

# UNIVERSITY OF MYSORE

ರೇಷ್ಮೆ ಕೃಷಿ SERICULTURE



# **Department of Studies in Sericulture Science (1991)**

**DST-FIST Supported**  
(2010-2016)

**DBT - KSTePS Supported**  
(2019-2022)

**DBT- BIRAC : INDUSTRY : ACADEMIA Supported**  
(2019-2022)



**Infrastructure Facilities and Activities –  
Mulberry Sector**

# Activities in the Department



# Students skill development in establishment of Mulberry garden



Preparation of rows



Preparation of mulberry seed cuttings



Demonstration for planting cuttings



Planting cuttings by the students

# Students involvement in mulberry cutting planting and compost application



Watering to cuttings



Application of compost to pits



Newly established G4 Mulberry garden







Mulching and incorporation of campus biowaste into mulberry garden



# Supply of Mulberry seed cuttings to the farmers



# Scientist interacting with students and guiding preparation and application of fertilizers







**The curricular aspects train the students with skill and confidence**

ಸಮೂಹ ರೇಷಿಪುಟು  
ಸಾಕಾಣಕಾ ಮನೆ 5 MASS SILKWORM  
REARING HOUSE



**Infrastructure Facility and Activities –  
Silkworm rearing**

# Rearing of Silkworms



2018/11/23 13:21

Rearing house



Chawki Rearing house



Silkworm germ plasm

# Students involved in disinfection of the rearing house as part of the curriculum and skill development

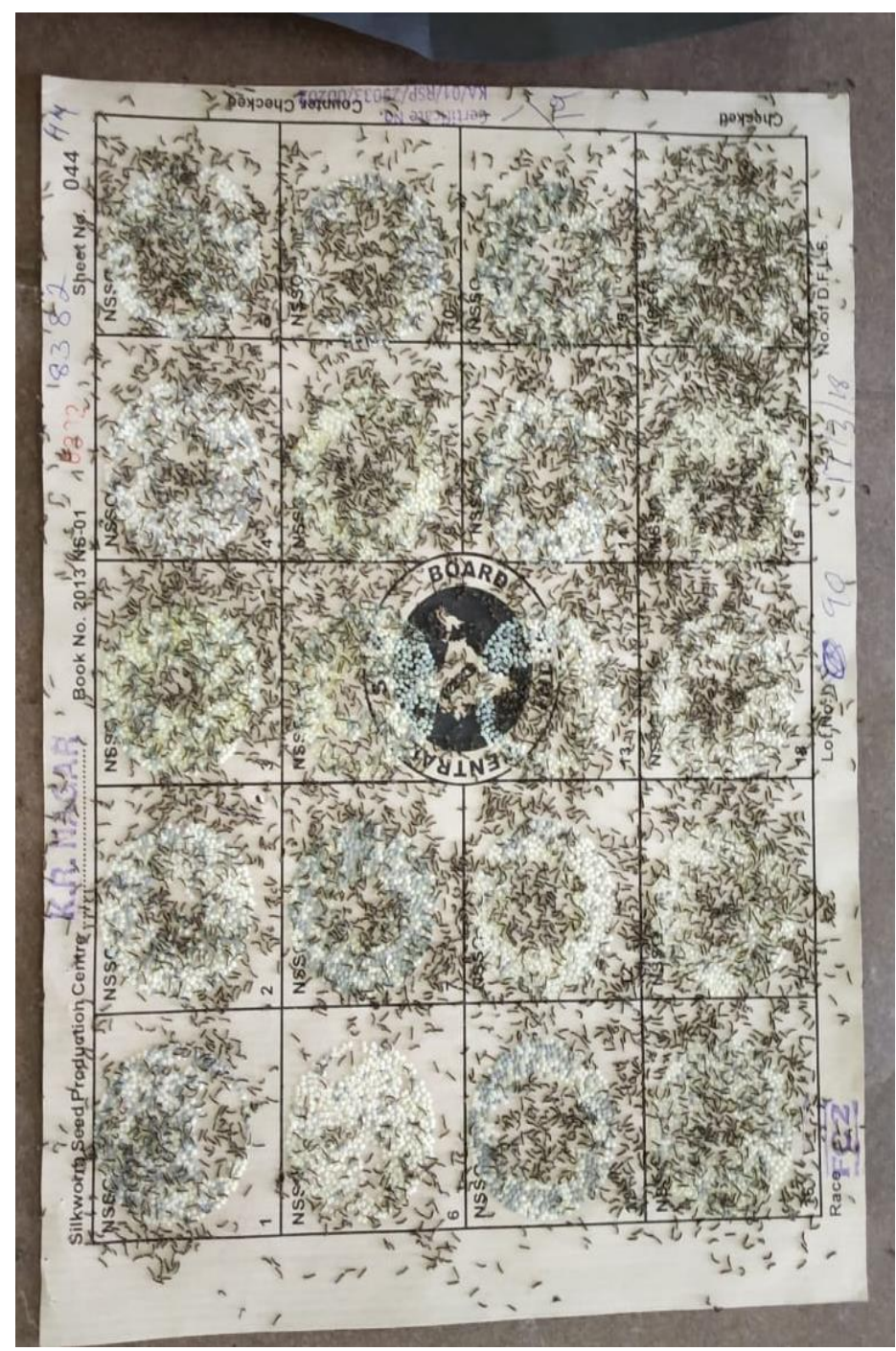


Preparation of Disinfectants



Spraying of Disinfectants









Demonstration of chapping of mulberry leaves to 0.5 Sq. cm. size to feed hatched silkworm larvae.









Demonstrating dusting of slaked lime powder on to the silkworms settled for moult



REDMI NOTE 5 PRO  
MI DUAL CAMERA

2018/9/28 09:15





