



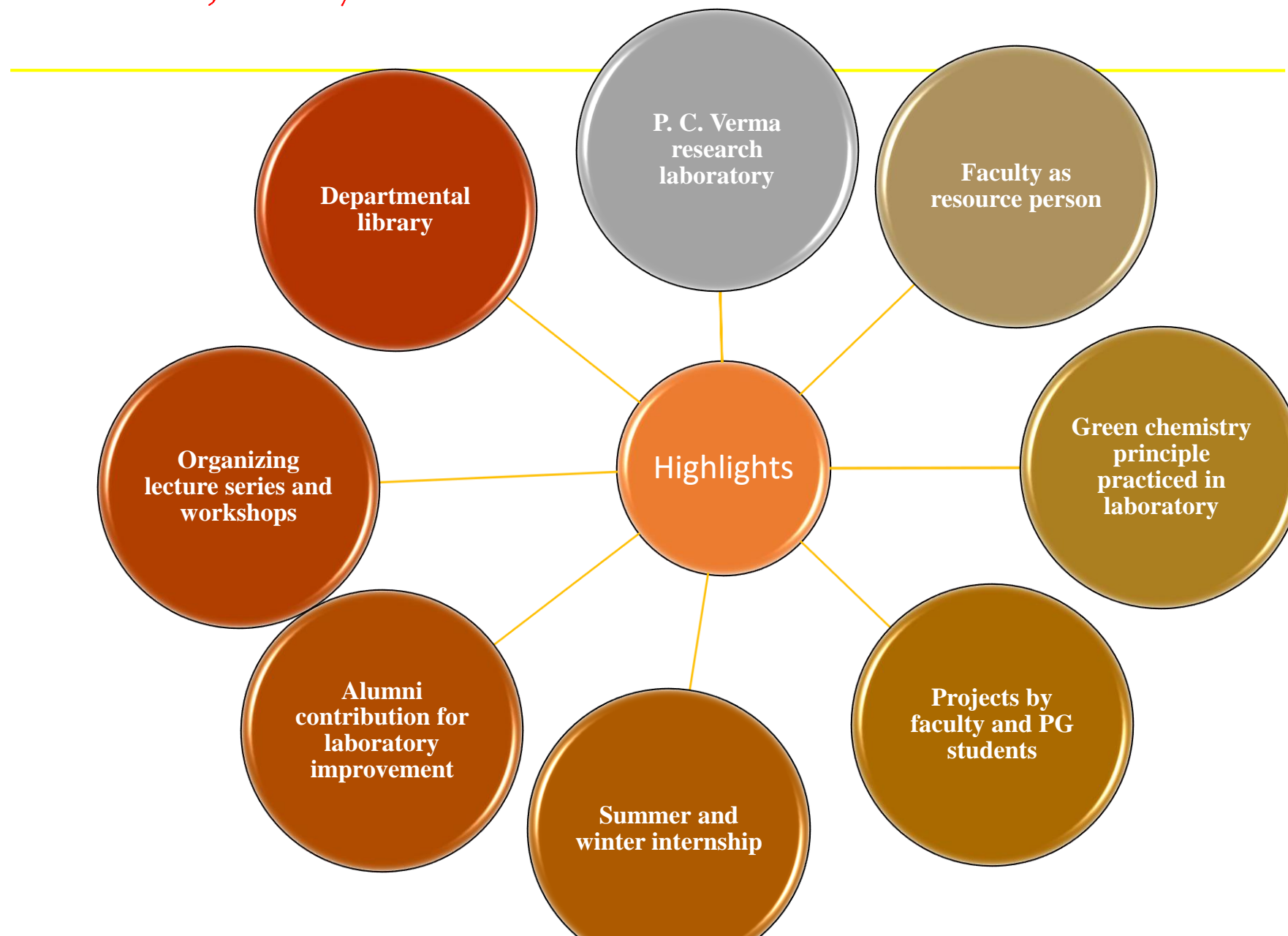
Maharshi Dayanand College of Arts, Science and Commerce

Department of Chemistry

Year of establishment 1962

**Activities for the year
2020-21**

Highlights of the department



Courses Offered & Student Information

Class	Student strength
	2020-21
F. Y. B. Sc.	63
S. Y. B. Sc.	59
T. Y. B. Sc.	41
M. Sc. - I (by paper)	09
M. Sc. - II (by paper)	09

*Courses
Offered*

- B. Sc. Chemistry
- M. Sc. (by paper) Organic & Inorganic
- M. Sc. (Research)
- Ph. D.

