

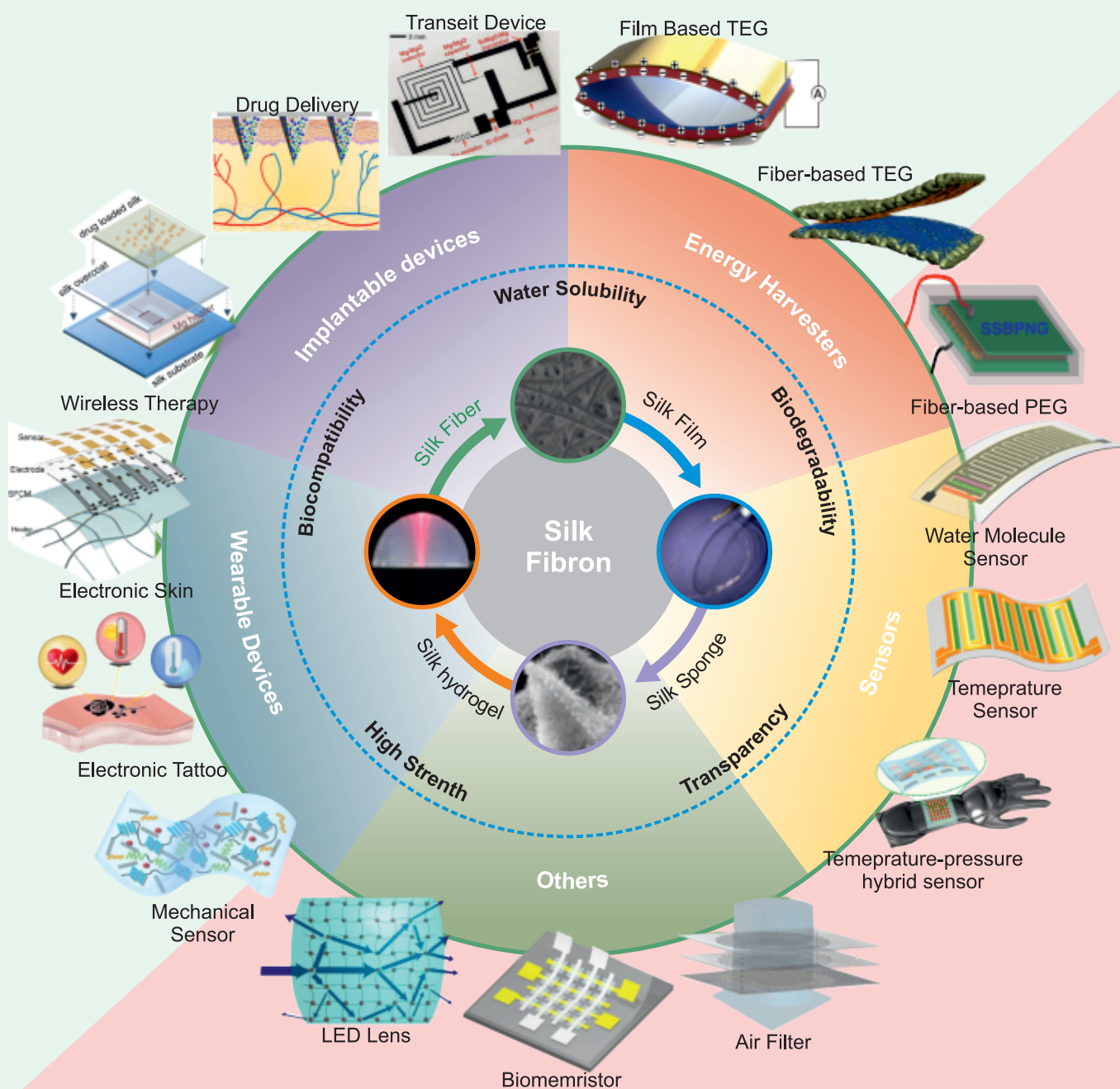


# INTERNATIONAL CONFERENCE ON SILK FIBROIN & SERICULTURE RESOURCES



(IC-SFSR-24)

(A Multi-Mega Event On Innovative Technologies For Viksit Bharat)



(Date: 16<sup>th</sup> to 19<sup>th</sup> February 2024)

-: Organized By :-

**Centre For Research & Technology Developments (CRTD) - NBNSCOE,**

Sinhgad Intitutes, Solapur – 413255. MS (INDIA).

