#### PROFESSOR (Dr.) ASHA SHARMA DEPARTMENT OF BOTANY, M.D. UNIVERSITY, ROHTAK (HARYANA)

PIN: 124001

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A) Educational Qualifications: M.Sc., Ph.D.

B) Designation: Professor, Department of Botany, M.D. University, Rohtak

Career Profile of last 18 Years: 55 research papers

published in reputed journals,

20 Book chapters, 5 Books published

Life Membership of Many Societies,

Won awards in Conferences and Seminars etc.

# Co-curricular, Extension, & Professional Development Related activities from 2009 to 2013:

S. No.	Nature of Activity
	Extension, Co-curricular & related activities
1	Life membership of Association of Microbiologists of India
2	Participated in National Symposium on Fight against Malaria on March 9,2013
	held by Centre of biotechnology & Centre of Medical biotechnology, M.D.
	University
3	Participated in university level Youth Red Cross Awareness Camp on 12.09.2013 in M.D.University
4	Acted as member in Decoration committee
5	Appointed as Programme officer of NSS Unit 11 Girls on 30.7.2012
6	Appointed as Member of Organizing Committee in 32 <sup>nd</sup> M.D.University InterZonal Youth Festival held from 30 <sup>th</sup> October to 1st Nov., 2012.
	<b>Contribution to Corporate Life and Management of the Department</b>
	and Institution through participation in academic and
	administrative committees and responsibilities
1	Member of PG Board of Studies w.e.f. 1-08-2011, 2011 for period of two years
2	Participation in time table formation 2012-2013
3	Departmental coordinator in giving guidance and counseling to the students in 2012-2013
4	Member of Admission Committee to pre Ph.D. course and award of U.R.S. in 2012-13
5	Member of anti- ragging Squads 2012-13
	Professional Development Related Activities
1	Life member of the Society for Science of Climate Change and sustainable environment (SSCE).
2	Participated in Panel Discussion on the Work without harassment-Right of Women organized by SCSHVW ,M.D.University, Rohtak on 20 <sup>th</sup> March,2012
3	One month Orientation Course in May-June 2009 at Kurukshetra University, Kurukshetra.
	Attended and presented Poster in the Zonal Seminar on "Abiotic Stress
4	Tolerance in Plants- Physiological and Molecular Approaches" organized by
	Centre for Plant Biotechnology, Hisar on 5th Dec., 2009.
	Attended "17th Annual Conference of the Indian Association of Clinical
5	Medicine" organized by Department of Medicine, M.L.B. Medical College,
	Jhansi (U.P.) on 28th – 30th November, 2009
	Attended Symposium on "Emerging Trends in Biotechnology" as delegate

6	organized by Department of Biotechnology, University Institute of Engineering & Technology, M.D. University, Rohtak on 24th Nov., 2009
7	Attended National Seminar on "Biodiversity: Concerns & Solutions" organized by Department of Botany, M.D. University, Rohtak on 20th Nov., 2009.
8	Attended trends in translational medicine organized by Deptt of Biotechnology and Molecular medicine of Pt. B D S PGIMS, Rohtak on January 9, 2009.
o	Attended the Workshop on Biosensor development at M.D. University in 2007
9	Participated in Two day Workshop on "Application of SPSS Software in Research "organized by Institute of Hotel & Tourism Management
10	,M.D.University,Rohtak on April (19-20),2011.
11	Asha Sharma ;Comparative study of Ni tolerance in four cultivers of Brassica Juncea (L.czern.) Abstract book Zonal Seminar on Abiotic Stress tolerance in Plants: Physiological and molecular approaches. (5 Dec.2009).
12	AshaSharma;,R.P.singh,;Manoj Kumar;AnitaSehrawat; Detection of heavy metals in industrial effluents ,sewage wastewater,soil & plants growing near the industrial area. Abstract in National Symposium on Impact of Trends in Climate Change On BioDiversity and Faunistic Systems(Feb. 19- 20,2010).
13	Anita Sehrawat, Asha Sharma; Evaluation of alkaloids in multiple shoot cultures of <i>Catharanthus roseus G.Don</i> . Abstract in National Conference on Environmental and Health Issues: In a Changing Climatic Scenario (Oct.14-15,2010).
14	Asha sharma; R.P.Singh; Brassica juncea as a model system for understanding the tolerance to cadmium toxicity. Abstract in ECSD-2010 National Seminar on Environmental Challenges: Sustainable Development (March 29-30,2010).
15	One day workshop on Personality development and communication Skills organized by Dept. of Botany on 22.11.2013
16	Attended on day Seminar on Novel Antimicrobials: an alternative to clinical antibiotics held by M.D.University on 14 Sept.,2013
17	Attended National Seminar on Eco- friendly environment on March 12,2013 in G.V.M. Girls College, Sonepat
18	Participated in workshop on Biological database and sequence analysis in dept. of Botany, M.D.University on 29-03-2013
19	Attended 1 day international research colloquium in department of

	microbiology M.D. University, Rohtak on 20 Nov, 2012
20	Member of P.G. Board of Studies
21	Member of Departmental research committee
22	Life Membership of Alumni Association

#### Research papers published in Journals or Conference proceedings

S. N	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos
1	Asha Sharma, Manish Sainger, Sanjay Dwivedi, Sudhakar Srivastava, R.D. tripathi and R. P. Singh; Genotypic variation in Brassica Juncea (L.czern.) cultivers in growth, nitrate assimilation, antioxidative response and phytoremidiation potential during Cd stress J. Environ. Biol. 31,773-780(2010).	J. Environ. Biol. 31,773-780(2010).
2	S.K.Atri , Sharma Asha, Kaushik H.; Chronic Lead Poisoning Masquerading Recurrent Pancreatitis, The Indian Practitioner; Vol.63 No.8,521-524.	The Indian Practitioner; Vol.63 No.8,521-524.
3	Sharma Asha, Sindhu Pawan, Devi Annu (2013). Determination of total phenolic content and total protein in guava ( <i>Psidium guajava</i> ) and lemon ( <i>Citrus limon</i> ), International journal of biological and pharmaceutical research, 4(11), (827-834).	International journal of biological and pharmaceutical research, 4(11), (827-834).
4	Sharma Asha, Dhiman Anju, Sindhu Pawan (2013). Study of phenol and protein in wheat (Triticum aestivum) and apple (Malus domestica). International journal of biological and pharmaceutical research, 4(12), (1081-1087).	International journal of biological and pharmaceutical research, 4(12), (1081-1087).

#### Chapter in Book published

S. No.	Whether text or reference book, published by International publisher/Subject books by National level publisher or State and Central Govt publication with ISSN/ISBN/ subject books by other local publishers with ISSN/ISBN	Title with name of authors as appearing in the publications
1	INTERNATIONAL	Rana P Singh, Geeta Dhania, Asha Sharma, P. K. Jaiwal; Biotechnological approach to remove Phytoremediation efficiency for environmental contamination. Etd. Vol. of Bioremidiation- a Noval technology by Springer (2006).

#### **Research projects**

S.	Title & type of projects (sponsored/consultancies)
No.	(Major/Minor)
1	Minor Research Project titled Detection of Lead in Water, Soil and plant parts in
	different months of M.D.University Campus from different sites for the session 2010-
	2011.
	One year Dr. Radha Krishan Foundation Fund.
2	Consultancy Projects carried out(amount mobilized betweenRs.10,000/-)

#### **Projects outcome/outputs:**

S.	Title & type of	Fundi	Period	Grant/ Amount	Whether
N	projects	ng		Mobilized (Rs in	patent/technology/transfer/
0.	(Major/Minor)	agency		Lakh)	product/process/major
	-				policy of Govt (Bodies at
					Central and State level)

Accumulation,pa	Receiv	U.G.C.	1-7-2012 to	14,23,300
rtitioning and	ed		31-12-2016	
metabolic	Projec			
alterations in	t			
wheat(Triticum				
aestivum				
L.)grown under				
arsenic				
contaminated				
conditions				

#### Refresher Course, methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft skills development Programmes, faculty Development Programmes

S.No.	Progamme	Duration	Organised by
1	Training	21.08.2012 to	IDC ,Ministry of youth affairs &
	orientation	27.08.2012	sports,Govt. of India,M.D.University,Rtk-
	Course for NSS		124001
	programme		
	officers		

### Participation and Papers presented in Conferences/Seminars/Workshop/Symposia etc.

S. No.	Title of the Paper presented
1	Asha Sharma; R.P. Singh; Presented paper on Screening of <i>Brassica juncea</i> genotypes to heavy metal stress. Proceedings having ISBN as (ISBN-978-81-920945-0-2) National Seminar on Internet: Applications in Research (26 March, 2011) organized by Dept. of Zoology, M.D. University, Rohtak.
2	Asha Sharma, D.K. Kishore, K.K. Pramanick, Jitender kumar; BIODIVERSITY OF WILD TEMPERATE FRUITS IN THE HIMALAYAS Proceedings National conference on Biodiversity: Challenges and Opportunities by Dept. of Botany, M.D. University, Rohtak.
3	Asha Sharma, Gender inequality in National Seminar on Eliminating Daughters: Paradox of Development in India (Dec. 15-16, 2010).

4	Asha Sharma, Jyotika Dhanker, R.P. Singh; Effect on Physiological and Biochemical Parameters by heavy metal stress. Abstract in National Seminar on Computing Life: Raw to Refined (March 27, 2010).
5	Asha Sharma: Effects on Environment by heavy metals of Industrial Effluents in Seminar on Environmental Pollution and Law (Feb. 26-27, 2011).
6	Detection of total and DTPA extractable nickel and cadmium in soil and plants irrigated with industrial effluent and sewage waste water
7	Vulnerability to climate change over horticultural fruit crops distribution in plane and hilly slope of Himachal Pradesh.
8	Human Rights: Uses and misuses
9	Quality management in Bio-technology
10	Accumulation and distribution of arsenic by wheat plants

# Invited for conferences/seminars/workshops/symposia to deliver lectures/Chair sessions (Nil)

S.	Whether lecture delivered/academic session chaired
No	
1	Delivered three Extension Lectures on "Plant breeding" in the Pt. Neki Ram
	Sharma Govt. College, Rohtak. Departmental Co-ordinator of Carrer Guidance and
	Placement Cell.

