

Department of Chemistry
Departmental Activities
June to September' 2020

Report
On
75% Isopropyl alcohol based Hand Sanitizer
Preparation
by
Department of Chemistry, 4th June,2020

The **Department of Chemistry**, St Pious X Degree & PG College for Women had prepared 75% Isopropyl alcohol based Hand Sanitizer by adopting the procedure recommended by World Health Organization in the absence of the availability of commercial Hand Sanitizers as part of Covid-19 Mitigating step on 4th June,2020.

The Hand sanitizer so prepared was distributed to the neighborhood community, non-Teaching staff of the college and was also used in the college premises as a precautionary measure during COVID-19 Pandemic.



Report on-Online Quiz

Chemquiz-An Awareness on mitigation strategies for COVID -19 a Pandemic of Corona virus'

The **Department of chemistry**, St Pious X Degree & PG College for Women had organized an Online Quiz-'*Chemquiz-An Awareness on mitigation strategies for COVID -19 a Pandemic of Coronavirus'* to create an awareness about the mitigation methods, Prevention and the therapeutic development related to the corona virus.

The Quiz was open for the participants from 10th June 2020 to 19th June 2020 and was comprised of a total of 20 questions which carried 5 marks each. Altogether 298 participants attempted the quiz including Faculty, Research Scholars, Students and Others. Participation certificates were provided to all those participants who scored fifty percent.

International Webinar

On

Covid-19 a pandemic on Corona virus: Progress in therapeutic and Vaccine

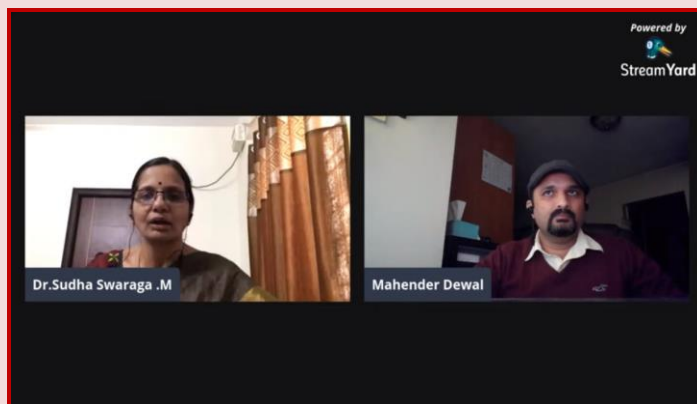
Date 22nd June, 2020

The Department of chemistry had organised an **International webinar on 'COVID -19 A pandemic of corona Virus: Progress in Therapeutic and vaccine Development'** on **22nd June,2020**. Since COVID-19 Pandemic imposing great impact on daily life of people Scientists are racing against time for accelerating the development of new treatments and Vaccines across the globe. In this context to create awareness among people on Evolution and Mechanism of Infection, mitigating strategies, advancement in various treatment methods and vaccine development International webinar was organised.

Invited Speaker for the webinar was Dr. **Mahender Dewal, Principal Scientist, Founding Member and Head of Research and Development Expansion Technologies Inc, (EXTBIO), Cambridge, Massachusetts ,USA, MIT Affiliated**. Dr. Mahender enlightened about underlying chemistry of corona virus, its Evolution and Mechanism of Infection,

Advancement in various treatment options, platforms evaluated for COVID -19 vaccine development and progress in vaccine development across the Globe.

Webinar was telecasted on **Youtube live** <https://youtu.be/aWhys8iuC9U>. Participants enhanced their Knowledge about the Vaccine development and several treatment options available related to COVID-19. Many of our students developed interest in perusing Research as career in basic sciences. Overall 674 Participated including Faculty, Research scholars, students and others. The objective of Webinar was achieved.