-: In Collaboration with :-

**School of Earth Sciences, Punyashlok Ahilyadevi Holkar, Solapur University,**

Solapur – 413255. MS (INDIA).

## Preamble

Silk Fibroin is a fine product of the sericulture industries, one of the oldest industries in India and Asia. Sericulture is the agro-cottage, forest-based, labor intensive and commercially attractive economic activity falling under the cottage and small-scale sector. It particularly suits rural population in agriculture, entrepreneurs, and artisans that require low investment with potential for relatively higher returns. It provides income and employment to rural and poor farmers with small land-holding capacity or weaker sections of society. In recent years different varieties of silk fibroin applications have emerged in combination with nano science and nanotechnology which are leading to bionano technology of silk fibroin. Considering these developments, this conference has planned to throw light on fundamental aspects of silk fibroin specifically on their resources, physicochemical properties, different types of blends and their bionanocomposites for variety of applications, like Energy harvesters & storage, Implantable devices, Wearable devices, Sensors and Smart clothings, Flexible electronics and many others. This Multi-Mega Event is a step towards “Viksit Bharat – 2047”.

## A Multi-Mega Event

### IC-SFSR-24



Sr. No.	Events	Dates			
		Fri. 16th Feb.	Sat. 17th Feb.	Sun. 18th Feb.	Mon. 19th Feb.
1.	International Conference on Silk Fibroin & Sericulture Resources.	←		→	
2.	International Workshop on Silk Fibroin Bionanocomposites.				↔
3.	Exhibition & trade show.	←			→
4.	Skill Development programs.		↔ For Farmers	↔ For Doctors Engineers	
5.	Science Exhibition for Students.	←	→		
6.	Talent Search (Quiz Competition).		↔		
7.	Interaction with Scientists.		↔		
8.	Dista.				↔

## Focus of Conference

1. Silk Fibroin Textile Industries.
2. Silk Fibroin for Futuristic Electronics.
3. Silk Fibroin as a functional biomaterial tissue engineering.
4. Silk Fibroin – a diagnostic tool for targeted drug delivery.
5. Silk Fibroin for wound healing and dressing.
6. Application of Silk Fibroin in Energy harvesting & storage.
7. Value chains in sericulture and National Economy.
8. Silkworm Genetics, Breeding, Egg production, Rearing, Feeding, Pathology, Silkworm as a Biological models.
9. Possibility for Using Silkworm and Mulberry for non textile purpose.
10. Organic sericulture.
11. Climate changes and chemicals influence on Sericulture.
12. Sericin as a value added biproduct.
13. Nanobiotechnology and many other Natural Polymer
14. Sericulture Resources & Rural Development.

## Call for abstract

A copy of the abstract of the paper may be submitted / emailed [crtddconference2023@gmail.com](mailto:crtddconference2023@gmail.com) to the “convener IC-SFSR-24” on or before 16th January 2024. Abstract may confined to A4 Size paper having maximum of 300 words. The abstract includes full titled typed in capital letter & center. The authors 'names & affiliations may follow the title. The name of authors presenting the paper should be underlined. The email-address of corresponding author, as well as affiliation of all authors & their complete address should be given. The text, in single spacing may start after a gap of one line. Letter size should be 12 in Times New Roman fonts. Authors should submit the PDF files of their abstract via email. All the abstracts accepted for presentations IC-SFSR-2024 will be printed in an abstract Book or copiers in CD.

