



The Berar General Education Society's

**SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL  
COLLEGE OF SCIENCE, AKOLA**

**Affiliated to  
Sant Gadge Baba Amravati University, Amravati,  
Maharashtra**

**NAAC Re-accredited with Grade "A"  
(CGPA 3.18)**

**Website: [www.rltsc.edu.in](http://www.rltsc.edu.in)**

**7.2- BEST PRACTICES**

**Session :2022-23**



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**Shri Radhakisan Laxminarayan Toshniwal  
College of Science, Akola  
(R.L.T. College of Science, Akola)**



NAAC Accredited with 'A' Grade, CGPA - 3.18

Recognized by Govt. of Maharashtra, Affiliated to Sant Gadge Baba Amravati University,  
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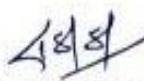
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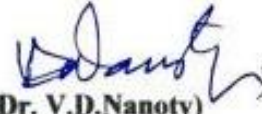
Date: 30/06/2023

**DECLARATION**

This is to declare that, the information, data, photographic evidences, true copies of the supporting documents etc. furnished in this file of **7.2: Best Practices of the Institution** is checked and verified by IQAC, Shri R. L. T. College of Science, Akola and found to be correct.

  
(Dr. R. L. Rahatgaonkar)  
IQAC Coordinator  
Shri R L T College of Science, Akola



  
(Dr. V.D. Nanoty)  
Principal & IQAC Chairman  
Shri R L T College of Science, Akola

# SHRI R.L.T. COLLEGE OF SCIENCE, AKOLA

## Best Practices of Session :2022-23

### Best Practice – 1

#### **Title of the Practice:**

#### **Self-employment through sericulture**

#### **Objectives of the Practice:**

- To give knowledge about silkworm, mulberry cultivation, and silkworm-rearing techniques to the students.
- To make the student aware of the Soil-to-silk concept.
- To increase the employability of students.
- To inculcate entrepreneurship and capacity building among the students.
- To train people from poor economic backgrounds to take Sericulture as a prosperous career.
- To ensure a sustainable rural economy by adopting Sericulture.
- To develop expert manpower to handle the Sericulture units.
- To make the students aware of Sericulture extension and innovative technologies/ techniques etc.
- To train the students and society in Silk production techniques.

#### **The Context:**

Sericulture is one of the most labor-intensive sectors, combining activities of both agriculture (sericulture) and industry. Sericulture being an agro-based enterprise plays a predominant role in shaping the economic destiny of the rural people. It holds promise as an employment-generating industry, especially in rural and semi-urban areas. Sericulture is an agro-based industry, practiced in India for many centuries. The labor-intensive industry remains one of the major strengths of India fascinating with its most exquisite workmanship and beauty which no other country has ever been able to replicate. Silk has always been fashionable and for the last few years, it has remained a strong component of the international fashion trends. Sericulture is a multidisciplinary activity consisting of mulberry leaf production, silkworm rearing (cocoon production), silkworm egg production, silk reeling, twisting, warp and weft making, printing and dyeing, weaving, finishing, garment designing, marketing etc. In India, Sericulture is not only a tradition but also a living culture. Moreover, women participate in the activities of sericulture, thus provide ample scopes for their development through awareness, capacity building through imparting training, demonstration and guiding for empowerment so that the society will be socioeconomically uplifted and the country as well. It is a farm based, labour intensive and commercially attractive economic activity falling under the cottage and small-scale sector. It particularly suits rural based farmers, entrepreneurs and artisans, as it requires small investment, but with potential for relatively higher returns. It provides income and employment to the rural people especially farmers with small landholdings.

### The Practice:

- 1<sup>st</sup> September of every year is celebrated as “Sericulture Day”. All students of Diploma course in sericulture and M.Sc. II Zoology attended the program at Dist. Sericulture Office, MIDC Phase I, Akola. Project Director, Mr. V. B. Thakre, officers, other staff and farmers from Akola district were present for the program. Dr. Rashmi Joshi was invited as the Chief guest of the program. 28 students were present and got information about Govt. Scheme MGNREGA for Sericulture project.