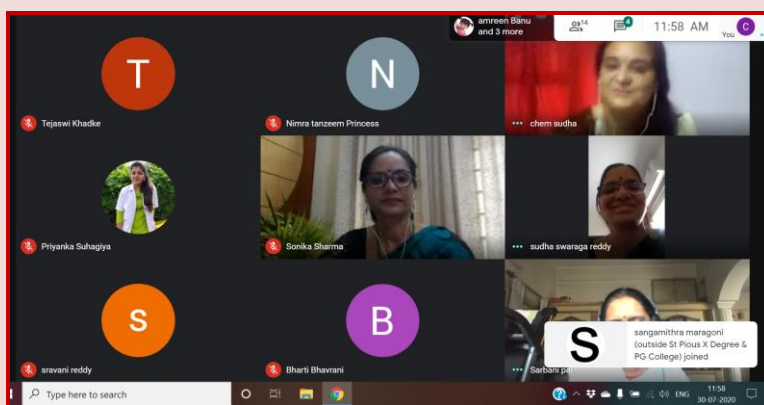
An Intercollegiate Elocution Competition

"VAKTAVYA"

COVID-19 Lockdown - a Paradigm shift of Education from Offline to Online

Elocution is a skill of expressive speech with distinct pronunciation and articulation. It is an art of conveying message and plays a vital role in personality development .It allows you to gather knowledge and strategy to bring the changes in the mind of the people. Taking this point into consideration the **Department of chemistry** had organised an **Elocution competition titled "VAKTAVYA" COVID-19 Lockdown - A Paradigm shift of Education from Offline to Online on 30th July, 2020 at 11:00am, IST**. The Platform for the competition was Google meet. The topic chosen for the elocution was very much needed from teacher's as well as student's point of view as there are many pros and cons of online teaching which is very much different from traditional offline line teaching methodology. During competition students presented their views and ideas about shifting of education from offline to online .Altogether 75 students from

different colleges participated in the competition. The best two performers were announced as first and second prize winners. The judges for the competition were Dr. Sarbani Pal, Head Department of chemistry, MNR Degree & PG College, PG Campus and Dr. Sonika Sharma, Associate Professor, Loyala Academy. The Objective of the competition was achieved.



Report
National Webinar
On
Being Vigilant – An Approach to fight against Covid-19
Date- 16th July 2020, 4:00 PM

The Department of chemistry had organised **National Webinar On ‘Being Vigilant – An Approach to fight against Covid-19’ on 16th July 2020, 4:00 PM**. During this COVID -19 pandemic, when each one of us are struggling to keep ourselves safe the best approach found to be is being more vigilant. Keeping this point into consideration the webinar was organised to create awareness among the people about the Evolution and Mechanism of Infection, mitigating strategies and prevention measures to be taken during the pandemic.

Invited Speaker of the webinar was **Dr. AsmaZehra**, faculty member of **Government Medical College**, Telangana State and Managing Director of Salamah Hospital, Hyderabad. The renowned speaker enlightened the participants on the mechanism of action of virus and its ill effects on the respiratory –system. She also talked about the immune system of the body and its

role to fight against the virus. The Speaker also focused on number of precautions to be taken by carrier as well as non carrier individuals during this ongoing pandemic .She also gave clarity about the presence of Corona Virus in the air. Webinar was telecasted on **youtube live** <https://youtu.be/2jZVpjAKpYw>. Overall **150 participated** including Faculty, Research scholars, students and others and objective of Webinar was achieved.

Research project taken up by St. Pious Undergraduate Environment Research group

A theoretical research project titled, “Comparison of air quality before and after COVID – 19 Impacted lockdown” has been taken up by SPUGER group under the supervision of Dr. Mala Das Sharma. In this project the air quality w.r.to particulate matter is being analysed from TSPCB data of three monitoring stations of Hyderabad. The analysis result and interpretation has been published as a book chapter in an on line book titled, Impact of lockdown on education, economy & environment in India released by St. Pious College. The project work is still ongoing with the data analysis and interpretation of six monitoring stations of Hyderabad.