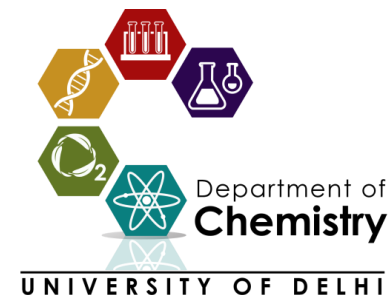


MODEL PRESENTATION



DEPARTMENT OF CHEMISTRY UNIVERSITY OF DELHI DELHI, 110007



QS WORLD UNIVERSITIES RANKING

No 1.

**Department of Country
Among all Universities**

HEAD: Prof. Ramesh Chandra

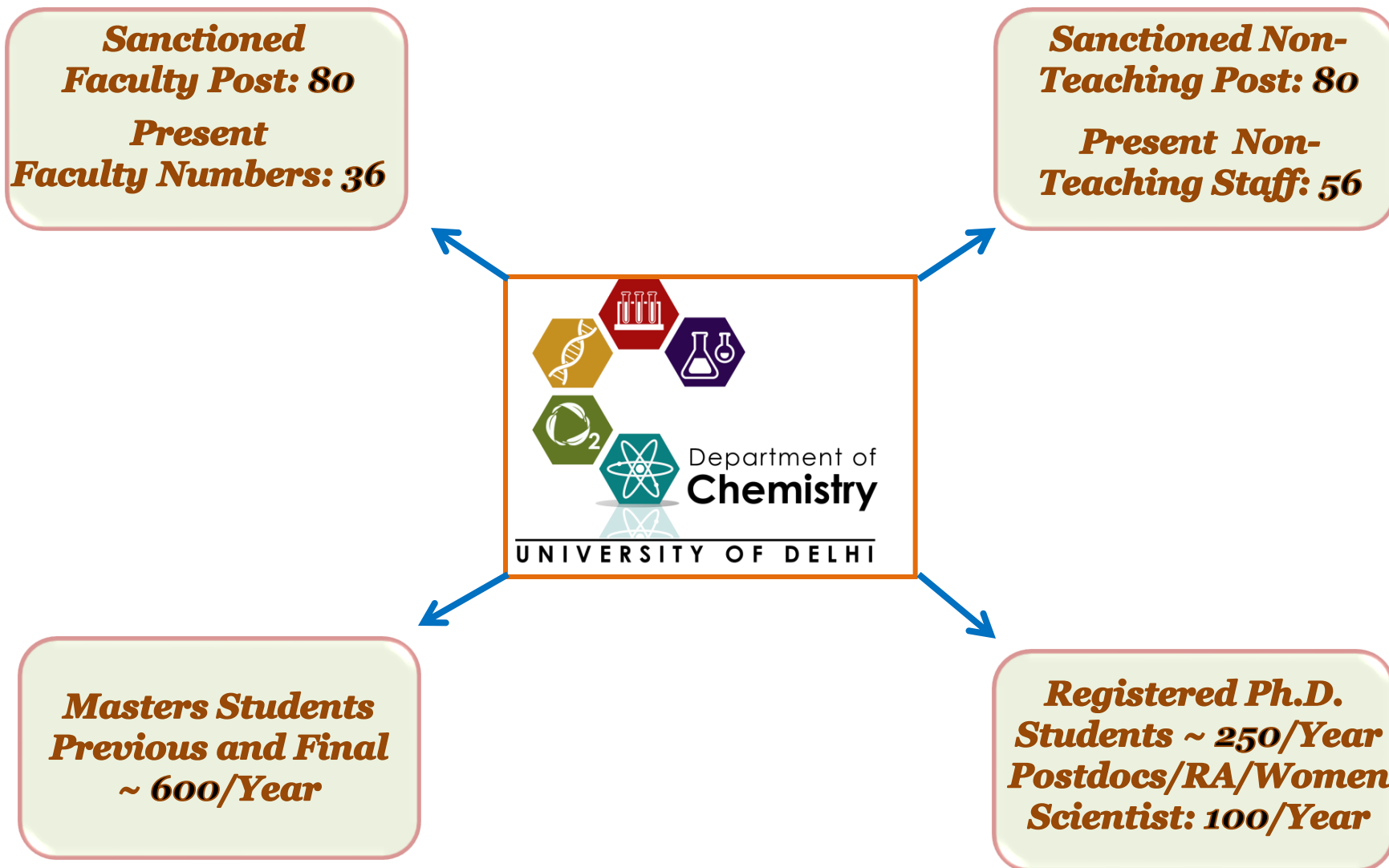
Phone: 91-011-27666646/7794, Ext. 100, 101, 102

