TEACHER'S ACTIVITY REPORT 2018 - 2019.

FACULTY: Science **DEPARTMENT: CHEMISTRY** **IQAC ACTIVITY No: SVC/2018-19/CHEM/SP/1**

NAME OF THE ACTIVITY: A National Workshop on "Greening an Undergraduate Chemistry Lab" (GUCL-2018)

DATE	**FACULTY**	**DEPARTMENT/COMMITTEE**	**COORDINATOR NAME**
8th and 9th August, 2018	Science	Chemistry	Dr. Sharda Pasricha
TIME	**VENUE**	**NUMBER OF PARTICIPANTS**	**NATURE: Outdoor/Indoor**
9 a.m. to 5 p.m. (both days)	Chemistry Department, Seminar room	103	Indoor
SUPPORT/ASSISTANCE:	**DBT, DRDO**		

BRIEF INFORMATION ABOUT THE ACTIVITY (**CRITERION NO. - III**):

TOPIC/SUBJECT OF THE ACTIVITY	"Greening an Undergraduate Chemistry Lab" (GUCL-2018)
OBJECTIVES	The main aim of this workshop is to propose redesigning of teaching practices at undergraduate level and to practise green chemistry by designing greener laboratory experiments, generating non-toxic and biodegradable substances and adopting safer waste disposal methodologies. Adopting these innovations will give rise to more sustainable chemistry and process alternatives that will continue to meet the demands to modern day education while also improving environment, enhancing sustainability and uplifting the economy, thereby improving the conditions for better living.
METHODOLOGY	• Interesting lectures, Oral Session and Technical Session, plenary lecture was given by Prof. Ram Mohan from Illionis Wesleyan University, Bloomington, USA on the topic "Better Living with Green Chemistry"; • Prof. J.M. Khurana, Department of Chemistry, DU, Topic: Renewable Chemical Sources and Application of Green Chemistry in daily life; • Dr. (Prof.) A.K. Chakraborti, Prof. and Head, Department of Medical Chemistry, NIPER, Mohali, Topic: Green Chemistry Tools in Sustainable Chemical Development; • Prof. Goutam Brahamchari, Viswa Bharati University, Santi Niketan, Topic: Energy Efficient Pathways in Organic Synthesis; • Dr. V.C. Ranu, INSA, Sr. Scientist, J.C. Bose Fellow, Department of Chemistry, Indian Association for Cultivation of Science, Topic: Role of Green Tools like ball milling, visible light in organic Synthesis; • Prof. S.K. Mehta, Professor of Chemistry and CAS Coordinator, Honorary Director, SAIF, CRIKC Coordinator, Panjab University, Topic: Nanocatalysis and its Application in Organic Synthesis;

	• Lab session under the surveillance of Dr. Sonia Ratnani, Ramjas College, DU and Prof. Ram Mohan. • Poster presentation competition which experienced fanatical participation of various students from various colleges.
OUTCOMES	1. Recognition of the role of Green Chemistry in ensuring safer and pollution free labs in colleges and its critical role in sustainable development. The safety and long-term health implications of our laboratory activities for both staff and students need to be given serious attention. 2. Every experiment included in the course must be viewed in the context of the principles of 'Green Chemistry'. For example, some qualitative analysis tests such as some of the dry tests and preparation of acid extracts as also extraction of metal from ores and several organic preparations currently in our syllabi generate substantial amounts of toxic gases. These must be reconsidered and replaced if possible. 3. To introduce students to sustainable and safe practices during the early stages of their laboratory training, reduce the pollution in the lab, reduce the volume of the chemicals going down the drain and bring down the experimentation cost and time. 4. We have so far had a very casual attitude to waste, paying little or no attention to its reduction or disposal and it is high time this attitude changed. While there have been some efforts to reduce the scale of experiments by introducing semi-micro and micro techniques of qualitative analysis, there is still scope for reducing scale in our quantitative work by reducing both concentrations, volumes, amounts of reagents used and also by encouraging use of Green catalysts. 5. Updating our syllabi keeping in mind the tenets of 'Green Chemistry'. 6. Finding societal innovations in policy, law, environmental health and business.

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice-Brochure ☑ & Letters	Student list of participation	**Activity report** ☑	**Photos** ☑	Feedback form
Feedback analysis	News clip with details	Certificate	**Program schedule** ☑	**Abstract Book** ☑

IQAC Document No:	Criterion No: III	Metric No:
Departmental file no	IQAC file No;	

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr. Sharda Pasricha		Dr. N. Latha

For Reference

Criterion I	Curricular Aspects (planning & Implementation)		Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation		Criterion VI	Governance
Criterion III	Research, Innovations & Extension		Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure			

Proofs:

