

### Research Projects Sanctioned to the Vishwavidyalaya (2009-14)

Name of Faculty	Name of Department	Year	Title of the Project	Name of PI /Co PI	Name of Funding Agency	Funds approved (Rs.)
Science	Physics	2010-11	Development and Characterization of Chalcogenide Based Phase Change Material Application to Optical Memories	Dr. Pawan Kumar & Dr. L.P.Purohit	UGC, New Delhi	5,66,000/-
		2012-13	Synthesis and Characterization of CdS <sub>x</sub> Se <sub>1-x</sub> Semiconductors Based thin Films for optoelectronic applications	Dr. Pawan Kumar	Instrument Research & Development Establishment (IRDE),	9,98,000/-

				Dehradun (U.K.)		
		2012-13	Kinematics of geodesic flows in space times of general relativity and other alternative theories of gravity	Dr. Hemwati Nandan	Department of Science and Technology (DST), Government of India	10,32,000/-
	Chemistry	2011-12	Phytochemical Screening of litchi chinensis and cassia fistula of Haridwar and Dehradun Region	Dr.R. K.Shukla	UGC	1,40,000/-
Life Science	Zoology & Environment Science	2009-10	Acoustic communication in Indian Chat <i>Cercomela fusca</i> and Pied Bush Chat <i>Saxicola caprata</i> : Characterization and behavioural correlates of songs and calls.	Prof. Dinesh Bhatt	DST, Govt. of India	21,35,553
		2009-10	Population dynamics of Coccinelids in the fruit orchards of Kumaun region and their potential to control the pests	Prof. P. C. Joshi	University Grants Commission, New Delhi	5,68,700/-
		2009-10	Population dynamics of Himalayan mahseer ( <i>Tor putitora</i> ) in Yamuna river at Uttarakhand	Prof.	Unive	9,21,

0 0 9 - 1 0		D.S. Malik	rsity Grants Commission, New Delhi	330/-
2 0 0 9 - 1 0	A Modeling approach to assess the current status of water quality of River Ganga and its effect on aquatic biodiversity”	Dr. R. Bhutiani	Unive rsity Grants Comm ission, New Delhi	11,94,249/-
2 0 1 0 - 1 1	Species diversity of aboveground insects and identification of economically important species vis a vis their role in sustaining a forest ecosystem	Prof P.C.Joshi	G B Pant Institute of Himalayan Env. And Development, Kosi, Almor a	7,66,800/
2 0 1 2 - 1 3	One Time grant-UGC BSR, New Delhi for facilitating ongoing research activities	Prof. A.K. Chopra	UGC	7,00,000/-
2 0 1 2	Impact of industrial growth on water and soil quality and its health risk assessment with special reference to heavy metal contamination’	Prof. A.K. Chopra	DST, Govt. of India	20,00,000/-

	- 1 3			
	2 0 1 2 - 1 3	Song repertoire size of Pied Bush Chat: Correlation with mating status, mate choice, breeding success and recognition ability.	Dr. R. K. Negi	DST, Govt. of India 20,44,400/-
	2 0 1 2 - 1 3	Genetic diversity between two populations of genus <i>Schistura</i> (McClelland) using RAPD markers	Dr. R. K. Negi	UGC, New Delhi 9,34,800/-
	2 0 1 2 - 1 3	Ecological Assessment analysis of River Yamuna using the application of statistics and modeling	Dr. Gagan Matta	UGC, New Delhi 6,00,000/-
	2 0 1 2 - 1 3	Isolation, Identification and Characterization of spore forming PGPR ( <i>Bacillus</i> and <i>Paenibacillus</i> ) from Himayalayan Soil and their Application in agricultural Crop.	D.K. Maheshwari	UCOS T, Govt of Uttarakhand 7,18,800/-
Oriental Studies	Shraddhanand Vedic Shodhan Sansthan 2 0 0 9 - 1 0	ऋग्भाष्यपदार्थकोषः	Prof. Gyan Prakash Shastri	UGC, New Delhi 5,18,000/-

