

Course Type: Value Added Course (VAC) offered by Department of Zoology

Course Title: Seri-Biology and Sericulture Practices

Total Lectures: 30

Course Outcome (CO):

CO1: Understanding the basic of sericulture and their practices.

CO2: To know the importance of biology of silkworm in sericulture.

CO3: To expose the students to various entrepreneurship skills relating to sericulture and understanding the creation of job opportunities.

CO4: To be able to identify and understand the various pathogenesis of silkworm.

CO5: Understanding and applying rearing of silkworm.

Unit 1:

10 L

Introduction to Sericulture, History: History of Sericulture, Sericulture in N.E. India, Types of silk insects: Mulberry and non-mulberry silk worms, life history /Life cycle: Mulberry, Muga, Eri and Tasar.

Unit2:

10 L

Host plants: Host/Food plants of Major sericigenous insects, distribution, cultivation and management; Pest and predators of silkworm and their management. Rearing appliances.

Unit 3:

10 L

Post Cocoon Technology: Preparation of cocoons for degumming, Silk reeling, Spinning of yarn from cocoon. Role of Silk in textile industry; Entrepreneurship development; Sericulture and Women empowerment.

Suggested Readings:

1. Sericulture with special reference to Assam. (2022), Tarali Kalita, North East Publishers, Guwahati, Assam.
2. A textbook on sericulture training. (2012), Amardev Singh, Oberoi book service.
3. Handbook of sericulture. (2019), Mukerji Nitya Gopal, Bangal secretariat book deport, Kolkata.
4. Application of Biotechnology in Sericulture.(2010), V. Shyam Kumar, Venkatesh Kumar R. 5. Vinesh A Text Book of Sericulture (Skill Enhancement Course). (2020), Dr. Hem Raj , S. Dinesh & Company

COURSE SUMMARY

Course Title: Seri-Biology and Sericulture Practices

Course Type: Value Added Course (VAC)

Department: Zoology

Programme: FYUGP

Credits: 2

Contact Hours: 30

Theory: 20 hours

Practical/Field: 10 hours

Assessment: 50 marks

Primary Focus: Silkworm biology + sericulture practices + Assam's silk heritage + practical skills + entrepreneurship + sustainability

Core Themes

Seri-biology | Silkworm Diversity | Muga | Eri | Mulberry | Host Plants | Silkworm Rearing | Cocoon Production | Silk | Disease Management | Field Learning | Entrepreneurship | Sustainability | Local Knowledge