

**DR. ASHA SHARMA**  
**ASSOCIATE PROFESSOR,**  
**DEPARTMENT OF BOTANY, M.D. UNIVERSITY, ROHTAK**  
**(HARYANA)**  
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**A) Educational Qualifications: M.Sc., Ph.D.**

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

**Career Profile of last Fourteen years : 30 research papers**

**published in reputed journals,**

**10 Book chapters, 3 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
	<b>Extension, Co-curricular &amp; related activities</b>
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 and Institution through participation in academic and administrative committees and responsibilities</b>
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
	<b>Professional Development Related Activities</b>
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.
4	Attended and presented Poster in the Zonal Seminar on “Abiotic Stress Tolerance in Plants- Physiological and Molecular Approaches” organized by Centre for Plant Biotechnology, Hisar on 5th Dec., 2009.
5	Attended “17th Annual Conference of the Indian Association of Clinical 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	<p>organized by Department of Biotechnology, University Institute of Engineering &amp; Technology, M.D. University, Rohtak on 24th Nov., 2009</p>
7	<p>Attended National Seminar on “Biodiversity: Concerns &amp; Solutions” organized by Department of Botany, M.D. University, Rohtak on 20th Nov., 2009.</p>
8	<p>Attended trends in translational medicine organized by Deptt of Biotechnology and Molecular medicine of Pt. B D S PGIMS, Rohtak on January 9, 2009.</p>
9	<p>Attended the Workshop on Biosensor development at M.D. University in 2007</p>
10	<p>Participatrd in Two day Workshop on “Application of SPSS Software in Research “organized by Institute of Hotel &amp; Tourism Management ,M.D.University,Rohtak on April (19-20),2011.</p>
11	<p>Asha Sharma ;Comparative study of Ni tolerance in four cultivars of Brassica Juncea (L.czern.).. Abstract book Zonal Seminar on Abiotic Stress tolerance in Plants: Physiological and molecular approaches. (5 Dec.2009).</p>
12	<p>AshaSharma;,R.P.singh,;Manoj Kumar;AnitaSehrawat; Detection of heavy metals in industrial effluents ,sewage wastewater,soil &amp; 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).</p>
13	<p>Anita Sehrawat,Asha Sharma;Evaluation of alkaloids in multiple shoot cultures of <i>Catharanthus roseus</i> G.Don. Abstract in National Conference on Environmental and Health Issues:In a Changing Climatic Scenario (Oct.14-15,2010).</p>
14	<p>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).</p>
15	<p>One day workshop on Personality development and communication Skills organized by Dept. of Botany on 22.11.2013</p>
16	<p>Attended on day Seminar on Novel Antimicrobials: an alternative to clinical antibiotics held by M.D.University on 14 Sept.,2013</p>
17	<p>Attended National Seminar on Eco- friendly environment on March 12,2013 in G.V.M.Girls College ,Sonepat</p>
18	<p>Participated in workshop on Biological database and sequence analysis in dept. of Botany, M.D.University on 29-03-2013</p>
19	<p>Attended 1 day international research colloquium in department of</p>

	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. No	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.) cultivars in growth, nitrate assimilation, antioxidative response and phytoremediation 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> ), <i>International journal of biological and pharmaceutical research</i> , 4(11), (827-834).	<i>International journal of biological and pharmaceutical research</i> , 4(11), (827-834).
4	Sharma Asha, Dhiman Anju, Sindhu Pawan (2013). Study of phenol and protein in wheat ( <i>Triticum aestivum</i> ) and apple ( <i>Malus domestica</i> ). <i>International journal of biological and pharmaceutical research</i> , 4(12), (1081-1087).	<i>International journal of biological and pharmaceutical research</i> , 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 Dhanial, Asha Sharma, P. K. Jaiwal; Biotechnological approach to remove Phytoremediation efficiency for environmental contamination. Etd. Vol. of Bioremediation- a Noval technology by Springer (2006).