Shra dhan and Vedi c Shod hSan sthan	2 0 1 1 - 1 2	गुरुकुल काँगड़ी स्नातक वेदभाष्य कोश	Prof. Satya Dev Nigma lankar	UGC, New Delhi	10,3 5,00 0/-
Shra dhan and Vedi c Shod hSan sthan	2 0 1 3 - 1 4	egllkjr&inku@e&dksk%	Prof. GyanP rakash Shastri	x#dyd kxMfo'o fo ky;] gfj}kj	6,50, 000/-
Veda	2 0 0 9 - 1 0	GCeeefoJe=efEeiele-efve@eqkellekeAes<eë	Prof. Roop Kishor Shastri	UGC, New Delhi	5,78, 000/-
Hist ory	2 0 1 3 - 1 4	The Archaeological Exploration of Solani river and its catchment area	Prof. Deven dra Kr. Gupta / Dilip Kr. Kush waha	GKV and licens e given by ASI, Minist ry of HRD, Govt. of India	50,0 00/-
Fac ulty Of	DM S 0 1	e- Patshala	Prof.S. K.Sin gh	UGC( Strate gic	7,00, 000/-

Ma nag eme nt Stu dies		1 - 1 2		(P.I.) Prof.V .K.Sin gh (Co- P.I.)	Mana gemen t Cours e Coord inator)	
	DM S	2 0 1 3 - 1 4	Work Culture education-A Comparative study of the impact of work culture on faculty members in selected institutions on Uttrakhand.	Prof. V.K.Si ngh	ICSS R	2,50, 000/-
FET	Phys ics	2 0 1 3 - 1 4	1-3(Where Re=La, Pr, Nd etc. and A=Ca,Sr,Ba etc.) EXHIBITING COLOSSAL MAGNETORESISTANCE PHENOMENA”	Dr. Sunil Panwa r/	UGC, New Delhi	8,11, 800/-
<b>Total funds allotted</b>						<b>1,86, 94, 732/ -</b>

### Details of the support from any other organisation (2009-14)

Name of Faculty	Name of Department	Details of the support from any other organisation (2009-14):
Oriental Studies	Department of Human consciousness & Yogic Science	The Naturopathy Centre, Parmarth Niketan, Rishikesh has been extending free support for providing practical naturopathy training every year to the PG students of this department as internship.
		Mirtyunjay Mission, Vaidic Ayurvedigyan Pratisthan, Kankhal Haridwar has been extending free support in providing practical training cum workshop of Marma Therapy every year to the PG students of this department
Faculty of Life Science	Zoology and Environmental Science	The Department got a Special Grant of Rs. 20 lakhs from UGC, New Delhi for infrastructural development.
Kanya Gurukul Campus, Dehradun	Management Studies	Aid of Rupees One Lakh thirty five thousand seventy only (Rs.1,35,070/-) for organizing Workshop on “ <i>Women Entrepreneurship Development</i> ”, in Department of Management Studies, Kanya Gurukul, Dehradun,(Ind Campus, Gurukul Kangri Vishwavidyalaya, Haridwar) sponsored by National Research Development Corporation (An Enterprise of DSIR, Ministry of Science and Technology, Government of India) on 22 <sup>nd</sup> February,2012.

## RESEARCH PROJECTS (2005 -2010)

### i) Main Campus

Name of the Department	a) Number of Research work done/ project under taken			b) Details of research funding received, if received from external sources		
	S.No.	Name of the Project	PI & Co-PI	Funding agency	Amount (In Rs.)	Duration
Botany and Microbiology	1.	Role of microbial consortium and N, P, K & S on control of fusarial wilt in <i>Cajanus cajan</i> and <i>Cicer arietinum</i> and improvement of protein quality and yield.	D.K. Maheshwari/ R.C. Dubey	CSIR	16,00,000/-	2004-2006
	2.	Role of Plant growth promoting Rhizobacteria in enhancement of productivity of certain medicinal plants of Uttaranchal.	D.K. Maheshwari/ R.C. Dubey	UCOST (UK)	9,00,000/-	2006-2010
	3.	Isolation, Identification, characterization of some Rhizobia and their evaluation in the management of soil borne Plant Pathogens	D.K. Maheshwari	UGC, GOI	10,12,800/-	2008-2011
	4.	Diversity of Rhizobial Population associated with certain crop legumes cultivated at high altitudes in Himalaya, Uttarakhand.	D.K. Maheshwari	CSIR	15,72,000/-	2008-2011
Dept. of Physics	1.	Development and Characterisation of N-type Amorphous Chalcogenide Semiconductors to be used in low cost p-n junction devices	Prof. Rajendra Kumar (P.I.) Prof. R.M. Mehra (COPI)	UGC, New Delhi	4,57,060/-	Three Years w.e.f. 1-5-2003



