



Shirdi Sai Rural Institute's
ARTS, SCIENCE AND COMMERCE COLLEGE, RAHATA

"NAAC REACCREDITED "B++" GRADE COLLEGE"
A/P/Tal-Rahata, Dist.-Ahmednagar. (M.S.) 423107
Affiliated to Savitribai Phule Pune University, Pune
www.ascrahata.org



SELF STUDY REPORT-CYCLE 3
2018-2023

Criterion: III
Research, Innovations and Extension

Key Indicator: 3.2
3.2- Innovation Ecosystem

Metric: 3.2.2.1 (Q_nM)

Number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years

Name of the workshop/ seminar/ conference

Solids shall be alternate sources to replace harmful organic solvents (mixed solvency concepts)

Report

11 Oct. 2021

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Date-03/09/2021

To,
The Principal,
Arts, Science and Commerce College,
Rahata.

Subject:- Regarding permission to organize online webinar

Respected Sir,

With reference to above mentioned subject, Our Department of Chemistry going to organize Online National Webinar on Monday, 11th October 2021 on the topic entitled "Mixed solvency Concepts". We are invited Dr. R. K. Maheshwari from the Department of Pharmacy, Shri G. S. Institute of Technology and Science, Indore, Madhya Pradesh as a resource person for this webinar.

So, it's my humble request to you, give the permission to organize the webinar. Please kindly accept it and do the needful and oblige.

Thanking You,

Yours Sincerely,




Dr. G. D. Shirole
Co-ordinator of Webinar



Dr. V. P. Bhalekar
IQAC Co-ordinator



Prof. A. S. Tambe,
Head, Dept. of Chemistry,


Signature of the Principal/
Principal
Art's, Science & Commerce College
Rahata, Dist. Ahmednagar

'Shirdi Sai Rural Institute's'

ARTS, SCIENCE AND COMMERCE COLLEGE, RAHATA



Tal- Rahata, Dist-Ahmednagar (423107)
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Recipient of "Best Rural College Award" from University of Pune (2012-13)
Recipient of "Best Rural College Award" from Student Welfare Board, University of Pune (2011-12)

"NAAC REACCREDITED "B++" GRADE COLLEGE"

Ref.-ASCR/Chem/2021-22

Date-28/09/2021

To,

Dr. R. K. Maheshwari,
Professor, Department of Pharmacy,
Shri Govindram Seksaria Institute of Technology and Science,
Indore, Madhya Pradesh, India.

Subject: - Invitation as a **Resource Person** for National webinar....

Respected Sir,

With reference to above mentioned subject, Our College is going to organize National Webinar for students, teachers and researchers in the second week of October 2021.

On behalf of our Department of chemistry and ASC College Rahata, we heartily invite you as a **Resource Person** for this National Webinar on Monday, 11th October 2021 at 10.30am.

Please kindly accept our invitation and do needful.
Thank You,

Yours faithfully,

Prof. A. S. Tambe,
Head, Dept. of Chemistry,
Mob.No. – 9881896476.

Signature of the Principal/
H.C. PRINCIPAL
Art's, Science & Commerce College
Rahata, Dist. Ahmednagar

**"SHIRDI SAI RURAL INSTITUTE'S"
ARTS, SCIENCE & COMMERCE COLLEGE, RAHATA**



**DEPARTMENT OF CHEMISTRY
ORGANIZED
NATIONAL LEVEL WEBINAR
ON**



**SOLIDS SHALL BE ALTERNATE SOURCES TO REPLACE HARMFUL
ORGANIC SOLVENTS (MIXED SOLVENCY CONCEPTS)**



(Zoom Link-
<https://us05web.zoom.us/j/83060922336?pwd=eFhRbEVxWC9uc2JtaUJCTUpkO04UT09>)

SPEAKER

PROF. DR. R.K. MAHESHWARI

DEPARTMENT OF PHARMACY, SHRI.G.S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE (MP)

DR. G. D. SHIROLE
CO-ORDINATOR

PROF. A. S. TAMBE
HEAD
DEPT. OF CHEMISTRY

DR. M. N. KHARDE
DIRECTOR
SSRI, RAHATA

PROF. S. V. LAHARE
PRINCIPAL

MONDAY, 11TH OCTOBER 2021

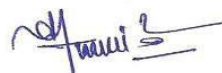
TIME-11.00AM




Date-03/09/2021


Student Notice

All the students of T.Y.B.Sc. Chemistry and M.Sc. Organic Chemistry are here by informed that, Our Department of Chemistry has organized Online National Webinar on Monday, 11th October 2021 at 10.30 am on the topic entitled "Mixed solvency Concepts". For this webinar, we are invited Dr. R. K. Maheshwari from the Department of Pharmacy, Shri G. S. Institute of Technology and Science, Indore, Madhya Pradesh as a resource person. Its compulsory to all, so all students must be present for this webinar.



Prof. A. S. Tambe
Head, Dept. of Chemistry

BSC. Prof. R. S. Narode 
10.45 am.