### Co-curricular, Extension, & Professional Development Related activities from 2013-2014

S. No.	Nature of Activity			
	Extension, Co-curricular & related activities			
1	Life membership of Association of Microbiologists of India			
2	Member in the admission committee for Pre Ph.D course work 2013-14,			
	M.D.University			
3	Participated in university level Youth Red Cross Awareness Camp on			

	12.09.2013 in M.D.University				
4	Acted as a Judge in district level science exhibition on 5 <sup>th</sup> Feb,2014				
5	Appointed as Programme officer of NSS Unit 11 Girls on 30.7.2012 and completed one year on 30.7.2013				
6	Appointed as a hostel warden in Narmada Hostel in Place of Dr. Maya Malik on 24.3.2014				
	Contribution to Corporate Life and Management of the Department				
	and Institution through participation in academic and				
	administrative committees and responsibilities				
1	Member of PG Board of Studies for period of two years				
2	Member in the purchase committee in the department				
3	Departmental coordinator in carrier counseling and placement cell to the students in 2013-2014				
4	Elected as a member of executive committee and selected as vice president in Maharshi Dayanand University Teachers Association, Rohtak				
5	Member in departmental research committee 2013-14				
6	Acted as member of decoration committee during organization of science conclave on Feb 22-23,2014				
	Professional Development Related Activities				
1	Life member of the Society for Science of Climate Change and sustainable environment (SSCE).				
2	Appointed as cultural counselor of UTD team for the session 2014-15				
3	One day workshop on Personality development and communication Skills organized by Dept. of Botany on 22.11.2013				
4	Attended on day Seminar on Novel Antimicrobials: an alternative to clinical antibiotics held by M.D.University on 14 Sept.,2013				
5	As a member of faculty of life sciences for a period of one year on 29.5.2014				
6	Member of P.G. Board of Studies				
7	Member of Departmental research committee				
8	Life Membership of Alumni Association				

#### Research papers published in Journals or Conference proceedings

S. No	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos	
1	Asha Sharma, Anju Dhiman, Pawan Sindhu, Jaya Yadav, Pooja Tomar, Annu Devi (2014). Study of total phenolic content and total protein in fruit peels Pomegranete ( <i>Punica granatum</i> ) and orange ( <i>Citrus sinensis</i> ).	International journal of recent scientific research 5(10), (1740-1744)	
2	Govinda, Asha Sharma, Sandeep Singh (2014). NaCl and Cd stress effect on shoot growth of potato cultivar.	International Journal of Research (IJR), 1 (11).	
3	Manoj Kumar, Gitika, Asha Sharma (2014). In vitro antibacterial activity of flower extracts of <i>Qusiqualis indica Linn</i> . against gram-positive and gram-negative bacteria. <i>International</i> . Citation index 1	journal of advances in pharmacy, biology and chemistry,3(3), (781-785)	
4	Govinda, Asha Sharma, Sandeep Singh (2014). A brief review of varities of Solanum tuberosum.	International Journal of Innovative Pharmaceutical Sciences and Research 2(10), (2590-2595)	
5	N.S Chauhan, Pooja Tomar, Asha Sharma, Pawan Sindhu, Annu Devi (2014). Screening of Amylase producing microorganism from soil sample.	International journal of biological and Pharmaceutical research 5(9), (736-744)	
6	Sharma A., Singh A.S., Rohilla J. and Govinda (2014). Physiological and molecular response of plants to calcium in presence of salt stress.	9	
7	Manish Sainger, Asha Sharma, Kuldeep Bauddh, Poonam Ahlawat, RP Singh (2014). Remediation of nickel; contaminated soil by <i>Brassica juneca</i> L. cv. T-59 and Effect of metal on some metabolic aspects of the plant., Citation index 5		
8	Asha Sharma, Anju Dhiman, Pawan Sindhu (2014). Determination of total phenolic content and total proteins in <i>Phyllanthus Emblica</i> and <i>Beta Vulgaris</i> .	Journal of international acedmeic research for multidisciplinary 2(2), (310-318)	
9	Pawan Sindhu, Asha Sharma, Annu Devi, Pooja Tomar and Deekshant (2015). Toxicity of arsenic on	Indian research journal of genetics and biotechnology 1(7),	

germination rate and other parameters of wheat
(Triticum aestivum).

# Research publications (Chapter in books/monograph other than referred journal articles)

S.	Chapter in a	Title with name of authors as appearing in the publications		
No	book/monog			
	raph			
1	1 Book Jitender k. Verma, D kishore, S Sharma, Asha Sharma (2 Evaluation of biotic and abiotic factors for production			
		apple ( <i>Malus X domestica</i> ) seedling .Microbial Diversity and biotechnology in food security, <i>Springer</i> . (1-15).		

#### Refresher Course, methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft skills development Programmes, faculty Development Programmes

S.No.	Progamme	Duration	Organised by
1	Training	24.07.2013 to	IDC ,Ministry of youth affairs &
	orientation	30.07.2013	sports,Govt. of India,M.D.University,Rtk-
	Course for NSS		124001
	programme		
	officers		

### Participation and Papers presented in Conferences/Seminars/Workshop/Symposia etc.

S.	Title of the Paper	Presented	Title of the	Dates of	Whether
No	presented	by	Conference /	the event	international /
			Seminar etc		national / state /
			and organizer		regional / university
					or college level
1	HIV Vaccines	Dr. Asha	54 <sup>th</sup> annual	17.20.201	International
	Treatment and	Sharma	conference of	3	Symposium
	Medication		association of		
			microbiologist		
			s of India		
			(AMI)		

# Co-curricular, Extension, & Professional Development Related activities from 2014-2015

S. No.	Nature of Activity			
	Extension, Co-curricular & related activities			
1	Life membership of Association of Microbiologists of India			
2	Broadcasting of talk on carrier counseling- opportunities in botany on 11.3.2015			
3	As a member of selection committee for appointment of project fellow			
4	Acted as judge in poster making contest on the celebration of international world water day on 20.3.2015			
5	Member in UG board of studies in Botany For a period of two years with w.e.f. 31.1.2015			
6	Activity incharge of pot painting and decoration in department of Botany M.D. University, Rohtak			
	<b>Contribution to Corporate Life and Management of the Department and</b>			
	Institution through participation in academic and administrative committees and responsibilities			
1	Member in the purchase committee in the department 2014-15			
2	Departmental coordinator in carrier counseling and placement cell to the students in 2014-2015			
3	Elected as a member of executive committee and selected as vice president in Maharshi Dayanand University Teachers Association, Rohtak on 22.7.2015			
4	Member in departmental research committee 2014-15			
5	Tour incharge for M.Sc. students at Mughal garden, New Delhi on 13.3.2015			
6	As member of admission committee for admission in M.Sc. course under Faculty of life sciences on 9.7.2014.			
	<b>Professional Development Related Activities</b>			
1	Life member of the Society for Science of Climate Change and sustainable environment (SSCE).			
2	Appointed as cultural counselor of UTD team for the session 2015-16			
3	As a member of faculty of life sciences for a period of one year on 29.5.2014-15			
4	Attended seminar on Beti Bachao-Beti Padhao organized by government of Haryana on 20-21 Jan 2015			
5	A member of admission committee constituted by Vice Chancellor for admission to Ph.D programme and award of URS on 15.12.2014			
6	As a delegate in IACMCON-2014 10-12 Oct, 2014 Hotel Clarks Shiraz, Agra			
7	Resource person in 18 <sup>th</sup> annual convention of society of pharmacognosy on Feb 21-22, 2014 in M.D. University, Rohtak			

8	Attended seminar on official statistics and carrier prospects held in department of statistics M.D. University, Rohtak on Feb 18, 2014
9	Attende workshop on workplace sexual harassment of women held at women study centre M.D. University, Rohtak on 24 Jan,2014
10	Attended M.D. University Youth red cross committee held on 20.2.2014
11	Participated in science conclave 2014 held at M.D. University, Rohtak on 22-23 Feb, 2014 organizer of decoration committee
12	Participated in national seminar on convergence of biotechnology and engineering for industry on 26 Nov, 2014 at UIET M.D. University, Rohtak
13	Attended one day conference on molecular pathology of human genetic diseases on 23 Aug, 2014 in department of genetics M.D. University, Rohtak
14	Life Membership of Alumni Association

#### Research papers published in Journals or Conference proceedings

S. N	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos	
0	publication		
1	Govinda, Singh S, Sharma Asha (2015). Cholesterol	Int. J. Biotech Biosci.	
	Biosensor – A Review.	3 (1), (1-12)	
2	Govinda, Asha Sharma, Sandeep Singh (2015).	International Journal Of Research	
	Analysis of soil parameters after the full growth of the	(Ijr)	
	kufari bahar cultivar of Solanum tuberosum.	2(7)	
3	Pawan Sindhu, Asha Sharma, Deekshant Rai, Priya	Journal Of International Academic	
	(2015). Toxicity of arsenic On Growth Parameters of	Research For Multidisciplinary	
	Wheat (Triticum aestivum L.).	3(6), (27-31)	
4	Pawan Sindhu, Asha Saharma, Pooja and Priya	International Journal of Recent	
	(2015). Total chlorophyll and total protein content in	Scientific Research	
	wheat (Triticum aestivum) grown under arsenic stress.	6(7), (5072-5075)	

### Research publications (Chapter in books/monograph other than referred journal articles)

S.	Chapter in a	Title with name of authors as	Book title, editor, publisher year,
No	book/monog	appearing in the publications	page nos
	raph		
1	Book	Ahmad S, Nanda A, Dhiman A,	Studium press LLC, USA.
		Sharma A (2015). Bioflavonoids and	
		their future prospects. In flavonoids	
		and antioxidants, Vol. 40.	

