

Notice (Circular)



Mula Education Society's
ARTS, COMMERCE AND SCIENCE COLLEGE, SONAI
Tal. Newasa, Dist- Ahmednagar – 414 105



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Affiliated to Savitribai Phule Pune University, Pune (I.D.PU/AN/ASC/031/1989)
NAAC Re-accredited with 'A' Grade DBT Star College Scheme, ISO 9001: 2015 Certified, AISHE Code – C-42096

Date: 1/01/2021

Notice

All Students are informed that Department of Biotechnology, Government of India New Delhi sponsored DBT College scheme workshop during 13/01/2021 to 26/03/2021.

The interested student should register for the workshop through link


Principal
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. A' Nagar

Program time table

Mula Education Society's
Arts, Commerce and Science College, Sonai
DBT Star College Scheme
Dept. of Chemistry

- 1) Name of Department: Chemistry
2) Duration of Report: June 2020 to March 2021
3) No. of participating students:
i) S.Y.B.Sc.- 60 (M-29 F-31)
ii) T.Y.B.Sc.- 76 (M-41 F- 35)
Total – 136 (M-70 F-66)
4) List of Lectures / workshop taken/arranged:

Sr. No.	Date	Topic of Lectures/ workshop	Faculty	Class
1	25/03/2021 & 26/03/2021	Workshop on Soil and Water Analysis	Dr. R.M. Naval, Dr. B.K. Uphade, Mr. V.R. Phatake, Mr. B.L. Shinde, Mr. S.A. Najan, Mr. M.S. Jangale Mr. Y.B. Salve	S.Y./T.Y. B.Sc.
2	26/03/2021	Online lecture on Lab Safety in Chemistry Laboratory	Dr. D.R. Thube	F.Y./S.Y./T.Y. B.Sc.
3	27/03/2021	Online Lecture on Career opportunities in chemistry	Dr. Raju Thombal	F.Y./S.Y./T.Y. B.Sc.
4	06/01/2021	Lecture on Thermodynamics in chemistry	Mr. S.A. Najan	F.Y.B.Sc.
5	12/01/2021	Lecture on Introduction to chromatographic techniques	Mr. Y.B. Salve	S.Y.B.Sc.
6.	13/01/2021	Lecture on Types of Chromatographic techniques	Mr. Y.B. Salve	T.Y.B.Sc.

- 5) a) List of Add on practicals arranged:

Sr.No	Class	Date	Batch	Name of Add on Practical	Faculty
1.	S.Y.B.Sc.	25/02/21	A	Extraction of Lemon grass oil by steam distillation	Mr. M.S. Jangale
		26/02/21	B		
		20/02/21	C		
		24/02/21	D		
2.	S.Y.B.Sc.	26/02/21	A	Determination of acid	Mr. V.M.Pawar

		25/02/21	B	strength of various fruits by Titrimetry	
		24/02/2021	C		
		20/02/21	D		
3.	S.Y.B.Sc.	27/02/21	A	Estimation of lycopene from tomato	Miss. D.B.Gawali
		01/03/21	B		
		22/02/21	C		
		23/02/21	D		
4.	S.Y.B.Sc.	01/03/21	A	Estimation of Aspirin from given Tablet by Spectrophotometry	Mr. B.L.Shinde
		27/02/21	B		
		23/02/21	C		
		22/02/21	D		
5.	T.Y.B.Sc.	25/02/21	A	Manufacturing of soap by Saponification Process from vegetable oil	Mr. Y.B. Salve Miss. S. K. Harkal
		26/02/21	B		
		22/02/21	C		
		23/02/21	D		
6.	T.Y.B.Sc.	26/02/21	A	Estimation of Organic Carbon in Soil by Colorimetric method	Mr. S.A.Najan, Mrs. M.B.Kadam
		25/02/21	B		
		23/02/21	C		
		22/02/21	D		
7.	T.Y.B.Sc.	27/02/21	A	Synthesis of silver Nanoparticles by Co-precipitation method	Mrs. M.B.Lande
		01/03/21	B		
		24/02/21	C		
		20/02/21	D		
8.	T.Y.B.Sc.	01/03/21	A	Photocatalytic degradation of Methyl orange dye using Nanoparticles	Mr. V.R.Phatake Mrs. S.A.Dushing
		27/02/21	B		
		20/02/21	C		
		24/02/21	D		

b) List of Demonstrations conducted

Sr. No.	Class	Date	Demonstrations	Faculty
1.	T.Y.B.Sc.	04/01/2021 05/01/2021	Organic Mixture separation by chemical method	Mr. V.R.Phatake
2.	T.Y.B.Sc.	04/03/2021, 05/03/2021	Demonstration of Handling and working of Double Beam Spectrophotometer	Mrs. M.B.Lande
3.	S.Y.B.Sc.	16/02/2021, 17/02/2021, 18/02/2021,	Purification techniques in organic chemistry (recrystallisation and distillation)	Mr M.S. Jangale

