## EXTENDED LECTURE OUTLINE

**CCP6 311** **Vanya Sericulture** **(1+1)**

| *Sl. No.* | *Theory* |
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| 1. | Introduction to vanya sericulture- Importance of vanya silks |
| 2. | Global production of vanya silks, their scope and impact on the socio-economic conditions of tribal's.<br>- Status of vanya silks in India- Production trends |
| 3. | Distribution of Vanya Silk Yielding (Sericigenous) Insects and Non Insects and their Classification<br>Plant Origin- Silk Cotton Fiber & Floss Silk<br>Animal Origin - Insect origin- Commercially Exploited- Tasar, Eri and Muga<br>Insect origin – Commercially less Exploited – Anaphae, Fagara, Coan,<br>- Non-insect origin – Mussel and Spider silk |
| 4. | Different types of votinism of tropical and temperate tasar, eri and muga silkworms.– Univoltine, Bivoltine, Trivoltine and Multivoltine<br>Characteristic features of different stages of tropical and temperate tasar, eri and muga silkworms- Egg, Larva, pupa, cocoon and adult. |
| 5. | Traditional methods of tropical and temperate tasar silkworm rearing – traditional rearing practices by the tribals<br>Improved methods of tropical and temperate tasar silkworm rearing<br>- Indoor rearing (Chawki silkworm)– Bottle rearing, Picture rearing, Pit rearing, Box rearing Advantages and disadvantages of different indoor rearing techniques<br>- Out door rearing – Nylon net enclosure method<br>Maintenance of outdoor rearing – Feeding and its frequency, Moulting and mounting management and care during Moulting and mounting and Harvesting of cocoons |
| 6. | Egg production technology of topical and temperate tasar silkworms<br>- Selection of seed cocoons<br>- Emergence of moths and Synchronization<br>- Pairing and de-paring of moths - Different techniques<br>- Oviposition and care during oviposition<br>- Handling of eggs after egg laying – collection of eggs, washing, drying, packing and mother moth examination |
| 7. | Traditional methods of eri silkworm rearing<br>- Traditional eri silkworm rearing practices<br>- Improved methods of eri silkworm rearing – Bunch rearing and tray rearing<br>- Maintenance of rearing – Feeding and its frequency, bed cleaning and methods, spacing of worms Moulting and mounting management and care during Moulting and mounting |

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| | - Methods of eri silkworm mounting – Bamboo basket, split bamboo, Jali and mat mounting and Harvesting of cocoons |
| 8. | Egg production techniques in eri silkworm<br>- Selection of seed cocoons<br>- Emergence of moths and Synchronization<br>- Pairing and de-paring of moths - Different techniques<br>- Oviposition and care during oviposition<br>- Handling of eggs after egg laying – collection of eggs, washing, drying, packing and mother moth examination |
| 9. | Traditional methods of muga silkworm rearing<br>- Traditional muga silkworm rearing practices<br>- Improved methods of muga silkworm rearing – out door rearing techniques<br>- Maintenance of rearing – Feeding and its frequency, Moulting and mounting management and care during Moulting and mounting and Harvesting of cocoons |
| 10. | Egg production techniques in muga silkworm<br>- Concept of Pre-seed and seed crop in muga culture<br>- Selection of seed cocoons<br>- Emergence of moths and Synchronization<br>- Pairing and de-paring of moths - Different techniques<br>- Oviposition and care during oviposition<br>- Handling of eggs after egg laying – collection of eggs, washing, drying, packing and mother moth examination |
| 11. | Natural enemies and other problems in vanya silk cocoon production<br>- Insect and non insect pests of vanya silkworm and their management<br>- Diseases of vanya silkworm and their management<br>- Other problems in vanya sericulture sector – natural calamities, forest policies, marketing of cocoons etc., |
| 12. | Marketing of vanya silk (Tasar, Eri & Muga) products (Cocoon, raw silk and silk fabrics) |
| 13. | Economics of Tasar, eri and muga culture |
| 14. | **Recent Developments In Vanya Sericulture**<br>- New Projects<br>- Other Agencies Involved In Vanya Sector – NGOs Etc.,<br>- Value Addition to Vanya Sericulture By-products. |