### Workshop and Lectures by resource persons from the District Sericulture office on National Silk Day



Celebration of National Silk Day by worshipping the Mulberry plant on 1<sup>st</sup> September 2022 at the District Sericulture Office Akola.



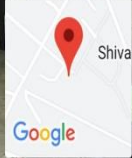
Dr. Rashmi Joshi delivering lecture as a resource person for the students and farmers.



Felicitation of the women and farmers who are harvesting excellent silk production

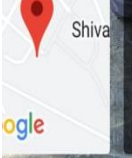






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Felicitation as a resource person by the District Sericulture Officer Akola



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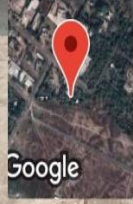
Students and Farmers attending workshop organized by District Sericulture Office.

• **Hands-on Training Program:**

On date 17/01/2023 all the students enrolled for diplomas visited Nehru Yuva Reeling Centre, MIDC, Akola. Dr. Rashmi Joshi Sawalkar, the course coordinator organized the training program for students. How to dry, stifling and Di-flossing of cocoons can be done was taught to the students by giving hands-on training by the experts. The knowledge was given about How the good cocoons are sorted for marketing and how they are preserved was taught to the students.

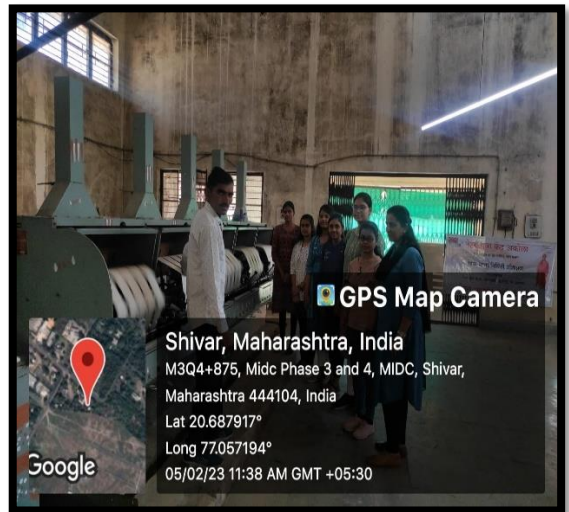
A group of M.Sc. Zoology and Botany of Diploma in Sericulture students from the 2022-23 batch visited MIDC at Nehru Yuva Cocoon Reeling Centre on 17/01/23. All the students were given Hands-on Training about Stifling and Reeling silk from silk cocoons and making reels. This training program was under the Kaushalya Adharit Udyamita Project.

**Visit to Nehru Yuva Reeling Centre**



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 Shivar, Maharashtra 444104, India  
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Hands-on training by the experts

• **Organization of Farmer's meet/ Workshop:**

One Day Workshop and Farmer's meet was Organized on 13/03/2023, under the MoU with District Sericulture Office and Central Government Scheme Unnat Bharat Abhiyan at adopted village Aapatapa by Shri R.L.T. College of Science, Akola. In the workshop the farmers and villagers were informed and made aware about how the sericulture can be beneficial as an additional agro based industry by Mr. P.B. Narwade, Silk Development Officer, Akola. The program was guided by Mr. Vijay Thakre, Sericulture Project Officer, Akola and Mr. Sunil Mankar. Dr. Archana Savarkar gave beautiful information to everyone. Dr. Rashmi Joshi, NSS program officer and Diploma course Coordinator took efforts to organize the workshop. Dr. Samadhan Munde and Mr. Shailesh Jaiswal and the participants worked tirelessly and made efforts to make the workshop a success.





**Evidences of Success:**

- Department of lifelong learning and extension Sant Gadge Baba Amravati University Amravati appreciated this skill-based activity.
- Devoted student participants enrolled to 6 months Diploma course in sericulture.

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**Department of Lifelong Learning & Extension**  
 Department of Lifelong Learning & Extension  
 No. SGBAU/DLLE/526/283/2022  
 Date:- 07/09/2022

**Certificate of Appreciation**

This is to certify that Shri Radhakisan Laxminarayan Toshniwal College of Science, Akola (Maharashtra State) college code - 210 was designed the following six moth skill based Diploma Courses.