#### Refresher Course, methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft skills development Programmes, faculty Development Programmes

S.No.	Progamme	Duration	Organised by		
1	Summer school for	21 days	<b>Department</b> of	geography	M.D.
	capacity building		University, Rohtak		
	and training		•		
	programme for				
	geospatial				
	technology				

# Participation and Papers presented in Conferences/Seminars/Workshop/Symposia etc.

S.	Title of the Paper	Presented	<b>Title of the Conference</b>	Dates of the	Whether
No .	presented	by	/ Seminar etc and organizer	event	international / national / state / regional / university or college level
1	The effect of NaCl treatment on growth and different physiological parameters of Brassica juncea	Dr. Asha Sharma	National seminar on Entrepreneurship development in food processing sector By M.D.University, Rohtak	25 <sup>th</sup> March 2015	National seminar
2	Rate of germination and physiological parameters of wheat in presence of metal stress	Dr. Asha Sharma	International conference on emerging trends in biotechnology and sciences with special reference to climate change by ISGBRD at	Feb 18- 20,2015	International conference

			Banasthali Vidyapith		
3	Attended national conference on new avenues in microbiology: challenges and prospects	Dr. Asha Sharma	National conference	March 11,2015	National confrence
4	Germination of Wheat under different stresses of Arsenic	Dr. Asha Sharma	National conference on therapeutic potential of natural products: current innovations & future trends by department of genetics M.D.University, Rohtak	19 <sup>th</sup> March,2015	National confrence
5	Calcium effect on physiological parameters of Solanum lycopersicum under salinity conditions	Dr. Asha Sharma	2 <sup>nd</sup> annual national conference of APTI Haryana branch by department of pharmaceutical sciences, M.D.University, Rohtak	25 <sup>th</sup> October,2015	National confrence
6	Female foeticide is also violation of human rights	Dr. Asha Sharma	Gender inequality and violence against women in north-west India by women studies centre M.D. University Rohtak	7-8 Feb, 2014	National seminar
7	Pollution a big problem for all	Dr. Asha Sharma	National conference on pollution mitigation for a sustainable future by Department of environmental sciences M.D. University, Rohtak	26 March, 2014	National confrence

# Co-curricular, Extension, & Professional Development Related activities from 2015-2016

S. No.	Nature of Activity		
	Extension, Co-curricular & related activities		
1	Life membership of Association of Microbiologists of India		
2	Broadcasting of talk on climate change – a challenge 22.1.2016		
3	As a member of selection committee for appointment of project fellow		
4	Member of inter college extracurricular activities on Sept. 29,2015		
5	Certificate of appreciation for cultural activities in zonal and inter zonal youth festivel for 2015-16		
	Contribution to Corporate Life and Management of the Department and		
	Institution through participation in academic and administrative committees and responsibilities		
1	Member in the purchase committee in the department 2015-16		
2	Departmental co-ordinator in carrier counseling and placement cell to the students in 2015-2016		
3	Member of inspection committee regarding introduction of various courses at Sh. L.N. Hindu college, Rohtak 2015-16		
4	As member of admission committee for admission in M.Sc course under Faculty of life sciences on 9.7.2014		
	Professional Development Related Activities		
1	Life member of the Society for Science of Climate Change and sustainable environment (SSCE).		
2	Appointed as cultural co-ordinator of UTD team for the session 2015-16		
3	Member of P.G. board of studies in botany for a period of two years w.e.f 1.8.2015		
4	Life Membership of Alumni Association		

#### Research papers published in Journals or Conference proceedings

S.	Title with name of authors as appearing in the	Journal, Vol, Year, page nos
N	publication	
0		
1	Asha Sharma, Pooja, Annu Devi and Pawan Sindhu	International Journal Of Recent
	(2016). Effect of salt stress (Nacl) on different growth	Scientific Research, 7(11), (14413-
	parameters, photosynthetic pigments and lipid	14419)
	peroxidation in the leaves of local cultivar of tomato	
	(Solanum lycopersicum).	

#### **Books published**

S. No.	Whether text or reference book, published by International publisher/Subject books by National level publisher or State and Central Govt publication with ISSN/ISBN/subject books by other local publishers with ISSN/ISBN	Title with name of authors as appearing in the publications	Book title, editor, publisher year, page nos
1	National level publisher	Dr. Govinda, Dr. Asha Sharma (2016) Experimental Biochemistry of Enzymology of Perturbation of Xenobiotic Compounds by Lignin Squalor Fungi ed. 1 ISARA Publications New Delhi	Enzymology of Perturbation of Xenobiotic Compounds by Lignin Squalor Fungi ed. 1
2	National level publisher	Dr.Govinda , Dr Sandeep Singh, and Dr. Asha Sharma (2016) Biochemical and metabolic study of Solanum tuberosum in response to Cd and salt stresses ed. 1 .Neelkanth Prakashan New Delhi	Solanum tuberosum in response to Cd and salt stresses ed. 1 .Neelkanth

#### **Research Guidance**

Class	Number of students
Ph.D. (MDU)	2 students (Degree Awarded)

# Participation and Papers presented in Conferences/Seminars/Workshop/Symposia etc.

S. No	Title of the Paper presented	Presented by	Title of the Conference / Seminar etc and organizer	Dates of the event	Whether international / national / state / regional / university or college level
1	Solar instruments concerned with the energy production technologies in rural areas	Dr. Asha Sharma	Rural transformation in India: Challenges, opportunities and strategies by M.D. University, Rohtak	October 17, 2015	National conference
2	Germination rate and physiological parameters of wheat due to toxicity of Arsenic	Dr. Asha Sharma	Today's vision: save ozone, save earth by Dept. of Environmental science M.D. University, Rohtak	September 16, 2015	National seminar
3	Medicinal plants	Dr. Asha Sharma	2 <sup>nd</sup> Annual national conference of APTI Haryana branch by M.D. University, Rohtak	25 October, 2015	National confrence

### Co-curricular, Extension, & Professional Development Related activities from 2016-2017

S. No.	Nature of Activity
	Extension, Co-curricular & related activities
1	Life membership of Association of Microbiologists of India
2	Appointed as a co-ordinator of alumni cell of the university from the botany

	department on 29.06.2016		
3	As a member of selection committee for appointment of project fellow		
4	Acted as a teacher incharge for the health camp organized by youth red cross society M.D. University Rohtak		
5	Act as a member in cultural activities of inter zonal youth festival 2016-17		
6	Participated in organizing event in 21 <sup>st</sup> national youth festival on 12-16 Jan, 2017		
	Contribution to Corporate Life and Management of the Department and Institution through participation in academic and		
	administrative committees and responsibilities		
1	Member in the purchase committee in the department 2016-17		
2	Departmental co-ordinator in carrier counseling and placement cell to the students in 2016-2017		
3	As member of admission committee for admission in Ph.D. programme and award of URS in department of Botany 27.1.2017		
4	Appointment as liaison officer, National youth festival, 2017		
5	Certificate of appreciation on 7 <sup>th</sup> May 2017 from alumni meet 2017 held by M.D. University, Rohtak		
	Professional Development Related Activities		
1	Life member of the Society for Science of Climate Change and sustainable environment (SSCE).		
2	Appointed as cultural co-ordinator of UTD team for the session 2016-17		
3	Member of P.G. board of studies in botany for a period of two years w.e.f 1.8.2017		
4	Acted as delegate in Indian council of medical research 2 day national workshop on 8-9 Jan, 2016		
5	Nominated as a member of academic council of university for a period of two years w.e.f. 7.10.2016		
6	As a member of departmental research committee on 24.8.2016		
7	Life membership of society of Pharmaceutical education and research		
8	Attended national seminar on climate change and food security on 16 Jan,		
9	2016 in Choudhary Bansi Lal university, Bhiwani Attended Scopus and mendeley workshop in M.D. University Rohtak on 15 Feb, 2016		
10	Attended national research colloquim on microbes in food energy and environment on 2 <sup>nd</sup> April, 2016 in M.D. University Rohtak		
11	Attended national conference organized by ICDM college of pharmacy, Sirsa & APTI – Haryana state branch on 11-12 Nov, 2016		
12	Attended one day author workshop conducted by Vivekananda library on 18 Nov, 2016 in M.D. University Rohtak		

13	Attended workshop on coping health issues organized by women study centre on 23 Feb 2017 in M.D. University, Rohtak	
14	Attended national seminar organized by department of pharmaceutical sciences BMN University Rohtak on 1 <sup>st</sup> March, 2017	
15	Attended national conference on emerging trends in cloud computing and big data analytics on 6 March, 2017 in department of computer science M.D. University, Rohtak	
16	Attended workshop on sexual harassment of women at work place by women study centre on 28 March, 2017 in M.D. University, Rohtak	
17	Attended national conference on IPR and regulatory issues on 30 <sup>th</sup> March, 2017 in department of pharmaceutical sciences M.D. University, Rohtak	
18	Attended one day training on human rights in department of law M.D. University, Rohtak on 31 March 2017	
19	Attended one day national seminar on current scenario in forensic investigative techniques on 7 Sept, 2017	
20	Life Membership of Alumni Association	

#### Research papers published in Journals or Conference proceedings

S. N	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos
0		
1	Govinda, Asha Sharma, Anju Dhiman, Sandeep Singh, Nidhi (2017), kinetin functions in nitrate assimilation in leaves of arsenic stressed <i>Vigna radiata</i> .	Journal of Pharmaceutical and Scientific Innovation, 6(1), (8-13).
2	Govinda, Asha Sharma, Sandeep Singh, Jyoti (2017). Modulation of antioxidant enzymes system by kinetin in salt stressed shoots of <i>Zea mays</i> .	International Research Journal of Pharmacy, 8 (2), (16-24).

