



## Faculty Profile

1. Name: DR. VIBHA KHANNA
2. Designation: ASSOCIATE PROFESSOR
3. Department: BOTANY
4. Educational Qualification:



Level	Name of University/Board	Year	Title/ Remark/ Medal
<i>P.G.- M.Sc (Botany)</i>	MDSU AJMER	1993	Topper of PG Botany. Government (Autonomous) College Ajmer./ Recipient of M. Ratnam Medal
<i>M.Sc (Computer Science)</i>	MDU ROHTAK	2005	Through correspondence
<i>M.Phil.</i>	-	-	-
<i>Ph.D.</i>	MDSU AJMER	2000	Eco-physiological studies of Genus <i>Cheilanthes</i> Swartz. In Rajasthan.
<i>Other: B.Ed.</i>	MDSU AJMER	1994	
<i>CIC</i>	IGNOU	2001	

### 5. Experience: Teaching / Research

UG	26 Years	PG	24 Years	Research	22 Years
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### 6. Membership (Academic Bodies/ Research societies):

- I. Life Member: Indian Science Congress Association {L- 11045}
- II. Life Member: Indian Botanical Society
- III. Life Member: Indian Fern Society



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7. M.O.O.C (Developed by Faculty):

8. Awards Received:

9. Academic Courses Attended:

Course	Place	Sponsoring Agency	Duration
Orientation Course	-	-	-
Refresher Course 1) Environmental Studies.	MDSU, Ajmer.	UGC	21 Days
2) Botany	MDSU, Ajmer	UGC	21 Days
3) Biotechnology.	University of Rajasthan, Jaipur	UGC	21 Days
Other (Workshop/ Summer School/ Camp etc.)			
1) 2000, July 28 <sup>th</sup> -30 <sup>th</sup> . Workshop on Script Writing For Scientific Films.	Dayanand College, Ajmer.	University Grant Commission, New Delhi.	2 Days
1) 2) 2000, November 14 <sup>th</sup> . Workshop on review of Secondary and Senior Secondary Classes, Organised by	Board of Secondary Education, Rajasthan, Ajmer.		1 Day
3) 2003, January 27 <sup>th</sup> -30 <sup>th</sup> . Training Programme in Environmental Laws.	MDSU Ajmer.	WWF for Nature-India, Centre for Environmental Law	4 Days
4) 2005, August 23 <sup>rd</sup> -24 <sup>th</sup> . Environmental Science	Department of Environmental	Commission for Scientific and Technical Glossary, HRD	2 Days



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Glossary: Modern Perspective.	<b>Studies, MDSU Ajmer.</b>	<b>Ministry, New Delhi.</b>	
5) 2005, December 22 <sup>nd</sup> -31 <sup>st</sup> . Short Term Training Course on Modern Methods of Molecular Biology & Biotechnology.	<b>Department of Biotechnology, University College of Science, MLS University, Udaipur.</b>	<b>University Grant Commission, New Delhi.</b>	<b>10 days</b>
6) 2006, August 11-12, International Workshop on Laboratory Innovations in Physics.	<b>Government College Ajmer.</b>		<b>2 Days</b>
7) 2007, October 22 <sup>nd</sup> -26 <sup>th</sup> . International Workshop on Arthrospira Mass Production in Rural Areas of Tropical Countries,	<b>Department of Botany, Government College Ajmer.</b>	<b>UNESCO &amp; TWAS.</b>	<b>5 Days</b>
8) 2010, November 30 <sup>th</sup> . Workshop on Management Development and Faculty Development Program.	<b>Govt. College, Ajmer</b>		<b>1 Day</b>
9) 2015, February 16 <sup>th</sup> . Workshop on achieving Excellence through E-Governance in Higher Education.	<b>Organised by Centre for Excellence (Model College), Samrat Prithviraj Chauhan Government College, Ajmer</b>		<b>1 Day</b>
10) 2015, August, 11-12 <sup>th</sup> . Biodiversity and Latest Innovations in Technical Terminology.	<b>DRC, ZSI, Jodhpur.</b>	<b>Commission for Scientific and Technical Glossary, HRD Ministry, New Delhi.</b>	<b>2 Days</b>
11) 2015, September 9-10 <sup>th</sup> . Scientific and Technical	<b>Samrat Prithviraj Chauhan</b>	<b>Commission for Scientific and Technical</b>	<b>2 Days</b>