Departmental Activities : 2020-21

Activity	Details	Students benefited
Virtual visits		
20 May 21	Academic :PG students (visit to Haffkiene Institute) (Dr. A. R. Anthony)	18
29-05-21	Industrial: Cleanchem Laboratories LLP, Rabale, Navi Mumbai (Dr. Rupesh H. Gaikwad)	
Subject Motivation		
June 20	Wordoku 2020 : To commemorate International Year of Plant Health 2020	50
26 Nov 20	National Level-Popular science Lecture on Nanomaterials for Harnessing Solar Energy – Professor Deepa Khushalani, TIFR organized in collaboration with Indian Women Scientist’s Association, Mumbai	198
17 Feb 21	GUIDANCE LECTURE ON, “THE NATIONAL ELIGIBILITY TEST (NET) AND THE STATE ELIGIBILITY TEST (SET) EXAM PREPARATIONS”. (Under Alumni Support by Mr. Harsha Arya and Ms. Anuprita Matkar)	48
18 Feb 21	Laboratory Safety and Transportation of Casualty- by Dr. Rupesh H. Gaikwad	54
Feb 21	Degree certificate distribution TYBSc & MSc degree at Departmental Level	

TY BSc CHEMISTRY PTA October 31,2020

Zoom Meeting Recording... LIVE on YouTube

Iyappan Pillai

Chat

From Sai Ghatye to Everyone: 10:06 AM
Name :- Sai Pradeep Ghatye

From Amulya Ryakala -- 1... to Everyone: 10:07 AM
Amulya Ryakala

From Vikas Gupta to Everyone: 10:07 AM
Name:- VIKAS M. GUPTA

From Kartiki Borkar to Everyone: 10:07 AM
Kartiki Bhagwan Borkar 1006

From Amulya Ryakala -- 1... to Everyone: 10:07 AM
amulya ryakala

From Aarti Gupta to Everyone: 10:07 AM
Aarti M. Gupta
Roll no. :-1012

From Gourav Jain to Everyone: 10:07 AM
name :- gourav kamlesh jain
Rollno 1015

From NAMRATA BHOIR to Everyone: 10:07 AM
Namrata Waman Bhoir.1003

From Soni yadav to Everyone: 10:07 AM
Soni yadav 1037

To: Everyone File

Type message here...

