

## FACILITY AVAILABLE IN SOS IN CHEMISTRY



TD-GC-MS/MS-ECD-FID

AAS

UV-Visible Spectroscopy



DRS/ATR-FTIR

Electrochemical Workstation

CHSN/O Analyser

## MOUs/COLLABORATIONS FOR SCIENTIFIC RESEARCH AND ACADEMIC ACTIVITIES

- Washington University, St. Louis, MO, USA
- Desert Research Institute, Reno, NV
- Institute of Earth Environment, Chinese Academy of Sciences, Xi'an, China
- MoU between PRSU and University STUDI DI BRESCIA, ITALY
- University degli Studi di Brescia, Italy
- Department of Environmental Engineering & Science, Chia Nan University, Taiwan
- University Hospital Biomedical Research Centre, Sokolska, Hardec Kralove
- University Degli Studi di Torino, Torino, Italy.
- Cancer Research Laboratory in Radiation, Biology and Health Division, Bhabha Atomic Research Centre, Trombay, Mumbai for in-vitro and in-vivo studies
- Institute of science, Nagpur for Software Drug Designing
- Defence Research Development Organisation, Gwalior
- Central Drug Research Institute, Lucknow
- Tri-Party MoU between PRSU, DRDE Gwalior and CDRI Lucknow.
- National Metallurgical Laboratory, Jamshedpur
- Indian Institute of Tropical Meteorology, New Delhi
- National Environmental and Engineering Research Institute, Nagpur
- Moscow University
- CSIR-IICT Hyderabad/ SoS in Chemistry NCNR
- IITM Pune
- CGCOST
- NIH Roorkee

	PROGRAMME ORGANISED	DATE	SOURCE OF FUNDING	OUTSTANDING PARTICIPANTS
Conference	47th Annual Convention of Chemists & International Conference on Recent Advances in Chemical Sciences	22-27 Dec 2010	UGC, DST, DRDO, CCOST	Prof. M Yamashita, Japan Prof M K Jain, USA
Symposium	International Symposium on Novel Approaches to Air Quality Management and Improvement in India	5-7, Sep. 2011	UGC, International Council of Clean Transportation (ICCT) California and DRI, NV, USA	Prof. J.G. Watson, USA Prof. Judith Chaw, USA
Symposium	International Symposium on Environmental, Analytical & Toxicological Issues of Speciation in Atmospheric Organic Pollutants	6-7, Dec. 2012	Desert Research Institute, Reno, NV and UGC	Prof. Barbara Zielinska, USA Prof. Anjali Srivastava, NEERI
Conference	56th Annual Convention of Chemist & International Conference on Recent Trends in Chemical Science	14-16, Nov. 2019	CSIR, UGC, CSIR and DRDO and CGCOST	Daniel R. Talham, Kimitaka Kawamura, Shingo Shimodaira

## GLIMPSE OF SOS IN CHEMISTRY

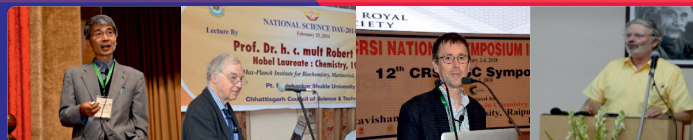


Convocation 2020

Prof. Shamsh Pervez with Prof. John G. Watson

Prof. Deb with Dr. Hasegawa

Prof. CNR Rao



Prof. Kimitaka Kawamura

Prof. Robert Huber

Prof. H. Morgan UK

Prof John G Watson, DRI USA



All Teachers of SoS in Chemistry with Prof. Robert

Late Prof. Barbara Zielinska, DRI, USA

Prof. S. Pervez, Prof. Kawamura, Prof. K.L. Verma (Vice Chancellor), Prof. Daniel Talham And Prof. K. K. Ghosh

## COMPUTER AND M.SC. CHEMISTRY LAB



## FACILITIES (MAJOR EQUIPMENT)

- TD-GC-MS/MS-ECD-FID
- GF-AAS, CV-AAS, F-AAS
- DRS/ATR -FTIR
- HPLC
- Fluorescence Spectrophotometer
- Fluorescence Microscope
- UV-Vis Spectrophotometer
- Tube Furnace and Refrigerated Mega Centrifuge
- Ion Chromatography
- C, H, S, N/O Analyzer
- Microwave Digestion System
- UV-Visible Spectrophotometer with Integrated Sphere
- Tensiometer
- Zeta Potential Analyser
- Electrochemical Workstation