## Exhibition

(Business Opportunities at IC-SFSR-2024)

IC-SFSR-2024 will provide you with an ideal opportunity to meet the people, who reply matter to you and your business. It will build a meaningful relationship, showcase products & technology solutions, service as well as directly interact with people who make the strategic decision.

As an exhibitor, this event offers a host of business opportunities. The important feature of exhibition is display, demonstrate and sale.

## International Workshop on Silk Fibroin Bionanocomposites

Silk Fibroin is widely used as a green biomaterial in various fields of research like textiles, biomedical engineering, biotechnology, electronics, photonics and energy research. This is because SF can be reconstituted in numerous forms by physical and chemical processes. The numbers of studies have been attempted to incorporate in addition to its unique functional aspects that can be incorporated into SF while maintaining its beneficial natural characters. This new area of biotechnology with bio-nanocomposites is the result of breakthrough in nanoscience and nanotechnology. SF bionanocomposites and their innovative applications for the use of these SF bio-nanocomposites materials have been developed in the recent years and these are documented in a book entitled “Silk Fibroin: Advances in Applications and Research” Edited by Prof. Dr. S. H. Pawar and published by Nova Science Publisher, USA, January 2023.

This workshop is organized by CRTD, Sinhgad Institutes, Solapur (India) in collaboration with Maharashtra Academy of Sciences, Pune.

## Talent Search

(Quiz Competition)

The faith of the commercialization of Silk Fibroin and Sericulture Resources is very much dependant on the interest of the youth of the nation. The young students can play a key role in this direction. With this motive, it is planned to organize a quiz competition on the Silk Fibroin & Sericulture Resources technologies for intercollegiate students in IC-SFSR-2024. It consists of mainly a competition on theme of conference and exhibition. For more details go to the website of IC-SFSR-2024.

## DISTA- 2K24

DISTA-2K24 is congregation of students with diverse talent in technical area. It has been a mega event since last fourteen years which includes paper presentation, poster presentation, Lathe War, CAD War, Robo Race, Technical Quiz, Circuit Building, Circuit Debugging and so forth. A Platform is provided to engineering students to showcase their talent.

## Participants

Anybody interested in Silk Fibroin and Sericulture Resources from any field is invited to participate in the multi-mega event. College students are especially invited to take part in the inter collegiate quiz and exhibition competition organized on the topics of Bionanocomposites. Manufactures are invited to avail this opportunity to exhibit their product to the pool of targeted users. Farmers, Industrialists, Professors and students are invited to take part in the special workshop on Silk Fibroin and Sericulture Resources. Researchers are invited to make the presentation in the form of poster/oral.



## Payment Details

All Payment should be made payable at NBNSCOE International Conference on Silk Fibroin and Sericulture Resource (IC-SFSR-24) A/c No. 916010038065803 Axis Bank Ltd. Hotgi Road, Solapur. IFSC Code: UTIB0001043.

## Accommodation

The campus accommodation may be provided on request at nominal charges on first come first serve basis.

## Deliverables from the Event

- A step towards transformation of developing India to developed India (Viksit Bharat-2047).
- Transformation of existing energy utilization pattern of conventional to renewable energy resources.
- Making available Silk Fibroin and Sericulture Resources for Rural Developments.
- Gain the latest information about state of the art Silk Fibroin and Sericulture Resources.
- Learn Social & economical aspects of Silk Fibroin and Sericulture Resources.
- Review the recent policy developments impacting the Indian Sericulture Industries.
- Gain understanding of government policies and priorities.
- Achieve strategic and operational excellence to address the goal of advancing Sericulture Industries.
- Participate in interactive panel discussion tackling some of the most pressing issue, facing the industry.
- Experience sharing through presentation and case studies.
- Interact and network with use stakeholders & policy makers.
- Opportunity to Display, Demonstrate and sale product by industries.