Zoom Meeting Recording... LIVE on YouTube

Iyappan Pillai

Chat

From Sai Ghatye to Everyone: 10:06 AM
Name :- Sai Pradeep Ghatye

From Amulya Ryakala -- 1029 to Everyone: 10:07 AM
Amulya Ryakala

From Vikas Gupta to Everyone: 10:07 AM
Name:- VIKAS M. GUPTA

From Kartiki Borkar to Everyone: 10:07 AM
Kartiki Bhagwan Borkar 1006

From Amulya Ryakala -- 1029 to Everyone: 10:07 AM
amulya ryakala

From Aarti Gupta to Everyone: 10:07 AM
Aarti M. Gupta
Roll no. :-1012

From Gourav Jain to Everyone: 10:07 AM
name :- gourav kamlesh jain
Rollno 1015

From NAMRATA BHOIR to Everyone: 10:07 AM
Namrata Waman Bhoir.1003

From Soni yadav to Everyone: 10:07 AM
Soni yadav 1037

To: Everyone File

1 new message

Zoom Meeting Recording... LIVE on YouTube

Iyappan Pillai

Chat

From Sai Ghatye to Everyone: 10:06 AM
Name :- Sai Pradeep Ghatye

From Amulya Ryakala -- 1029 to Everyone: 10:07 AM
Amulya Ryakala

From Vikas Gupta to Everyone: 10:07 AM
Name:- VIKAS M. GUPTA

From Kartiki Borkar to Everyone: 10:07 AM
Kartiki Bhagwan Borkar 1006

From Amulya Ryakala -- 1029 to Everyone: 10:07 AM
amulya ryakala

From Aarti Gupta to Everyone: 10:07 AM
Aarti M. Gupta
Roll no. :-1012

From Gourav Jain to Everyone: 10:07 AM
name :- gourav kamlesh jain
Rollno 1015

From NAMRATA BHOIR to Everyone: 10:07 AM
Namrata Waman Bhoir.1003

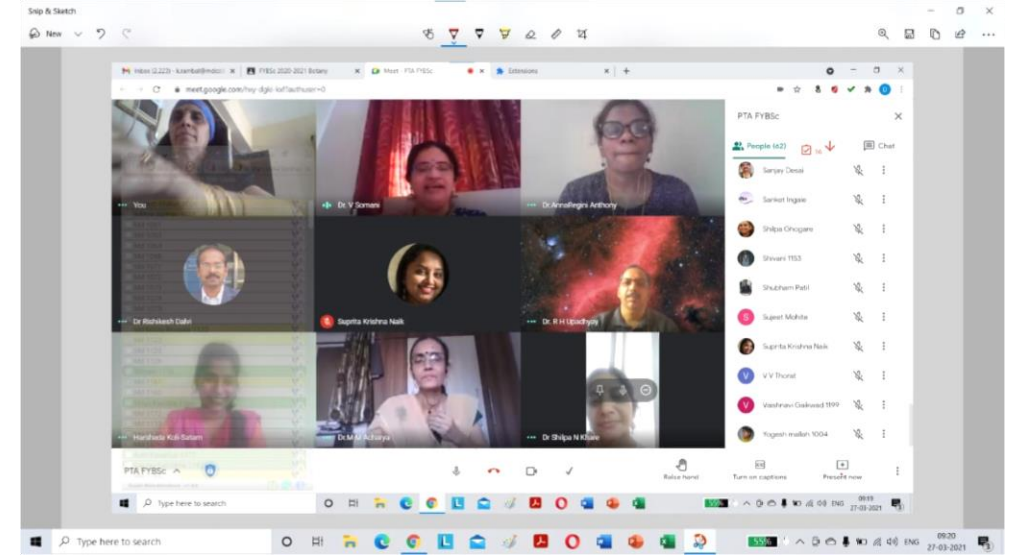
From Soni yadav to Everyone: 10:07 AM
Soni yadav 1037

To: Everyone File

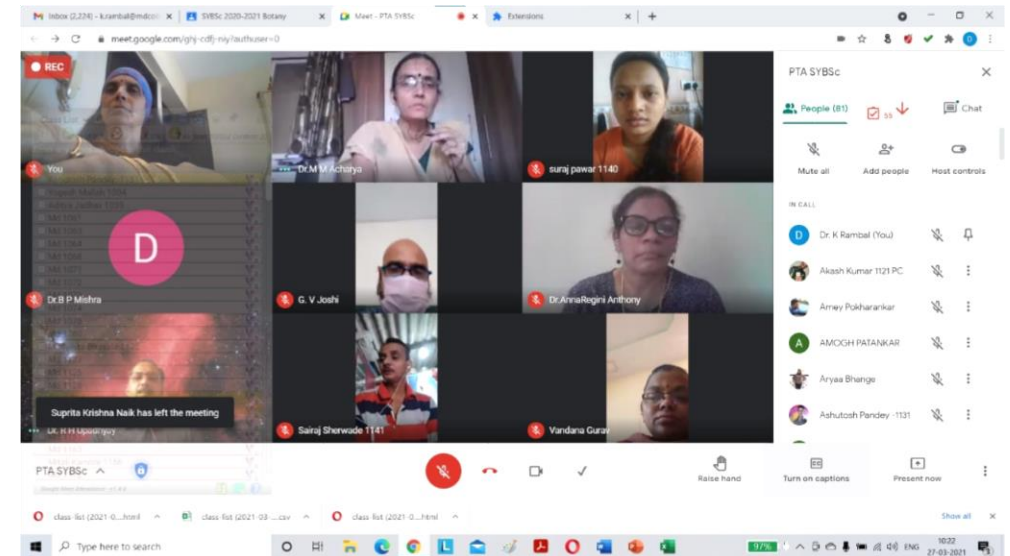
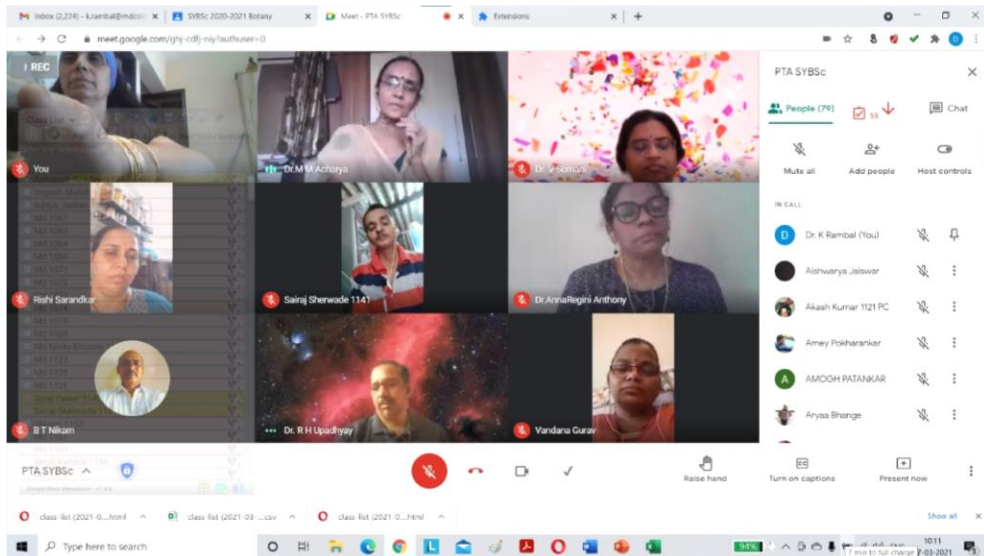
1 new message

