

**TEACHER'S ACTIVITY REPORT 2019 - 2020****FACULTY: Science DEPARTMENT: Chemistry IQAC ACTIVITY No: SVC/2019-20/CHEM/SOC/3**

<b>NAME OF THE ACTIVITY: Seminar on Career Progression in Chemistry</b>			
<b>DATE</b>	<b>FACULTY</b>	<b>DEPARTMENT/COMMITTEE</b>	<b>COORDINATOR NAME</b>
6 <sup>th</sup> February, 2020	Science	Chemistry	Dr. Mercykutty Jacob
<b>TIME</b>	<b>VENUE</b>	<b>NUMBER OF PARTICIPANTS</b>	<b>NATURE: Outdoor/Indoor</b>
	Lecture Hall no. 58	80	Indoor
<b>SUPPORT/ASSISTANCE:</b>	Chemical Society		

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

<b>TOPIC/SUBJECT OF THE ACTIVITY</b>	<ol style="list-style-type: none"><li>1. Dr. V. Krishnamoorthi Memorial lecture by Prof. Ramanan</li><li>2. Group Discussion session</li><li>3. Career counselling session</li></ol>
<b>OBJECTIVES</b>	<p>The main objectives of the seminar organised by the department of chemistry were:</p> <ul style="list-style-type: none"><li>• To connect the students with prominent scientist and conduct an interactive session who can share his valuable knowledge, expertise and experience in the field of chemistry.</li><li>• To provide a platform to students to get information related to new emerging trends in chemistry.</li><li>• To enhance the knowledge and provide a better understanding of the non-covalent interaction especially the hydrogen bonding between the molecules which are critical in maintaining and forming three-dimensional structures of large molecules such as proteins and nucleic acids.</li><li>• To get students familiarized with the carrier paths in the subject area.</li></ul>
<b>METHODOLOGY</b>	<p>In the beginning of the lecture, Prof. Ramanan discussed the immerging trends in chemical science. In the talk, he emphasized on “how molecules turn into solids” and equated the overall arrangement of the solids in the form of crystal packing with the traditional Indian art form Rangoli. In this way, students were able to connect the various 3D structures of solids with Rangoli design. He pointed out that, the complete understanding of noncovalent interaction is crucial to design smart materials which could be used in the field such as, robotics, pharmaceuticals and polymers industries.</p> <p>He gave the examples of new functional materials such as Covalent organic framework, Metal organic frameworks and Coordinating Polymers which are fascinating materials and exploring as new smart materials. Prof. Ramanan also suggested to graduate students that at the end of every semester, they should be encouraged to do a mini project work based on the laboratory experiments in various research laboratories, so that they could develop the scientific approach in research. At the end of the lecture, he interacted with the students and</p>

	discussed the career opportunities after studying the chemistry.
OUTCOMES	<p>After the completion of the lecture on “Hydrogen bond directed molecular rangoli” the students were expected to:</p> <ul style="list-style-type: none"> <li>• Understand the different fascinating structures resulted from the hydrogen bonding by simple example of a traditional Indian art form Rangoli.</li> <li>• Understand how the noncovalent interaction operate and how it helps to aggregate molecules into solids.</li> <li>• Obtained intriguing solids with idiosyncratic crystal packing by tuning the hydrogen bonding interaction between the molecules which could further be used in the various application such as drug delivery.</li> <li>• To aware about the large number of career options available in the field of chemical science.</li> </ul>

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

Notice & Letters <input checked="" type="checkbox"/>	Student list of participation	Activity report	Photos <input checked="" type="checkbox"/>	Feedback form
Feedback analysis	News clip with details	Certificate	Any other	

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

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

## Proofs

### Dr. V. Krishnamoorthy Memorial Lecture (6<sup>th</sup> February, 2020)

Department of Chemistry  
Sri Venkateswara College  
Presents :

**DR.V.KRISHNAMOORTHY  
MEMORIAL LECTURE  
BY  
PROF. ARUNACHALAM RAMANAN  
(DEPARTMENT OF CHEMISTRY, IIT-DELHI)**

TOPIC - "HYDROGEN BOND  
DIRECTED MOLECULAR RANGOLI"

You all are cordially invited to join us :  
February 6 | 11 am | Room no. 57

For more details contact :  
Rishabh Jain (President) 7668108010  
Ayush Mongia (General Secretary) 9873284884



## Poster

### Acting Principal Dr. MVR Prasada Rao felicitating the Guest Lecturer Prof. Arunachalam Ramanan



Faculty members and students of Chemistry Department with Prof. Arunachalam Ramanan



**SRI VENKATESWARA COLLEGE**  
(University of Delhi)

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Prof C. Sheela Reddy  
Principal  
Sri Venkateswara College

**IQAC Coordinator**

Dr. N. Latha  
Department of Biochemistry

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Department of Sociology

Dr. Nimisha Sinha  
Department of Biochemistry

Shri D. Venkat Ramana  
A.O( I/C)

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*

IQAC Coordinator  
Sri Venkateswara College

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