# Research publications (Chapter in books/monograph other than referred journal articles)

S.	Chapter in a	Title with name of authors as	Book title, editor, publisher
No	book/monog	appearing in the publications	year, page nos
	raph		
1	Book	Anju Dhiman, Aaakriti Saini,	Herbal Medicine, (328-336)
	chapter	Asha Sharma (2017). An update	New Delhi Studium Press India
		on diversified applications of cow	Private Limited
		urine. (Ed)	

#### **Completed Projects Quality Evaluations**

S.	Title & type of projects	Funding	Period	Grant/	Whether accepted
No.	(Major/Minor)	agency		Amount	from funding
				Mobilized	agency
				(Rs in	
				Lakh)	
1	Accumulation, partitioning	UGC New	1.7.2012	14,23,300	UGC New Delhi
	and metabolic alterations	Delhi	to 31		
	in wheat(Triticum		Dec,		
	aestivum L.)grown under		2016		
	arsenic contaminated				
	conditions				

#### **Research Guidance**

Class	Number of students
Ph.D. (MDU)	1 student (Degree Awarded)

#### Refresher Course, methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft skills development Programmes, faculty Development Programmes

S.No.	Progamme	Duration	Organised by
1	UGC sponsored	4.11.2017 to	Human resource development centre
	refresher course	24.11.2017	Kumaun University, Nainital
			(Uttarakhand)

# Participation and Papers presented in Conferences/Seminars/Workshop/Symposia etc.

S.	Title of the Paper	Presented	Title of the	Dates of the	Whether
No.	presented	by	Conference /	event	international /
			Seminar etc and		national / state /
			organizer		regional /
					university or
					college level
1	The effects of	Dr. Asha	National	17	National
	salinity on Tomato	Sharma	conference on	September,	conference
	cultivars		Genetic diversity	2016	

		I	1 41 4*	1	<u> </u>
			and therapeutic		
			potential of		
			natural products		
			by department of		
			genetics M.D.		
			University,		
			Rohtak		
2	Dangerous to	Dr. Asha	National seminar	Feb 6-7,	National
	climate change	Sharma	on Climate	2017	seminar
			change and		
			agriculture :		
			Impact and		
			adaptation		
			strategies in		
			Haryana by		
			department of		
			Economics M.D.		
			University,		
			Rohtak		
2	C-14 -4	D. A.L.		E-1 1( 10	T4
3	Salt stress induced	Dr. Asha	International	Feb 16-18,	International
	changes in proline	Sharma	conference on	2017	conference
	and total soluble		emerging areas		
	carbohydrate		of environment		
	activities in		and engineering		
	Brassica juncea		by department of		
			Environmental		
			science and		
			Engineering G.J.		
			university of		
			science and		
			technology, Hisar		
4	Conservation	Dr. Asha	National seminar	March 21,	National
	strategies for	Sharma	on Biodiversity:	2017	seminar
	biodiversity		status and		
			significance by		
			Department of		
			Botany M.D.		
			University,		
			Rohtak		
5	Study of towisity	Dr. Asha	National	25-26	National
3	Study of toxicity		- 1000-0		
	of cadmium and	Sharma	symposium on	March,	symposium
	zinc metals on two		Environmental	2016	
	wheat varieties		toxicology held at		
			Dept. of Zoology		
			C.C.S. University		
1			, Meerut		l l

6	Agroforestry uses in sustainable development	Dr. Asha Sharma	International conference on Role of digitalization in sustainable development: a global perspective by the department of education M.D. University, Rohtak	September 16-17, 2017	International conference
7	Transgenic crops	Dr. Asha Sharma	National symposium on Transgenic crops in India: Progress and challenges by Department of molecular biology, biotechnology and bioinformatics, H.A. University, Hisar	16-17 March, 2016	National symposium

# Invited for conferences/seminars/workshops/symposia to deliver lectures/Chair sessions

S.	Whether	Title of	Dates	Organizer	Whether international /
No	lecture	Confere	of the		national/state/regional/
	delivered/acade	nce /	event		university or college level
	mic session	Seminar			
	chaired	etc			
1	Acted as	Inter	13-14	3 <sup>rd</sup> annual	National conference
	resource person	Discipli	April,	convention of	
		nary	2017	APTI	
		trends		Punjab,	
		in		Rayat Bahra	
		pharma		University	
		ceutical			

research	
2 Chaired  Role of digitaliz Sept, ation in sustaina ble develop ment: a global perspect ive	tional

#### Jan.2018-Jan.2019

### CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVIES

S. No.	Nature of Activity					
1	Extension, Co-curricular & related activities					
	Performed 17 <sup>th</sup> Convocation duty on 13 <sup>th</sup> Feb., 2018 at Tagore Auditorium, MDU,					
	Rohtak					
	Act as a Judge for Slogan Writing competition on International Ozone day organized by					
	Dept of Environmental Sciences, MDU, Rohtak on 15 September 2018					
	Acted as a Judge in Declamation Contest on the occasion of Wild Life Week					
	Celebration on 5 <sup>th</sup> October organized by Dept of Zoology, MDU, Rohtak					
	Teacher mentor of M.Sc 1 <sup>st</sup> and 3 <sup>rd</sup> Sem					
2.	Contribution to Corporate Life and Management of the Department and					
	Institution through participation in academic and administrative committees and					
	responsibilities					
	Participation in giving guidance and counseling to the students (Co-ordinator of career					
	counselling and placement cell)					
	Member of Departmental Committee					
	Life member of Dept of Alumni Relation and MDU Alumni Association, Rohtak					
	Member of anti-ragging committee					
	Member of admission committee for M. Sc. Botany					
	Member of admission committee for award of URS, Dept of Botany, MDU, Rohtak					
	Member of Ph.D admission committee, Dept of Botany, M.D.U Rohtak					
3.	Professional Development Related Activities					
	Participated in national seminar on "Climate change and food security" organized by					
	centre for biotechnology, MDU, Rohtak held on January 25, 2018					
	Participated as Guest of Honor in 2 <sup>nd</sup> national conference on Clinical research "Drug					
	discovery and development" organized by Guru Gobind Singh College of Pharmacy,					
	Yamuna Nagar held on 24 <sup>th</sup> February, 2018					

Member of Organizing and Reception Committee to make arrangements for the university Alumni Meet- 2018 and the General Body Meet of the MDU Alumni
Association Rohtak held on April 15, 2018 at the Tagore Auditorium
Participated as Senior Teacher of Dept of Botany in CPC for the purchase of Hot Air
Oven held on 20 <sup>th</sup> March, 2018 in the office of Dept of Botany to open the quotations
Acted as a member in Co-ordination Committee constituted by The Director, CCPC on
2 <sup>nd</sup> April, 2018 in the office of DSW, MDU, Rohtak
Participated in Innovative and Effective Teaching and Research Skills in Pharmacy
organized by Swami Devi Dyal Institute of Pharmacy, Faculty Development
Programme, Sponsered by APTI held on April, 20-22, 2018 (Three days)
Participated as Delegate in National conference cum awareness programme "Protection
of IPR - Need of the Hour" UGC sponsored organized by Dept of Pharmaceutical
Sciences, MDU, Rohtak held on 10 <sup>th</sup> May, 2018
Participated in National Workshop on "Bioethics in Research: A Need or Compulsion"
organized by Dept of Genetics, MDU, Rohtak held on 15 <sup>th</sup> November, 2018
Life member of Society for Science of Climate Change and Environmental Sustainability
Life member of The Indian Science Congress Association
Life member of Association of Microbiologists of India
Coordinator of Career Counseling and Placement Cell

#### Jan. 2019- Jan. 2020

### CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVIES

S. No.	Nature of Activity		
1	Extension, Co-curricular & related activities		
	Acted as a Judge in Poster Session in International Seminar on Sustainable Environment		
	and Agriculture under Global Climate Change-2019 held on 21st Feb., 2019 organized		
	by Dept of Enviroment Science		
	Acted as a Judge in Slogan Contest to celebrate International Day for the preservation		
	of Ozone Layer held on 16 September, 2019 organized by Dept of Environment Science		
	Acted as a Judge in Poster Contest to celebrate World Animal Day held on 4 <sup>th</sup> October,		
	2019 organized by Dept of Zoology		
	Teacher mentor of M.Sc 1 <sup>st</sup> and 3 <sup>rd</sup> Sem.		
	Member of the team to visit Herbal Garden/ different labs of the Dept. For M. Sc. 1 <sup>st</sup>		
	semester students		
2.	Contribution to Corporate Life and Management of the Department and		
	Institution through participation in academic and administrative committees and		
	responsibilities		
	Member of Departmental Committee		
	Member of Anti-Ragging Squads		

	Life member of Dept of Alumni Relation and MDU Alumni Association, Rohtak
	Member of Admission committee to M.Sc.
	Member of admission committee for the admission to the Ph.D. programme and award
	of URS in Dept of Botany
	Member of PGBOS in Botany
	Member of faculty of life science for period of one year
	Member of a Inspection Committee to check the conditions of affilation in Lt. Mahipat
	Singh College of Education, VPO Sarai Aurangabad, Chhara Beri Road, Bahadurgarh.
	Member of Organizing Committee of 39 <sup>th</sup> Inter-zonal Youth Festival held at MDU
	Campus from 13 <sup>th</sup> -15th November, 2019 at Stage-VI (Terrace of Tagore Auditorium)
	Member of Executive Council of Maharshi Dayanand University Teaching Association
3.	Professional Development Related Activities
	Participated in National Conference on "IPR: Policies for research and innovation"
	organized by Dept of zoology with IPR cell, MDU, Rohtak held on 19 January, 2019
	Participated in National Seminar Sustainable Environment organized by Dept of
	Environmental Sciences, MDU, Rtk on 15 <sup>th</sup> Nov 2019
	Life member of Association of Microbiologists of India
	Coordinator of Career Counseling and Placement Cell
	Life member of The Indian Science Congress Association
	Life member of Society for Science of Climate Change and Environmental Sustainability

#### Jan.2020 to Jan. 2021

# CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVIES

S. No.	Nature of Activity				
1	Extension, Co-curricular & related activities				
	Acted as a member of organizing committee in International workshop on patent filing				
	from 24 <sup>th</sup> -25 <sup>th</sup> January, 2020 organized by IPR cell, MDU, Rohtak				
	Acted as a organizing team member at National Science Day on 28th Feb., 2020				
	organized by Dept of Environmental Science, MDU, Rohtak				
	Acted as a member of result compilation and certificate writing committee accorded by				
	Vice-Chancellor for smooth organization of Rang Mahotsav- 2020 (29 <sup>th</sup> Feb. to 6 <sup>th</sup>				
	March, 2020)				
	Teacher mentor of M.Sc. 1 <sup>st</sup> and 3 <sup>rd</sup> Sem.				
2.	Contribution to Corporate Life and Management of the Department and				
	Institution through participation in academic and administrative committees and				
	responsibilities				
	Member of Department Committee				
	Life member of Dept of Alumni Relation and MDU Alumni Association, Rohtak				
	Member of Online Admission committee to M.Sc.				
	Member of PGBOS in Botany				