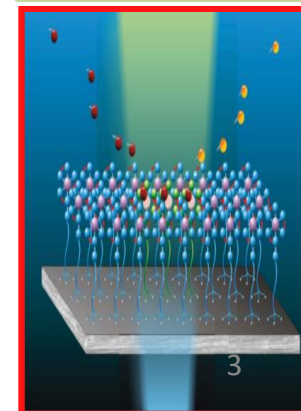
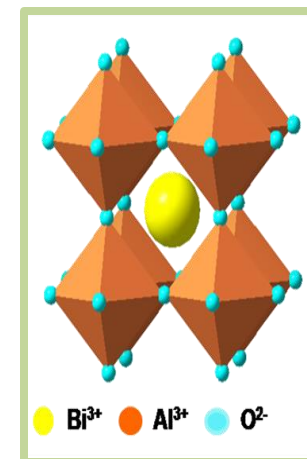
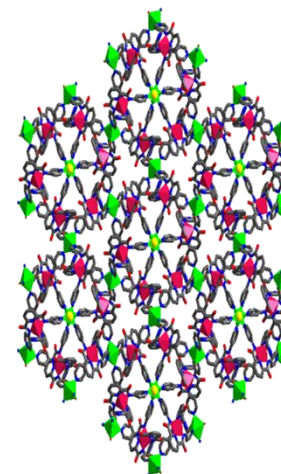
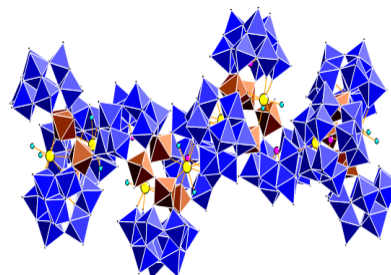
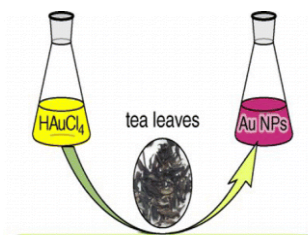
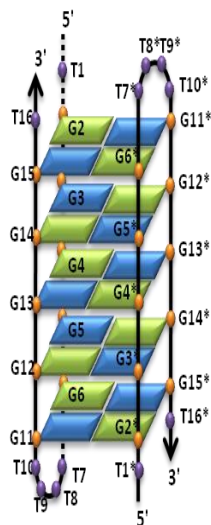
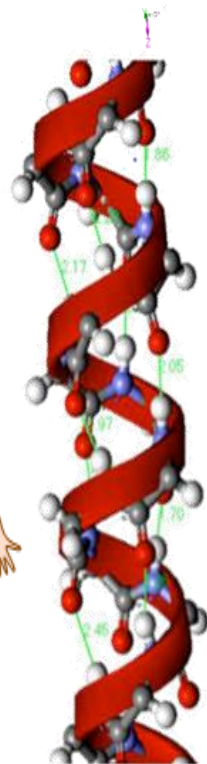
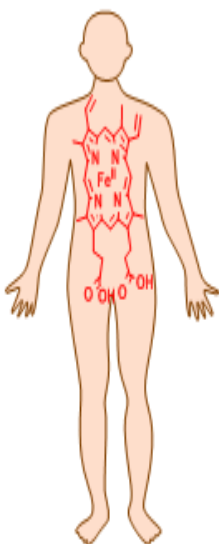
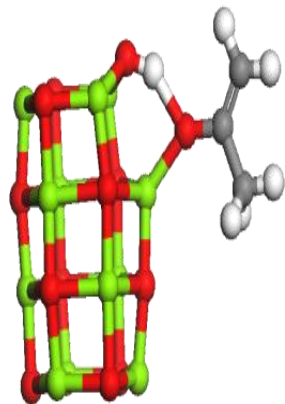
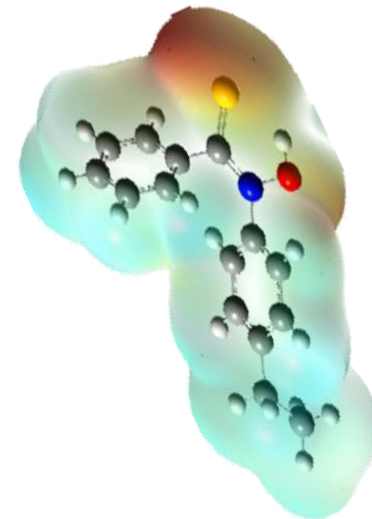
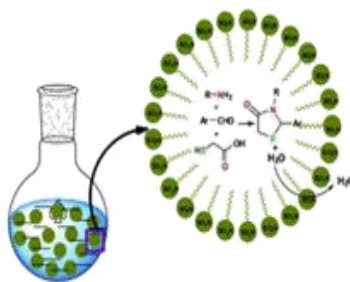
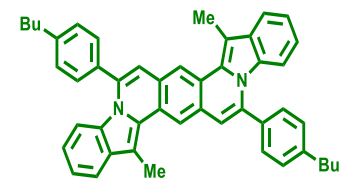
Fax: 91-011-27666605, Ext. 300

Website: <http://chemistry.du.ac.in>

Email: ta.hodoffice@gmail.com

STRUCTURE OF THE DEPARTMENT







HISTORY OF THE DEPARTMENT

1922: *Department was established with two year B.Sc. Course*

1924: *Miss A.M. Bains was appointed first Head of the Department*

1943: *B. Sc. (Honours) and M.Sc. was started*

1956: *B. Sc. Teaching was transferred to the colleges*

1970: *B.Sc. (Honours) was transferred to the colleges*

1963: *UGC Recognized the Department as “Centre of Advanced Study for the Chemistry of Natural-Products”*

1965: *UGC Recognized the Department as “Centre of Advanced Study for in Chemistry”*

1966: *UGC Provided Special Grant for the construction of four-storeyed building for the expansion of the Department*



THE GREAT LEGENDS OF THE DEPARTMENT



Father of Research Laboratories In India (1941-1943)



Prof. S.S. Bhatnagar, FRS

1936: Conferred with OBE (Order of British Empire)

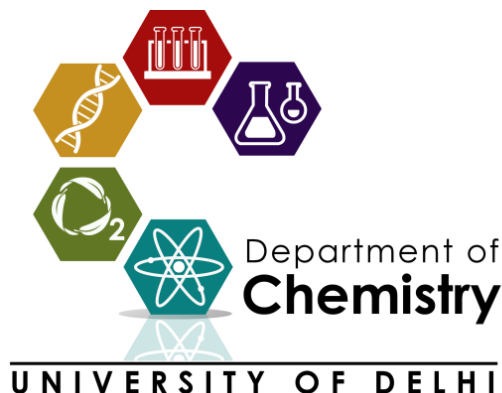
1943: Elected as FRS

1954: Padma Bhushan

Founder Director CSIR

First Director General CSIR

First Chairman, UGC



Father of Natural Products Chemistry In India (1949-1965)



