

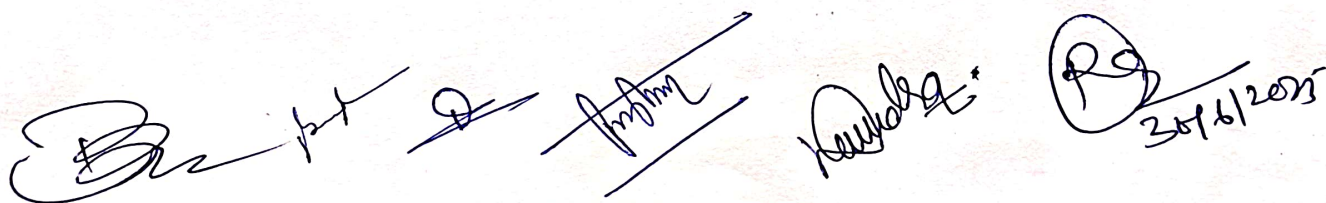
Department of Rural Technology & Social Development

List of available Massive Open Online Courses (MOOCs) relevant to Department of Rural Technology & Social Development

Session: Started from July 2025

Course Details






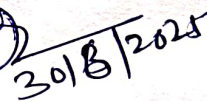
Class	B.Sc. (Rural Technology) III Semester
Course Title as per Department	Sericulture
Course Type	Major
Credit (as per department)	03 + 01 = 04
Relevant course on SWAYAM/MOOCs	Silkworm rearing and reeling technology
Credit (as per MOOCs)	04
Course Status	Upcoming
Language for course content	English
Duration	12 weeks
Credit Points	4
Level	Undergraduate
Start Date	07 Jul 2025
End Date	31 Oct 2025
Enrollment Ends	31 Aug 2025
Exam Date	—
NCrF Level	4.5
Name of Teaching Faculty on MOOCs Platform	Dr. S.H. Divya Department of Sericulture, Yuvaraja's College, University of Mysore, Mysuru

A series of handwritten signatures and dates at the bottom of the page. From left to right: a large signature, a signature with '1st' written above it, a signature with '2nd' written above it, a signature with '3rd' written above it, a signature with '4th' written above it, a signature with '5th' written above it, and a signature with '30/6/2025' written below it.

Available Massive Open Online Courses (MOOCs) relevant to Department of Rural Technology & Social Development on SWAYAM - July 2025 Semester


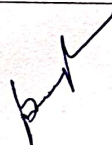



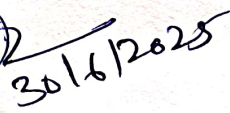
Course Details

Class	B.Sc. (Rural Technology) III Semester
Course Title (Department of Rural Technology & Social Development)	Sericulture
Course Title (SWAYAM/MOOCs)	Silkworm rearing and reeling technology
Course Status	Upcoming
Language for course content	English
Duration	12 weeks
Category	Biological Sciences & Bioengineering
Credit Points	4
Level	Undergraduate
Start Date	07 Jul 2025
End Date	31 Oct 2025
Enrollment Ends	31 Aug 2025
Exam Date	-
NCrF Level	4.5
Name of Teaching Faculty on MOOCs Platform	Dr. S.H. Divya Department of Sericulture, Yuvaraja's College, University of Mysore, Mysuru

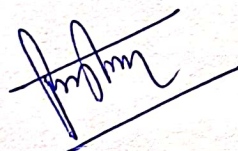
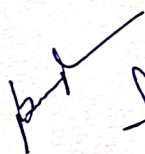
Course layout

Week	Modules	Topic
1.	1.	Disinfection of rearing house and different methods of disinfection
	2.	Silkworm Rearing appliances
	3.	Different types of silkworm rearing
2.	4.	Environmental requirements for Silkworm rearing and spinning
	5.	Artificial diet
	6.	Silk worm Rearing methods
3.	7.	Young age silkworm
	8.	Importance of chawki rearing centers
	9.	Bed cleaning and spacing
	10.	Late age silkworm rearing
4.	11.	Cellular and mass rearing of silkworm
	12.	Cocoon formation
	13.	Cocoon spinning Devices
	14.	Cocoon harvesting process
5.	15.	Separation of different types of cocoons
	16.	Cocoon harvesting and marketing
	17.	Economics of chawki rearing centers
6.	18.	Mulberry cultivation for young age silkworm
	19.	Scope & Importance of Biotechnology
	20.	Factors influence for Successful late age Rearing
	21.	Economics of Silkworm rearing
7.	22.	Textile fibres (TEXTILE FIBRES NATURAL AND SYNTHETIC FIBRES PROPERTIES OF THESE FIBRES)
	23.	Sorting of cocoons and Defective cocoons
	24.	Cocoon stifling
8.	25.	Cocoon cooking (TYPES OF COCOON BOILING)
	26.	Water in reeling
	27.	Silk reeling (SILK REELING MACHINERY AND PROCESS)
	28.	Raw silk Physical, Chemical & Mechanical properties
	29.	Raw silk testing & Grading
9.	30.	Silk throwing
	31.	Silk Degumming
	32.	Silk Bleaching
	33.	Silk Dyeing and printing
10.	34.	Silk Screen Printing
	35.	Silk Finishing
	36.	Fashion design
11.	37.	Physical & Chemical Properties of silk
	38.	By product of silk reeling and their utility
	39.	Economics of silk reeling
	40.	Byproduct of silk industry

Books and references:

1. Ganga, G. and Sulochana Chetty, J. (2010) Introduction to Sericulture. Oxford and IBH Pub, Co. Pvt. Ltd., New Delhi.
2. Dr. R. K. Rajan & Dr. M. T. Himantharaj. Silkworm rearing technology, Central Silk Board, Bangalore.
3. M. C. Devaiah, K. C. Narayanaswamy and V. G. Maribashetty Advances in mulberry sericulture. CVG Publications, Bangalore.
4. FAO Agricultural Services Bulletin, Rome. (1987) Manual on sericulture.
5. Ullal, S.R. and Narasimhanna, M.N. (1994) Handbook of Practical Sericulture. Central Silk Board, Bangalore.
6. Dandin, S.B., Jayant Jayaswal and Giridhar, K. (2003) Handbook of Sericulture Technologies. Central Silk Board, Bangalore.



30/6/2025