Harvesting of mulberry shoots to feed silkworms as part of skill development program



Students participation in rearing silkworms as part of curriculum



REDMI NOTE 5 PRO

Mounting of silkworms and cocoon spun by the larvae during skill development program

Students participation in mounting of silkworms as part of curriculum and skill development program





## Sorting of cocoons



## Cut opening of cocoons



Students participation in harvesting and storage of cocoons silkworms as part of curriculum



VC, UoM observing the cocoons



Registrar, UoM interacting with the students



Director, CSRTI testing and demonstrating how to measure built of the cocoons to the students



# **Funds Generated**

**(Sale of Cocoons and Mulberry Cuttings)**

<b>Year</b>	<b>Total Amount (Rs.)</b>
<b>2014-15</b>	<b>1,12,823</b>
<b>2015-16</b>	<b>1,55,470</b>
<b>2016-17</b>	<b>1,54,153</b>
<b>2017-18</b>	<b>1,26,148</b>
<b>2018-19</b>	<b>1,43,350</b>
<b>2019-20</b>	<b>69,270</b>
<b>2020-21</b>	



# Skill Development in Sericulture Technology

5	SERBI -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	<b>Skill Development in Sericulture</b>	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					



# Research Facility

# Research Facilities

## STUDENT LAB

1. Refrigerator (02)
2. Water bath (02)
3. Hot air oven (03)
4. Centrifuge (02)
5. Electronic balance (02)
6. Epprouvette (05)
7. Microscopes (10)

## Central instrumentation facility

1. UV-visible spectrophotometer (01)
2. BOD (02)
3. Refrigerators (02)
4. Electronic balance (02)
5. PCR (02)
6. Cold Centrifuge (01)
7. Defreezer (-20°) (01)
8. Gel documentation unit (02)
9. Western Blot Unit (01)
10. Trinocular Research Microscopes (02)
11. Biophotometer