Couldn't copy link
You're out of Dropbox space!
Dropbox

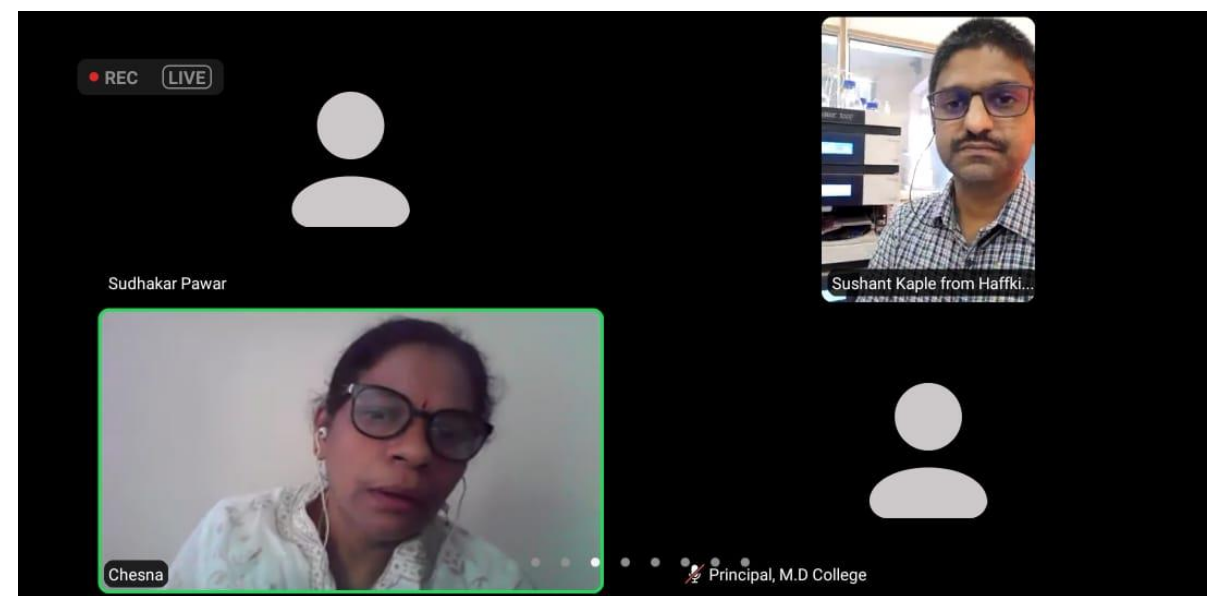
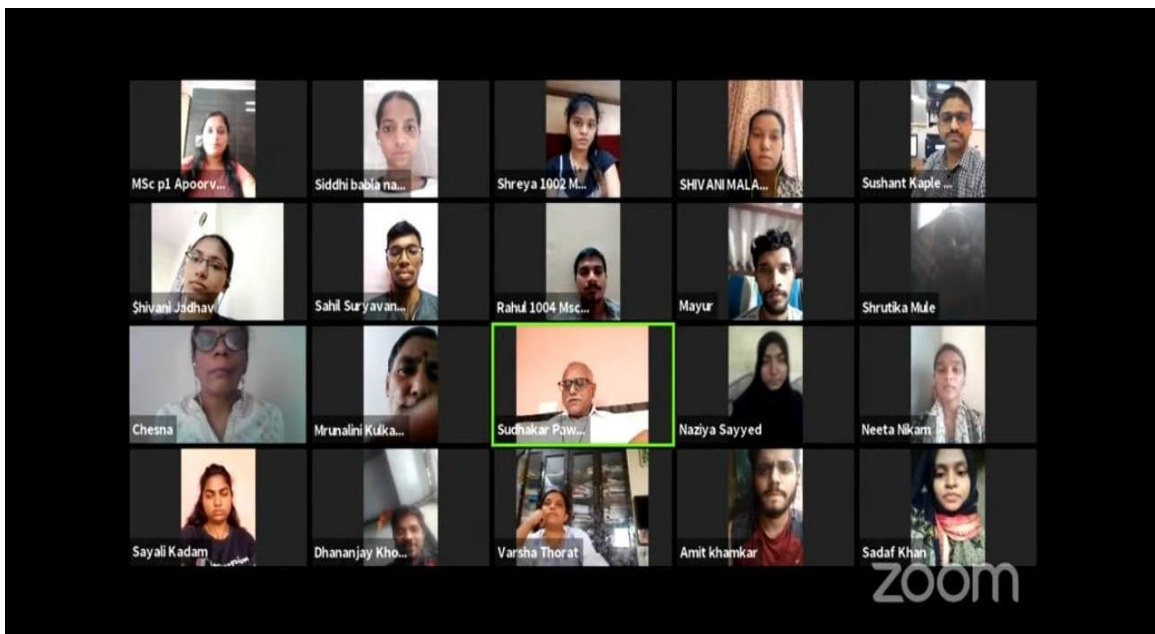
FY BSc PTA- March 27, 2021