T.R. Seshadri
Prof. T.R. Seshadri, FRS

1942: Elected as FNA

1960: Elected as FRS

1963: Padma Bhushan

1967: President INSA



HEADS OF THE DEPARTMENT



Prof. B. D. Laroia
1928-1941



Prof. S. S. Bhatnagar
1941-1943



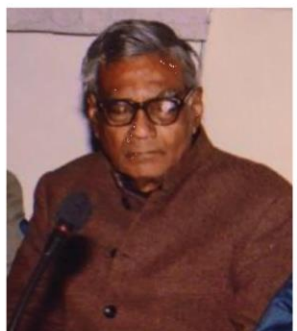
Prof. S. B. Dutta
1945-1949



Prof. T. R. Seshadri
1949-1965



Prof. R. P. Mitra
1965-1970



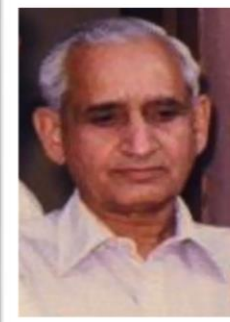
Prof. V. V. S. Murti
1971-1978



Prof. R. P. Singh
1978-1980



Prof. H. C. Gaur
1980-1982



Prof. R. N. Kapoor
1982-1983



Prof. GBV Subramanian
1983-1984, 1987-1990



Prof. N. K. Ray
1984-1987



Prof. S. S. Chibber
1990-1993



Prof. M. Atreyi
1993-1995



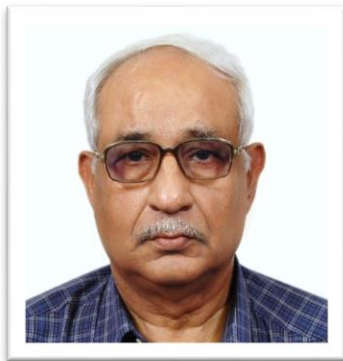
Prof. S. S. Lahiry
1995-1997



Prof. MR Parthasarathy
1997-1998



Prof. B. S. Garg
1998-2001



Prof. P. N. Kapoor
2001-2004



Prof. N. K. Kaushik
2004-2007



Prof. V. S. Parmar
2007-2010



Prof. A. K. Bakhshi
2010-2011



Prof. S. M. S. Chauhan
2011-2014



Prof. Gurmeet Singh
2014-2017



Prof. Ramesh Chandra
2017-Conti



CURRICULAR ASPECTS/ TEACHING AND RESEARCH

Department offers M. Sc. & Ph.D. Courses

Department admits ~ 300 M.Sc. Students Every Year

M. Sc. Course Structure

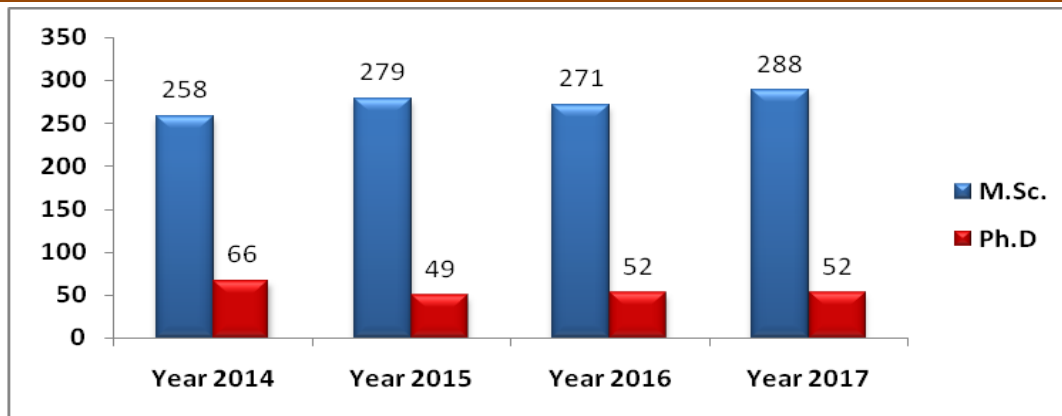
ADMISSION

Program	Selection process	Student intake	Student-Teacher ratio
M.Sc.	50% merit and 50% entrance based	~600	7.5
Ph.D	As per University ordinance VI	As per University ordinance VI	As per University ordinance VI

M.Sc. COURSE STRUCTURE (Proposed)

Semester	Core Courses			Elective Courses			Open Elective Courses			Total credits
	No. of papers	Credits (L+T/P)	Total credits	No. of papers	Credits (L+T/P)	Total credits	No. of papers	Credits (L+T/P)	Total credits	
I	3	12 + 6	18	Nil		0	Nil		0	18
II	3	12 + 6	18	Nil		0	Nil		0	18
III	3	12	12	2	8	8	1	4	4	24
IV	0		0	4	12 + 8	20	1	4	4	24
Total credits			48			28			8	84

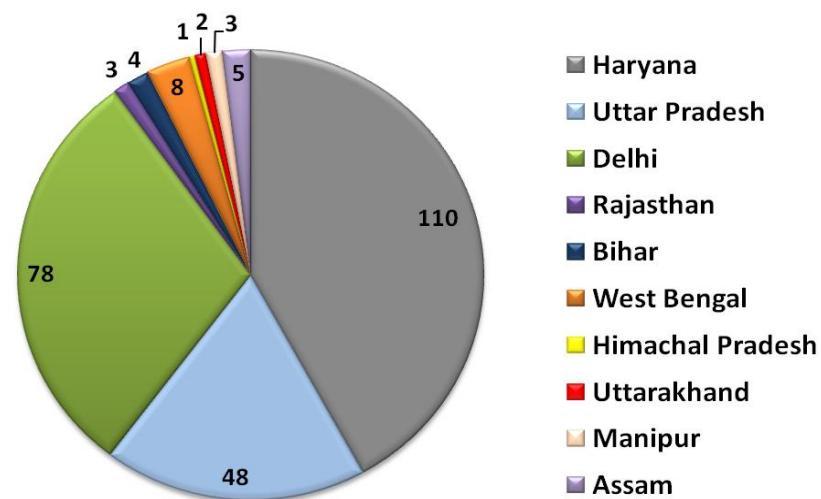
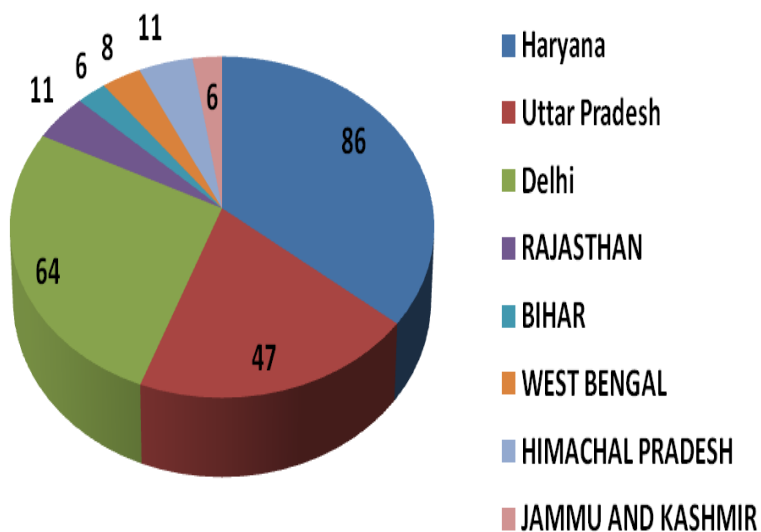
STUDENTS ADMITTED in M.Sc. and Ph.D. COURSES



