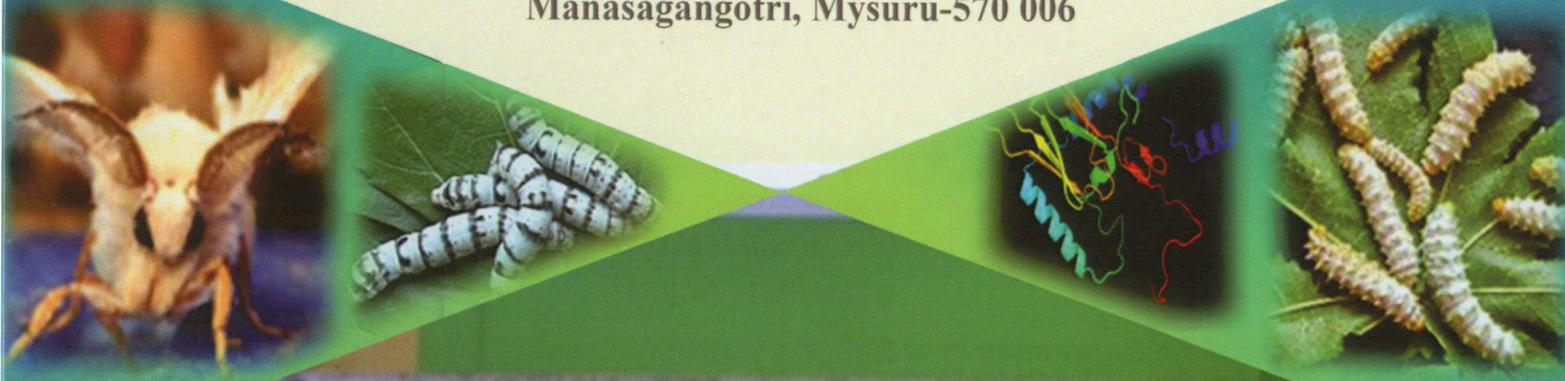




ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
UNIVERSITY OF MYSORE

DEPARTMENT OF STUDIES IN SERICULTURE SCIENCE

Manasagangotri, Mysuru-570 006



ರೇಷೆ ಕೃಷಿ SERICULTURE

GENESIS

The Department of Studies in Sericulture Science was established under World Bank Assistance with a modest begin offering Post M.Sc. Diploma in Sericulture in the year 1982-1983. Eventually, M.Sc. course in Sericulture from the year 1988-1989 and the nomenclature has been changed to M.Sc. Sericulture and Seribiotechnology in the year 2008-09 to keep pace with the recent trend in Science and Technology. During the past three decades the department has registered a steady progress both in teaching and research receiving funds from various funding agencies such as World Bank, Central Silk Board, CSIR, UGC, DST, DBT and Government of Karnataka. Recently, the department has been recognized under DST - FIST, DBT-BIRAC, CSIR, DST-INSPIRE and DBT Skill Vigyan State Partnership programs.

The department comprises 05 faculty members, three well trained technical and 15 non-teaching personnel. A few faculty members have been awarded prestigious Common wealth and INSA fellowships tenable at premier institutions abroad. With these expertise and infrastructure, the department deciphers sound knowledge and imparts practical skill among students by giving hands on training in mulberry cultivation and large scale silkworm rearing. In addition, emphasis has also been given to revise the syllabus at convenient intervals considering advanced technologies in sericulture and frontier areas of science and technology including computer sciences and bioinformatics.

Programs Offered and Awarded

- M.Sc. Sericulture & Seribiotechnology (CBCS Scheme)
- Ph.D. in Sericulture (by Course Work & Research)

Course	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021
M.Sc.	12	14	22	23	31	30	36
Ph.D.	--	01	02	05	01	04	01

(Awarded)

Teaching

Teaching coupled with hands on training at field not only enhancing the knowledge but also tend to acquire skill and confidence among students.

Scientists interacting with students and appraising the technologies to employ while preparation and application of fertilizers to mulberry garden and assessment of cocoons,

Besides, series of both International (02) and National (11) Webinar's have been organized by inviting Prof. RNDr. Frantisek Marec, from Czech Republic and Dr. Hiroshi Hamamoto from Teikyo University, Institute of Medical Mycology, Japan during COVID-19 lockdown.



Events Organized in support of teaching, research and extension

National Conference

Seribiomics: Challenges, Innovations and Solutions



Two days Workshop

Frontier Lectures on Seri-biotechnology



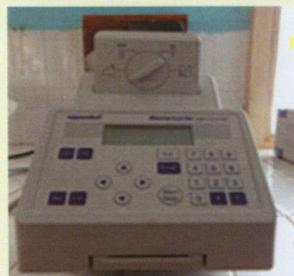
Adoption of Advanced Technologies for Sustainable Sericulture



Research

The department has very good infrastructures to undertake both basic and advanced research in the frontier areas of Sericulture and Seribiotechnology. The central computer facility with internet facilitate students to develop skill in using computer and access databases and E-resources towards learning and Research.