## Technological Support Souvenir Advertisement

Category	Conference title Sponsor	Platinum	Diamond	Gold	Silver
Amount	Rs.500000	Rs.300000	Rs.200000	Rs.100000	Rs.50000

## Registration Information

Events	Upto 2 <sup>nd</sup> Feb 2024	After 2 <sup>nd</sup> Feb 2024
International Conference: (IC-SFSR-24)		
A) Students	Rs. 1500 / \$-100 (foreigner)	Rs. 2000 / \$-150 (foreigner)
B) Delegates	Rs. 4000 / \$-200 (foreigner)	Rs. 5000 / \$-250 (foreigner)
Skill Development Program	Rs. 1000	Rs. 1500
Exhibitors	Rs. 14000 to 20000 (As per space & position)	Rs. 16000 to 24000 (As per space & Position)
Inter Colleague Quiz Competition (Team Entry)	Rs. 2000 (Per team of 5 students) Entry fee + Registration of International Conference	Rs. 5000 (Per team of 4 students) Entry fee + Registration of International Conference
International Workshop (IC-SFSR-2024)	Rs. 1000 / \$-75 (foreigner)	Rs. 1400 / \$-100 (foreigner)

## Background of Organization

### 1. Centre for Research and Technology Developments (CRTD), NBNSCOE, Sinhgad Institutes, Solapur, India.

Sinhgad Institute is one of the largest providers of quality education in India. Prof. M. N. Navale, Founder President of Sinhgad Institutes established these canters of excellence with the vision of bringing technical education to the masses. Today, Sinhgad Institute provides education from KG to PG and also runs doctoral programs. Starting with Sou. Venutai Chavan Polytechnic in 1993. Today we have nearly 85 education institutes located at 12 campuses, nurturing the dreams of over 86,000 students in various

disciplines every year. As an extension **Savitribai Phule Shikshan Prasarak Mandal (SPSPM)** was founded in 2006 under the umbrella of Sinhgad Institutes with the goal of providing quality education in the field of Engineering, Management and School Education. Considering the need of nation, the Sinhgad Institute Solapur has established "Centre for Research and Technology Developments", at Sinhgad Institute, Solapur to meet the global needs. The centre has conducted the Multi Mega event on "Innovative Technologies for Rural Development & Their Commercialization ITRDC in 2017, in collaboration with BARC, Mumbai, to showcase the significant and promote the usage of innovative technologies for rural development that dreams come true of **Mahatma Gandhi**.



On the similar line, the CRTD has planned the International Conference on “Silk Fibroin and Sericulture Resources” (IC-SFSR-24) on 16<sup>th</sup> to 19<sup>th</sup> Feb. 2024.

It is a Multi-Mega Event with the emerging Trends in the development of Silk Fibroin technologies. The CRTD has launched a new programme for the development of young engineers as researchers by introducing the scheme of “**UG research scholars**”. There are 60 research scholars selected and engaged in development of emerging technologies based on Silk Fibroin. Related to the theme of International Conference, IC-SFSR-24.

## **2. School of Earth Sciences, Punyshlok Ahilyadevi Holkar Solapur University, Solapur.**

The School of Earth Sciences was set up at the Solapur

University during 2008 to initiate inter-disciplinary teaching and research programs and three departments work under the school to impart the programs. The establishment of Department of Applied Geology-1984, Department of Environmental Science-2008 and Department of Geoinformatics -2008. The hallmark of the school lies in using synergy between Applied Geology, Environmental Science and Geo informatics to bridge the digital divide and promote knowledge-driven and job-led economic development of the country. The school currently executes research in various thrust areas which include water harvesting, mineral exploration, groundwater modelling, environmental impact assessment, natural resource management, disaster mitigation, climate change, seismology etc.