STUDENTS DIVERSITY

M.Sc. Previous (2017)

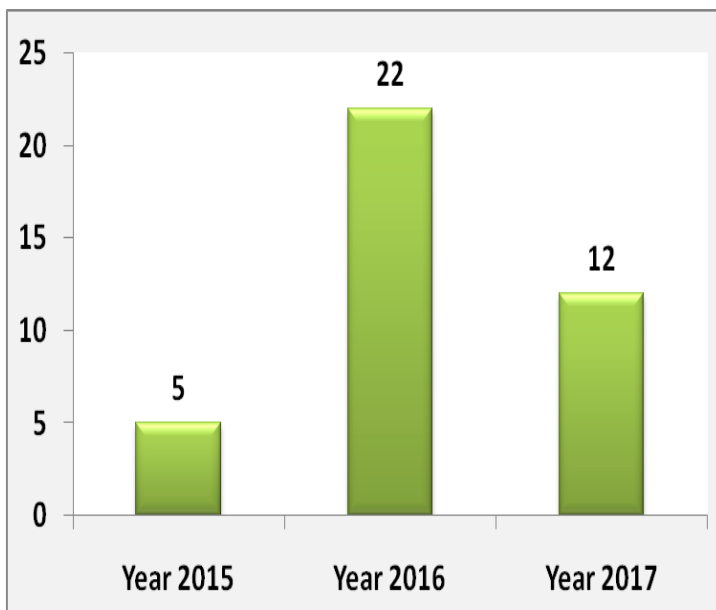
M.Sc. Final (2017)



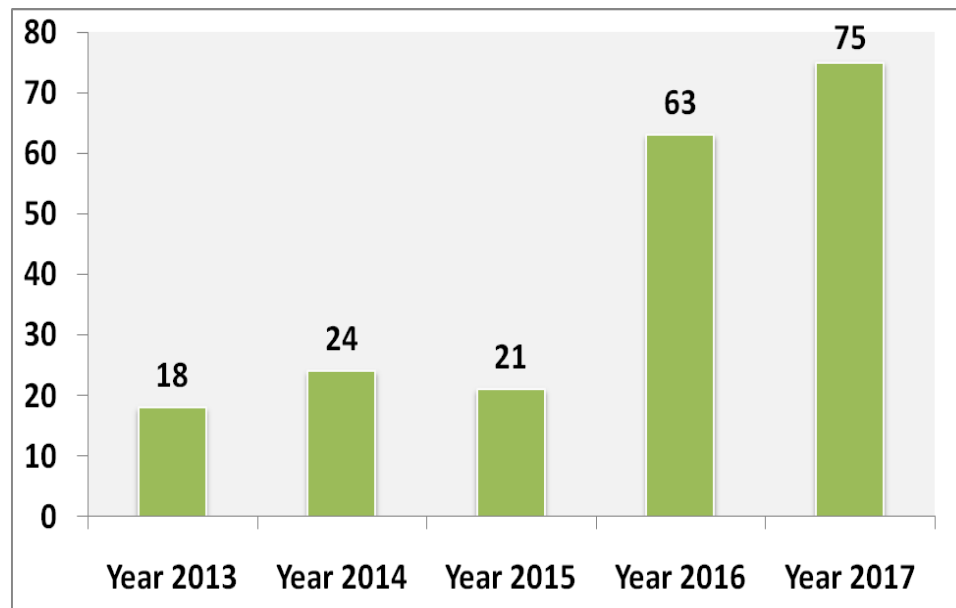


CURRICULAR ASPECTS/ TEACHING AND RESEARCH

Student Progression (in %) (PG to Ph.D.)



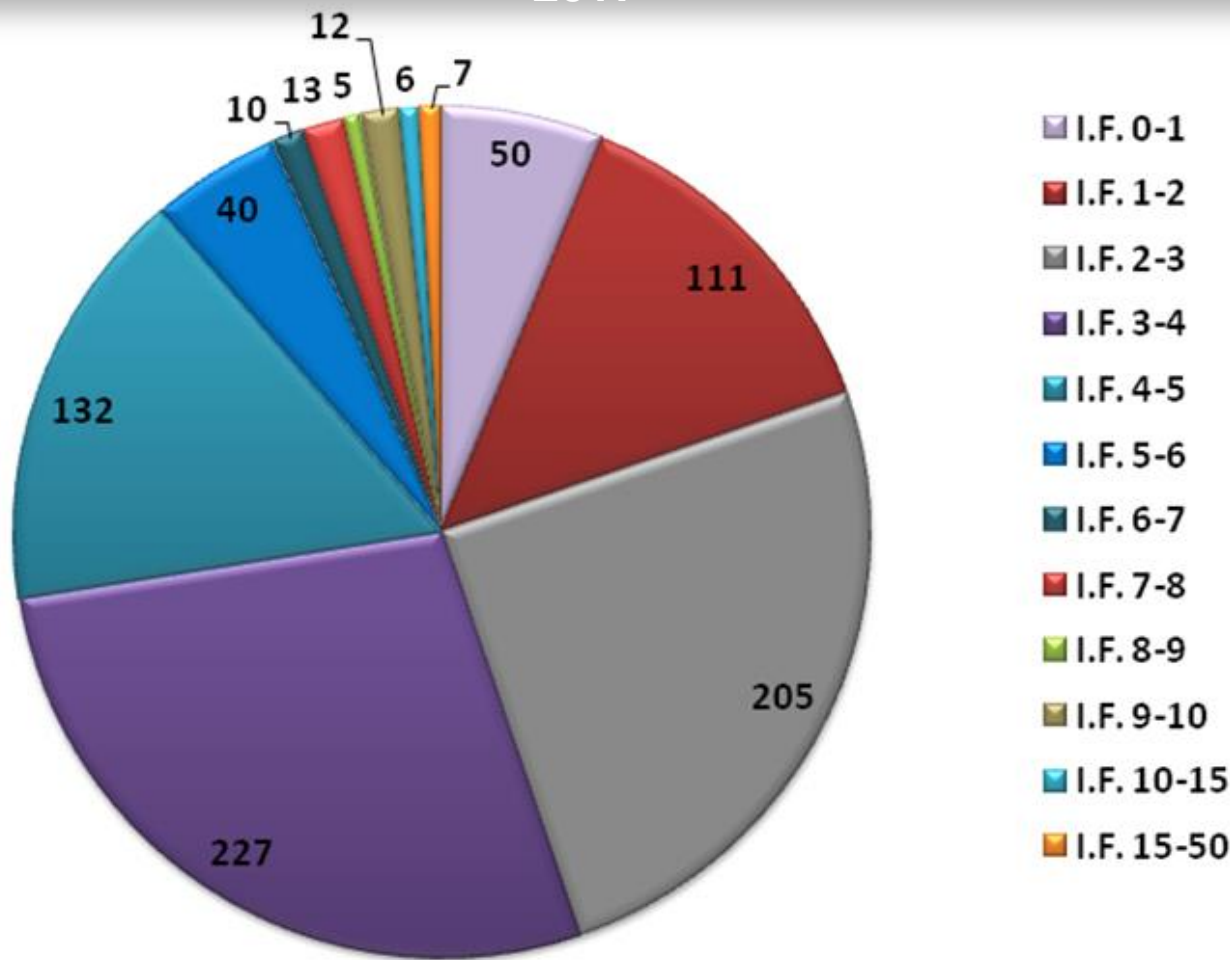
PhD Students with NET JRF (2013-2017)