## SCHOOL OF STUDIES IN CHEMISTRY

(DST-FIST & UGC-SAP-DRS-II Funded)



**DR. SHAMSH PERVEZ**  
PROFESSOR AND HEAD  
U.S. FULBRIGHT RESEARCH FELLOW

## PT. RAVISHANKAR SHUKLA UNIVERSITY

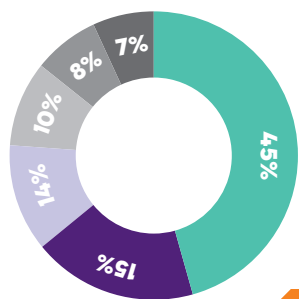
RAIPUR CHHATTISGARH (NAAC: A-GRADE)

<https://www.prsu.ac.in/academic-departments/utd-departments/School-of-Studies-in-Chemistry/2>

## SOS IN CHEMISTRY

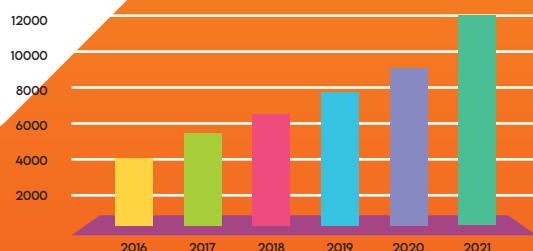
Pt. Ravishankar Shukla University, Amanaka  
Raipur, Chhattisgarh, 492 010  
Phone: 0771-2262843  
Email: prsuchem1972@gmail.com

## CONTRIBUTION TO UNIVERSITY'S RESEARCH PROFILE



- CHEMISTRY
- PHYSICS & ASTRONOMY
- BIOTECHNOLOGY
- PHARMACOLOGY
- MEDICINE
- ENGINEERING

## RESEARCH CITATIONS



## SCHOOL OF STUDIES IN CHEMISTRY

Pt. Ravishankar Shukla University (PRSU), established in 1964, is the largest and the oldest academic institution of Chhattisgarh state. The PRSU has 300 acres sprawling campus and grown enormously over the last 53 years in terms of number of students (approx. 2 lakhs) as well as disciplines, viz., arts, science, life science, humanities, law, education, pharmacy, management, physical education, etc. 27 School of studies and around 150 affiliated colleges spread over different districts of Chhattisgarh.

SoS in Chemistry is one of the oldest and most prominent department in Pt. Ravishankar Shukla University, Raipur, founded in 1972. Under the supervision of dedicated teachers, it offers M. Sc., M. Phil. and Ph. D. programs. The academic achievements of the SoS are well reflected by over 600 research papers published at the world level and more than 160 Ph. D.'s produced covering a wide spectrum of the chemical sciences. The School has been the proud recipient of DST-FIST (Phase I & II) and has been tagged as a SAP department under the DRS program (Phase I & II) by the UGC, New Delhi.

## FORMER FACULTIES



Former Head & Founder Late Prof. S.G. Tandon    Late Prof. R. K. Mishra    Late Prof. V. K. Gupta    Late Dr. G. S. Pandey



Late Dr. J. S. Tiwari    Late Prof. G. L. Mundhara    Prof. Rama Pandey    Prof. K. S. Patel    Prof. S. A. Bhoite