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Terminology in Forestry Science.	<b>Government College, Ajmer</b>	<b>Glossary, HRD Ministry, New Delhi.</b>	
12) 2016, August 12-13, Ajmer Scientific and Technical Terminology in Science Teaching	<b>DAV College, Ajmer</b>	<b>Commission for Scientific and Technical Glossary, HRD Ministry, New Delhi.</b>	<b>2 Days</b>
3rd June 2017, Faculty Development Workshop on LibreOffice Suite	<b>SPCGCA</b>	Spoken Tutorial Project, IIT Bombay	<b>1 Day</b>
13) 2018, March 17 <sup>th</sup> , Ajmer  Workshop on Intellectual Property Rights	<b>SPC Govt. College, Ajmer</b>	<b>DST, Govt. of Rajasthan</b>	<b>1 Day</b>
14) 2019, March 30 <sup>th</sup> , Kishangarh  National Workshop on Awareness of Intellectual Property Rights and Training Program.	<b>Shri Ratanlal Kanwarlal Patni Girls' College, Kishangarh</b>	<b>DST, Govt. of Rajasthan</b>	<b>1 Day</b>
15) 2019, April 3 <sup>rd</sup> , Kota  EPIC (Empowerment for Parenting Initiative & Challenges) Awareness and Appreciation Program.	<b>Indian Society for Training and Development, Kota Chapter</b>	<b>SYNERGESIC</b>	<b>1 Day</b>
<b>Online F.D.P (Faculty Development Programme)</b>			
1) Gyan Ganga Programme	<b>S.P.C.Govt. College, AJMER (Raj.)</b>	Commissionerate College Education Rajasthan and S.P.C.Govt. College, AJMER (Raj.)	<b>1st to 6th February 2021</b>



## 10. Seminar/ Conference :

Name of Symposium/ Seminar/Conference	Internat./ National/ Regional	Organized by	Title of Paper presented	Year
1) International Symposium on Perspectives in Pteridophytes.	International	The Indian Fern Society and National Botanical Research Institute, Lucknow.	-	2008, November 27-29.
2) International Conference on Folk and Herbal Medicine.	International	Department of Botany, University College of Science, MLSU, Udaipur.	Ethno-medicinal plants of Ajmer District for oral health care	2010, November 25 <sup>th</sup> -27 <sup>th</sup> .
3) Fourth International Conference on Plant and Environmental Pollution.	International	International Society of Environmental Botanists & NBRI, Lucknow	Croton bonplandianum as prospective control for P. hysterophorus	2010, December 8 <sup>th</sup> -11 <sup>th</sup> .
4) 31 <sup>st</sup> Annual Conference of STOX, India & International Symposium on Current Trends in Environmental Toxicology.	International	IIS University, Jaipur.	-	2011, December 22 <sup>nd</sup> -24 <sup>th</sup>
5) 99 <sup>th</sup> Indian Science Congress,	International	KIITS Bhubaneshwar	-	2012, January 3 <sup>rd</sup> -7 <sup>th</sup>



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6) “International Conference/workshop of ILEC/ILBM earthware for plenty & Pure water with focus on Pushkar aquatic ecosystem”	International	Shri Pushkar Sarovar Samvardhani Samiti, Pushkar.	-	2014, January 10-11
7) “103 <sup>rd</sup> Indian Science Congress,	International	University of Mysore, Mysuru.	“ Chlorophyll Content of some Tree Species in the Slurry-Dumpyard Area at Kishangarh, in relation to the Dust Holding Capacity”	2016, January 3-7
8) “104 <sup>th</sup> Indian Science Congress,	International	Shri Venkateswara University, Tirupati	<b>Basic Ethno-Pharmacological Knowledge base of rural population of Madar region Ajmer, Rajasthan – A Survey</b>	2017, January 3-7
9) International Conference on Environmental Changes and their Impact on Plants and Human Health {St. Wilfred’s P.G.College, Jaipur}	International	Presented Paper	<b>Effect of Marble Slurry Pollution on the Stomatal Index of Some Tree Species</b>	2018, 15 <sup>th</sup> -17 <sup>th</sup> January
10) 1 <sup>st</sup> International Conference on Multidisciplinary Research {Organised by, NILM University, Kaithal, Haryana}	International	Presented Paper	<b>Effect of suspended Marble Slurry Dust on Venation patterns of Azadirachta indica A.juss. and Albizia lebbeck(L.) Benth</b>	2018, August 4 <sup>th</sup> – 5 <sup>th</sup>
11) 6 <sup>th</sup> International Conference on Plants & Environmental Pollution {International Society of	International	Paper presented	Effect Of Marble Slurry Dust On The Proline Content Of Callistimon lanceolata And Albizia lebbeck Trees	2018, 27 <sup>th</sup> -30 <sup>th</sup> November