	Member of inspection committee for periodical inspection of Govt. College for Women, Rohtak
	Member of inspection committee regarding grant for extension in provisional affilation in B. Sc. Medical 3 <sup>rd</sup> year course and continuation in 1 <sup>st</sup> and 2 <sup>nd</sup> year at Govt. College, Matanhail, Jhajjar
3.	Professional Development Related Activities
3.	Incharge of co-curricular aspects as record of awards and co-curricular activity
	Life member of Association of Microbiologists of India
	Life member of Society for Science of Climate Change and Environmental Sustainability
	Life member of The Indian Science Congress Association
	Participated in the Botany E-Quiz on <i>Plant Tissue Culture</i> organized by Dept of Botany, Pt. LMS Govt. PG College, Rishikesh, Dehradun 20 <sup>th</sup> April, 2020.
	Participated in 3 days online Multi Criteria Decision Making Workshop (MCDM) from 23 <sup>rd</sup> April, 2020 to 25 <sup>th</sup> April, 2020 organized by REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India.
	Participated with Excellent performance in online <i>COVID'19 Pandemic General Awareness</i> Quiz organized by IQAC, Doshi Vakil Arts College and GCUB Science & Commerce College, Goregaon, Raigad on 26 <sup>th</sup> April 2020.
	Certificate of achievement for course Digital Skills: Social Media Accenture, issued on 1 <sup>st</sup> May, 2020. futurelearn.com
	Certificate of achievement (Certificate ID- 18082985) for CHEM-101: General Chemistry 1 by Saylor.org Academy on 14 <sup>th</sup> May, 2020.
	Participated in a Webinar on <i>Mathematical Modeling of Infectious Diseases with Special Focus on COVID'19</i> organized by Division of Mathematics, School of Advanced Sciences, VIT Chennai on 2 <sup>nd</sup> July, 2020
	Participated in online Awareness Quiz on <i>Epidemics of COVID'19</i> during May-June 2020 organized by Chemistry Fusion Club, MMU, Sadopur, Ambala
	Participated in two days online national conference entitled <i>Environment: An Intelligent Recycling System</i> held on 5 <sup>th</sup> -6 <sup>th</sup> June 2020 organized by Govt. College for Girls, Sec-14, Gurugram
	Participated in the International <i>e-Symposium on Modern Trends in Physics &amp; Bio-photonics 2020</i> held from 6 <sup>th</sup> June-10 <sup>th</sup> June 2020 organized by IQAC, Govt College Manawar, Dist Dhar & IAPT RC-09, MP India.
	Participated in <i>Online Botany Quiz in Mythology</i> 2020 organized by Dept of Botany, Shri Chhatrapti Shivaji Mahavidyalaya, Shrigonda, Ahmednagar, Maharashtra
	Participated in the Live Webinar on <i>Design &amp; Development of High Power Audio Amplifier for Home Theaters</i> conducted on 14 <sup>th</sup> June 2020 by VIT Chennai & Emcog Solutions, Chennai India
	Participated in <i>Global Web Conference: Global Impact on Sustainable Development</i> (Basic Science & Social Science) held from 15 <sup>th</sup> June-20 <sup>th</sup> June 2020 organized by IQAC, Govt College Manawar, Dist. Dhar & Indian Association of Physics Teachers IAPT RC-09, MP India.
	Participated in two days national virtual conference on COVID'19 Pandemic: Voice of Youth- An Urgent Need of Psycho-Social Support organized by MBGPG College,

#### RESEARCH AND ACADEMIC STANDARDS

#### (**January 2018-January 2021**)

#### Research papers published in Journals or Conferences proceedings:

S. N o.	Title with name of authors as appearing in the publication	Journal, Vol, Year, page no.	Whether indexed/re ferred/non referred or conferenc e proceedin gs	Impact Factor, if any	ISSN/ISBN No, if any	Whether you are first/princi pal/corres ponding author or supervisor /mentor or other authors
1.	Preeti Kundu, Jyotika Dhankhar, Asha Sharma (2018). Development of Non- Dairy Milk Alternative Using Soymilk and Almond Milk	Curr. Res. Nutr Food Sci Jour. 06, (1): 203-210	Indexed/re ferred	Cite score 2019: 1.1	ISSN: 2347- 467X, Online ISSN: 2322- 0007	Mentor
2.	Annu Devi., Asha Sharma and Pooja(2018).Salt Induced Changes In Growth Photosynthetic Pigments and Total Carbohydrate Content In two Brassica juncea cultivars (L.)	Int J Recent Sci Res. 9(3),25087- 25091	Indexed/re ferred	NAAS Score 3.65 (2020)	ISSN: 0976- 3031	Supervisor
3.	Asha Sharma, Pooja, Anju Dhiman(2018). Tomato ( <i>Lycopersicum</i> esculantum) Varieties as a Source of	Asian Journal Of Biochemical and Pharmaceutic al Research,	Indexed and referred	Cosmos impact factor: 4.856	ISSN:2231- 2560	Correspon ding and First Author

	Essential Minerals and Trace Elements in Human Nutrition	Special Issue:160-164				
4.	Ghazala Zia,Anju Dhiman,Kaneez Fatima,Asha Sharma(2018).Indian Patent Law and Its Amendements:Scope and Concern in Pharmacy	M.D.U. Law Journal:XX,3 7-48	Referred and peer reviewed		ISSN: 2230- 746X	Others
5.	Pooja and Asha Sharma (2018). Regulation of Ion Homeostasis In Plants And Differential Expression And Function of Arabidopsis Thaliana Nhx Na <sup>+</sup> /H <sup>+</sup> AntiportersIn the Salt Stress Response (Review Article)	Int J Recent Sci Res. 9(3),25245- 25250	Indexed/re ferred	NAAS Score 3.65 (2020)	ISSN:0976- 3031	Supervisor
6.	Jyotika Dhankhar, Neha Vashistha and Asha Sharma (2019). Development of Biscuits By Partial Substitution of Refined Wheat Flour With Chickpea Flour and Date Powder	Journal of Microbiology, Biotechnology and Food Sciences (JMBFS)	Indexed/re ferred (web of science)		ISSN:1338- 5178	Mentor
7.	Chanchal Garg, Kirpa Ram, Asha Sharma and Manoj Kumar(2019). Response of Different Mannitol Concentration on Antioxidant Activity of Capsicum annum.	Annals of Agri Bio Research 63	indexed/re ferred	Impact factor: 0.08	ISSN:097196 60	Supervisor
8.	Chanchal Garg, Kamal Sharma, Asha Sharma and Kirpa Ram (2019).	Global Journal of Bio Sciences and	Indexed	Global impact factor(2	ISSN: 2278- 9103, 2278- 8891	Supervisor

Effect of mannitol	Biotechnology	015)	
concentration on chilli	,8(1),(15-19).	0.675	
genotypes.			

### Research publications (Chapter in books/monograph other than referred journal articles)

S. N o.	Chapter in a book/mo nograph/ e modules	Title with name of authors as appearing in the publications	Book title, editor, publisher year, page nos	Whether contributed to edited knowledge based volumes published by International publishers or in knowledge based volume of Indian/National level publishers with ISSN/ISBN nos and with nos of National and International directories	ISSN/ISBN no if any
1.	Book Chapter	Govinda, Sharma A., Singh S. (2018).The Use of Spectroanalytic al Techniques in Detecting the Heavy Metal and Salinity in Solanum tuberosum (cv. Kufri Bahar) During Indoor Study	ntal	Springer Nature Singapore Pvt. Ltd.	ISBN 978-981- 10-8390-7
2.	Book chapter	Sharma K., Dhiman A., Sharma A., Sonia (2018). Status of novel herbal drug delivery system in modern era	Cure Of Diseases By Medicinal Plants, Garg V., Dutt R.	LAP LAMBERT Academic Publishing	ISBN: 978-620-2- 07213-7
3	Book Chapter	Asha sharma, Pooja, Annu Devi,	Ecophysiol ogy, Abiotic	Springer Nature Singapore Pvt. Ltd.	ISBN 978-981- 13-3762-8_2

		Chanchal Garg, Anita Kumari, Anita Mann, Ashwani Kumar(2019). Behaviour of halophytes and their tolerance mechanism under different abiotic stresses	Stress Responses and Utilization of Halophytes , M. Hasanuzza man et al. (Eds.), 2019: 25- 38		
4.	Book Chapter	Pooja, Asha Sharma, Jyoti Sharma (2020), Stress Physiology in Plants	Reforms in Agriculture and Rural Developme nt Under COVID-19 Pandemic, Singh S.P. et al., (Eds.),2020 :175-186	M/S Shree Krishna Publisher, Agra, U.P.	ISBN 978-81- 946901-8-4

#### **Research projects:**

S.	Title & type of projects	Carried	Funding	Period	Grant/ Amount
No.	(sponsored/consultancies)	out/ongoing	agency		Mobilized (Rs in Lakh)
	(Major/Minor)				
1.	Wheat Genotypes	Ongoing	R-K	One Year	50,000/-
	Response to Silicon		Fund,		
	Nutrition Under Salinity		MDU		
	Stress (Minor)		Rohtak		

#### **Research Guidance:**

Class	Number of students	Degree awarded
Ph.D. (MDU)	02	Awarded

#### Refresher Course, methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft skills development Programmes, faculty Development Programmes:

S.No.	Programme	Duration	Organized by		
1.	UGC-HRDC,GJU,Hisar-	4 <sup>th</sup> Feb, 2019 to 9 <sup>th</sup>	UGC-HRDC, GJU,Hisar-		
	125001(HRY), One-Week	Feb, 2019	125001(HRY),		
	workshop on "MOOC,s,e-Content	(one week)			
	Development and Open Educational				
	Resources"				
2.	Capacity Building Programme	11 March 2019 to	Faculty Development		
	(CBP)	24 <sup>th</sup> March 2019	Centre, M.D. University,		
		(Two weeks)	Rohtak.		
Total S	Score (Max limit 30 points)				