FIRST FIVE PERSONS AWARDED Ph.D.

Student	Supervisor	Year
1. K.S. Rajagopalan	R.P. Mitra	1950
2. N. Narasimhachari	T.R. Seshadri	1950
3. D.B. Parihar	S.B. Dutta	1950
4. S. Varadarajan	T.R. Seshadri	1952
5. S.K. Mukherjee	T.R. Seshadri	1952

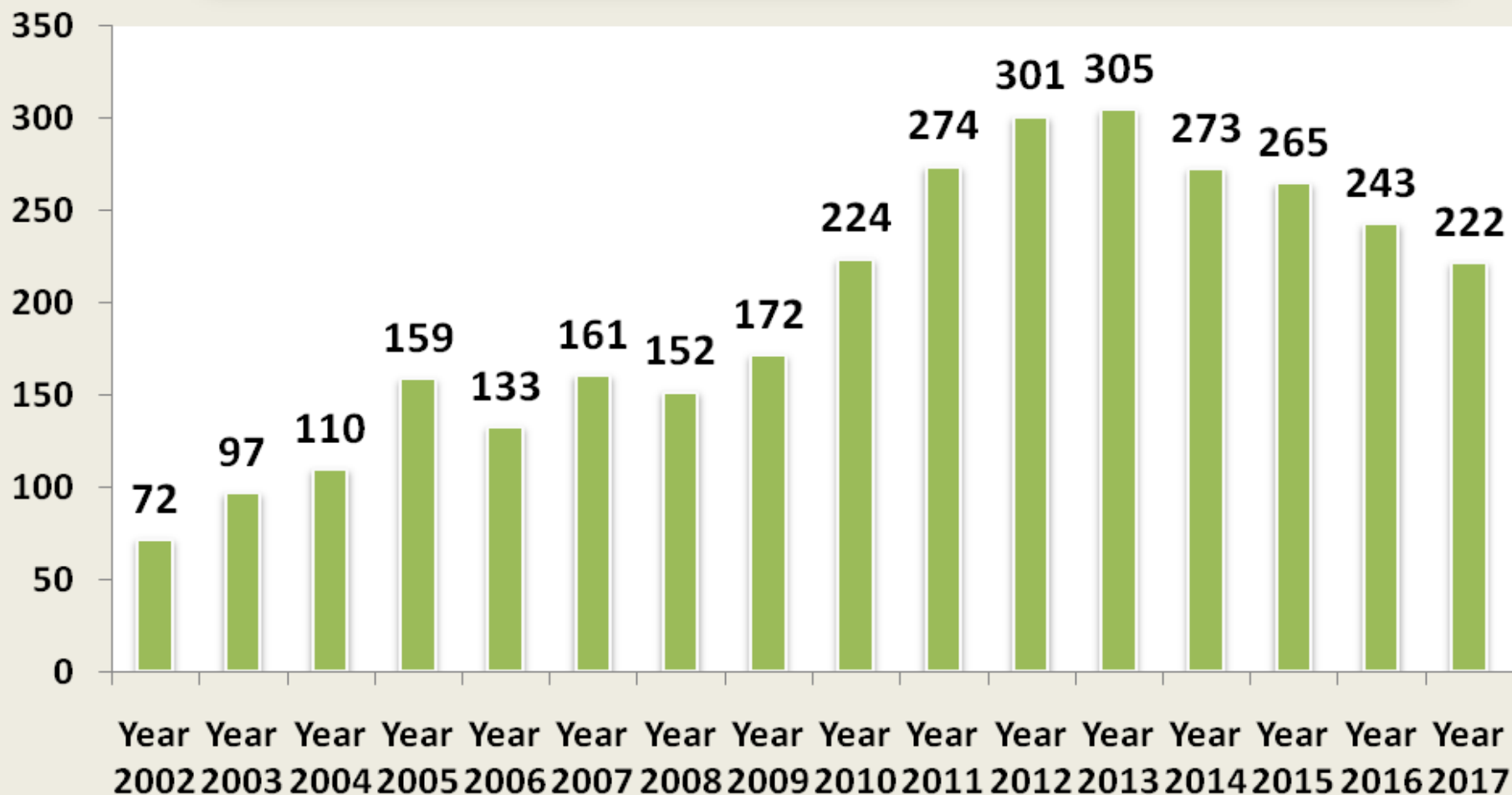
Faculty research publication with impact factor during 2013-2017



Department of Chemistry is Leading among all the Universities of our Country in Publishing papers in 3-4 and 4-5 Impact Factor Journals



Number of Publications (2002-2017)

