-21

Faculty of Science



Courses Offered by:
Department of Zoology



Rearing of Silk Worm & Sericulture (VAC-Z-002)-Objective of the programme

Objective is rearing of silkworm and silk reeling. The techniques involve step by step production of silk thread. To impart the knowledge of production of cocoons, reeling and spinning of cocoon to get the silk yarn. A thorough knowledge of disease and pest of mulberry plant, quality of seed cocoon, commercial cocoon and fibre to get the maximum return when actually practised.

About the Course :

Sericulture is silk farming for rearing of silkworms to produce raw silk. It is one of the most important agro and forest based cottage industry. The techniques involve the cultivation of plants like mulberry on which silkworm grows and raising of silkworm. It starts with the raising of silkworms and then processing the fibres they produce. The thread can be twisted into silk yarn or woven into silk cloth.

Value Added Course Syllabus
Rearing of Silk Worm & Sericulture
VAC-Z-002


Objectives: To get the detail knowledge of Silk worm and its culture to get good quality silk.

Unit 1: Introduction	5
Sericulture: Definition, history and present status, Silk route Types of silkworms, Distribution and Races Exotic and indigenous races Mulberry and non-mulberry Sericulture	
Unit 2: Biology of Silkworm	4
Life cycle of <i>Bombyx mori</i> Structure of silk gland and secretion of silk	
Unit 3: Rearing of Silkworms	10
Selection of mulberry variety and establishment of mulberry garden Rearing house and rearing appliances Disinfectants: Formalin, bleaching powder, RKO Silkworm rearing technology. Early age and Late age rearing Types of mountages Spinning, harvesting and storage of cocoons	
Unit 4: Pests and Diseases	7
Pests of silkworm: Uzi fly, dermestid beetles and vertebrates Pathogenesis of silkworm diseases: Protozoan, viral, fungal and bacterial Control and prevention of pests and diseases	
Unit 5: Entrepreneurship in Sericulture	4
Prospectus of Sericulture in India: Sericulture industry in different states, mployment, potential in mulberry and non-mulberry sericulture. Visit to various sericulture centres.	

SUGGESTED READINGS

1. Handbook of Practical Sericulture: S.R. Ullal and M.N. Narasimhanna CSB, Bangalore
2. Appropriate Sericultural Techniques; Ed. M. S. Jolly, Director, CSR & TI, Mysore.
3. Handbook of Silkworm Rearing: Agriculture and Technical Manual-1, Fuzi Pub. Co. Ltd., Tokyo, Japan 1972.
4. Manual of Silkworm Egg Production; M. N. Narasimhanna, CSB, Bangalore 1988.


 Registrar
 Swami Vivekanand
 Subharti University
 MEERUT


 H. J. Tewari
 and
 Zoology



Department of Zoology
KERAL VERMA SUBHARTI COLLEGE OF SCIENCE
SWAMI VIVEKANAND SUBHARTI UNIVERSITY
Subhartipuram, NH-58 Delhi-Haridwar-Meerut Bypass Road,
Meerut -250005

Report on
Value Added Course 2020-2021

A value added course on "Rearing of Silk Worm & Sericulture" was conducted in Zoology department for Final year students, Four hours per week. The course starts on 01-05-2021. The session was handled by Dr. M. Faisal Siddiqui, Zoology on the need for Rearing of Silk Worm & Sericulture. On that session students learnt how to do sericulture properly and effectively and get good yield of silk. Students felt that this value added session on "Rearing of Silk Worm & Sericulture" was very much informative and useful for them and they got the basic idea for developing their knowledge about how to do Sericulture effectively by choosing best species. It is planned to extend this value added training in the next semester with having more refined, advanced and practical knowledge about sericulture.

Prof.(Dr.) Vinay Panwar
HOD, Zoology)

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Swami Vivekanand
Subharti University
MEERUT



Department of Zoology
Keral Verma Subharti College of Science
SWAMI VIVEKANAND SUBHARTI UNIVERSITY

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(I) of UGC Act 1956)
Ph. 0121-2439578, 2439052, 3058031, 3056032; Telefax: 0121



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Dated: 01/05/2021

Value Added Course-2020-2021
Rearing of Silk Worm & Sericulture

List of Students

S. No.	Name of the Student
1.	Nandini Chaudhary
2.	Hiroshima Akoijam
3.	Mausmi Sarkar
4.	Nishi Tomar
5.	Himanshu
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HoD, Zoology





Students gaining hands on practical during VAC