### Participation and Papers presented in Conferences/Seminars/Workshop/Symposia etc.:

S. N o.	Title of the Paper presented	Presente d by		event	Whether international / national / state / regional / university or college level
1	Presented paper in poster session on "Application of green chemistry"	Dr. Asha Sharma	National conference on application of green chemistry in pharmaceutical sciences organized by DBIPR, Dehradun	<i>'</i>	National
2	Presented paper entitled "Study on cytotoxic ions sequestration and pottasium/sod ium levels as	Dr. Asha Sharma	National seminar on Recent Trends in Science and Technology A Computational Approach RTSTCA-2018 organized by Faculty of Physical Sciences, CBLU, Bhiwani	22 <sup>nd</sup> March, 2018	National

	salt tolerant indicators in tomato (Solanum lycopersicum)				
3	Presented paper entitled "Rules of IPR"	Dr. Asha Sharma	National seminar on Implication and Implimentation of IPR in India organized by Dept of Education with IPR cell, MDU, Rohtak	24 <sup>th</sup> June, 2018	National
4	Presented paper entitled "In vitro Application of Drought on Enzymatic activity of Chilli (Capsicum annum)	Dr. Asha Sharma	International confernce on Microbes for Biotechnological Innovations (MBI-2018) organized by Dept of MIcrobiology and AMI- Rohtak Unit, Haryana	7 <sup>th</sup> December, 2018	International
5	Presented paper entitled Effect of Calcium on Growth parameters and Photosyntheti c Pigments of Solanum lycopersicum Variety under Sodium Chloride Stress in National Seminar Organized by BPS Institute of Teacher Training & Research on 3rd June 2019.	Dr. Asha Sharma	National Conference on "Effect of Calcium on Growth parameters and Photosynthetic Pigments of Solanum lycopersicum Variety under Sodium Chloride Stress"Organized by BPS Institute of Teacher Training & Research, Khanpur Kalan	3 <sup>rd</sup> May 2019	National

### Invited for conferences/seminars/workshops/symposia to deliver lectures/Chair sessions:

S. No	Whether lecture delivered/ac ademic session chaired	Title of Conference / Seminar etc	Dates of the event	Organiser	Whether international / national/state/regi onal/ university or college level
	Delivered a Lecture	1) Delivered a lecture on "Untouchability is a curse" in a seminar	27-06- 2018	District welfare office , Faridabad	State
		2) Delivered a lecture on "Teaching of Sant Kabir Dass Ji" at District level Sant Kabir Dass Jayanti celebration	28-06- 2018	District welfare office , Faridabad	State
		3) Delivered a lecture on "International Women's Day"	08-03- 2018	Gaur Brahman Degree College, Rohtak	State
		4) Delivered a	19-02-	<b>District</b> welfare	State

	lecture on " Teaching of Sant Shiromani Ravidas Ji" on the occasion of Ravidas Jayant	2019	office , Faridabad	
	5) Delivered a Lecture on Organic Farming/Horticultu re in Govt. Middle School, Sector-2,3,4 Rohtak	08-01- 2020	Govt. Middle School Sec-2,3,4, Rtk	State
	6) Delivered a one hour lecture in GMS School, Sec-14, Rtk on Horticulture Training.	08-01- 2020	Govt. Middle School Sec-14, Rtk	State
	7) Delivered a one hour lecture in GMS School Sec-14, Rtk on Agriculture and Organic Farming	09-01- 2020	Govt. Middle School Sec-14, Rtk	State
Acted as Resource person (Poster Evaluator)	1st National Conference on Recent Advances and Challenges in Healthcare organized by School of Medical and Allied Sciences, GDGU Gurugram	18 <sup>th</sup> March, 2018	School of Medical and Allied Sciences, GDGU Gurugram	National

Name	: Dr. Asha Sharma	Designation : Professor
Subject	: Botany	Academic Session/Period: 15-01-2021 to 15-01- 2022

Sr.	Name of the Activity	Activities Actually undertaken
No.		
1.	Involvement in the students related activities and research activities:	
a)	Administrative responsibilities such as Head, Chairperson/ Dean/ Director/ Co- ordinator, Warden or any other administrative responsibility assigned by the Vice Chancellor/Executive Council for a period of not less than 6 months in the assessment year under consideration	<ol> <li>Member, Inspection Committee regarding grant of provisional affiliation for introduction of M.Sc. (Botany) 1<sup>st</sup> Year at BDC, Chamdhera, Mohindergarh</li> <li>Member, Inspection Committee regarding inspection report of Dayawanti Memorial College of Education, Village Pada, Sub-Tehsil Tauru, Mewat</li> <li>Member, Inspection Committee regarding grant of provisional affiliation for introduction of B. Sc. (Medical) 1<sup>st</sup> year course at Govt College, Chhara, Jhajjar</li> <li>Incharge, Teaching-learning and Evaluation Activities</li> <li>Member, Executive committee in MDU Teaching Association</li> </ol>
<b>b</b> )	Examination and evaluation duties assigned by the university or attending the examination paper evaluation.	Examination Duties (MDU, Rohtak)  Question Paper Setting (MDU, Rohtak)  Evaluation Duties (MDU, Rohtak)  Question Paper Setting (CDLU Sirsa)  Evaluation Duties (Himachal Pradesh University)
		Thesis Evaluation (Sri Satya Sai University of Technology and Medical Science, Sehore) Thesis

		Evaluation (Sri Satya Sai University of Technology and Medical Science, Sehore)
<b>c</b> )	Student related cocurricular, extension and field-based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS and other community services/outreach activities.	<ol> <li>Member of Organizing Committee (Inter Zonal Youth Festival – 2021-22)</li> <li>Judge, Declamation Contest, World Sustainability Energy Day, organized by ESM Cell on 4<sup>th</sup> March 2021</li> <li>Coordinator Reception Committee, Rang Bahar (2021)</li> </ol>
d)	Organising seminars/ conferences/ workshops, other academic activities.	<ol> <li>Member, Ph.D. Admission Committee</li> <li>Member, Faculty of Life Science (2021-22)</li> <li>Member, Departmental Research Committee</li> <li>Member, Research Advisory Committee (2021)</li> <li>Member, Sub-committee to finalize Youth Red Cross Merit Certificate</li> <li>Member, M.Sc. Admission Committee</li> <li>Member, Purchase Committee</li> <li>Member, UGBOS Committee (2021-23)</li> <li>Mentor, MSc. Student (Botany Department, MDU Rohtak)</li> <li>Member, Life Membership in MDU Rohtak, Department of Alumni Relation</li> <li>Life Membership, Indian Science Congress Association</li> <li>Life Member, Society for Science of Climate Change</li> </ol>

		and Environmental Sustainability
		13. Life Member, Society of Pharmaceutical Education & Research
		14. Life Member, All Indian Microbiology Association
	Participation in National/International Conferences/Seminar/W orkshop/Webinar	1. Participated one day National Webinar on Indian Biodiversity Issues, Challenges and Initiatives organized by Deptt of Botany, Vidyabharti College, Seloo, Distt Wardha (442104) on 19 <sup>th</sup> January 2021
	orkshop, weshar	2. Participated one day National Workshop on Annual Quality Assurance Report Framework (2020-21) organized by IQAC, MDU, Rohtak on 18 <sup>th</sup> November, 2021
		3. Participated in National Webinar cum Training Program on Distilleries – Ethanol Industries: Environment Clearance (EC), Enviro-legal implication and allied Subjects organized by Alumni Association JNU on 22 July 2021
<b>e</b> )	Evidence of actively involved in guiding Ph.D. students of MDU.	Guiding six PhD students of Botany, MDU Rohtak

Name	: Dr. Asha Sharma	Designation : Professor
Subject	: Botany	Academic Session/Period: 15-01-2022 to 15-01- 2023

Sr. No.	Name of the Activity	Activities Actually undertaken
1. a)	Involvement in the s Administrative responsibilities such as Head, Chairperson/ Dean/ Director/ Co- ordinator, Warden or any other administrative responsibility assigned by the Vice Chancellor/Executive Council for a period of not less than 6 months in the assessment year under consideration	<ol> <li>tudents related activities and research activities:         <ol> <li>Member, Inspection Committee regarding grantof Extension in Provisional affiliation for B. Sc. (Nonmedical) 2<sup>nd</sup> year course at CHL Govt College, Chhara, Jhajjar</li> <li>Member, Inspection Committee regarding grantof Extension in Provisional affiliation for B. Sc. (Medical) 2<sup>nd</sup> year course at CHL Govt College, Chhara, Jhajjar</li> <li>Member, Executive committee in MDU Teaching Association</li> </ol> </li> <li>Incharge, Teaching-learning and Evaluation Activities</li> </ol>
<b>b</b> )	Examination and evaluation duties assigned by the university or attending the examination paper evaluation.	Examination Duties (MDU, Rohtak)  Question Paper Setting (MDU, Rohtak)  Evaluation Duties (MDU Rohtak)  Evaluation Duties (Indira Gandhi University, Rewari)  Evaluation Duties (Himachal Pradesh University)  Question Paper Setting (CDLU, Sirsa)  Question Paper Setting (Indira Gandhi University, Rewari)

		External Examiner, Practical Exams, Jan Nayak Ch. Devilal Memorial College, Sirsa
		External Examiner, Practical Exams, CDLU, Sirsa
		External Examiner, Practical Exam, Govt College For Women, Rohtak
c)	Student related cocurricular, extension and field-based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS and other community services/outreach activities.	<ol> <li>Coordinator, National Intellectual Property Awareness Mission, MDU, Rohtak</li> <li>Judge, Poster Making Competition, Law Fest, MDU Rohtak</li> <li>Extension Lecture at Govt. Sr. Sec. School, Gandhi Nagar and SNR Govt Sr. Sec. School, Ismaila, Rohtak</li> <li>Member, Stage Management Committee, Youth Festival, MDU, Rohtak</li> <li>Member, Sub-Committee Meeting, University Youth Red Cross, MDU, Rohtak</li> <li>Coordinator Reception Committee, Rang Bahar (2022)</li> <li>Member, Stage Committee, World Red Cross Day (State Level Program), MDU Rohtak</li> <li>Judge, Poster Making Competition, World Environment Day, MDU, Rohtak</li> <li>Judge, Slogan Writing Competition, World Environment Day, MDU, Rohtak</li> <li>Programme Counsellor, Youth Red Cross (2022-23)</li> </ol>
		11. Member, Organizing Committee, World Intellectual Day, MDU Rohtak
		12. Chairperson, One Week National Workshop under UGC-Stride Programme
<b>d</b> )	Organising seminars/ conferences/	1. Member, First-Aid Committee, Eminent Alumni