SY BSc PTA- March 27, 2021

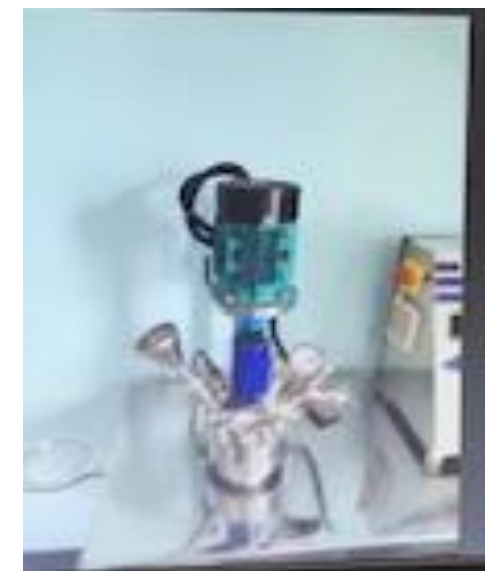
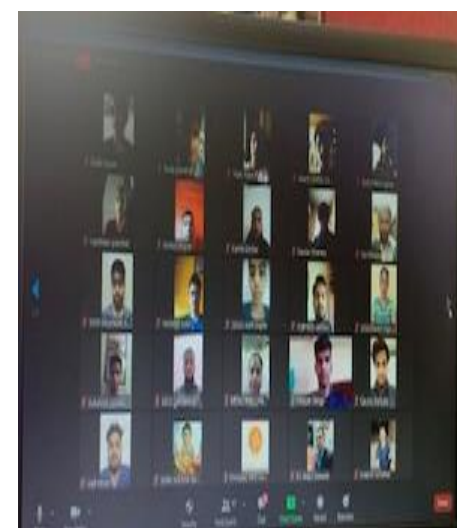
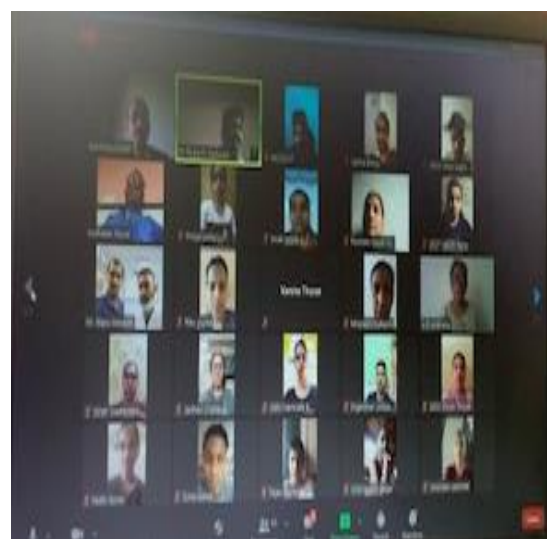


Virtual Academic Visit for PG Students to Haffkin Institute





**Virtual Industrial Visit at Cleantech Laboratories LLP, Rabale, New Mumbai for UG students (29-05-21)
The number of beneficiaries-54.The resource person –Dr.Bapu Gawade & Dr Anil**





Maharshi Dayanand College of Arts, Science & Commerce, Parel, Mumbai.
Department of Chemistry

Organizes
Wordoku 2020

To commemorate International Year of Plant Health 2020

About the Department:

The Department of Chemistry is established in 1962 in the college and is affiliated to the University of Mumbai. The Department offers UG, PG and Ph.D. courses in chemistry as per the guidelines of University of Mumbai.

Objective:

To Commemorate the International Year of Plant Health 2020 IYPH 2020 announced by United Nation General Assembly, Department of Chemistry provides a platform to undergraduate and post graduate students, to foster their talent through event which testifies their fundamentals of subject and give a scope for innovative ideas.

Outcome: The event will help participants to learn a different approach to study the concept and also help them to keep abreast in their chosen field.

About the event : **The WORDOKU 2020** will be played in 4 stages which will be covering the various aspects related to the theme IYPH 2020 it may include a name of scientist, name of element, the process involved, chemicals used in the process etc.