Patron	Dr. P. Hemalatha Reddy Principal, Sri Venkateswara College, DU
Convenors	Dr. Sharda Pasricha and Dr. R. P. Singh
Coordinators	Dr. Pragya Gahlot, Dr. Rekha Yadav, Dr. Pooja (Finance)
Organizing Committee	Mr. H. C. Tandon, Dr. Deepti Sharma, Dr. Mercy Jacob, Dr. Shikha Gulati, Dr. Vibha Saxena, Ms. Saya Devi, Dr. Sanjay Kumar, Mr. Jagram Meena, Dr. Shefali Shukla, Dr. Rangarajan T. M., Mr. Harshwardhan Meena, Dr. Devendra Kr. Verma, Mr. Amit Kumar Gautam, Dr. Akanksha Gupta, Dr. Vinita Kapoor
Advisory Board	Shri S. K. Varshney - DST Prof. Ramesh Chandra – Head, Chemistry Dept., DU Prof. Rita Kakkar - Chemistry Dept., DU Prof. J. M. Khurana - Chemistry Dept., DU Prof. Ashok Prasad - Chemistry Dept., DU Prof. R. K. Sharma - Chemistry Dept., DU Prof. Sunil Sharma - Chemistry Dept., DU Prof. Akhilesh Kr. Verma - Chemistry Dept., DU Dr. Raj Pal Singh - CFEES, DRDO Dr. Himanshu Ojha - INMAS, DRDO

Dr. Sharda Pasricha & Dr. R. P. Singh

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Email us at: gucl.svc2018 @gmail.com

For Registration and further details kindly visit our website

www.svc.ac.in/gucl

Sri Venkateswara College

(University of Delhi)

Organizes

DBT SPONSORED

Faculty Development Program cum National Workshop

on

Greening an Undergraduate Chemistry lab:

Creating awareness for Environmental Friendly Methodologies

08th- 09th August, 2018

About the College

Sri Venkateswara College is a constituent college of the University of Delhi. The college was set up in 1961 under the benign auspices of Tirumala Tirupati Devasthanams (T. T. D.) It is a NAAC accredited "A' Grade college and was awarded with Potential for Excellence by UGC (2004) and DBT Star College Status (2016). The College has been awarded more than 50 major research projects from DST, DBT, DRDO and Innovative Projects from DU (2012-2017). The college is extensively involved in undergraduate research and teaching for the past six decades

About the Conference

Mankind in its efforts to improve living standards, protect and increase crop production has caused unintended yet irreparable damage to our planet and human health. By the end of 20th century, majority of the world's water bodies began to be pollution clogged. Acid rain has depreciated forest health, aquatic ecosystem and soil. Measureable holes were noticed in the earth's ozone layer.

Most of these detrimental impacts are attributed to the commonly used chemicals, which were suspected of causing effect on human health and environmental damage.

Universities play a vital role in supporting research and educating students to understand process and methodology of how chemistry and chemical processes affect health, environment and sustainability. Hence, we as an educational institute should make efforts towards educating students and inventing new methodologies to reduce the damage to environment and human health.

The main aim of the workshop is to redesign the teaching practices at undergraduate level. It is proposed to design greener laboratory experiments generating non-toxic and biodegradable substances and adopting safer waste disposal methodologies. Adopting these innovations will give rise to more sustainable chemistry and process alternatives that will continue to meet the demands to modern day education while also improving environment and uplifting the economy, thereby improving the conditions for better living.

Call for Abstract

Submit your abstract to GUCL 2018 for Oral/ Poster presentation on the following themes

- Sustainable chemistry and education
- Waste reduction, waste capture and waste recycling methods
- Organic synthesis- green methodologies
- Organic reactions and role of catalysis
- Use of green sources in organic reactions
- Green chemistry and environment
- Analysis and control methods in green chemistry
- Exploitation of renewable resources in organic reactions
- Alternate solvents/ chemicals in green chemistry

The link to upload the Abstract is provided in the Registration Form.

Last Date for Registration is 25th July, 2018.

Registration Fee (in INR)	
UG/PG Students	250
Research Scholars	500
Faculty/ Post Doctoral Students	1000
Industry/Others	2000

Payments must be made ONLINE through Debit/Credit card / Net banking.

Sri Venkateswara College

(University of Delhi)

Organizes

National workshop

on

Greening an Undergraduate Chemistry lab (GUCL-2018)

August 08th-09th, 2018

Objective of the Workshop

To reduce the adverse environmental impact of undergraduate chemistry labs, and create awareness on the principles and merits of Green Chemistry amongst the stakeholders in the Department/University.

Call for Papers

Papers are invited to present scientific contribution in the form of Poster/Oral presentation

Registration Begins: 30th May

Last Date for Abstract Submission: 30th June

Last Date for Registration: 15th July

Registration Details

Students:	Rs. 250
Research Scholars:	Rs. 500
Academia:	Rs. 1000
Industry/others:	Rs. 2000

For further information please contact:

Dr. Sharda Pasricha

9971099180

Or email at:

gucl.svc2018@gmail.com

For Registration and further details please visit www. svc.ac.in/gucl

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SRI VENKATESWARA COLLEGE
(University of Delhi)

Internal Quality Assurance Cell

This is to certify that the Activity report (Teacher/Department /Society/Association) has been submitted for documentation to IQAC, Sri Venkateswara College, University of Delhi.

N. Latha

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