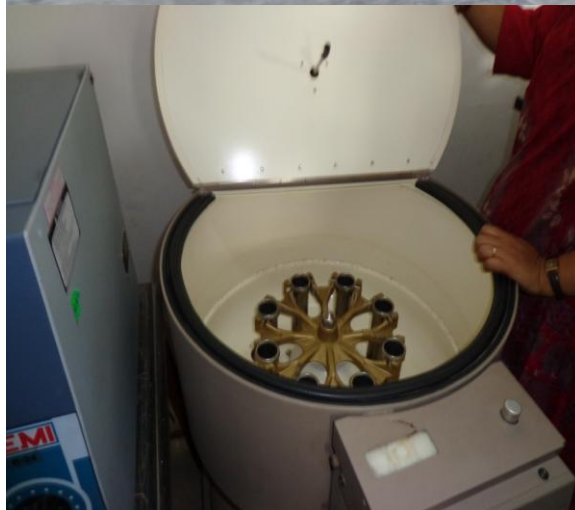


# DEPARTMENT OF CHEMISTRY




## DEPARTMENTAL PROFILE FOR ACCREDITATION BY NAAC



**S. M. M. TOWN PG COLLEGE, BALLIA  
M.G.KASHI VIDYA PEETH, VARANASI**

# Department of Chemistry

## 1. Faculty Profile – Our faculty

	<b>Name and Designation</b>	<b>Area of Research and Specialization</b>
	<b>Sri Dhirendra Kumar</b> M.Sc., NET Assistant Professor and Head 9838597410	Inorganic Chemistry
	<b>Dr. Subedar Prasad</b> Assistant Professor M.Sc., NET, Ph.D. Assistant Professor (SS)	Analytical Chemistry 01
	<b>Dr. Akhilesh Prasad</b> Assistant Professor M.Sc., NET, Ph.D. Assistant Professor	Inorganic Chemistry 04
	<b>Vacant Teaching Staff-</b>	03

### Supporting Staff

<b>Sri. Rohit Kumar Srivastava</b>	<b>Laboratory Assistant</b>
<b>Vacant 01 post for Laboratory Assistant</b>	
<b>Sri Nandlal Yadav</b>	<b>Laboratory Attendant/Parichar</b>
<b>Sri Santosh Kumar Srivastava</b>	<b>Laboratory Attendant/Parichar</b>

Science faculty was established in this college in the year 1964 with 16 students and one lecturer in chemistry. But now, the number of students in B.Sc. I, II & III collectively are about 1150. Department has its own building having almost all facilities required for undergraduate faculty. The department started research work with funding through various minor research projects sponsored by U. G. C. since 1976.

Dr Subedar Prasad and Dr Akhilesh Prasad have recently joined the department as permanent faculty members. Dr Subedar Prasad is a doctorate from Institute of Medical Sciences, BHU, and has prominent work on chemical investigation of medicinal plants.

He has extracted the medicinal components from Artaboris and discovered its anti itching, anti fungal and baldness preventing properties. Dr Akhilesh Prasad is also a doctorate from BHU and has been awarded **Rajiv Gandhi national fellowship** and **Dr D.S.Kothari Postdoctoral fellowship**. His field of work is **preparation, characterization and electrical conductivities of heterobimetallic complexes of sulfur and nitrogen ligands**. He has published four papers and attended and presented research papers in many conferences. He is adept at handling various sophisticated instruments and computer programmes.

## **2.Student Profile:**

A good percentage of students come from rural section and most of them belong to economically poor and backward segment of the society. Despite these situations the students do very well in their studies and extra curricular activities. Their success rate is more than 65%.. many of our students after completing their course go into academic field, and some also opt for administrative as well as political career.. Many of them are ministers, scientists, administrators etc.

## **3.Change in Courses:**

In 2001 a unified syllabus of UGC has been opted it was further revised in 2004.

## **4. Success rate and dropout rate:**

The success rate in the department is more than 65% dropout rate is a few This dropout rate is due to their family problems.

## **5. Learning Resources of the Department:**

The following resources are available for the students:-

(a)Library- A separate chemistry section for the students is present in the central library having 500 books and a few journals for UGC students.

