

# **Research Topics**

## **Department of History**

### **Kumar Sanjay Singh:**

1. Interdisciplinary Study, interface between history and anthropology to study tribal communities in contemporary India.
2. Post-Independence history 1945 – 1980s.
3. History of ideas.

### **Devendra Kumar**

1. African Diaspora in Deccan in medieval period.
2. Political Culture in medieval deccan.
3. Sources of legitimacy in India – 14<sup>th</sup> c. to 18<sup>th</sup> c. (Bhakti Period).  
Like- Kabar, Dadu Dyal, Sikh's, Radas, Nandav.

### **Shalabh Chikara**

1. Peasant movement in Indian National Movement.
2. Communalism and Partition of the Indian sub-continent.

### **Ajay Singh**

1. Position of Dalits in Modern India after 1947.
2. Anti Colonial Resistance and Modern Politics in Colonial India (1757-1857).
3. Communalism in Modern India a casual analysis (1905-1947).
4. Dr. B.R. Ambedkar's contribution of Modern Socio-economic thought and his place in history.
5. Role of Aligarh Muslim University in the partition of India.
6. The development of the idea of freedom in Modern India with special reference to socio political thought of Aurbindo from 1885-1907.
7. The future of India in the vision of Swami Vivekananda.

### **Umesh Kumar**

1. A Historical study of the impact of Vedic Education on Modern Education.
2. The Sawasvat River System: A revisit with new data and interpretation.
3. Sarthwah in Ancient Indian History: A Analytical Study.10<sup>th</sup> Mandal of Rigveda – A mirror understanding one social change during the vedic period.
4. The Matsya Purana – A key guide to understanding ancient Indian cosmology and Brahmanic religious values.

### **Sadhana Kushwaha**

1. मध्यकालीन भारत में सूचना के स्रोत
2. सिंध के द्वारा अरब पर विजय
3. मुग़ल आक्रमण के बाद भारत की स्थिति
4. मोहम्मद गजनी का उँथान और पतन
5. मोहम्मद गौरी की विस्तारवादी नीति
6. भारत पर मंगोल आक्रमण
7. दिल्ली सल्तनत का पतन
8. बहमनी साम्राज्य
9. विजयनगर साम्राज्य
10. मध्यकालीन : सामाजिक, आर्थिक और सांस्कृतिक इतिहास

### **Dr. L.B. Swarankar**

1. A history of urban settlements of Delhi from origins to 20<sup>th</sup> century.

### **Dr. Suraj Yadav**

1. An essay on: Rise of Communism and Nationalism; The formation of Communist party of China (CPC). The united front, the kiangsi soviet and the CPC's role in the war with Japan and the Chinese Revolution.
2. Communist Movement in China 1921-49, Formation of the communist party of China (CPC) united front, Kiangsi Soviet Experience, CPC and the war with Japan, The Chinese Revolution.
3. Imperialism and Foreign Influence: The opium wars, the treaty port system and China's system and China's response to western imperialism.
4. Rebellions, Reforms and Revolution.
5. Taiping uprising, Boxer repelling movement days, Reform, Political the Chinese revolution of 1911
6. Post WW1 Japan: The rise of political parties, the growth of militarism and Japanese Imperialism leading up to World War 2.
7. Japan: Transition to Modernization: Decline of feudalism and the Meiji Restoration Modernization in Japan.
8. A short History of University of Delhi: Establishment in 1922 and journey to its centenary in 2022.

**Manish Sharma**

1. Social Reforms the question of women.
2. History of Marriage Reform debates.
3. Rise of Indian Nationalism Gandhi.
4. Indian National Movement, partition.

**Ranjan Kumar**

1. Oral Narratives and History.
2. Vernacular Literature as a document of Past.
3. Religious performances and History.
4. Narratives and Religious Past.

**Dr. Vedpal Rana**

1. Modern History
  - Social History
  - Educational History
  - Political History
  - Economic History
  - Art and Architecture
2. Other Topics
  - History of Delhi
  - History of Punjab
  - History of Haryana

**Dr. Aditi Govil**

1. Religious parties in early medieval and medieval Kashmir.
2. Religious literature of Bhakti Movement.
3. Textiles during Medieval India – Technology, designs and materials.
4. Gender history during medieval India.
5. Agrarian Society and Rural Culture in Pre-colonial India.