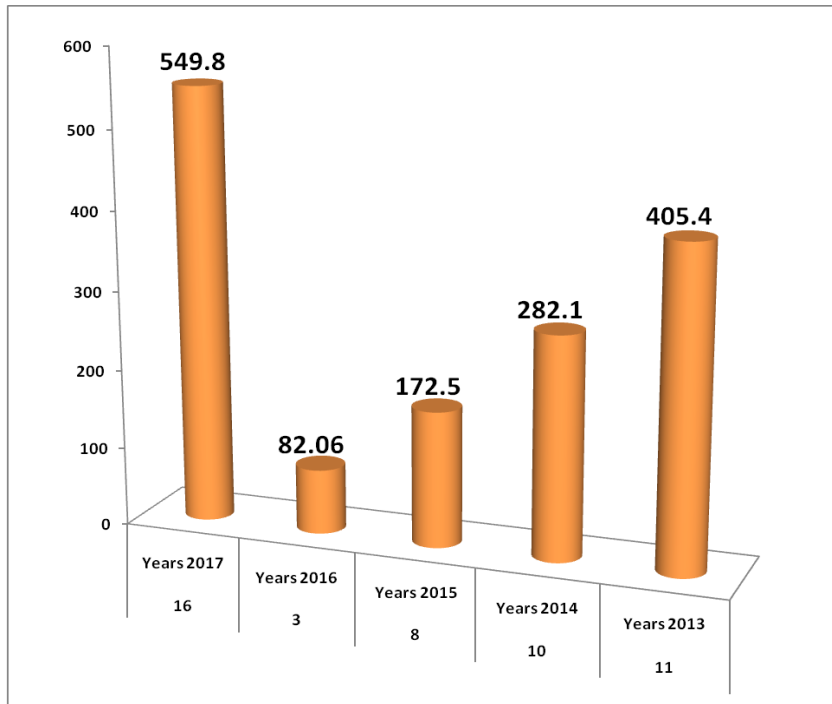


RESEARCH FUNDING

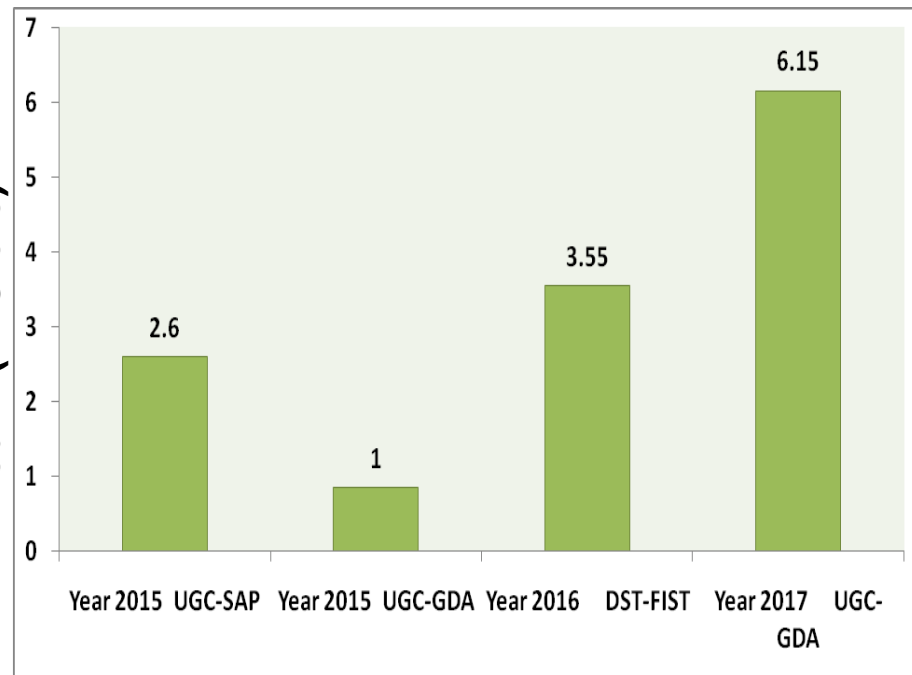
EMR FUNDED PROJECTS TO THE FACULTIES (2013-2017)

FUNDS PROVIDED BY FUNDING AGENCIES TO THE DEPARTMENT (2015-2017)

Amount (in Lakh)



Amount (in Crore)



Total number of Research Projects Year wise

FIST SUPPORT TO THE DEPARTMENT

FIST 2002

Department procured the GC-MS



FIST 2015

Department procured NMR



- USERS:**
1. Faculty members of Department
 2. Faculty members of various colleges affiliated to University of Delhi
(It includes nearly 25 colleges)
 3. Faculty members of ACBR, University of Delhi
 4. Department of Botany/ Zoology

RECOGNITION AND REWARD TO THE DEPARTMENT BY SCIENCE AND TECHNOLOGY (DST)

Department was Recognized by DST, Govt. Of India in 2011, as one of the best performing Chemistry Department in the Country, based on quality of Research publications, Citations and H-Index.