(b) Laboratory:-There is a well equipped laboratory for UG students equipped with all necessary facilities for all branches of chemistry, one separate laboratory for physical chemistry experiments.

(c) Computer:- At present there is one computer in the department.

### **7.Modern Teaching Methods:**

We organize students' group discussion. We also use slide, models, periodic table for teaching.

### **8. Academic And Personal Counseling:**

Staff members provide academic counseling to the students. Apart from academic counseling, we keep them upgraded regarding different types of pollution in water soil and air. We collect water and soil samples from different parts of the district. We also educate the students about the health and hygiene and we also took help/guidance from Unicef/WHO in this regard.

### **9. Faculty Development Programme:**

The members have completed required number of faculty development programmes. The new incumbents will take up the programmes in due course of time.

### **10.Participation in other academic activities:**

Dr. S. C. Srivastva has been a member of the executive, academic&examination council of the V.B.B.S. Purvanchal Univercity during 2004-2006.

Dr. R.J.Srivastava has been observer and superintendent at various colleges of V.B.S. Purvanchal University Jaunpur and also Proctor at college level.

Dr. S.N. Srivastva has been Proctor at college level.

Sri D. Kumar has been Proctor at college level.

### **11. Collaboration with other Departments and Institution:**

Dr. R.J. Srivastva has collaborated with Dr. D. Chakarborty, Director of School of Environmental Studies, Jadavpur University, Kolkata in Arsenic problem in ground water.

12. Details of ongoing and completed projects:

Completed Projects- Three minor research projects of UGC.

### **13. Publications of the faculty during last five years:**

#### **Dr. R. J. Srivastava**

- (1) Deepanker Chakarborti, Srivastava, R, et al, Ground Water Arsenic Contamination and Arsenocosis Patients in Uttar Pradesh, India School of Environmental studies, Jadavapur University, Kolkata, April **2005**, P 1-21.
- (2) Deepanker Chakarborty, Srivastava R et al. Arsenic ground water contamination and its health effects in the state of Uttar Pradesh in upper and middle Ganga plain, India: A severe danger. Science of the Total Environment. **2006**. 370, 310-322

#### **Dr Akhilesh Prasad**

- 1. Akhilesh Prasad** and Rohit Sinha, 2009, Benzothiazole-2-thiolate bridged heterometallic coordination polymers and their I<sub>2</sub>-doped products- preparation, characterization and conducting properties. **Bulletin of the Chemical Society of JAPAN**, 82, 81-85
- 2. Nanhai Singh and Akhilesh Prasad**, 2008. Synthesis, characterization and conducting properties of complex salts and heterobimetallic coordination polymers with mixed N,S donor ligands. Indian Journal Of Chemistry, Sect. A 47A, 650-656

**3. Akhilesh Prasad** and Rohit Sinha 2006. Synthesis, characterization and conducting properties of complex salts and heterobimetallic coordination polymers of the cyanodithioimidocarbonate ligand. Inorg. Chem. Commun. 9, 1058-1062

**4. Nanhai Singh , Akhilesh Prasad**, Sunita Gupta, 2005 Synthesis and characterization of a complex salt and heterobimetallic coordination polymers of 1-benzoyl-1-cyanoethylene-2,2-dithiolate. Transition Met. Chem., 30, 383-385

### **Dr Subedar Prasad**

**14. Participation in extension activities: N/A**

**15. Methods of student assessment:**

Regular students are assessed in theory, practical and viva by regular interaction.

**16. Placement record of past student:**

See appendix-2.

**17. Significant Achievements of the Department in the past five years:**

Our department has helped in mitigation of Arsenic in ground water.

**18. Plan of the action of the department in next five years:**

Teaching: We plan to improve our UG department and in future to open P.G. and Industrial chemistry department.

Research: We plan to establish a well equipped laboratory for analysis of the water keeping in view that the most part of the Ballia district ground water is contaminated with the collaboration of UP Jal Nigam and Unicef units.

**19. Any other highlights:**

Our department is highly devoted to provide quality education to the students and educate them to become interested in chemistry education, research and in chemical industries.