## Department of Commerce

S.no	Name	Area of specialization
1	Dr. Ashutosh Jha	Finance
2	Dr. Om Dutt	Accounting and Finance
3	Dr. M.P Singh	Income Tax
4	Mr. K.K Joshi	Panch Kosh Vidya & Stress Management
5	Dr. Samir	Banking
6	Dr. Mohar Singh	Accounting
7	Dr. Surabhi Singhal	OB and HRM
8	Dr. Renu Sobti	Marketing
9	Dr. Ramesh Kumar	Finance
10	Dr. Aradhana Chadha Sachdeva	HRM
11	Dr. Chanchal	Marketing
12	Dr. Rekha Gupta	Finance
13	Ms. Priya Harjai	Finance
14	Mr. Vikram	Marketing & Finance
15	Mr. Riyaz Ali	Finance & Taxation
16	Dr. Deepak	OB & HRM
17	Mr. Ritu	HRM & Marketing
18	Dr. Rakesh Kumar	HRM & Marketing
19	Dr. Priyanka Bhardwaj	HRM & Marketing
20	Dr. Anoop Kumar	Finance
21	Ms. Mansi Kapoor	Marketing
22	Ms. Mansi Babbar	HRM
23	Dr. L.R Paliwal	Accounting & Taxation
24	Dr. Raja Bhoj Sharma	Taxation Corporate Governance And Accounting
25	Mr. Manish Kumar Dubey	Marketing & Finance
26	Mrs. Sudhanshu Bansal	Marketing
27	Dr. Aishvarya Bansal	Marketing (Consumer Behaviour)
28	Dr. R.N Srivastava	Business Economics
29	Ms. Purva Mittal	Marketing
30	Mr. Pankaj Singh	Finance
31	Ms. Gayatri Meena	Finance
32	Dr. Deepak	Marketing Resource
33	Dr. D.R Jalwani	Cost Accounting

# हिंदी विभाग

## प्रोफेसर प्रदीप कुमार

1. आदिकालीन
2. मध्यकालीन
3. आधुनिक काल
4. नाट्य साहित्य
5. रंगमंच
6. कथा साहित्य
7. पाश्चात्य काव्यशास्त्र
8. भारतीय काव्यशास्त्र
9. आधुनिक कविता
10. दलित साहित्य
11. अशिमता विमर्श

डॉ. टेक चंद

1. आधुनिक कविता
2. कहानी
3. आलोचना
4. अशिमतावादी विमर्श तथा साहित्य

डॉ. अनिल कुमार

1. आदिकाल
2. मध्यकाल
3. अशिमता विमर्श
4. बाल साहित्य

डॉ सुधांशु कुमार

1. कथा साहित्य
2. नाटक

डॉ. नितिन मिश्रा

1. प्रवासी साहित्य
2. काव्यशास्त्रः भारतीय एवं पाश्चात्य
3. हिंदी साहित्य का इतिहास

डॉ उमा शंकर चौधरी

1. हिंदी साहित्य का इतिहास
2. पाश्चात्य काव्यशास्त्र
3. दलित विमर्श

डॉ प्रतिभा राणा

1. नाटक एवं रंगमंच

DR GOPAL LAL MEENA

1. हिंदी पत्रकारिता
2. हिंदी पत्रकारिता और जनसंचार
3. कथा साहित्य
4. दलित और आदिवासी विषय

शीतल प्रसाद

1. मध्यकालीन साहित्य
2. मध्यकालीन इतिहास
3. मध्यकालीन कविता

## कमलेश सरीन

1. कथा साहित्य
2. हिंदी पत्रकारिता और जनसंचार

## डॉ ऐश्वर्या झा

1. हिंदी नाटक एवं रंगमंच
2. हिंदी भाषा, सिनेमा मीडिया विमर्श
3. हिंदी साहित्य का इतिहास

## डॉ प्रवीण

1. कथा साहित्य
2. अशिमतावादी विमर्श
3. लोक साहित्य
4. जन संचार एवं पत्रकारिता

## DEPARTMENT OF ENVIRONMENT SCIENCE

1. Dr. Rohit Kumar Choudhary, TIC

Research area: Environmental heat stress, human health, Sustainable cities, Urban heat island. Climate data analysis

2. Dr. Abhishek Chandra

Research Interest on ecological and environmental sciences, with a strong focus on sustainable agriculture, biodiversity conservation, climate change impacts, and resource management, especially within the context of the Himalayan region.

3. Dr. Neetu Sharma

Research Area: Pollution control and Management

Specialization: Adsorption of dyes and heavy metal, Bioaccumulation (Pesticide Analysis), Climate change resilience via Carbon sequestration.

## **Department of Mathematics**

1. Prof. Ravi Kumar Srivastava- Fuzzy Algebra
2. Ms. Rajinder Kaur- Functional Analysis
3. Dr. Seema Bansal- Differential equations
4. Mr. Meghpal- Fuzzy in soft computing, Artificial Neural Network
5. Dr. Deepika - Realibility Theory
6. Ms. Neha Ahuja - Graph Theory

## **Dept. of Computer Science**

1. Prof. Meera Sharma- Empirical software engineering and Machine learning.
2. Ms. Mehak Data Mining and Data Analysis
3. Dr. Shveta kundra Bhatia Data Mining, Web Usage Mining, Recommender systems.