## **International Advisory Committee**



1. **Dr. Anil Kakodkar** Chairman, Rajiv Gandhi Science & Technology Commission, Mumbai. India.
2. **Prof. G.D.Yadav** National Science Chair. Govt. Of India.
3. **Prof. Dr. P. Tzenov** President BACSA. Bulgaria.
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9. **Dr. Sabu Thomas** Ex. Vice Chancellor. Mahatma Gandhi University, Kottayam, Kerala. India.
10. **Sri Rajit Ranjan Okhandiar** Secretary General, Indian Sericultural Commission. Bengaluru. India.
11. **Dr. Vivek Bhasin** Director, BARC. Mumbai. India.
12. **Prof. Venu Gopal Achanta** NPL. Delhi. India.
13. **Dr. Anuya Nisal** National Chemical Laboratory. Pune. India.
14. **Prof. Abhay Karandikar** Secretary. Department of Science and Technology. Delhi. India.
15. **Dr. Meenal R.** Director. Central Sericulture Research & Training Institute. Mysore, India.
16. **Dr. Julia S. Nair.** Central Sericulture Research & Training Institute. Berhampore. West Bengal. India.
17. **Dr. N.B.Chowdary.** Central Tasar Research & Training Institute. Ranchi. Jharkhand. India.
18. **Dr. V. Nishita Naik.** Central Sericultural Research & training Institute. Hosur. Tamilnadu. India.
19. **Dr. S. Periyasamy** Central Sericultural Research & Training Institute. Bangalore. India.
20. **Dr. V. Sivaprasad** Seribiotech Research Laboratory. Kodati. Bengaluru. India.
21. **Dr. S.B.Dandin** Silkworm Seed Technology Laboratory .Bengaluru. India.
22. **Dr. Prakash Mahanwar** Vice Chancellor. PAHUS. Solapur. India.
23. **Prof. Dr. Suresh Gosavi** Vice Chancellor. SPP University. Pune. India.
24. **Dr. D.T. Shirke** Vice Chancellor. Shivaji University. Kolhapur.India.
25. **Prof. Rakesh Kumar Mudgal** Vice Chancellor. D.Y.Patil University Kolhapur. India.
26. **Prof. J. B. Joshi** Ex. Vice Chancellor Indian Chemical Technology. Mumbai. India.
27. **Prof. A. B. Pandit** Vice Chancellor Indian Chemical Technology. Mumbai. India.
28. **Prof. R. D. Kulkarni** Vice Chancellor University of Mumbai. India.
29. **Dr. A. D. Jadhav** Advisor National Sericulture Project HAVANA, CUBA.
30. **Prof. Dr. S.H.Pawar** Former Vice Chancellor & Director, CRTD, Sinhgad Institutes, Solapur. India.

## Chief Patron

### Prof. M. N. Navale

Founder President, STES, Pune &  
Chairman SPSPM, Kamalapur. (India)

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### Prof. Dr. L. B. Dama

Pro. Vice Chancellor,  
PAHSUS, Solapur. (India)

### Dr. (Smt.) Yogini Ghare

Register,  
PAHSUS, Solapur. (India)

## Local Organizing Committee

1. Prof. Dr. S. H. Pawar Director CRTD. Chairman (IC-SFSR-24).
2. Prin. Dr. S. D. Nawale Convenor, IC-SFSR-24 (NBNC SOE)
3. Dr. V. P. Dhulap Co-Convenor IC-SFSR-24 (PAHSUS)
4. Dr. V. V. Kharat Secretary, Administrative (NBNC SOE)
5. Dr. S. S. Shirgan Secretary, Academic (NBNC SOE)
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7. Dr. R. T. Vyavhare (NBNSCOE)
8. Dr. S. M. Jagade (NBNSCOE)
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25. Mrs. A. D. Ruikar (NBNSCOE)
26. Mr. A. A. Kamble (NBNSCOE)
27. Miss. P. N. Mule (PAHSUS)
28. Mrs. A. M. Shaikh (PAHSUS)
29. Miss. S. G. Bansode (PAHSUS)
30. Mr. S. A. Shaikh (NBNSCOE)



## About Solapur

It is located in South-eastern Maharashtra & easily accessible via air, road & is an important railway junction on the North South train line. It is an ancient, historical and religious place with Shri. Shivyogi Siddheshwar. The Solapur city is the District headquarter and it is located on the south east edge of the state and lies entirely in the Bhima and Sena basins.