academic activities.  2. Member, Invigilator Staff, Entrance Examination, Faculty of Life Science 3. Chairperson, One Week Workshop on Research Methodology, MDU, Rohtak 4. Member, UGBOS Committee (2021-22) 5. Member of PGBOS (2022-24) 6. Coordinator, One Day Induction Programme-cum-Workshop, MDU, Rohtak 7. Member, Organizing Committee, One Week Workshop, MDU Rohtak 8. Expert, DRC Panel (BMU, Rohtak) 9. Member, M.Sc. Admission Committee 10. Mentor, MSc. Student (Botany Department, MDU Rohtak) 11. Member, Faculty of Life Science (2021-22) 12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation 13. Life Membership, Indian Science Congress Association 14. Life Member, Society for Science of Climate Change and Environmental Sustainability 15. Life Member, Society of Pharmaceutical Education & Research 16. Life Member, All Indian Microbiology Association 17. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022 2. Participated One Day Workshop on NAAC Documentation for UTDs on 14 November 2022	workshops, other	Speak Series, MDU Rohtak
Methodology, MDU, Rohtak  4. Member, UGBOS Committee (2021-22)  5. Member of PGBOS (2022-24)  6. Coordinator, One Day Induction Programme-cum-Workshop, MDU, Rohtak  7. Member, Organizing Committee, One Week Workshop, MDU Rohtak  8. Expert, DRC Panel (BMU, Rohtak)  9. Member, M.Sc. Admission Committee  10. Mentor, MSc. Student (Botany Department, MDU Rohtak)  11. Member, Faculty of Life Science (2021-22)  12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  17. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC	academic activities.	, ,
5. Member of PGBOS (2022-24) 6. Coordinator, One Day Induction Programme-cum-Workshop, MDU, Rohtak 7. Member, Organizing Committee, One Week Workshop, MDU Rohtak 8. Expert, DRC Panel (BMU, Rohtak) 9. Member, M.Sc. Admission Committee 10. Mentor, MSc. Student (Botany Department, MDU Rohtak) 11. Member, Faculty of Life Science (2021-22) 12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation 13. Life Membership, Indian Science Congress Association 14. Life Member, Society for Science of Climate Change and Environmental Sustainability 15. Life Member, Society of Pharmaceutical Education & Research 16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022 2. Participated One Day Workshop on NAAC		
6. Coordinator, One Day Induction Programme-cum-Workshop, MDU, Rohtak 7. Member, Organizing Committee, One Week Workshop, MDU Rohtak 8. Expert, DRC Panel (BMU, Rohtak) 9. Member, M.Sc. Admission Committee 10. Mentor, MSc. Student (Botany Department, MDU Rohtak) 11. Member, Faculty of Life Science (2021-22) 12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation 13. Life Membership, Indian Science Congress Association 14. Life Member, Society for Science of Climate Change and Environmental Sustainability 15. Life Member, Society of Pharmaceutical Education & Research 16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  Vorkshop/Webinar  Participated One Day Workshop on NAAC		4. Member, UGBOS Committee (2021-22)
Workshop, MDU, Rohtak  7. Member, Organizing Committee, One Week Workshop, MDU Rohtak  8. Expert, DRC Panel (BMU, Rohtak)  9. Member, M.Sc. Admission Committee  10. Mentor, MSc. Student (Botany Department, MDU Rohtak)  11. Member, Faculty of Life Science (2021-22)  12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  Vorkshop/Webinar  2. Participated One Day Workshop on NAAC		5. Member of PGBOS (2022-24)
Workshop, MDU Rohtak  8. Expert, DRC Panel (BMU, Rohtak)  9. Member, M.Sc. Admission Committee  10. Mentor, MSc. Student (Botany Department, MDU Rohtak)  11. Member, Faculty of Life Science (2021-22)  12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		, ,
9. Member, M.Sc. Admission Committee  10. Mentor, MSc. Student (Botany Department, MDU Rohtak)  11. Member, Faculty of Life Science (2021-22)  12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		
10. Mentor, MSc. Student (Botany Department, MDU Rohtak)  11. Member, Faculty of Life Science (2021-22)  12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		8. Expert, DRC Panel (BMU, Rohtak)
Rohtak)  11. Member, Faculty of Life Science (2021-22)  12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		9. Member, M.Sc. Admission Committee
12. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC- Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		
Department of Alumni Relation  13. Life Membership, Indian Science Congress Association  14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		11. Member, Faculty of Life Science (2021-22)
14. Life Member, Society for Science of Climate Change and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		_ · · · · · · · · · · · · · · · · · · ·
and Environmental Sustainability  15. Life Member, Society of Pharmaceutical Education & Research  16. Life Member, All Indian Microbiology Association  Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC-Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		13. Life Membership, Indian Science Congress Association
Participation in National/International Conferences/Seminar/ Workshop/Webinar  Research  16. Life Member, All Indian Microbiology Association  1. Attended National Workshop organized under UGC- Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		, ,
Participation in National/International Conferences/Seminar/ Workshop/Webinar  1. Attended National Workshop organized under UGC- Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		· •
National/International Conferences/Seminar/ Workshop/Webinar  Stride Programme on 14-15 October, 2022  2. Participated One Day Workshop on NAAC		16. Life Member, All Indian Microbiology Association
vv orkshop/ vv edmar	National/International	Stride Programme on 14-15 October, 2022
1 1		

e)	Evidence of actively	Guiding seven PhD students
	involved in guiding	
	Ph.D. students of	
	MDU.	

Name	: Dr. Asha Sharma	Designation : Professor
Subject	: Botany	Academic Session/Period: 15-01-2023 to 15-01- 2024

Sr. No.	Name of the Activity	Activities Actually undertaken
a)	1. Involvement in the stu Administrative responsibilities such as Head, Chairperson/ Dean/ Director/ Co- ordinator, Warden or any other administrative responsibility assigned by the Vice Chancellor/Executive Council for a period of not less than 6 months in the assessment year under consideration	<ol> <li>dents related activities and research activities:</li> <li>Nodal Officer, University Youth Red Cross, MDU, Rohtak</li> <li>Member, Committee to Scrutinize for the post of Associate Professor in Botany Department (CBLU, Bhiwani) on 15-09-2023</li> <li>Member, Committee to Scrutinize for the post of Assistance Professor and Professor in Botany Department (CBLU, Bhiwani) on 20-07-2023</li> <li>Member, Executive committee in MDU Teaching Association</li> <li>Incharge, Teaching-learning and Evaluation Activities</li> </ol>
<b>b</b> )	Examination and evaluation duties assigned by the university or attending the examination paper evaluation.	Examination Duties (MDU, Rohtak)  Question Paper Setting (MDU, Rohtak)  Question Paper Setting (MDU, Rohtak)  External Examiner for Practical Examination, Indira Gandhi University, Rewari  Question Paper Setting (Indira Gandhi University, Rewari)  Evaluation Duties (Himachal Pradesh University)  External Examiner for Practical Examination, Jan Nayak Ch. Devi Lal Memorial College, Sirsa

		External Examiner for Practical Examination, CDLU, Sirsa
		External Examiner for Practical Examination, IGU, Mirpur, Rewari
c)	Student related cocurricular, extension and field-based activities such as student clubs, career counselling, study visits, student seminars and other events, cultural, sports, NCC, NSS and other community services/outreach activities.	<ol> <li>Member, Physical Counselling Committee, Faculty of Life Science</li> <li>Member, Anti-Ragging Committee</li> <li>Chairman, National Conference on Promoting IPR in University System organized by Centre for IPR Studies, MDU Rohtak</li> <li>Counsellor, Awareness Program on Road Safety by Youth Red Cross, MDU, Rohtak</li> <li>Member, Committee to check the menace sexual harassment and Violence against women, Botany Department, MDU, Rohtak</li> <li>Coordinator Reception Committee, Rang Bahar (2023)</li> <li>Duty in Induction Program (11-09-2023 to 12-09-2023) at Tagore Auditorium, MDU, Rohtak</li> <li>Member, Organizing committee, Environmental Documentary Fest-2023 organized jointly by EMS Cell and Department of Journalism &amp; Mass Communication</li> </ol>
d)	Organising seminars/ conferences/ workshops, other academic activities.	<ol> <li>Member, PGBOS Committee</li> <li>Member, Accommodation Committee, 63rd Annual International Conference of AMI, MDU, Rohtak</li> <li>Member, Faculty of Life Science</li> <li>Member, Board of Studies in Botany, JCD Vidyapeeth, Sirsa</li> </ol>
		5. Committee Member, One Week Training Program on Environmental Challenges and Solutions

		organized by Environment Sustainability Management Cell, MDU Rohtak  6. Mentor, MSc. Student (Botany Department, MDU Rohtak)  7. Member, Faculty of Life Science (2021-22)  8. Member, Life Membership in MDU Rohtak, Department of Alumni Relation  9. Life Membership, Indian Science Congress Association  10. Life Member, Society for Science of Climate Change and Environmental Sustainability  11. Life Member, Society of Pharmaceutical Education & Research  12. Life Member, All Indian Microbiology Association
	Participation in National/International Conferences/Seminar/W orkshop/Webinar	<ol> <li>Participated in Five Day Health Awareness Camp organized by Youth Red Cross, MDU, Rohtak</li> <li>Participated in One Day Workshop on Curriculum and Credit Framework for Undergraduate Programmes on 8<sup>th</sup> April, 2023</li> </ol>
e)	Evidence of actively involved in guiding Ph.D. students of MDU.	Guiding seven PhD students
f)	Conducting minor or major research project sponsored by national or international agencies.	Co-investigator in project sanctioned by Haryana State AIDS Control Society, Panchkula (Assessment of awareness regarding importance of HIV testing within 1 <sup>st</sup> trimester among pregnant females)