		03/03/2021		
4.	T.Y.B.Sc.	07/01/2021 08/01/2021 09/01/2021 11/01/2021	Demonstration of Thin Layer Chromatography Technique (Identification and purification of compounds)	Mr. Y.B.Salve
5.	S.Y.B.Sc.	02/03/2021 03/03/2021 04/03/2021	Steam distillation technique for extraction of essential oil from plant leaf (Eucalyptus oil)	Mr. V.M.Pawar
6.	T.Y.B.Sc.	06/03/2021	Demonstration of Handling and working of Flame Photometer	Mrs. M.B.Lande

6) Tour/Visit to industry/institution/research center: Nil

7) Training to the faculty/students

Training programmes attended by Teacher and students at other Institutes.

Sr. No.	Title of training programme	Mode (online/offline) and Venue	Date	Name of Faculty/student	Teacher/student
1.	FDP (Ten Days) On "Effective Ways To Develop E-content For Teaching-Learning"	Online at KTHM College Nashik	21/05/2020 to 30/05/2020	Mr. S.A. Najan	Teacher
2.	Webinar on Chemistry Laboratory safety	Online at CT Bora College Shirur	24/03/2021	Mr M. S. Jangale	Teacher
3..	"Four Days Online National Research Program on WRITING RESEARCH PAPER FOR PUBLICATION	Online at Matterhere E-certificate ID – No.: FDONRP - 151834	15/03/2021 to 18/03/2021		
4.	Pre PhD Course Work - 2021	Online at Dr. Babasaheb Ambedkar Marathwada University Aurangabad.	02/01/2021 to 15/02/2021		
5.	Refresher course on Recent advances in Chemical Sciences	Online at HRDC Doctor harisingh Gour Vishwavidyalaya, Sagar	17/08/2020 to 29/08/2020	Mr. Y.B. Salve	Teacher
6.	Webinar on Chemistry Laboratory safety	Online at CT Bora College Shirur	24/03/2021		

7.	Faculty Development Programme (FDP) on "Interdisciplinary Approaches on Chemical & Physical Sciences"	Online at University College of Engineering - BIT Campus Anna University Tiruchirapalli, Tamilnadu	28/07/2020 to 01/08/2021		
8	Five Days Training for College Teachers On "Recent Advances in Inorganic Chemistry	Online at Department of Chemistry, School of Physical Sciences, & PMMMMNTT, School of Education, Central University of Kerala (CUK), Kasaragod	05/03/2021 to 09/03/2021		
9.	Pre PhD Course Work - 2021	Online at Dr. Babasaheb Ambedar Marathwada University Aurangabad.	02/01/2021 to 15/02/2021	Mr. V.M. Pawar	Teacher
10.	Pre PhD Course Work - 2021	Online at Dr. Babasaheb Ambedar Marathwada University Aurangabad.	02/01/2021 to 15/02/2021	Mrs. M.B. Lande	Teacher

9) List of Projects undertaken by Students

Sr. No.	Name of Project	Name of Student	Class	Name of Faculty guide
1.	Determination of acetic acid from commercial vinegar samples	Auti Manisha Ramkisan More Pratiksha Sarjerao Lendal Rutuja Govind Ganage Sandhya Jalinder	T.Y.B.Sc.	Mr. V.R. Phatake
2.	Study of adulterants presents in various commercial red chilli powder samples	Zine Priti Prakash Gadakh Kshitija Anil Tumar Priyanka Bharat	T.Y.B.Sc.	Mr. V.R. Phatake
3.	Separation of amino acids using thin layer chromatography	Gaikwad Shital Babasaheb Gudadhe Shweta Mitthu Tarwade Aarti Sanjay	T.Y.B.Sc.	Mr. V.R. Phatake and Mr. D.A. Tumar
4.	Estimation of Vitamin C From	Bankar Praiksha Rangnath Bankar Jayshree Babasaheb	T.Y.B.Sc.	Mr. B.L. Shinde