## Research projects

S. No.	Title & type of projects (sponsored/consultancies) (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. No.	Title & type of projects (Major/Minor)	Funding agency	Period	Grant/ Amount Mobilized (Rs in Lakh)	Whether patent/technology/transfer/ product/process/major policy of Govt (Bodies at Central and State level)
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	Accumulation, partitioning and metabolic alterations in wheat ( <i>Triticum aestivum</i> L.) grown under arsenic contaminated conditions	Received Project	U.G.C.	1-7-2012 to 31-12-2016	14,23,300
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**Refresher Course, methodology workshops, Training, Teaching-Learning-Evaluation Technology Programmes, Soft skills development Programmes, faculty Development Programmes**

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

**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. No	Whether lecture delivered/academic session chaired
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
	<b>Extension, Co-curricular &amp; related activities</b>
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

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



## 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> ).	<i>International journal of recent scientific research</i> 5(10), (1740-1744)
2	Govinda, Asha Sharma, Sandeep Singh (2014). NaCl and Cd stress effect on shoot growth of potato cultivar.	<i>International Journal of Research (IJR)</i> , 1 (11).
3	Manoj Kumar, Gitika, Asha Sharma (2014). In vitro antibacterial activity of flower extracts of <i>Qusiqualis indica</i> Linn. against gram-positive and gram-negative bacteria. <i>International</i> . Citation index 1	<i>journal of advances in pharmacy, biology and chemistry</i> ,3(3), (781-785)
4	Govinda, Asha Sharma, Sandeep Singh (2014). A brief review of varities of <i>Solanum tuberosum</i> .	<i>International Journal of Innovative Pharmaceutical Sciences and Research</i> 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.	<i>International journal of biological and Pharmaceutical research</i> 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.	<i>J. Env. Sci. Eng. Tech.</i> 3 (4), (1779-1795)
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	<i>Bioremediation Journal</i> 18, (100-110)
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> .	<i>Journal of international acedmeic research for multidisciplinary</i> 2(2), (310-318)
9	Pawan Sindhu, Asha Sharma, Annu Devi, Pooja Tomar and Deekshant (2015). Toxicity of arsenic on	<i>Indian research journal of genetics and biotechnology</i> 1(7),

	germination rate and other parameters of wheat ( <i>Triticum aestivum</i> ).	
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**Research publications (Chapter in books/monograph other than referred journal articles)**

S. No	Chapter in a book/monograph	Title with name of authors as appearing in the publications
1	Book	Jitender k. Verma, D kishore, S Sharma, Asha Sharma (2014) (ed.) Evaluation of biotic and abiotic factors for production of healthy 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.	Programme	Duration	Organised by
1	Training orientation Course for NSS programme officers	24.07.2013 to 30.07.2013	IDC ,Ministry of youth affairs & sports,Govt. of India,M.D.University,Rtk-124001

**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	HIV Vaccines Treatment and Medication	Dr. Asha Sharma	54 <sup>th</sup> annual conference of association of microbiologists of India (AMI)	17.20.2013	International Symposium

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

S. No.	Nature of Activity
	<b>Extension, Co-curricular &amp; related activities</b>
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 Institution through participation in academic and administrative committees and responsibilities</b>
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	Attended 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. No	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos
1	Govinda, Singh S, Sharma Asha (2015). Cholesterol Biosensor – A Review.	<i>Int. J. Biotech Biosci.</i> 3 (1), (1-12)
2	Govinda, Asha Sharma, Sandeep Singh (2015). Analysis of soil parameters after the full growth of the kufari bahar cultivar of <i>Solanum tuberosum</i> .	<i>International Journal Of Research (Ijr)</i> 2(7)
3	Pawan Sindhu, Asha Sharma, Deekshant Rai, Priya (2015). Toxicity of arsenic On Growth Parameters of Wheat ( <i>Triticum aestivum L.</i> ).	<i>Journal Of International Academic Research For Multidisciplinary</i> 3(6), (27-31)
4	Pawan Sindhu, Asha Saharma, Pooja and Priya (2015). Total chlorophyll and total protein content in wheat ( <i>Triticum aestivum</i> ) grown under arsenic stress.	<i>International Journal of Recent Scientific Research</i> 6(7), (5072-5075)