# **Central Instrumentation Lab**

# Central Instrumentation Lab

Gel Documentation

Biophotometer

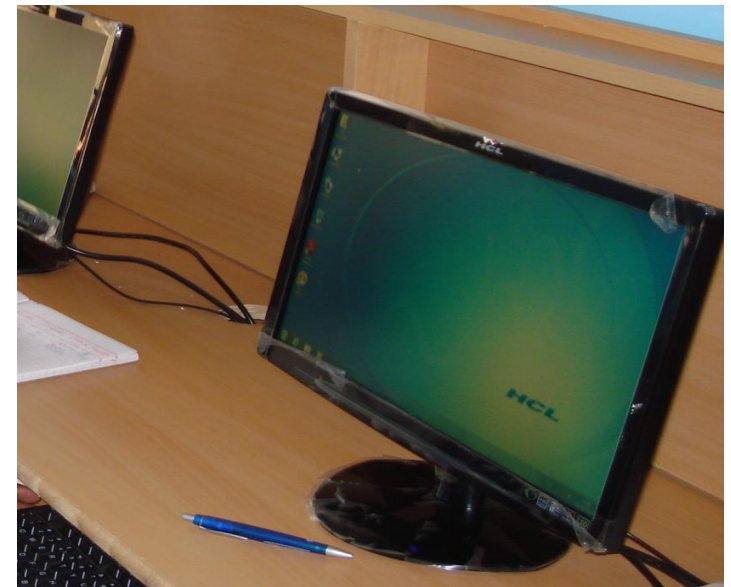
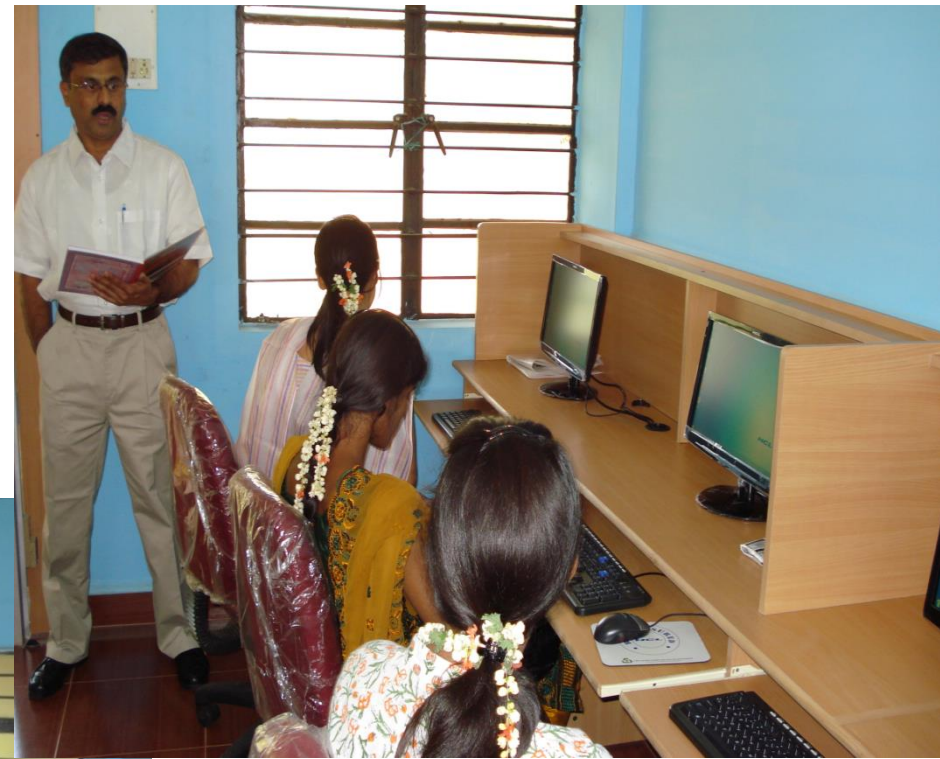


Established under  
DST-FIST & UGC 12<sup>th</sup> Plan Grant



# Central computer facility

Established under  
DST-FIST



# Silkworm Germplasm



A-L2;

B-L4;

C-L5;

D-L9;

E-10A;

F-L10B

# New Bivoltine Lines - 06



A-L2;

B-L4;

C-L5;

D-L9;

E-10A;