### List of Major Publications During the Period 2021-2024

# Papers in Journals in Web of Science/Scopus (18)

- **1.** Singh, P., Kumar, V., & Sharma, A. (2024). Assessment of yield and quality management with the exogenous application of silicon in contrasting wheat varieties under salinity stress. Cereal Research Communications, 1-20. (Electronic ISSN 1788-9170) (Impact Factor: 1.6)
- **2.** Sharma, J., Kumar, S., Kumar, N., Yadav, N., Khyalia, P., & Sharma, A. (2024). Evaluation of yield and quality attributes of barley cultivars with foliar spray of glycine betaine under lead toxicity. Cereal Research Communications, 1-10. (Electronic ISSN 1788-9170) (Impact Factor: 1.6)
- **3.** Saini, S., Sharma, P., Sharma, J., Pooja, P., & Sharma, A. (2024). Drought stress in Lens culinaris: effects, tolerance mechanism, and its smart reprogramming by using modern biotechnological approaches. Physiology and Molecular Biology of Plants, 30(2), 227-247. (Electronic ISSN 0974-0430) (Impact Factor 3.4)
- **4.** Sharma, J., Kumar, S., Kumar, V., Singh, P., Khyalia, P., Verma, S., ... & <u>Sharma, A</u>. (2023). Foliar application of glycine betaine to ameliorate lead toxicity in barley plants by modulating antioxidant enzyme activity and biochemical parameters. *Environmental Research Communications*. (Online ISSN: 2515-7620) (**Impact Factor 2.9**)
- **5.** Singh P, Kumar V, Sharma J, <u>Sharma A</u>. Evaluation of silicon-facilitated growth performances and regulation of Na+ and K+ homeostasis in salt-stressed wheat varieties. Cereal Research Communications. 2023 May 31:1-6. (Electronic ISSN 1788-9170) (**Impact factor 1.4**)
- **6.** Kumar V, Singh P, <u>Sharma A</u>. Recent trends of potential medicinal uses of rice bran with its composition and bibliographic analysis. eFood. 2023 Jun;4(3): e86. (Online ISSN:2666-3066) (**Scopus Indexed**)
- 7. Kumar V, Singh P, Sharma J, Saini S, Sharma P, <u>Sharma A</u>. Rice straw management through biofuel, biochar, mushroom cultivation, and paper production to overcome environmental pollution in North India. Waste Disposal & Sustainable Energy. 2023 Jun 14:1-28. (Electronic ISSN 2524-7891) (Scopus Indexed)
- **8.** Singh P, Kumar V, <u>Sharma A</u>. Interaction of silicon with cell wall components in plants: A review. Journal of Applied and Natural Science. 2023 Jun 20;15(2):480-97. (Online ISSN: 2231-5209) (**Scopus Indexed**)
- **9.** Singh P, Dhankhar J, Kapoor RK, <u>Sharma A</u>. A comparative study on GC-MS analysis and antimicrobial activity of bioactive compounds present in aerial parts (leaf and fruit) of *Ficus benghalensis* L. Journal of Applied and Natural Science. 2023 Jun 20;15(2):870-83. (Online ISSN: 2231-5209) (**Scopus Indexed**)
- **10.** Singh P, Dhankhar J, Kapoor RK, Kumar D, Bhatia S, Al-Harrasi A, Sharma A. *Ficus benghalensis*—A comprehensive review on pharmacological research,

- nanotechnological applications, and patents. Journal of Applied Pharmaceutical Science. 2023 Jun 16. (ISSN Online: 2231-3354) (**Scopus Indexed**)
- **11.** Singh Preeti, Dhankhar Jyotika and <u>Sharma Asha</u> (2023). Phytochemical profiling, antioxidant and antimicrobial activity of aerial parts (stem bark and aerial roots) of Ficus benghalensis L. *Res. J. Chem. Environ;* Vol. 27(10); 72-87. (ISSN: 0972-0626) (**Scopus Indexed**)
- **12.** Saini S, Sharma P, Singh P, Kumar V, Yadav P, <u>Sharma A</u>. Nitric oxide: An emerging warrior of plant physiology under abiotic stress. Nitric Oxide. 2023 Oct 15. Vol 140-141, pg 58-76. (Online ISSN: 1089-8611) (**Impact Factor 3.9**)
- **13.** Jyoti Sharma, Sandeep Kumar, Pooja Singh, Vikram Kumar, Shivani Verma, Pradeep Khyalia, <u>Asha Sharma.</u> Emerging role of osmoprotectant glycine betaine to mitigate heavy metals toxicity in plants: A systematic review. *Biologia Futura*. 2023. (ISSN: 2676-8607) (**Impact Factor 2.1**)
- **14.** Jyoti Sharma, Sandeep Kumar, Vikram Kumar, Pooja Singh, Pradeep Khyalia, Sakshi Saini, Priyanka Sharma, Ajay Kumar, <u>Asha Sharma</u>. Stress-mitigating behavior of glycine betaine to enhance growth performance by suppressing the oxidative stress in Pb-stressed barley genotypes. *Environ Sci Pollut Res* (2023). https://doi.org/10.1007/s11356-023-31731-x. (ISSN: 1614-7499)(**Impact Factor 5.8**)
- **15.** Singh P, Kumar V, Sharma J, Saini S, Sharma P, Kumar S, Sinhmar Y, Kumar D, Sharma A. Silicon supplementation alleviates the salinity stress in wheat plants by enhancing the plant water status, photosynthetic pigments, proline content and antioxidant enzyme activities. *Plants*. 2022 Sep 26;11(19):2525. (ISSN: 2223-7747) (Impact Factor 4.5)
- **16.** Pooja, Vikram, Sharma J, Verma S, <u>Sharma A</u>. Importance of silicon in combating a variety of stresses in plants: A review. Journal of Applied and Natural Science. 2022 Jun 18;14(2):607-30. (Online ISSN: 2231-5209) (**Scopus Indexed**)
- **17.** Vikram, Pooja, Sharma J, <u>Sharma A</u>. Role of Brassinosteroids in plants responses to salinity stress: A review. Journal of Applied and Natural Science. 2022 Jun 18;14(2):582-99. (Online ISSN: 2231-5209) (**Scopus Indexed**)
- **18.** Yadav P, <u>Sharma A</u>, Singh S. A review on regulatory control of chromium stress in plants. Journal of Applied and Natural Science. 2022 Dec 19;14(4):1204-24. (Online ISSN: 2231-5209) (**Scopus Indexed**)

## **Major Papers in Journals in UGC- Care list of Peer Reviewed (3)**

- 1. Kanupriya, Kumar M, Dhiman A, <u>Sharma A</u>. Phytochemical Investigation of *Digitaria eriantha* as a potential medicinal crab grass. Neuro Quantology. 2022 Sept. Vol 20. Issue 9, Pg 2602-2606. (ISSN 2582-7421)
- 2. Mishraa, S., Mishrab, N. K., <u>Sharma, A.</u>, Duttad, A. K., & Kumar, D. (2021) BIOMASS RESOURCES: OLD BUT NEWER SOURCE FOR FUTURE ENERGY DEMANDS IN BHIWANI DISTRICT (HARYANA) INDIA. (ISSN: 2321 3655)
- 3. Amit Kumar Dutta, Puja Kumari, Sugandha Mishra, Rajesh Kumar Sharma, Sajid Husain, N.K Mishra, <u>Asha Sharma</u>, Dhirendra Kumar. (2021) Population based research and statisticalanalysis on sars-covid\_19 and recovery rate at jharkhand state. INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS, Vol 8(2).

### List of Major Books and Chapters in Edited Books During 2021-2024

#### **Book Authored (1)**

1. Dhirendra Kumar, Sheetanshu Gupta, <u>Asha Sharma</u> (2023) Plants and metal-based nanomaterials and their application. IV Gardners Incorporation.

### **Book Chapters in Edited Books (11)**

- 1. Pooja Singh, Vikram Kumar, <u>Asha Sharma</u> (2021) Delta Variant: Its Transmissibility and Prevention. In *COVID-19 second wave: challenges for sustainable development*. Digambarrao Bindu ACS College, Bhokar Dist. Nanded (MS) and Asian Biological Research Foundation (ABRF) Prayagraj, India (ISBN: 978-93-559305-5-2).
- Jyoti Sharma, Pooja Singh, Vikram Kumar, <u>Asha Sharma</u> (2021) Impact of COVID-19 on Environment Health: A Boon or Bane. In *COVID-19 second wave: challenges for sustainable development* Digambarrao Bindu ACS College, Bhokar Dist. Nanded (MS) and Asian Biological Research Foundation (ABRF) Prayagraj, India (ISBN: 978-93-559305-5-2).
- 3. Vikram Kumar, Pooja Singh, <u>Asha Sharma</u> (2021) Physical distancing and Psychological Impacts of COVID-19: Challenges and its Response. In *COVID-19 second wave: challenges for sustainable development* Digambarrao Bindu ACS College, Bhokar Dist. Nanded (MS) and Asian Biological Research Foundation (ABRF) Prayagraj, India (ISBN: 978-93-559305-5-2).
- 4. Pooja Singh, <u>Asha Sharma</u>, Vikram Kumar (2021) Silicon- An emerging approach to agriculture. In *Recent Approaches in Sustainable Agriculture Development and Food Security, Crop Management, Forestry, Food Technology and Environmentally Balanced Production Enhancement.* Mahima Research Foundation and Social Welfare194, Karaundi, Banaras Hindu University, Varanasi-221 005, UP, India
- 5. Preeti Singh, Jyotika Dhankhar, <u>Asha Sharma</u>, Adarsh Kumar (2021) Sleep Disturbances during COVID-19 pandemic. In *COVID-19 Pandemic and Its Impact On Biodiversity*. Redshine Publication.
- 6. Sugandha Mishra, Dhirendra Kumar, Rajesh Kumar Sharma, Amit Kumar Dutta, <u>Asha Sharma (2021)</u> Wastewater Pollution, Toxicity Profile, and Their Treatment Approaches: A Review. In *Microbial Technologies for Wastewater Recycling and Management*. CRC Press Taylor and Francis Group.
- 7. Preeti Singh, <u>Asha Sharma</u>, Jyotika Dhankhar (2022) Climate change and soil fertility. In *Plant Stress Mitigators action and application*. Springer Nature Singapore Pvt. Ltd.
- 8. Pooja Singh, Vikram Kumar, Jyoti Sharma, Sakshi Saini, Priyanka Sharma, Sandeep Kumar & <u>Asha Sharma</u> (2023) Multifaceted Mechanisms of Silicon in Alleviation of Drought Stress in Plants. In *Salinity and Drought Tolerance in Plants Physiological Perspectives*. Springer Singapore (**Hardcover ISBN** 978-981-99-4668-6)

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