## TEACHING FACULTY

NAME	DESIGNATION	QUALIFICATION	SPECIALIZATION
 Dr. Kallol K. Ghosh	Professor	M.Sc. Ph.D. JSPS Fellow	Physical Chemistry, Physical Organic Chemistry & Surface Chemistry
 Dr. Manas Kanti Deb	Professor	M.Sc. Ph.D. JSPS Fellow	Analytical Chemistry, Environmental Chemistry
 Dr. Shamsh Pervez	Professor	M.Sc. Ph.D. US Fulbright Research Fellow	Physical Chemistry, Environmental Sciences, Air Quality Monitoring & Modelling, Waste Water Treatment
 Dr. Manish K. Rai	Associate Professor	M.Sc. Ph.D.	Organic Chemistry & Environmental Science
 Dr. K. K. Shrivastava	Associate Professor	M.Sc. Ph.D. JSPS, ORISE Fellow	Analytical Chemistry, Chemical Sensor & Mass Spectrometry
 Dr. M. L. Satnami	Assistant Professor	M.Phil., Ph.D., TWAS Fellow.	Inorganic Chemistry, Nanomaterials & Physical Organic Chemistry
 Dr. Indrapal Karbhaj	Assistant Professor	M.Phil., Ph.D., CSIR-UGC-NET, JRF	Inorganic Chemistry, Nanomaterials & Nanotechnology, Physical Organic Chemistry, Energy Storage
 Dr. Shahina Bano	Assistant Professor (Guest Lecturer)	M.Sc. Ph.D. SET	Inorganic and Analytical Chemistry
 Dr. Ramsingh Kurrey	Assistant Professor (Guest Lecturer)	M.Sc. Ph.D.	Analytical and Environmental Chemistry, Nanochemistry, Surface Chemistry
 Miss. Aishwaryashri Tamrakar	Assistant Professor (Guest Lecturer)	M.Sc.	Inorganic and Analytical Chemistry

## VISION

The vision of the School of Studies in Chemistry is to develop an environment of enthusiasm and passionate involvement with continuous advancement in chemical sciences for producing human resource with world-class competence and skills in pure & applications of chemical sciences by: 1) providing world-class and user-friendly teaching methodologies for students of advanced studies, 2) Inculcating the research temperament of user-folks under the inter-disciplinary platform of industry-academia-research institutes with promotion of research consultancies and collaborations with institutes of national and international importance

## MISSION

1. To develop the School, a centre of excellence for higher education and knowledge resources. 2. To promote understanding the value of self-learning, creating and competence building : By providing world-class education through university teaching departments and schools. By promoting inter-disciplinary research and professional consultancy services and student. exchange program with institute of national and international repute. By creating environment conducive to nurture creativity and scientific temper.

## ACADEMIC PROGRAMS OFFERED

COURSE NAME	SEATS	ELIGIBILITY	ADMISSION PROCEDURE
Ph. D.	As per vacancy	M. Sc or M. Phil Chemistry	Entrance Test
M. Sc.	Total - 60 (35 + 25 Payment Seat)	B. Sc.	Entrance Test
Choice Based Credit System in Master Course in Chemistry	As per university norms	As per university norms	As per university norms

## ONGOING PROJECT

Name of Faculty (Principal Investigator)	Name of the Funding Agency	Title of the Project	Sanctioned Order No.	Sanctioned Date	Amount Received (In Rupees)	Amount Received (in Words)
Departmental Project	UGC SAP/DRS-II	Biogeo-environmental Pathways, Nanochemistry and Associated Climate Change Involved with Pollutant	UGC OFFICE /16/	18.05. 2015	128.00 Lakh	One Hundred Twenty Eight Lakh
Departmental Project	DST-FIST	Environmental Chemistry, QSAR and Drug Designing for Antitumor/Anticancer activity, Surface Science and Interfacial Reactivity & Nanomaterials and Conjugation of Medically Important Bio-molecules.	SR/FST/CSI-259/2014	2015	165.00 Lakh	One Hundred Sixty Five Lakh
Prof. Shamsh Pervez	SERB DST, DELHI	Evaluation of Biomass Burning Emissions to Address Sources of Atmospheric Brown Carbon and Associated Impacts on Regional Climate	EMR/2015/000928	6.10. 2018	55.00 Lakh	Fifty Five Lakh
Dr. Kamlesh K. Shrivastava	SERB DST, DELHI	Design and Development of Low-Cost Paper Based Printed Electrochemical and Colorimetric Sensors	(EMR /2016 /005813	12.03. 2018	40.00 Lakh	Forty Lakh
Dr. M.L. Satnami	SERB, DST, New Delhi	Nanomaterial Based Optical and Electrochemical Biosensor for the Detection of Stimulants of Warfare Agents	SERB/F/10682 /2017	16.03. 2018	27.00 Lakh	Twenty Seven Lakh