Register through Google form link : <https://forms.gle/eT7VctVE6TpYmfSz7>

Participants are advised to download Google Classroom

For android : <https://play.google.com/store/apps/details?id=com.google.android.apps.classroom>

For IOS : <https://apps.apple.com/in/app/google-classroom/id924620788>

The first stage Wordoku link will be posted on Google class room to solve on May 30, 2020,

Second : June 04, 2020, Third: June 08, 2020 and Fourth : June 13, 2020.

The time limit to solve the wordoku will be 24 hrs from the time it is uploaded.

For better understanding a solved example is enclosed with the flyer.

Who can participate : A bonafide student of Maharshi Dayanand College, Parel, Mumbai

The first four fastest Wordoku 2020 solver will get e-Merit Certificate and all register participants will get e-participation certificate.

For further details you can contact: mdchem2021@gmail.com

Dr. Rupesh H. Gaikwad

Dr. A. R. Anthony

Dr. C. S. Panse

Coordinator (9867636151)

Head, Department of Chemistry
(9869873063)

Principal

Dr. M. D. Kulkarni (9820653608)

Asso. Prof. S. R. Pawar (9987066603)

Dr. Varsha Thorat (9869112421)

Asst. Prof. B.T.Nikam (9869642793)

Dr. A. B. Patil (8652586234)

Wordoku 2020 SOLUTION

Note : Solve this wordoku in the same way as a sudoku with letters instead of numbers (each of the nine letter in each row, column and nine square cell). Once solved one of the overall diagonals can be rearranged into the name of a chemical element.

A	E	I	L	M	N	S	T	U
---	---	---	---	---	---	---	---	---

U	S	N	I	M	T	E	A	L
E	A	L	U	S	N	T	M	I
I	M	T	E	A	L	U	S	N
S	N	E	M	T	I	L	U	A
L	T	I	S	U	A	M	N	E
M	U	A	N	L	E	S	I	T
T	L	M	A	I	U	N	E	S
N	I	S	L	E	M	A	T	U
A	E	U	T	N	S	I	L	M

Answers of
wordoku 2020

30 MAY 2020
1. ZIMMERMAN

04 June 2020
2. CELLULOSE

08 June 2020
3. ALLANTOIN

13 June 2020
4. CARVACROL

The name of the chemical element was **ALUMINIUM**

4 wordoku with increasing level of difficulty
SYBSC and TYBSC students participated
Winner of the wordoku 2020

1. Saima Bangi - SYBSC
2. Arati Gupta- SYBSC
3. Tejas Rane - SYBSC
4. Shruti Thorat- TYBSC
5. Vikas Gupta – SYBSC

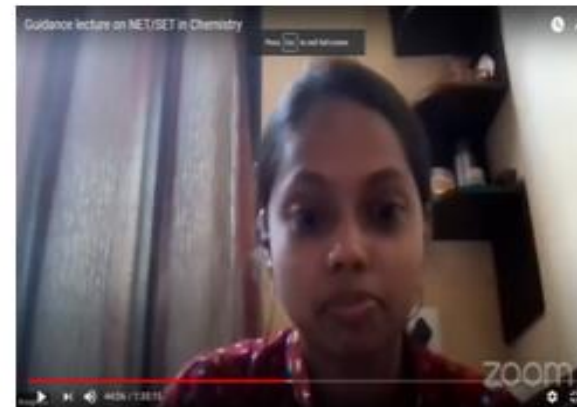
Student beneficiaries: 50

ALUMNI CONTRIBUTION

GUIDANCE LECTURE ON, “THE NATIONAL ELIGIBILITY TEST (NET) AND THE STATE ELIGIBILITY TEST (SET) EXAM PREPARATIONS”.



Mr. ARYA HARSHA JIVANCHANDRA (M.Sc., NET)
(RANK 066 UNDER CSIR FELLOWSHIP SCHEME)



Ms. Anuprita Arun Matkar (M.Sc., NET,
SET, GATE)

WEDNESDAY, 17TH FEB' 2021

You tube link: https://youtu.be/_prxoOAv8xI

Number of students benefited from TYBSC and M.Sc. : 48



Popular Science Lecture
Organized by
Indian Women Scientists' Association
Vashi, Navi Mumbai
Supported by **BRNS-DAE**
In association with
Department of Chemistry
**Maharshi Dayanand College of Arts, Science
and Commerce, Parel, Mumbai-400 012**