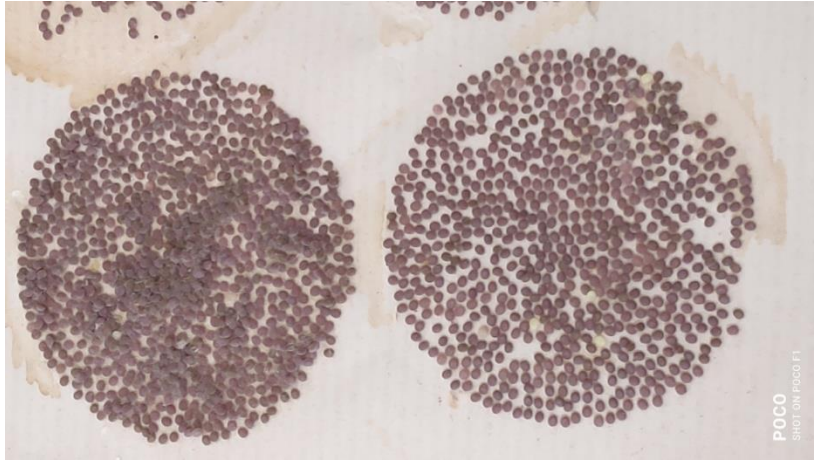
F-L10B

❖ Multivoltine – 07, Bivoltine – 12, Mutants – 09

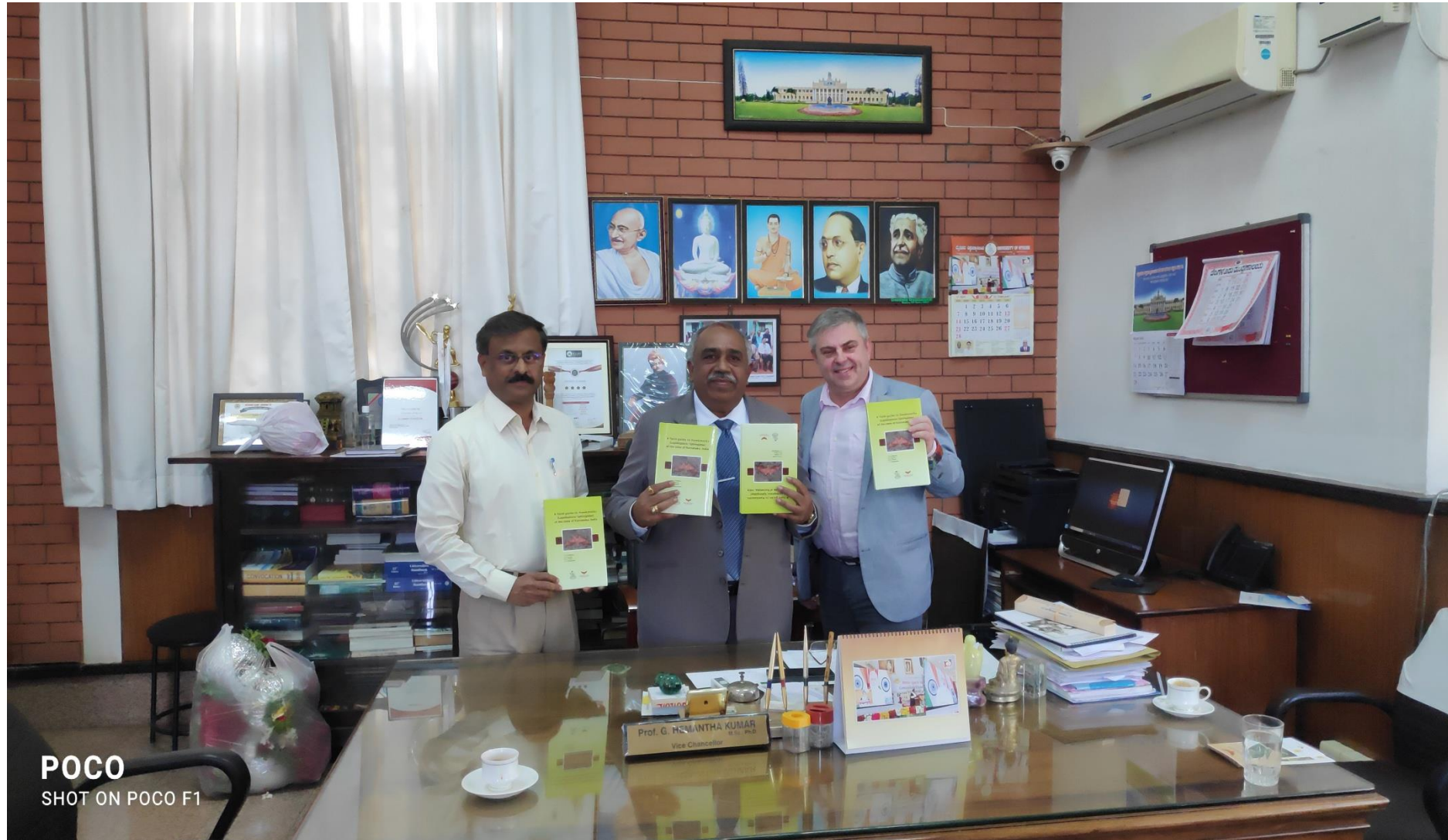




# Bivoltine new silkworm breed



The book “ A field guide to Hawkmoths of the state Karnataka, India”  
released by Honorable Vice Chancellor of University of Mysore,  
Prof. G. Hemantha Kumar.