Hence provide an appreciation certificate to the college by Department of Lifelong Learning and Extension, Sant Gadge Baba Amravati University, Amravati.

Sr.No.	Name of Course	Duration of Course	Name of the Course Designer
1.	Diploma in Sericulture	6 Months	Dr. R. P. Joshi Asst. Professor Dept. Zoology
2.	Diploma in Astronomy	6 Months	Shri S. R. Jaiswal Asst. Professor Dept. Physics

I wish her/him success in the future and become a role model for teachers.

  
**Dr. Shekhar P. Patil**  
 DIRECTOR  
 Dept. of Lifelong Learning & Extension  
 Sant Gadge Baba Amravati University



**Resources required:**

- Rearing Trays, well equipped rooms for rearing silkworms.
- Mulberry Plantation for feeding the Larvae.
- Sericulture rearing farmers and silk reeling centres, cocoon processing centres.
- Transportation facility for study tour visits.

**Problems Encountered:**

- It is quite difficult to rear silkworms in hygienic conditions in laboratory as it is the delicate venture which is easily susceptible to infection.
- It is difficult to make available the DFL's (Disease free laying's) for chawki rearing for healthy and good harvesting of cocoons.
- It is difficult to make available, the fresh mulberry leaves for every feed while rearing the young worms in laboratory.
- It is difficult for the students to understand the scientific terms in local languages used by farmers during hands on training process.

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## Best Practice - 2

### **Title of the practice:**

**Plastic eradication: A step towards sustainable Environment.**

### **Objectives of the Practice:**

- To create awareness among students about environment protection.
- To create a sense of social responsibility among college students.
- To promote public awareness about responsible waste disposal.
- To establish environment-friendly plastic waste disposal solutions.

### **The Context:**

Mother Earth is already suffering from the problem of excessive use of plastic by a human. A significant portion of garbage is plastic waste. Poorly handled waste can end up in rivers, oceans, and other water sources, polluting the water and contaminating the soil below it. Handling plastic scraps properly can reduce pollution and its ill effects on the earth. Furthermore, waste management aims to foster innovation and the development of advanced technologies for waste treatment. In this situation, using green chemistry concept for treatment of waste plastic is the best option to release some burden of plastic from the earth. This helps to create economic benefits while protecting the environment. To contribute in this noble work, we decided to provide helping hands for environment protection.

### **The Practice:**

- The ill effects of plastic pollution were explained to the students. It was urged that, as a responsible member of the society, all should also try to curb plastic pollution.
- Specially, NSS volunteers and Crystal club members of Chemistry department were involved in this activity. Students created awareness about plastic elimination through street plays at adopted village Apoti.
- Students collected waste plastic from the houses, streets and nearby college area.
- They deposited the waste at designated location i.e. Plastic Collection Corner in college campus.
- Bags of waste plastic collected were handed over to Meera Brijmohan Industries (opc) Private Limited, M.I.D.C., Akola. This industry is totally based on green chemistry concept. In this industry oil is prepared from waste plastic of all quality.
- Shri Purshottam Gupta, Chief Executive Officer and owner of Meera Brijmohan Industries explained students about the detail process of how plastic is converted into oil. The gases which are evolved during this process are used as fuel and the remaining black carbon is also used in dyeing purpose.

### **Evidence of Success:**

- Students get motivated by interaction with successful business owner, Shri Purshottam Gupta, venturing into conversion of waste plastic into fuel oil.
- We got a best green way to eliminate plastic from the surroundings. Students promised to actively participate in plastic eradication campaign and work as nature messengers.

- Community engagement and educational campaigns through street plays in adopted village encouraged people to adopt sustainable habits.

### Resources required:

- Motivating staff and devoted student volunteers.
- Transportation facility to carry collected waste plastic

### Problems Encountered:

- It is quite difficult to convince people for not to use plastic items.
- The difficulty was faced in separating the plastic waste from mixed wastes.