Central Instrumentation and computer Labs



PCR Machine



Biophotometer



Gel Documentation Unit

Skill Development in Sericulture Technology

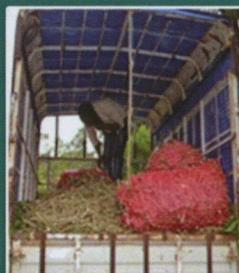
As part of curriculum students undergo field based training to acquire skill in mulberry cultivation and silkworm rearing technology and its management. Prof. G. Hemanth Kumar, Honorable Vice Chancellor, University of Mysore interacted with the students during skill development program and appreciated the efforts rendered.

Extension Activities

Supply of Mulberry seed cuttings to the farmers for establishment of mulberry garden

By having an agreement with NSSO, bivoltine seed cocoons have been produced in the department as part of training to students and supply seed cocoons for the preparation of dfls

Students visit field and farmers to interact and discuss with the farmers and collecting ground truth problems and investigate solutions through their project work.



Swachh Bharath Abhiyan - 2017

FIRST PRIZE
CLEANEST DEPARTMENT CATEGORY



NSS activities

Maralur-Goddanapura & Nanjangud,
Mysuru Dist



Achievements – Glimpse (2014 - 2021)

Memorandum of Understanding

International Collaboration

Project Title: Knowledge and Assessment of the biodiversity and DNA barcoding of Lepidoptera / Sphingidae, Coleopteran/ Scarabaeoidea, Buprestidae, Cerambycidae in India.

Collaboration: UoM & Sphingidae Museum, Czech Republic.

Innovations : Industry-Academia engagement

Project Title: Development of Novel silk fibroin based bioink for bioprinting to reconstruct maxillofacial defects.

Collaboration: UoM & Accreate lab & JSS Institute of Higher Education.

Dissertations	136
Ph.D. degrees awarded	14
Scientific Papers	117
Book / Book Chapters	12
Research Projects Completed	05
On-going Projects	05

Development of a Mobile App - SeriApp



← Floor Area 1495.00 sq. ft
Bleaching Powder (2% - Bleaching powder + 0.3% slaked lime)
To 240.70 litres of water :
Add 4.81 Kg Bleaching Powder
Add 0.72 Kg Slaked Lime
→ Astra (0.05%)
Sanitech (2.5% Sanitech + 0.5% slaked lime)
To 234.68 litres of water :
Add 6.02 litres Sanitech
Add 1.20 Kg Slaked Lime
Add 601.75 grams Activator
→ Decol (1:49 ratio)

Development of New Bivoltine Breeds



A-L2
B-L4
C-L5
D-L9
E-10A
F-L10B

Faculty Profile



Prof. H.B. Manjunatha Ph.D.
Professor
Fellowship: Commonwealth, INSA-ASGR
Specialization: Genomics, Proteomics
and Silk Biomaterials
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Dr. T.S. Jagadeesh Kumar Ph.D.
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Specialization: Silkworm Physiology
and Biochemistry
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Dr. B. Sannappa Ph.D.
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Sericulture Extension
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Dr. M.N. Anil Kumar Ph.D.
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Specialization: Silkworm Nutrition
and Physiology
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Dr. R.S. Umakanth Ph.D.
Associate Professor
Specialization: Biochemical Genetics
Email: dr.rs.umakanth@gmail.com

Curriculum design and Development - Course Structure

2019-2020 and onwards

Sl. No.	Course Code	Title of the Course	Type	Credit pattern (L:T:P)	Credit value
I Semester					
1	SERBT -1.1	Mulberry Biology and Production	HC	3:0:1	4
2	SERBT -1.2	Silkworm Biology and Egg Production	HC	3:0:1	4
3	SERBT -1.3	Silkworm Physiology and Biochemistry	HC	3:0:1	4
4	SERBT -1.4	Silkworm Genetics and Breeding	HC	3:0:1	4
5	SERBT -1.5	Science of Sericulture	SC	3:1:0	4
6	SERBT -1.6	Applications of Computer and Biostatistics	SC	3:1:0	4
II Semester					
1	SERBT -2.1	Mulberry Physiology, Genetics and Breeding	HC	3:0:1	4
2	SERBT -2.2	Silkworm Cocoon Production Technology	HC	3:0:1	4
3	SERBT -2.3	Silk Technology, Sericulture Extension and Economics	HC	3:0:1	4
4	SERBT -2.4	Cell Biology and Genetics	SC	3:1:0	4
5	SERBT -2.5	Molecular Biology	SC	3:1:0	4
III Semester					
1	SERBT -3.1	Mulberry and Silkworm Crop Protection	HC	3:0:1	4
2	SERBT -3.2	OMICS : Genomics, Transcriptomics, Proteomics and Bioinformatics	HC	3:0:1	4
3	SERBT -3.3	Skill Development in Sericulture	HC	0:1:3	4
4	SERBT -3.4	Vanya Sericulture	SC	3:1:0	4
5	SERBT -3.5	Entrepreneurship Development in Sericulture	SC	3:1:0	4
IV Semester					
1	SERBT -4.1	Seri -Biotechnology	HC	3:0:1	4
2	SERBT -4.2	Project Work	HC	0:2:6	8
3	SERBT -4.3	Biomaterials and Applications	SC	3:1:0	4
4	SERBT -4.4	Economic Entomology	SC	3:1:0	4
Open Elective - II, III and IV Semesters					
		Sericulture Technology and Entrepreneurship Development	OE	3:1:0	4

Contact

The Chairman

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