## **Dept. Of Physics**

- **Prof. Vinod Prasad** Theoretical atomic and molecular physics, theoretical condensed matter physics, Physics education, NATURE OF SCIENCE
- **Dr. Babu Lal** Spectroscopy
- **Prof. Namrata** 1. Experimental high energy physics 2. Batteries
- **Prof. Mukesh Rana** Energy, Environment and computational science Details available at <http://mukeshrana.in>
- **Prof. Ruby Gupta** Plasma Physics, Nano Material Science and technology
- **Ashish Tyagi** Atomic and Molecular Physics
- **Dr. Shiva Upadhyay** Nano Material Science and technology
- **Brijender Dahiya** Quantum Information, Quantum systems & heterostructures
- **Kavinder Kumar** Quantum Computing, Nanotechnology
- **Dr. Luvdeep Sahota** Solar thermal physics and nanotechnology
- **Dr. Shobhit Giri** Theoretical Astrophysics
- **Dr. Pawan Kumar** Condensed matter physics
- **Aanchal Jain** Electromagnetic radiations or speech technology
- **Dr. Rakesh Kumar** Solid state devices and circuits.

**DEPARTMENT OF CHEMISTRY**

NAME	SPECILISATION	AREA OF RESEARCH INTEREST
DR PRADEEP PRATAP SINGH	ORGANIC CHEMISTRY	Paradigms of Green Chemistry, Ionic liquids and it's applications, Naturals cosmeticals, Natural antioxidants, Green nanotechnology, Catalysis, Micellar Kinetics
DR SARASWATI	ORGANIC CHEMISTRY	Green Chemistry i.e Dry media, Solid Supported, Microwave &ultrasonic induced reactions, Synthetic reactions of Quinones & Coumarins, Analysis of water, Sustainable mushroom cultivation their analysis & application in Bio-remediation
DR SUMAN YADAV	PHYSICAL	Anticorrosive and anti pollutants paint
DR SEEMA	PHYSICAL	Spectroscopic study of biomolecules (A case study of antioxidant biomolecules)
DR CHHAGAN LAL	PHYSICAL	Photogalvanic solar cell (Dye, reductant and surfactant based)
DR CHANDER SHEKHAR	ORGANIC CHEMISTRY	Major and Trace elements in biodiversity of Plants, Plant biogeochemistry, conservation and biodiversity management
AMAR SINGH MEENA	ORGANIC CHEMISTRY	Photocatalytic degradation of organic pollutants using metal oxides nanoparticles in water
DR NISHANT VERMA	ORGANIC CHEMISTRY	Total synthesis, Synthesis by Organocatalyst, Molecular machine, Green Chemistry, Theoretical Calculations, Flavonoids chemistry, Biomedical Imaging
DR GOBIND JI RAI	PHYSICAL	Theoretical modelling and computational study of highly branched polymers for drug delivery
DR AANCHAL SETHI	INORGANIC	Materials chemistry & catalysis
DR NARBIR SINGH	INORGANIC	Energy Storage devices, Supercapacitors
DR MUKESH VERMA	PHYSICAL	Solid State Chemistry and Materials Science
DR PARTIBHA	PHYSICAL	Studies of Thermophysical properties of binary and ternary liquids
DR BHOLEY	PHYSICAL	Metal Complexes and their biological applications
DR MUKESH KASHYAP	INORGANIC	Synthesis of Schiff base complexes, Fluorescence, Catalytic activity, theoretical calculations
DR PAWAN KUMAR	ORGANIC CHEMISTRY	Organic Synthesis, Photo catalytic Organic Synthesis, Electrochemical Organic synthesis and Continous Flow Synthesis
KAMAL KAUSHIK	ORGANIC CHEMISTRY	Synthesis of amphiphilic nanocarriers

## **Department of Microbiology**

### **Prof. A. Archana**

1. Studies on Human Microbiome.
2. Isolation, characterisation and applications of hydro lytic enzymes isolated from microbes of usual and unusual habitats.
3. Whole cell immobilisation using various methods.

### **Dr. Lakshna Mahajan**

1. Study of environmental samples for antibiotic resistance.
2. Study of environmental isolates for promoting plant growth and bioremediation.

### **Dr. Sanjay Kumar Gupta**

1. Isolation and screening of microorganisms for the production of polyketides.
2. Characterization of prepared probiotic for gut microbes.

### **Dr. Bhupender Kumar**

1. Secondary data analysis of microbes associated human health conditions and diseases.
2. Isolation and Identification of different biomolecules secreting microbes from geographical locations.