11) Outcome of the Activities:-

All the participating S.Y.B.Sc. and T.Y.B.Sc students have benefited by this Add on practical, demonstration, project work and workshop. The students got the skill to handle instruments such as conductivity meter, pH meter, colorimeter, Flame Photometer, UV spectrophotometer, muffle furnace, ultrasonic bath etc . Synthesis of Nanoparticles and their applications such as degradation of dyes, manufacturing of soaps and their types, purification of organic compounds, distillation methods, soil sample collections, organic reactions with mole calculations. Soil and water sample collection, types of soil, its importance and analysis method.

11) List of Equipments purchase under Scheme: Nil

12) Workshop Conducted

Workshop on Soil and Water Analysis

Under DBT Star College Scheme the Department of Chemistry has organized Two days Workshop on Soil and Water Analysis for S.Y./T.Y.B.Sc. students during 25/03/2021 to 26/03/2021, coordinated by Prof. M.S. Jangale. Total students participated were 40.

Day-1, Online lecture was conducted by Dr. R.M. Naval (Head, Department of Chemistry, Jijamata Science and Arts College Bhende.) He gave online lecture on soil testing and its importance using Google Meet platform. During lecture they explained types of Soil their testing method and its importance through presentation.

Day- 1 Session – I - was conducted by Prof. B.L. Shinde in this session they given demonstration on soil testing methods using soil and water analysis kit in the laboratory.

Day- Session – II – In this session hands on training given to the students. During this session Prof. S.A. Najan given hands on training on pH determination of soil sample. The Prof. M.S. Jangale given hands on training on EC and TDS determination of soil sample and Prof. Y.B. Salve given hands on training on Organic matter determination of soil sample.

Day-2 Online lecture was conducted by Dr. B.K. Uphade (Associate Professor, Department of Chemistry, PVP College Loni.) He gave online lecture on water testing and its importance using Google Meet platform. During lecture they explained types of water their testing method and its importance through presentation.

Day- 2 Session – I - was conducted by Prof. V.R. Phatake in this session they given demonstration on Water testing methods such as pH, TDS, EC determination.

Day- 2 Session –II – In this session hands on training given to the students. During this session Prof. S.A. Najan given hands on training on pH determination of water sample. The Prof. M.S. Jangale given hands on training on EC and TDS determination of water sample and Prof. Y.B. Salve given hands on training on turbidity determination of soil sample.

12) Invited Lectures

Under DBT Star College Scheme the Department of Chemistry has organized special lectures for undergraduate students on 26/03/2021 and 27/03/2021, coordinated by Prof. M.S. Jangale. Total students participated were 54.

On 26th March 2021 Online lecture was delivered by Dr. D.R. Thube (Head, Department of Chemistry, New Arts, Commerce and Science College Parner, Ahmednagar.) He gave online lecture on Lab Safety in Chemistry Laboratories using Google Meet platform. During his lecture they explained what safety measures should taken during working in chemistry laboratory, safety symbols and their meaning, though presentation.

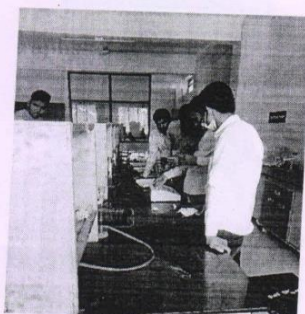
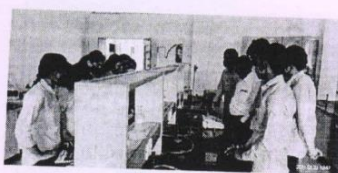
Document No. 03 (as per SOP): Geo tagged Photographs with date and caption for each scheme or event.

Program no. 01: Photograph showing workshop under DBT Scheme.

On 27th March 2021 Online lecture was delivered by Dr. R.S. Thombal (Research Associate, School of Chemical Engineering, Yeungnam University, Gyeongsan 38541, Republic of Korea) He gave online lecture on Career Opportunities in Chemistry using Google Meet platform. During his lecture they explained there is various opportunities after UG and PG in Chemistry student can join research institute in India and Foreign, to get Ph.D. in Chemistry, students can also join in chemical and pharmaceutical industry, petroleum industry etc.

Photographs

A) Add on Practical Photographs-



Workshop and special lecture Photos