**DEPARTMENT WAS REWARDED BY A SPECIAL
GRANT OF RS. 1.5 Cr**

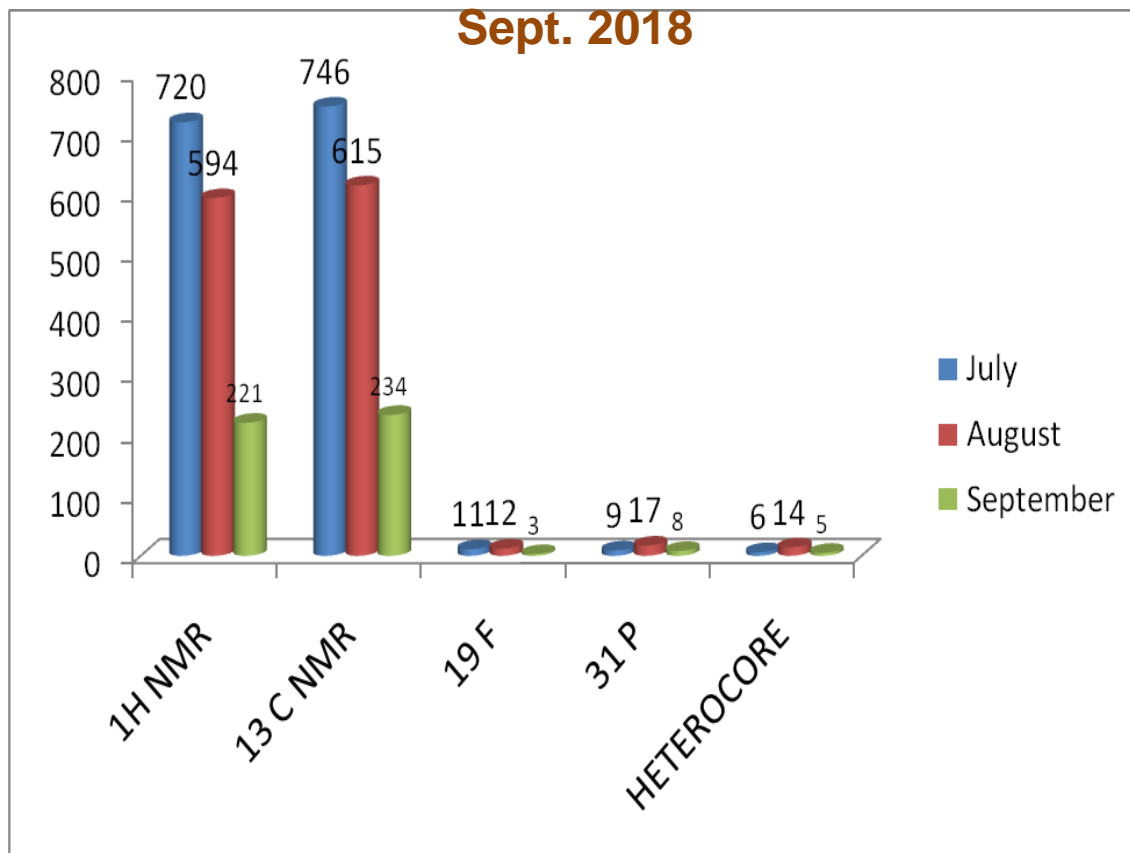
**The GRANT WAS UTILIZED
FOR THE PURCHASE OF
HIGH RESOLUTION MASS
SPECTROMETRY (HRMS)**



FIST SUPPORT AND ITS IMPACT ON THE DEPARTMENT GROWTH



NMR DATA RECORDED between July 18 to 12th Sept. 2018

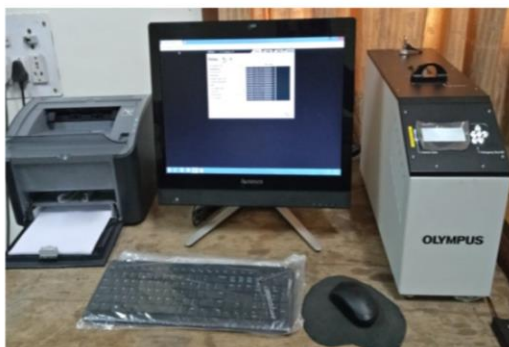


The Department of Chemistry is well known for its excellence in teaching and research and has well designed advanced practical's for the M.Sc. students where master's students are using this NMR (¹H NMR, ¹³C NMR, ¹⁹F NMR and DEPT) and other instrument for the characterisation/analysis of synthesized compound/given comp



Jeol Nuclear magnetic Resonance (400 MHz)

400 MHz NMR



Powdered XRD



Polarimeter



TGA/DTA



UV-Vis Spectrophotometer



FTIR Spectrometer With ATR



FTIR Spectrometer



TEM (300 KV)



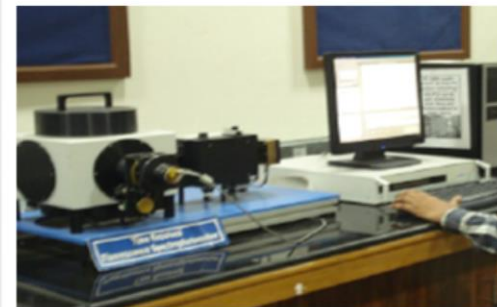
Single Crystal XRD



CD Spectro Polarimeter



CHNSO Analyser



Time Resolved Fluorescence



FACULTY ACHIEVEMENTS

SELECTED PRESTEGIOUS AWARDS AND HONOURS



Fellow of Royal Society (FRS)

1. *Professor Sir S. S. Bhatnagar (1943)*
2. *Professor T. R. Seshadri (1960)*

Bhatnagar Laureates

1. *Professor A. C. Jain (1969)*
2. *Professor N. K. Ray (1983)*

Fellow Indian Academy of Sciences (FASc)

1. *Professor Rama Kant (2015)*

Millennium-Plaques-of -honour

1. *Professor Ramesh Chandra (2017-18)*

CRSI Medal Awardees

1. *Professor Rama Kant (Bronze Medal-2015)*
2. *Professor Rajeev Gupta (Bronze Medal-2016)*
3. *Dr. P. Venkatesu (Bronze Medal-2017)*

INSA Fellows

1. *Professor T. R. Seshadri*
2. *Professor T. R. Rangaswami*
3. *Professor R. P. Mitra*
4. *Professor A. C. Jain*
5. *Professor S. Varadarajan*
6. *Professor S. K. Mukerjee*
7. *Professor N. K. Ray*
8. *Profesor A. N. Maitra*

BOYSCAST Fellow

1. *Prof. Akhilesh K. Verma (2007)*

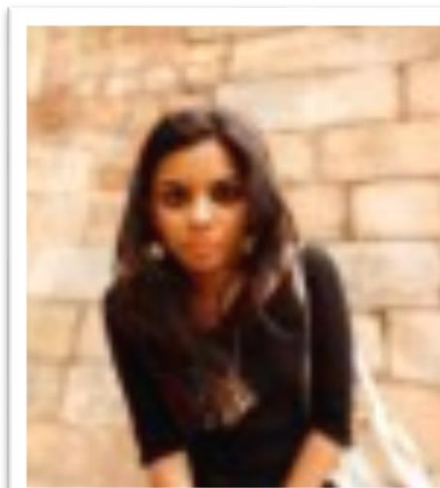
***FOLLOWING STUDENTS OF OUR DEPARTMENT REPRESENTED OUR
COUNTRY IN LINDAU NOBEL LAUREATE MEETING, GERMANY***

**64th Lindau Nobel
Laureate Meeting 2014**



Dr. Trapti Aggarwal
Supervisor: Prof. A. K. Verma

**64th Lindau Nobel
Laureate Meeting 2014**



Anjali Devi Das
M.Sc. Students (2013-14 Batch)