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Environmental Botanists & CSIR- NBRI}				
12) National Symposium on Plant Biotechnology: Role in Sustainable Development.	National	Department of Botany, University of Rajasthan & PTCA (India)	-	2003, February 17 <sup>th</sup> -19 <sup>th</sup> .
13) XXXII RGA National Conference on Regional Planning & Development.	National	Department of Geography Government College Ajmer.	Phytogeographical Analysis of Pteridophytic Flora of Rajasthan.	2004, October 25 <sup>th</sup> -27 <sup>th</sup> .
14) 92 <sup>nd</sup> Indian Science Congress	National	NIMS, Ahmedabad	Regeneration Studies of <i>Anogeissus pendula</i> .	2005, January 3 <sup>rd</sup> -7 <sup>th</sup> .
15) National Conference on Biodiversity Conservation (UGC Sponsored).	National	Department of Botany, M.L.V. Government College, Bhilwara.	Distribution & Phytogeographical Analysis of the Pteridophytic Taxa of Rajasthan	2006, September 21 <sup>st</sup> -22 <sup>nd</sup> .
16) National Conference on Emerging Trends in Microbiology and Biotechnology.	National	Dr. Tanveer Malawat College of Biosciences, Bikaner & Society of Basic & Applied Microbiologists	-	2007, January 29 <sup>th</sup> -30 <sup>th</sup> .
17) XXX Annual Conference of The Indian Botanical Society.	National	School of Studies in Botany, Jiwaji University, Gwalior	-	2007, November 28-30.
18) National Conference on Tourism Destination Competitiveness and	National	Dayanand College, Ajmer.	1. Conserving Anasagar Lake: From	2008, November, 21 <sup>st</sup> -22 <sup>nd</sup>



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Sustainability (UGC Sponsored).			'Decay & Decline' to 'Forever Beautiful' 2. Gundolav Lake: A Neglected Truth	
19) National Conference on Environmental Health Hazards.	National	JDB Government PG College for Women, Kota.	Allelopathic Effect of <i>Cassia</i> on Seed Germination of <i>P. hysterophorus</i> .	2009, December 17 <sup>th</sup> -18 <sup>th</sup> .
20) National Conference on Management and Accountability in Higher Education.	National	Government College, Ajmer	Value Based Education: Need of the Hour.	2011, January 8 <sup>th</sup> -9 <sup>th</sup> .
21) 34 <sup>th</sup> All India Botanical Conference	National	Deptt. Of Botany, University of Lucknow, Lucknow.	Utility Aspect of the Avenue Trees of the Arterial Roads of Ajmer City.	2011, October 10 <sup>th</sup> -12 <sup>th</sup> .
22) National Conference on 'Current Status and Opportunities in Medicinal Plants of Thar Desert'	National	Mahila PG Mahavidyalay Jodhpur	Medicinal Plants of Merta Tehsil of Nagaur District	2011, December 17 <sup>th</sup> -18 <sup>th</sup> ,
23) National Seminar on Multibrand FDI in Organised Retail in India	National	GCA, Ajmer		2012, March 1 <sup>st</sup> -2 <sup>nd</sup>
26) National Conference on Biodiversity Depletion: Causes, Consequences and Solutions	National	MLV Govt. College, Bhilwara.	Ethno-medicinal Diversity of the Pteridophytes of Rajasthan.	2012, September 28 <sup>th</sup> -29 <sup>th</sup>
25) National Conference on Environmental Management & Biodiversity	National	Govt. Lohia PG College Churu.	Phytodiversity of Ajmer District, Rajasthan.	2012, October 06 <sup>th</sup> -07 <sup>th</sup>