## Address for Correspondence

**Prof. (Dr). S. H. Pawar** (Emeritus Scientist)  
Chairman, IC-SFSR-24 &  
Director, Centre for Research & Technology  
Developments, Sinhgad Institutes, Solapur.- 413255  
(M.S.) India.

**Dr. S. D. Nawale**  
Convener, IC-SFSR- 24 &  
Principal, NBNSCOE. Solapur – 413255.  
(M.S.) India.



**Dr. V. P. Dhulap**  
Co-convener, IC-SFSR-24 &  
Director, School of Earth Sciences,  
PAHSUS. Solapur – 413255. (M.S.) India.

Email : [crtconference2023@gmail.com](mailto:crtconference2023@gmail.com)

Website : [www.sinhgadsolapur.org](http://www.sinhgadsolapur.org)

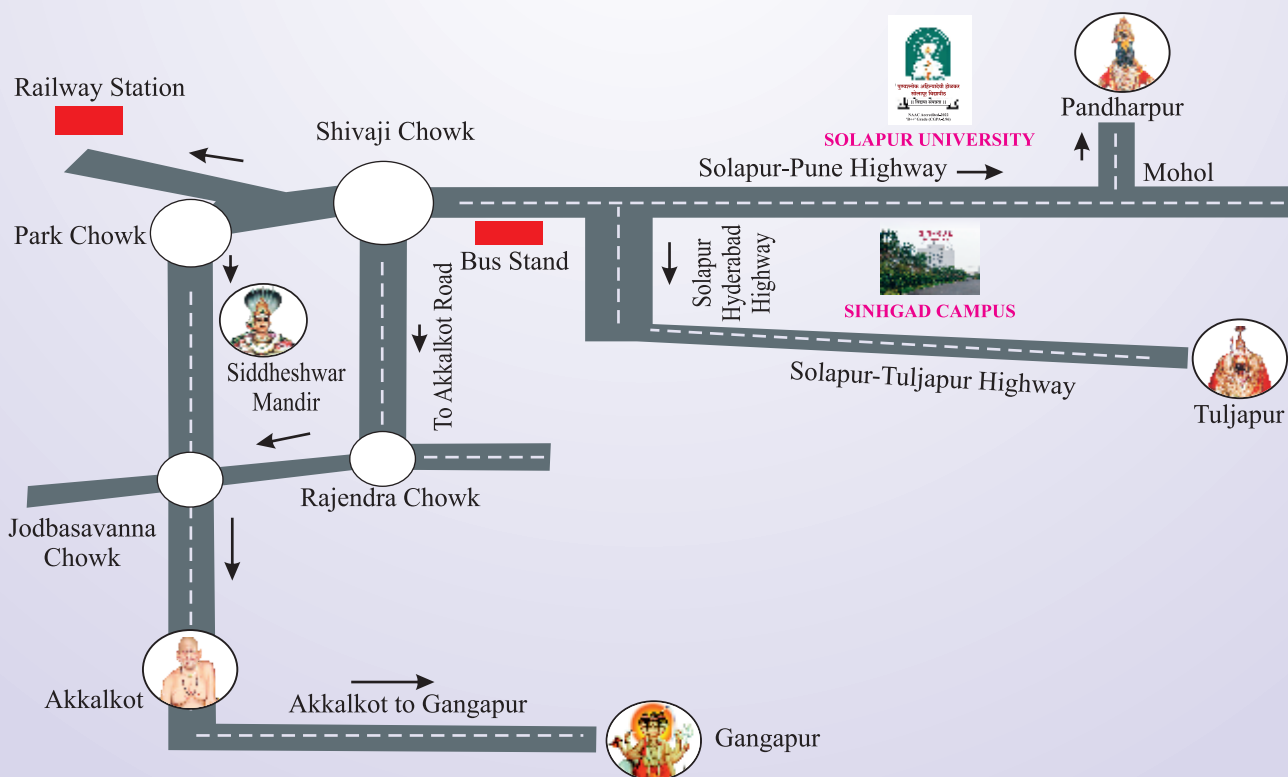
<https://su.digitaluniversity.ac>

<https://www.sus.ac.in/>

## Places to visit

### Distance from SINHGAD CAMPUS, Solapur

1) Shri Shivyogi Siddheshwar Mandir	Solapur City	10km
2) Shri Tuljabhawani Mandir	Tuljapur	54 km
3) Shri Vitthal Rukmini Mandir	Pandharpur	70 km
4) Shri Swami Samarth Mandir	Akkalkot	48 km
5) Shri Gurudev Datta Mandir	Gangapur	100 km