# Sphingidae Taxonomic Inventory

Creating a taxonomic e-science

HOME ABOUT US LITERATURE MEDIA GALLERY SPECIMENS TAXONOMY

Home » Taxonomy » Sphingidae » Macroglossinae » Macroglossini » *Acosmeryx* » *Acosmeryx*



## *Acosmeryx akanshi* Melichar, Řezáč, Manjunatha & Horecký, 2014

Overview Descriptions Media Literature Maps Specimens

### NOMENCLATURE

Subtribe: [Acosmeryxina](#)

Genus: [Acosmeryx](#)

Species:

*Acosmeryx akanshi* Melichar, Řezáč, Manjunatha & Horecký, 2014

Usage: valid

Reference:

[A new species of the genus \*Acosmeryx\* Boisduval, 1875 \(Lepidoptera, Sphingidae\) from the southern part of India](#) 182

Type data:

HOLOTYPE ♂ India: Karnataka, Dandeli N.P., Anashi forest dep., Muppai point, 15°1'615"N 74°21'423"E, 700m, x.2010 (Manjunatha), (gen. 1434) (BoLD BC-Mel 1414 [SMCR]).

### MEDIA

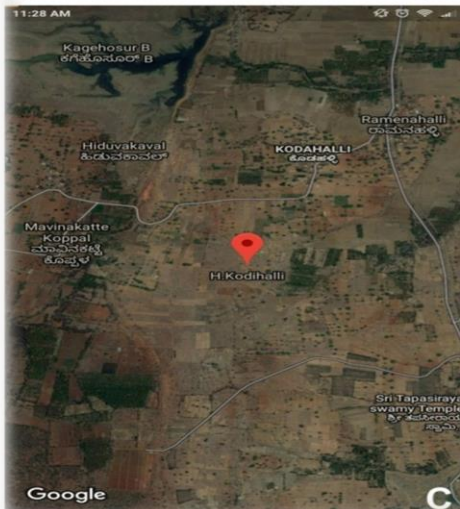
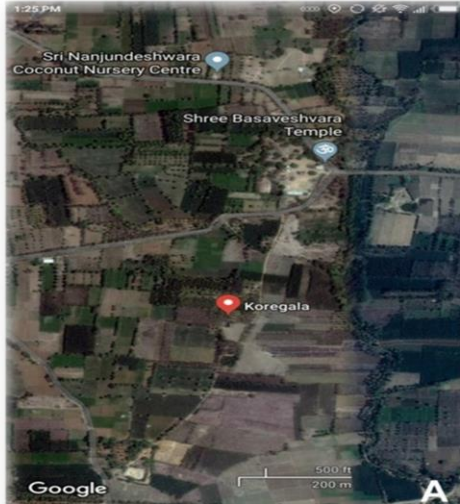


*Acosmeryx akanshi* holotype (India, Karnataka, Dandeli N.P., Muppai Point) (SMCR) male underside



# Extension Activities

Students visit fields and farmers to interact and discuss with the farmers

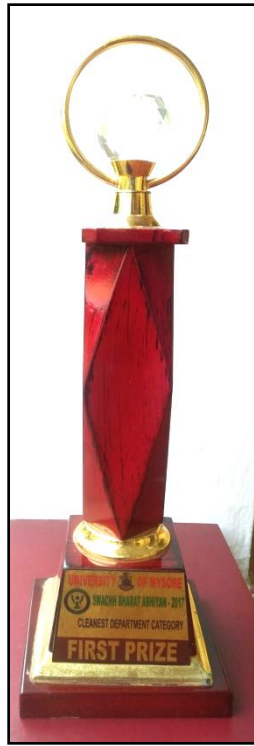


# NSS activities

Place: Maralur-Goddanapura,  
Nanjangud, Mysuru Dist



# SWACHH BHARATH ABHIYAN - 2017



**FIRST PRIZE  
CLEANEST DEPARTMENT  
CATEGORY**



# Events Organized

## National Conference

### Seribiomics: Challenges, Innovations and Solutions

- **Date: 15-17 February, 2018**
- **No of Abstracts Received: 127**
- **Lead Papers : 08**







## Events Organized

# Frontier Lectures on Seribiotechnology

➤ **Date: 21-22  
March, 2019**

➤ **Resource  
Persons  
Delivered  
Lectures: 09**



# Workshop

- **Title: Entrepreneurial Opportunities in Sericulture**
- **Date: 20- 04- 2017**
- **Resource Persons Delivered Lectures: 07**



## Events Organized

### Two days Workshop

**Title:** Adoption of Advanced Technologies for Sustainable Sericulture

- **Date:** 25-26 February, 2020
- **Resource Persons Delivered Lectures:** 09





**Thank you All**