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Conservation: Present Status and Future Strategy.				
26) 35 <sup>th</sup> All India Botanical Conference & National Symposium on Role of Plants and Microbes for the betterment of Mankind in the Changing Climate	National	Deptt of Botany, The Maharaja Sayajirao University of Baroda, Vadodara Gujrat.	1. Differential Response of Parthenium extracts on seedling Growth of <i>S.vulgare</i> & <i>V.radiata</i> 2. Herbal remedies for Gastro-intestinal disorders, as practised by Agrarian society of Masuda Tehsil, Ajmer	2012, December 8 <sup>th</sup> -10 <sup>th</sup>
28) “national conference on biodiversity conservation: embracing our future, preserving our past”	National	IIS University, Jaipur.	“Micromorphological and Eco-physiological Changes in Tephrosia purpuria Under the effect of Marble slurry at Kishangarh, Ajmer.” “ Weed Flora of Medicinal Importance in Madar Region, Ajmer”	2013, September 27-28
29) “Biodiversity: Harmonizing Conservation with Life and Landscape of Arid and Semi-arid Areas”	National	IIS University, Jaipur.	“ Herbaceous Weed Flora of Medicinal Importance in the Semi Arid Regions of Budha Pushkar Region, Ajmer.”	2014, October 29-30
30) “ XXXVIII All India Conference of the Indian Botanical Society “	National	Deptt of Botany, University of Rajasthan, Jaipur.	“ Dust Holding Capacity of the Leaves of Selected Tree Species in the Slurry-Dumpyard Area at Kishangarh, Ajmer” “ Common Herbal Remedies for Veterinary Diseases as Practised by Rural Population in Madar Region, Ajmer”	2015, October 26-28



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31) National Seminar on Biodiversity, Human Rights and Sustainable Development;	National	Shri Ratanlal Kanwarlal Patni Govt. P.G. College Kishangarh, Ajmer	-	2017, 15 <sup>th</sup> September
32) National Seminar on Role of Women in Unpaid Care Work: Issues, Challenges and Strategies	National	CURAJ – NCW	“Impact of the Quality of Unpaid Work on the Society”	2018, 27-28 March
33) National Conference on Advances in Science and Technology – an Interdisciplinary Approach	National	Sophia Girls’ College, Ajmer	Allelopathic Effect of Alien Flora	2018, 15 <sup>th</sup> -16 <sup>th</sup> October
34) XLI All India Botanical Conference of The IBS and Symposia on ‘Ecological Restoration, Carbon Sequestration and Biotechnological Approaches for Biodiversity Conservation.’”	National	Jiwaji University, Gwalior	““Seasonal Variation In Proline Content Of <i>Azadirachta Indica</i> Under The Influence Of Marble Slurry Dust In Kishangarh, Ajmer.”	2018, 25 <sup>th</sup> -27 <sup>th</sup> October
35) XLII All India Botanical Conference of The IBS and Symposia on	National	University of Calicut, Calicut	Variations In Epidermal Characteristics Of Selected Tree Species, Under The Influence Of Marble Slurry Dust, In Reference To Their Dust Holding Capacity	2019, 6 <sup>th</sup> -8 <sup>th</sup> November

## 1) Organizing Sec./Convener of conference/seminar/webinar :

Conference/Seminar Title	Year



## 2) Resource Person:

In training Programme	Topic: Energy Conservation; One Week Short Term Course On 'Science and Technology to Save Environment'  (November 2015) Department of Mechanical Engineering and Department of Chemistry, (Government Engineering College, Ajmer)
	Gyan Ganga Programme (Faculty Development Programme): Resource Person (Organised by Department of Botany SPCGCA, 3rd February 2021)

## 3) Research Publications

Title of Paper	Name of Journal with ISSN No.	Volume and No. with Year	Citation Index	Impact Factor	Google Index
"Phytochemical Investigations of <i>Cheilanthes</i> spp. of Rajasthan";	Advances in Pteridology Edited by Prof. P.C.Trivedi; ISBN No. 81-7132-300-6	2002			
"Effect of Quality of Light on Spore Germination and Gametophytic Development in <i>Cheilanthes albomarginata</i> Clarke".	Indian Fern J. ISSN 0970-2741	Vol. 25: 2008			
"Conserving Anasagar Lake: From 'Decay & Decline' to 'Forever Beautiful'"	"Tourism Destination Competitiveness (Proceedings of National Conference on Tourism Destination Competitiveness and Sustainability.	2009			