	2.	Development and Characterisation of Chalcogenide based phase change materials applicable to Optical Memories	Dr. Pawan Kumar (P.I.) Dr. L.P.Purohit (Co-P.I.) Prof. Rajendra Kumar (Co-P.I.)	UGC New Delhi	5,66,000/-	Three Years w.e.f. 1-02-2010
<b>Dept. of Shraddhanand Vedic Shodh Sansthan</b>	1.	Rigveda Padarth-Kosh (Skandath Dyanandaparyantam )		University Grants Commission	51,800/-	3 Years
<b>Dept. of Chemistry</b>	No projects taken after 2005. Only the department applied for FIST grant (DST programme) and got Rs. 22 lacs. The duration of the FIST grant was upto the year 2008.					
<b>Dept. of Environmental Science</b>	1.	Acoustic communication in Indian Chat <i>Cercomola fusca</i> and Pied Bhust Chat <i>Saxicola caprata</i> : Characterization and behavioural correlates of songs and calls.	Dr. Dinesh Bhatt (PI)	DST	19,50,000/-	2007-2010
	2.	Impact of automobile pollution on vegetation around Hardwar	Dr. P. C. Joshi	University Grants Commission, New Delhi	4,91,000/-	2005-2008
	3.	Diversity of insect pollinators in the apple, pears, peach and citrus orchards of Mukteshwar area of district Nainital.	Dr. P. C. Joshi	Uttarakhand Council of Science and Technology. Dehradun	7,00,000/-	2007-2009
	4.	Population dynamics of Coccinelids in the fruit orchards of Kumaun region and their potential to control the pests	Dr. P. C. Joshi	University Grants Commission, New Delhi	6,00,000/-	2009-2012
	5.	Species diversity of aboveground insects and identification of economically important species vis a vis their role in sustaining a forest ecosystem	Dr. P. C. Joshi	G B Pant Institute of Himalayan Env. And Development, Kosi, Almora	7,89,000/-	2010-2013

	6.	Impact of habitat degradation on aquatic biodiversity of river Ganga – Financed by UGC New Delhi (2000-2002)	Dr. D. S. Malik		15,000/-	Two year
	7.	Population dynamics of Himalayan mahseer ( <i>Tor putitora</i> ) in Yamuna river at Uttarakhand.– Financed by UGC New Delhi (2009-2011)	Dr. D. S. Malik		7,06,800/-	Three Year (In progress)
<b>Dept. of Veda</b>	1.	GCeeefoJe=efEe-efve@eqkellekeÀes<eë	[e@0 <sup>a</sup> He <sup>3</sup> et0peer0meer0efkeÀMeesjMee%oer		4,77,000/-	3 Je<e&
	2.	Vedic yajna-samagri formulation, characteristic and its antimicrobial effects.	[e@0efovesMe®evêMee%oer		15, 000/-	2 Je<e&

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**ii) Kanya Gurukula Mahavidyalaya, Haridwar**

Name of the Department	a) Number of Research work done/ project under taken			b) Details of research funding received, if received from external sources		
	S.No.	Name of the Project	PI & Co-PI	Funding agency	Amount	Duration
Dept. of Environmental Science	01	An Ecobiological Study On Earthworms In Subtropical Forest Ecosystem In Uttaranchal.	Dr. Namita Joshi	UGC	7,14,000/-	April 2007 to 2010

Error, if any, with subject to rectification