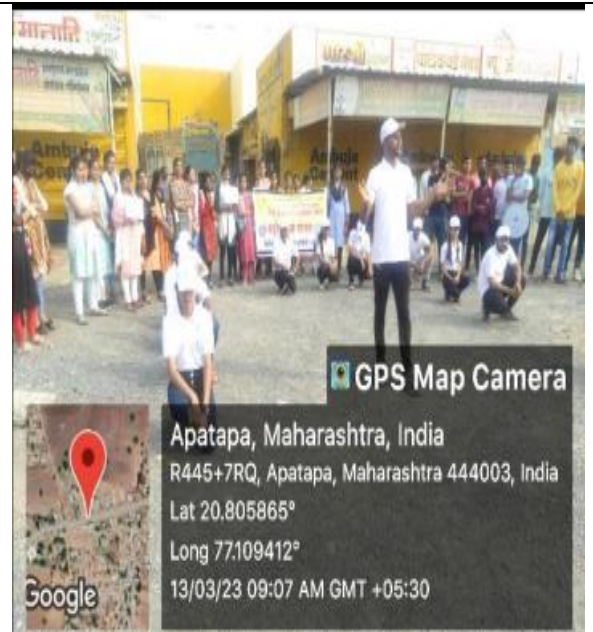
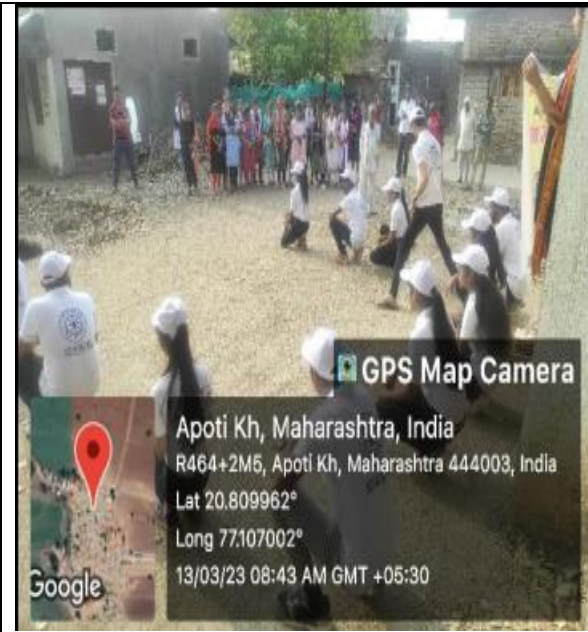
## Plastic eradication: A step towards sustainable Environment. Photographic evidences

### Awareness campaign about Plastic eradication ↓



Principal Dr. V.D. Nanoty sir and staff members, while giving instructions and best wishes for this noble task

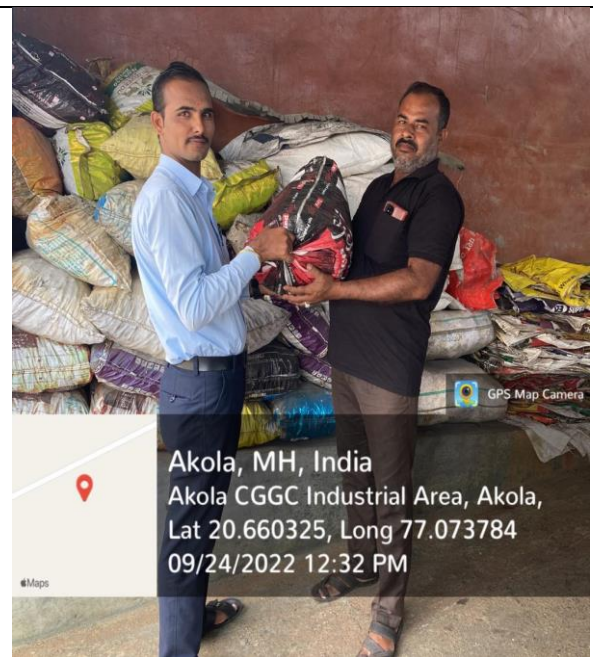




Students created awareness about plastic elimination through street plays at adopted village Apoti



Plastic Collection Corner in college campus.



waste plastic collected was handed over to Meera Brijmohan Industries, M.I.D.C., Akola.





Owner of Meera Brijmohan Industries explained students and staff about the detail process of how plastic is converted into oil.



Team involved in plastic eradication campaign

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