

	<h2>P11: KUMAUN UNIVERSITY</h2> <p>Nainital, Uttarakhand, India</p>
	<p><i>Departments concerned with SUNRAISE-related topics:</i></p> <ul style="list-style-type: none"> - Department of Geology - Department of Botany - Department of Forestry and Environmental Sciences
	<p><i>Contact person:</i> Prof. Dr. Prakash C. Tiwari (pctiwari@yahoo.com)</p>

SUNRAISE-RELEVANT RESEARCH TOPICS

1. Sustainable natural resource management in Himalayan mountains

KEY PERSONALITIES, POTENTIAL MASTER'S AND DOCTORAL SUPERVISORS

- Prof. Dr. Prakash C. Tiwari – *Research interests: Natural resource management; High mountain urbanisation; Climate change adaptation*
- Prof. Dr. J. S. Rawat – *Research interests: Mountain geo-hydrology; Water resource management; Climate change adaptation*
- Prof. Dr. B. S. Kotalia – *Research interests: Mountain geo-hydrology; Water resource management; Climate change*

CURRENT AND PAST PROJECTS

Project 1: “Joint Indo-Norwegian research and education on water-related changes in Himalaya”	Funded by: Norwegian Centre for International Cooperation in Education (SIU), Norway	Project type: research, education
	Keywords: Water management; Students participation; Joint fieldwork	
Project 2: “Urban Growth, Land-Use Change, and Growing Vulnerability in the Greater Himalaya Mountain Range Across India, Nepal, and Bhutan”	Funded by: National Aeronautics and Space Administration (NASA), USA	Project type: research
	Keywords: Land use changes; Urbanisation; Hazards; Remote sensing	

Project 3: “Pluri-scalar Approaches for Co-production of Pan-Asian Drought Assessment and Adaptive Resource Management in Uttarakhand Himalaya, in Collaboration with Newcastle University, U.K.”	<i>Funded by:</i> U.K. Royal Society, U.K.	<i>Project type:</i> research
	<i>Keywords:</i> Drought; Climate change; Drought assessment; Water resource management	

Project 4: “Development of an Evidence-Based Climate Change Adaptation Toolkit to Help Improve Community Resilience to Climate Change Impacts in Uttarakhand, India”	<i>Funded by:</i> Asia Pacific Network for Global Change Research (APN), Kobe, Japan	<i>Project type:</i> research
	<i>Keywords:</i> Climatic extremes; Climate change adaptation; Vulnerability and risk assessment	

CURRENT AND RECENT PhD THESES

- Arifa Begum “A Geographical Study of Urban Growth and Quality of Life in the Himalayan Foothills of Kumaun” (2018 – ongoing)
- Dheeraj Pant “Climate Change and its Impact on Community Health in Betalghat Development Block, Kumaon Lesser Himalaya” (2017 – ongoing)
- Kevala Nand “Impact of Climate Change on Water Resources in Kujgad Watershed, Kumaun Himalaya” (2017 – ongoing)
- Manika Kweera “Sustainable Urban Development under Climate Change in the Lake Region of District Nainital, Uttarakhand” (2020 – ongoing)
- Manisha Pant “Climate Change and its Impact on Human Health in Mountainous and Foothill Regions of District Nainital, Uttarakhand” (2018 – ongoing)
- Mohan Singh “Impacts of Climate Change on Agriculture, Food Security and Rural Health in Balia Catchment, Kumaon Himalaya” (submitted) (2014 – 2020)
- Pooja Nainwal “Women's Perception, Responses and Adaptation to Climate Change in Ramgad Watershed, Kumaun Himalaya, Uttarakhand” (2018 – ongoing)
- Rahul Kumar “Impact of Climate Changes on Farming System and Food Security in Kujgad Watershed, Kumaon Himalaya” (2020 – ongoing)
- Ritika Vishnoi “Changes in Rainfall Pattern and its Impact on Food Security status in Ramgad Catchment of Kumaun Himalaya: A Community based Adaptation Strategy” (2013 – 2021)
- Vaseem Ahmad “Impact of Climate Change on Water Resources: A Case Study of Balia Catchment, District Nainital, Uttarakhand” (2017 – ongoing)

RESEARCH AMBITIONS IN RELATION TO SUNRAISE

1.	Development of further research activities in globally and locally high priority areas
2.	Moving ahead in education in globally and locally high priority areas

ENABLERS AND BARRIERS ENCOUNTERED FOR RESEARCH DEVELOPMENT

Enablers	Barriers
<ul style="list-style-type: none"> ➤ Internationally reputed, highly experienced, hardworking faculty ➤ Location of the University in the heart of Himalaya 	<ul style="list-style-type: none"> ➤ Shortage of financial resources ➤ Shortage of infrastructure ➤ Shortage of equipment

NATIONAL RESEARCH/ POLICY SUPPORTING RESEARCH DEVELOPMENT

1.	National Jal Jeevan Mission (National Water Mission)
2.	National Climate Change Action Plan
3.	National Mission on Sustaining Himalayan Ecosystem
4.	National Mission for the Himalayan Studies

CAPABILITY IMPROVEMENT TARGETED TO FULFIL THE ASPIRED RESEARCH GOALS

Improvements are desired in:

- Equipment
- Training for academic staff
- Access to international databases
- External experts support or PhD supervision
- Access to modern information technology and library resources

ENABLERS AND BARRIERS ENCOUNTERED FOR RESEARCH TRAINING

Enablers	Barriers
<ul style="list-style-type: none"> ➤ Internationally reputed, highly experienced, hardworking faculty ➤ Location of the University in the heart of Himalaya 	<ul style="list-style-type: none"> ➤ Shortage of financial resources ➤ Shortage of infrastructure ➤ Shortage of equipment