**67th Lindau Nobel
Laureate Meeting 2017**



Dr. Monika Patel
Supervisor: Prof. A. K. Verma

STUDENTS REPRESENTATION AT NATIONAL FORUM (Selected awards)



Dr. Rakesh K. Saunthwal
**2017 NOST,
Best Thesis Award**
INDO-US Fellowship:2017
Overseas Fellowship: 2017
Postdoc: Jonathan Clayden, UK
Supervisor: Prof. A. K. Verma



Dr. Chinna Rajesh
**ISCA Best Research Scholar
Award: Silver Medal 2014**
Postdoc: Indiana Univ. USA
Supervisor: Prof. D. S. Rawat



Dr. Trapti Aggarwal
**2014 NOST,
Best Thesis Award**
UGC Women Scientist:2017
JSPS Fellowship: 2017
Postdoc: Norio Shibata, Japan
Supervisor: Prof. A. K. Verma

STUDENT SUPPORT AND PROGRESSION CARRIER/PERSONAL COUNSELLING



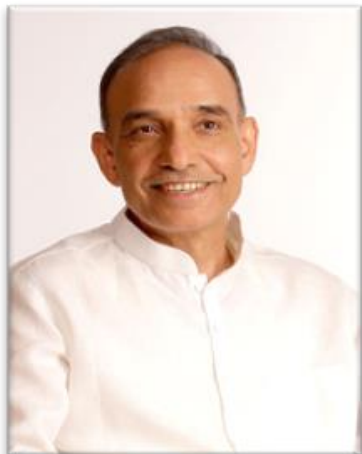
CARRIER COUNSELLING of RESEARCH SCHOLARS



**RELEASE OF OFFICIAL MAGAZINE OF
DR. S. S. BHATNAGAR CHEMICAL SOCIETY**



**INAUGURATION OF S. S. BHATNAGAR
CHEMICAL SOCIETY**



ALUMNI DEPARTMENT OF CHEMISTRY UNIVERSITY OF DELHI

Satyapal Singh

- M.Phil. Chemistry
Dept. of Chemistry, DU
- Minister of State HRD
- Member of Parliament
- Indian Police Services

Prof. V.S. Chauhan

- Ph.D. in Chemistry
Dept. of Chemistry, DU
- Padma Shri Awardee
- Former UGC Chairman
- Director ICGEB (1998-2014)

Prof. K.N. Ganesh

- Ph.D. in Chemistry
Dept. of Chemistry, DU
- Director, IISER Tirupati
- Former Director, IISER Pune

Prof. Javed Iqbal

- Ph.D. in Chemistry
Dept. of Chemistry, DU
- Director, RRL, Trivandrum
- Director ILS Hyderabad

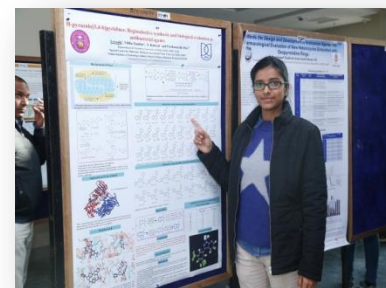
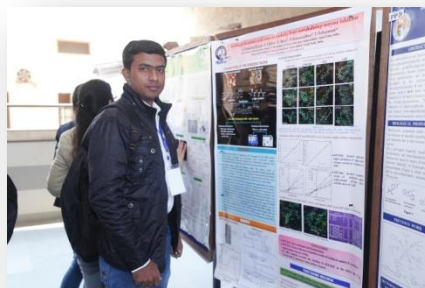


AC Class Rooms of the Department Enabled with LCD Projector



Interaction of Department Faculties with M.Sc. and Ph.D. Students

TEACHING-LEARNING/EVALUATION



Poster Presentation by M.Sc. and Ph.D. Students During International Conference On Emerging Trends in Drugs Development and Natural-Products January 12th -14th, 2018



Group Photograph of M.Sc. and Ph.D. Students of the Department with Eminent Scientist of our Country During International Conference On “Emerging Trends in Drugs Development and Natural-Products” (ETDDNP) January 12th -14th, 2018

STUDENTS AWARDS/RECONGNITION

Medals, Prizes and Scholarships Given by the Department to M.Sc. Students

- National Scholarship–Centre of Advanced Study in Chemistry
- Smt. Ramti Devi Goel Memorial Scholarship
- Professor KBL Mathur Gold Medal
- Professor TR Seshadri Prize
- VB Mahesh Scholarship
- Prof. GBV Subramanian Memorial Gold Medal
- Jean and Ashit Ganguly Education Foundation Scholarships
- Lala Bhagwan Das Goel Memorial Scholarship
- Shailaja Sehgal Memorial Scholarship
- Professor RP Mitra Gold Medal
- Professor KN Johri Gold Medal
- Surendra and Karan Gupta ARC Foundation Scholarship
- Professor AC Jain Scholarship



2017 Gold Medalist



MERITORIOUS AWARDS PRESENTED TO M.Sc. STUDENTS OF DEPARTMENT BY EMINENT SCIENTISTS



INSTITUTIONAL VALUES AND BEST PRACTICES

**PLEDGE FOR
GREEN
PRACTICES**



**PLEDGE FOR
GREEN
PRACTICES**



Plantation by Students/Faculties and Staff of the Department

RECENT CONFERENCES/SEMINARS



ETDDNP-2018
International Conference
On
Emerging Trends in Drugs Development
and Natural-Products
January 12th -14th, 2018



ACS
Chemistry for Life®

American Chemical Society (ACS)
on Campus
University of Delhi
February 5th 2018



International Seminar on
Effects of Pollution on Human Health
Department of Chemistry,
University of Delhi, Delhi 110007



Friday, December 1st, 2017



NEW INITIATIVES

MHRD- GLAN Course on **RNA Metabolism and Neurodegenerative Diseases**

Department of Chemistry, University of Delhi

April 2-7, 2018
Foreign Faculty



Professor Benjamin Wolozin

Department of Pharmacology & Experimental Therapeutics and Neurology
Boston University School of Medicine, MA, USA
Co-founder and Chief Scientific Officer of Aquinnah Pharmaceuticals Inc.



THANK YOU