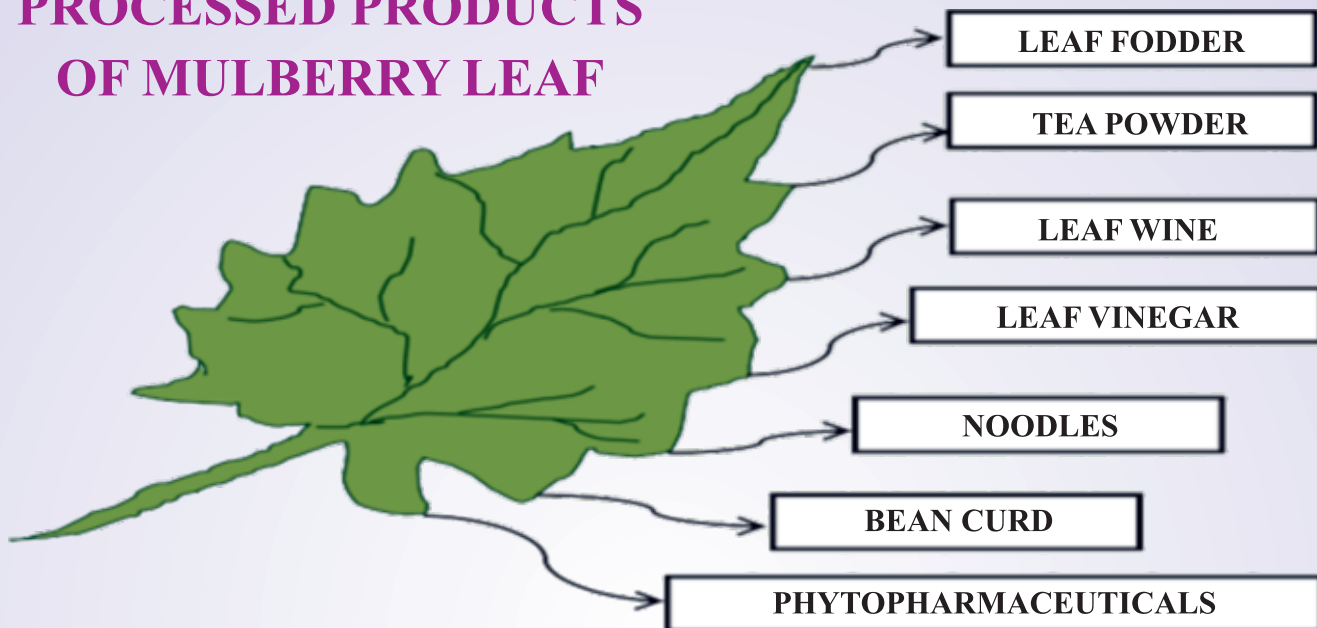


## Sericulture Workshop

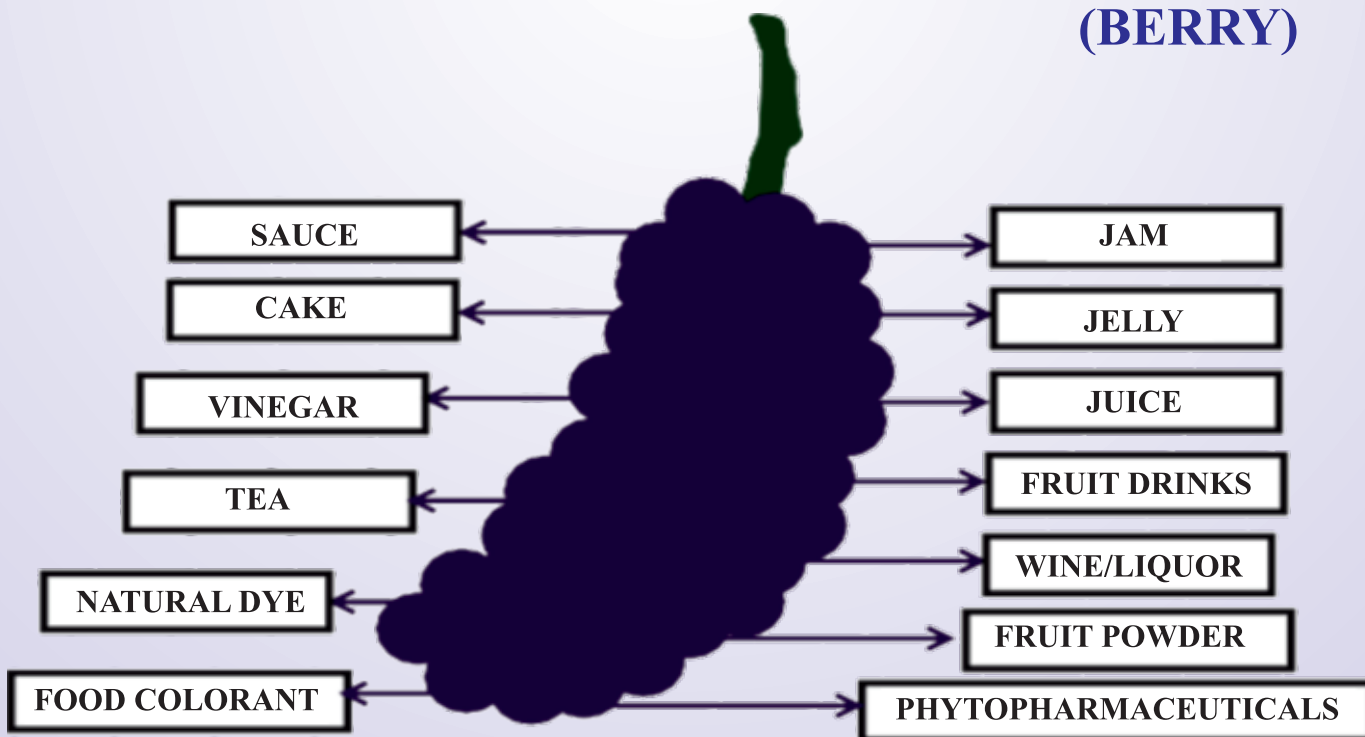
(Great Opportunity to Farmers)

The farmers are invited to attend one day workshop on Saturday 17<sup>th</sup> February 2024. Those who are interested, please register the names on or before 12<sup>th</sup> February 2024.

### PROCESSED PRODUCTS OF MULBERRY LEAF



### PROCESSED PRODUCTS OF MULBERRY FRUIT (BERRY)



There are many other applications in human health, flexible electronics, energy harvesting and what not?