### **Dr. Sweta Yadav**

1. Isolation and Characterization of Plastic-Degrading Microorganisms from Soil samples.
2. Production of Cellulase from Agricultural Waste Using Fungal Isolates.
3. Screening and Characterization of Lipase-Producing Microorganisms for Industrial use.

**The domain subjects offered by the faculty members of Department of English for research:**

1. Prof. Saroj Bala: Feminism, Eco-feminism, Gender Studies
2. Prof. Kuhu Sharma Chanana: Queer Studies, Spatial Studies, Transgender Studies and Cinema, Animal Critical Studies
3. Dr. Provakar Palaka: Dalit Literature, Autobiography, Post-colonial Literature, Indian Literature
4. Dr. Pankaj Kumar: Folk Theatre, Indian Diaspora, Modern European Drama
5. Dr. Bijay Kumar Padhan: Folklore Studies, Performance Studies
6. Dr. Naresh Shokeen: Social Media in Literary Discourse
7. Dr. Jyoti Laxmi Kashyap: Indian Aesthetics, Spatial Studies, Rasa, Dhvani, Ecocriticism, Indian Knowledge System
8. Dr. Chetna Sharma: Androcentrism in British Literature, American Literature, Victorian Literature, Indian English Literature
9. Dr. Vipan Kumar: African American Literature, African Literature, Post-colonial Writings, Victorian Literature, Indian Writings in English
10. Mr. Vijay Kumar: Indian Aesthetics, Indian Writings in English
11. Mr. Deepak Hathwala: Indian Knowledge System
12. Dr. Yamini Malhotra: Indian English Literature, Indian writings in English Translation
- 13. Dr. Ruchika Gulati:** Translation Studies, Modernism, Postmodernism, Literary Theory and Criticism, Poetry and Aesthetics, Punjabi Poetry in Translation

## DEPARTMENT OF GEOGRAPHY

Department of Geography  
Broad area of Research

⇒ Prof. Daljit Singh

1. Agriculture Geography
2. Urban & Regional Development issues
3. Application of GIS in the above areas.

⇒ Prof. Jagbir Singh

1. Disaster Management

⇒ Prof. Preeti Sachar

1. Sustainable Agriculture
2. Environmental Sustainability
3. Water Resource Management

⇒ Prof. Ushvinder Kaur

1. Population & demographic studies
2. Disaster related studies and their management.

⇒ Prof. Kisan Dabas

1. Urban Water Resource Management.

⇒ Prof. Anjali Yadav

1. Tourism and its impact
2. Urbanisation and its effects
3. Sustainable Livelihoods - Rural & Urban.
4. Natural Resource Management

⇒ Dr Avijit Mahala

1. Climate Change & Modelling
2. Soil & Land Degradation & Management
3. Environmental Hazards & Environmental Modelling
4. Remote Sensing & GIS
5. Land Use Management & Monitoring

## DEPARMENT OF BOTANY

Broad Research Area

1. **PROF. MADHULIKA SINGH** Topic: Microbial Biotechnology, Abiotic Stress Management
2. **PROF. BHOOPANDER GIRI** Topic: Microbial Technology and Plant Stress Physiology
3. **DR. AMIT VASHISHTHA** Topic: Molecular Identification and phylogeny of endosymbionts in pest insects OR Role of key regulators/genes to improve NUE in rice
4. **DR. ANIL KUMAR** Topic: Taxonomic and ecological studies of plants of the arid and semiarid region especially flowering plants including grasses and sedges.
5. **DR. SHIBAJI BAGHAR** Topic: Forest Ecology and Management, Anthropogenic disturbance and post disturbance recovery, Ecological Dimensions of land use/cover in Himalayan region.
6. **DR. BHAWNA SAXENA** Topic: Biotic and abiotic stress management in plants
7. **DR. ISHA GUNWAL** Topic: Arbuscular Mycorrhizal fungi and Environmental management
8. **DR. NARENDRA SHARMA** Topic: Molecular Identification and phylogeny of endosymbionts in pest insects OR Role of key regulators/genes to improve NUE in rice
9. **DR. EKTA SINGH** Topic: Microbial Diversity and identification
10. **DR. PRADEEP KUMAR** Topic: Nanobiotechnology and Phytochemistry

## DEPARTMENT OF ECONOMICS

1. <b>DR ARUNA SHOKEEN</b>	PUBLIC DISTRIBUTION SYSTEM
2. <b>DR ANJALI SAINI</b>	BANKING
3. <b>DR JOGENDER SINGH</b>	PUBLIC FINANCE & POLICIES
4. <b>JEETENDRA KUMAR PANDEY</b>	SME CASE STUDIES, REAL ESTATE IN INDIA
5. <b>DR RACHNA SINGH</b>	FOREIGN TRADE POLICY IN INDIA
6. <b>T P SINHA</b>	BLACK INCOME OF INDIA