“Planktonic Diversity in the Holy Lake of Pushkar, Ajmer”,	Nature Environment and Pollution Technology, p-ISSN: 0972-6268 [1.817]	Vol. 8 No.2: 2009			
Tadgarh-Raoli: Destination with immense Potential for Eco-Tourism;	SAJTH ISSN No. 0974-5432	Vol-3, No. 1 (Jan 2010)			
The effect of marble-slurry on total chlorophyll content and chlorophyll a/b ratios in some tree species	International Journal of Science and Research (IJSR) ISSN (Online) 2319 - 7064	Vol. 6 Issue 10, October 2017			
Effect of suspended Marble Slurry Dust on Venation patterns of Azadirachta indica A. juss. and Albizia lebbbeck (L.) Benth	International Journal of Management, Technology and Engineering ISSN NO: 2249-7455	Vol. 8, Issue VIII, Aug 2018 : pg 305- 313			
Stomatal Index of a few Common Tree Species in the Kishangarh Marble Slurry Dump-yard Area, Ajmer (Rajasthan): A case study	International Journal of Applied and Natural Science ISSN(Online):2319-4022	11(1): (2019)			
Seasonal Variation in Proline Content of the Leaves of Azadirachta Indica, Under the Influence of Marble Slurry Dust	International Journal of Science and Research (IJSR) ISSN (Online) 2319 - 7064	Vol. 9 Issue 11, November 2020			
Influence of Marble Slurry Dust on Epidermal Characteristics of Selected Tree Species, in Reference to their Dust Holding Capacity	International Journal of Science and Research (IJSR) ISSN (Online) 2319 - 7064	Vol. 9 Issue 11, November 2020			



## 1. Research Projects:

Title of the Project	Year	Name of funding agency	Fund available/ utilized	Present status
“Eco-physiological investigations of genus Cheilanthes Swartz. In Rajasthan”	2000	UGC	Utilized	Completed
“Studies pertaining to the allelopathic effect of some common weeds, in controlling the Biological invasion of <i>Parthenium hysterophorous</i> Bail.”	2011	UGC	Utilized	Completed

## 2. Research Supervision:

### • Basic Field of specialization:

- Eco-physiology
- Pteridology

### ❖ Ph.D.

Name of Student	Title of thesis	Present status	Date and Year of Award, if so
Lata Gahlot	“Effect of Marble slurry on ecophysiology of certain tree species of Kishangarh (Rajasthan)”	-	Awarded (15 March 2021)
Renu Bansal	“Allelopathic Studies on the Flora of Ajmer Region”	Continuing	

### ❖ M. Phil.

Name of Student	Title of Dissertation	Present status	Date and Year of Award, if so
Swati Choudhary:	Ecological & Physiological Investigations of <i>Adiantum incisum</i> L.	Completed	2002



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Pooja Sanger:	Ecological Investigations of Tephrosia Spp.	Completed	2004
Priyanka Jain	Eco-physiological Investigation of some ferns of South Rajasthan	Completed	2005
Bhupendra:	Cordia crenata	Completed	2006
Astha Nayyar	Allelopathic effect of Parthenium hysterophorus On seed germination & seedling growth of Sorghum & Vigna radiata	Completed	2007
Manju Meena	An Inventory of medicinal plants of Madar Region , Ajmer.	Completed	2008
Meenakshi Tiwari	Allelopathic effect of Croton bonplandianum Baill. On seed germination & early seedling growth of Parthenium hysterophorus	Completed	2009
Sunil Kumar Sen	An Arboreal Survey of the Arterial Roads of Ajmer City	Completed	2010

## 1. Monograph/ Book / Chapter (in Edited Book)/Chapters in study material of Open universities

### • Book (Single Author)

Title of Book	ISBN/ ISSN No.	Publisher with Place	Year of Publication
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### • Chapter(s) in Book (Edited / multi-author)

Title of Chapter	Authors / Editors	Name of the Book with ISBN/ ISSN No.	Publisher with Place	Year of Publication
, "Phytochemical Investigations of <i>Cheilanthes</i> spp. of Rajasthan";	Edited by Prof. P.C.Trivedi	Advances in Pteridology	Pointer Publication Jaipur.	2002



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		ISBN No. 81-7132-300-6		
Name of the Book	Co-Authors	Publisher with Place	Year of Publication	
A Text Book of Molecular Biology and Biotechnology (B.Sc. Part III)	Dr. Dilip Gena	Sakshi Publications, Jaipur	2002	
Genetics and Molecular Biology (B.Sc. Part III)	Dr. Dilip Gena	College Book House, Jaipur	2007	
Practical Botany (B.Sc. Part III)	Dr. Dilip Gena & Dr. Veena Sharma	College Book House, Jaipur	2007	
Cytology, Genetics and Biotechnology of Plants	Dr. Dilip Gena & Dr. Veena Sharma	College Book House, Jaipur	2018	
Practical Botany (B.Sc. Part III)	Dr. Dilip Gena & Dr. Veena Sharma	College Book House, Jaipur	2018	

**13 Sports Activities: Nil**

**14 Extra Curricular Activities: Nil**

**15. Any Other Relevant Information/Contributions:**

- Subject Expert for various PSCs
- Slide share and YouTube Uploads on Topics related to Botany (Cell Biology, Biotechnology, Plant Physiology etc.)