M.Sc. Prof. R. V. Dhawale 

TOPIC: Solids shall be alternate sources to replace harmful organic solvents (mixed solvency concepts)

DATE: Monday, 11th October 2021 **TIME-**11.00am-01.00pm

VENUE: Chemistry Seminar Hall (Online Webinar)

ORGANIZED BY: Department of Chemistry,
SSRI's, ASC College, Rahata

DETAIL SUMMARY OF THE EVENT:

The Department of Chemistry of our college was organized National webinar on Monday, 11th October 2021 at 11.00am on the topic entitled "Solids shall be alternate sources to replace harmful organic solvents (mixed solvency concepts)". Dr. R. K. Maheshwari, Department of Pharmacy, Shri. G. S. Institute of Technology & Science, Indore, Madhya Pradesh invited as a Resource person for this webinar. Dr. M. N. Kharde, Director SSRI Rahata; Prof. S. V. Lahare, Principal of our college; Prof. A. S. Tambe, Head Department of Chemistry, were present for the inauguration function. Also over 70 students, researchers and faculties of various colleges present at this webinar.

Firstly Prof. S.V. Lahare Principal of our college given welcomes speech and inaugurates session of national webinar. Dr. G. D. Shirole Co-ordinator of national webinar is given introduction of the speaker.

Prof. Maheshwari delivered talk on very broad and important topic entitled mixed solvency concepts, solubilization, eco-friendly methods in analysis and formulation. Also, he had given detailed knowledge about titrimetric estimation and hydrotropic solution in analysis of frusemide. Also Sir had focused on the concepts such as spectrophotometric determination of cefixime in tablets and spectrophotometric estimation of drugs by hydrotropic solubilization phenomenon.

At conclusion Prof. A. S. Tambe, Head Department of Chemistry was proposed the vote of thanks of the guest and the participants being present for the webinar. The anchoring of the webinar was done by Dr. G. D. Shirole.

REC

About Solids

The molecules of a solid may come in liquid state by three ways:

- By melting
- By dissolution in a solvent
- By eutectic formation

Once the molecules of solid come in liquid state, the molecules of solid can be involved in hydrogen bonding weak van der Waals forces with the molecules of solute.

10

Dr. R.K Maheshwari's screen

logi

Assay of Frusemide API

(Hydrotropic Analysis)

Weigh accurately about 0.5 gm Frusemide API

Dissolve in 40 ml of 30%w/v sodium benzoate aqueous solution (hydrotropic solution)

Titrate with 0.1 M sodium hydroxide using bromothymol blue solution as indicator

Blank determination using 40 ml of 30%w/v sodium benzoate solution

1 ml of 0.1 M sodium hydroxide is equivalent to 33.07 mg of frusemide.

Aishwarya Salu...

K

Dr. R.K Maheshwari

Gopinath Shirole

Dr. G.D. Shirole ASCC Rahata

Ravi Dhawale

11:08

Zoom

Leave

REC

Physics Rahata

Dr. R.K Maheshwari

Gopinath Shirole

Principal Prof. Sanjay ...

11:21 AM

REC

Dr.G.D.Shirole ASCC Rahata

Dr. R.K Maheshwari

Gopinath Shirole

Ravi Dhawale

Dr. R. K. Maheshwari, (Department of Pharmacy, Shri. G. S. Institute of Technology & Science, Indore, Madhya Pradesh) Delivering Lecture

4G	3G	11:31	14.2	4G
22%	22%		KB/s	14.2
Close Participants (65)				
GP	Game priti shivaji			
J	Gavande Jayshri			
GA	Ghorpade Abhishek			
GN	Ghorpade Nikita Laxman			
	Gopinath Shirole			
JP	Jadhav Priti sharad			
JA	Jejurkar aarti vilas			
JP	Jejurkar pratiksha sunil			
KG	Kailas Gawande			
KP	Kasar Pooja kanifanath			
KG	kiran Gaikwad			
KG	Kiran Ghorpade			
KD	kirti dhapatkar			

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"NAAC REACCREDITED "B++" GRADE COLLEGE"

Date-12/10/2021

LETTER OF APPRECIATION

To,

Dr. R. K. Maheshwari,
Professor, Department of Pharmacy,
Shri. Govindram Seksaria Institute of Technology and Science,
Indore, Madhya Pradesh,
India.

Dear Sir,

It's our great pleasure to thank you for your guidance on topic entitled "Solids shall be alternate sources to replace harmful organic solvents (mixed solvency concepts)" and shared your ideas, experience with the students, researchers and teachers of Pravara Education Hub on Monday 11th of October 2021.

We appreciate your virtual presence using zoom platform for providing valuable guidance and suggestions to the students, researchers and the teachers.

Thank you.

Prof. A. S. Tambe,
Head,
Dept. of Chemistry,

Signature of the Principal/
THE PRINCIPAL
Art's, Science & Commerce College
Rahata, Dist. Ahmednagar