**Lecture on
Nanomaterials for Harnessing Solar Energy**

by
Dr. Deepa Khushalani

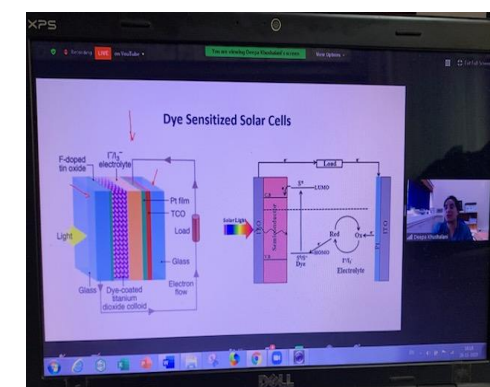
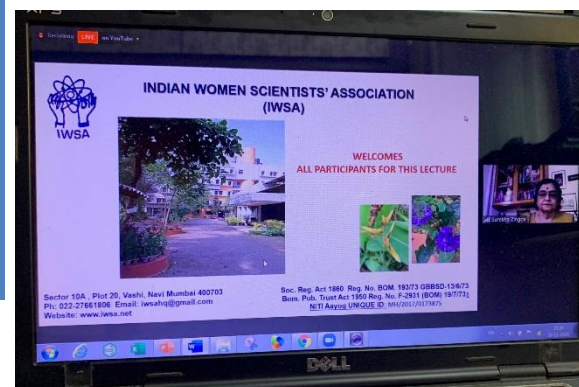
Professor in Materials Chemistry, Dept. of Chemical Sciences,
Tata Institute of Fundamental Research (TIFR), Mumbai 400 005.



Thursday, 26th November, 2020 at 3.00 pm

ALL ARE CORDIALLY INVITED TO ATTEND

<https://www.youtube.com/watch?v=JGKqvMgn1hM>



198 registered and attended in the lecture via zoom and you tube platform. 25 colleges/ institutes/ University faculty members and students were the participants of the program to name a few VPKBIET , Baramati, R L College Parola, Institute of Science Mumbai, University of Mumbai, Banasthali Vidyapith (Rajasthan), N B Mehta Science College, bordi, Manipal University Jaipur, SSR College OF ACS Silvassa, Parul, Institute of Pharmacy and Research Parul university, PAHER University, Udaipur, Rajasthan

Maharshi Dayanand College of Arts, Science and Commerce, Parel, Mumbai 12

Department of Chemistry

Program Schedule

Day: Thursday

Date : 18th Feb 2021

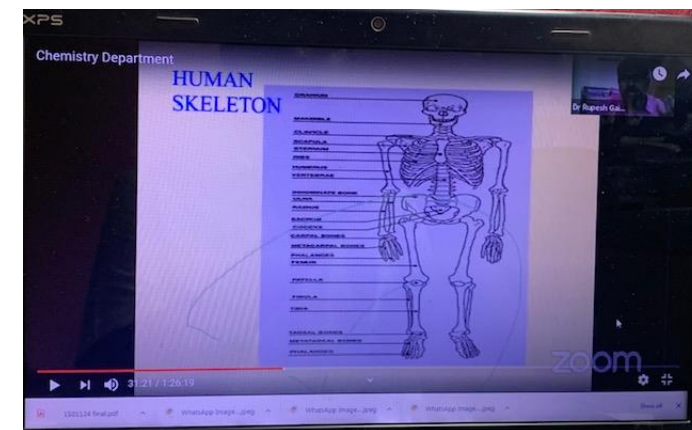
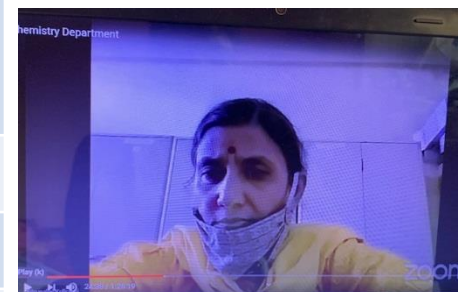
Title of talk: Laboratory Safety and Transportation of Casualty

Speaker: Dr. Rupesh H. Gaikwad, Department of Chemistry, M. D. College, Parel

You tube link: https://youtu.be/Ie_tF5kEmlU

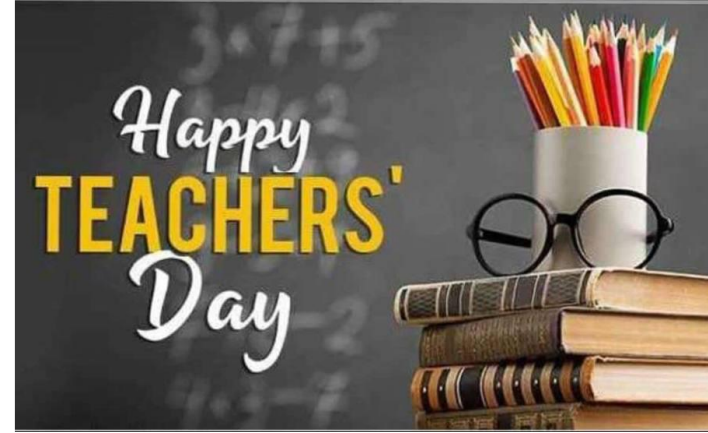
NO	Time	Event	person
1.	9:55 to 10:00 am	Welcome to all participant, Principal and Speaker	Asso. Prof, S. R. Pawar
2.	10:00 to 10:03 am	Opening remarks by Principal	Dr. C. S. Panse
3.	10:03 to 10:05 am	Glimpse of program	Dr. M. D. Kulkarni
4.	10:05 to 10:06 am	Introduction of speaker and request to deliver a talk	Asso. Prof, S. R. Pawar
5.	10:06 to 11:06 am	Talk on Laboratory safety and Transportation of casualty	Dr. Rupesh H. Gaikwad
6.	11:06 to 11:15 am	Q & A session	Dr. Rupesh H. Gaikwad
7.	11:15 to 11:17 am	Vote of thanks	Asso. Prof, S. R. Pawar

Program caters for chemical lab safety for FYBSc, SYBSc and TYBSc students
students benefited 54

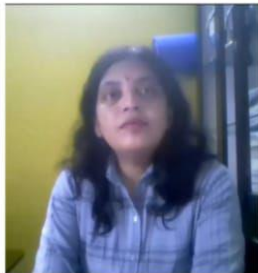




Each Students should value and regard their teachers. Their challenging work and sacrifices for our mental development are unimaginable. A teacher, some of the time, Plays a more critical job than our parents. They shape up our future and build up our mind to differentiate between good and bad.



I am very much thankful to you all for being my teacher.



HAPPY TEACHER'S DAY

Thank you ANO ma'am 🙏 for continually inspiring me to do my best. You help me strive for goals, I found guidance, discipline and love, everything, in one person. And that person is you ANO ma'am.

You are the first mentor I've known, and my helping hand. Thank you for guiding me towards the right path.

I am really grateful for having u as my ANO. Being lucky I wish u Happy teacher's Day.

❤️🙏🥰🙏❤️



HAPPY TEACHER'S DAY ALL OF YOU.

○ Teaching is one profession that creat all other profesion. Thank you for helping me become the person I am today. A teacher present the past. Reveals the present, and creat the life future. Teacher, you always challenged me to work hard and get good grade. I will always remember you. Happy teacher day ❤️

○ Dear ❤️ teacher thank you for continually inspires me to do my life. You help me strives for goals, I found guidance, friendship discipline and love, everything in one person. And that person is you ❤️🙏🙏 happy teacher's day ❤️🙏🙏🙏

TYBSc Student Degree Distribution



Avishkar Participation

Name of the student	Class	Topic	Level
Ms. Kudtarkar Shreya Satish	MSc-I	Nanoparticles: Dendrimer Encapsulated Metal Nanoparticle Thin Films on solid Surfaces	PG-Selection Round
Ms. Kadam Sayali Vasant	MSc-I	Nanotechnology Based on Green energy Solution	PG-Selection Round
Ms. Nikam Neeta Dinkar	MSc-I	Synthesis of Silver Nanoparticles using Azadirachta indica (Neem) leaf extraction	PG-Selection Round
Ms. Nevrekar Apoorva Mangesh	MSc-I	Green synthesis of Gold Nanoparticle using Cinnamon bark extract as reducing agent	PG-Selection Round

Awards and Achievements



Best student of the year 20-21
Ms. Kartiki Bhagwan Borkar (TY BSc)



Mr. Harsha Arya (Ex MSc student)
Qualified NET Examination
Admitted for Ph.D. program in Chemistry at IIT Bombay(20-21)

Ms. Anuprita Arun Matkar (Ex MSc student)
Qualified NET,SET, GATE examinations (20-21)

Project for PG Students

guided by Dr. A.R. Anthony

- Comparative study of the amount of acetic acid present in various commercial samples of vinegar - Kiran Maurya .
- Comparative study of the Caffeine present in commercial and noncommercial tea samples - Ms. Sadaf Khan
- A Review on Vitamin C-(ascorbic acid) contents present in various fruit juice samples by Instrumental and non Instrumental method - Mr.Sushant Nagtilak

Project for PG Students

guided by Dr. M.D. Kulkarni

- ✓ STUDY OF CASEIN IN VARIOUS MILK SAMPLES
- ✓ GREENER FUEL-BIODIESEL
- ✓ BETTI REACTION -REVIEW
- ✓ GREEN SYNTHESIS OF BENZIMIDAZOLES
- ✓ SYNTHETIC REVIEW OF CHALCONES
- ✓ CARBON NANOTUBES