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

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

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

S.No.	Programme	Duration	Organised by
1	Summer school for capacity building and training programme for geospatial technology	21 days	Department of geography M.D. University, Rohtak

**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	The effect of NaCl treatment on growth and different physiological parameters of <i>Brassica juncea</i>	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

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

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

S. No.	Nature of Activity
	<b>Extension, Co-curricular &amp; related activities</b>
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 festival for 2015-16
	<b>Contribution to Corporate Life and Management of the Department and Institution through participation in academic and administrative committees and responsibilities</b>
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
	<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 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. No	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos
1	Asha Sharma, Pooja, Annu Devi and Pawan Sindhu (2016). Effect of salt stress (NaCl) on different growth parameters, photosynthetic pigments and lipid peroxidation in the leaves of local cultivar of tomato ( <i>Solanum lycopersicum</i> ).	<i>International Journal Of Recent Scientific Research</i> , 7(11), (14413-14419)

## 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	Experimental Biochemistry of Enzymology of Perturbation of Xenobiotic Compounds by Lignin Squalor Fungi ed. 1 ISARA Publications New Delhi
2	National level publisher	Dr.Govinda , Dr Sandeep Singh, and Dr. Asha Sharma (2016) Biochemical and metabolic study of <i>Solanum tuberosum</i> in response to Cd and salt stresses ed. 1 .Neelkanth Prakashan New Delhi	Biochemical and metabolic study of <i>Solanum tuberosum</i> in response to Cd and salt stresses ed. 1 .Neelkanth Prakashan New Delhi

## Research Guidance

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



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

<b>S. No</b>	<b>Title of the Paper presented</b>	<b>Presented by</b>	<b>Title of the Conference / Seminar etc and organizer</b>	<b>Dates of the event</b>	<b>Whether international / national / state / regional / university or college level</b>
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**

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

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

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. No	Title with name of authors as appearing in the publication	Journal, Vol, Year, page nos
1	Govinda, Asha Sharma, Anju Dhiman , Sandeep Singh , Nidhi (2017), kinetin functions in nitrate assimilation in leaves of arsenic stressed <i>Vigna radiata</i> .	<i>Journal of Pharmaceutical and Scientific Innovation</i> , 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> .	<i>International Research Journal of Pharmacy</i> , 8 (2), (16-24).

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

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

## Completed Projects Quality Evaluations

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

## 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.	Programme	Duration	Organised by
1	UGC sponsored refresher course	4.11.2017 to 24.11.2017	Human resource development centre Kumaun University, Nainital (Uttarakhand)

**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	The effects of salinity on Tomato cultivars	Dr. Asha Sharma	National conference on Genetic diversity	17 September, 2016	National conference

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

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

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

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

		<b>research</b>			
<b>2</b>	<b>Chaired</b>	<b>Role of digitalization in sustainable development : a global perspective</b>	<b>16-17 Sept, 2017</b>	<b>2 days interdisciplinary International conference</b>	<b>International</b>

**Jan.2018-Jan.2019**

**CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES**

<b>S. No.</b>	<b>Nature of Activity</b>
<b>1</b>	<b>Extension, Co-curricular &amp; related activities</b>
	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
<b>2.</b>	<b>Contribution to Corporate Life and Management of the Department and Institution through participation in academic and administrative committees and responsibilities</b>
	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
<b>3.</b>	<b>Professional Development Related Activities</b>
	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, Sponsored 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 ACTIVITIES

S. No.	Nature of Activity
<b>1</b>	<b>Extension, Co-curricular &amp; related activities</b>
	Acted as a Judge in Poster Session in International Seminar on Sustainable Environment and Agriculture under Global Climate Change-2019 held on 21 <sup>st</sup> Feb., 2019 organized by Dept of Environment 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
<b>2.</b>	<b>Contribution to Corporate Life and Management of the Department and Institution through participation in academic and administrative committees and responsibilities</b>
	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 affiliation 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> -15 <sup>th</sup> November, 2019 at Stage-VI (Terrace of Tagore Auditorium)
	Member of Executive Council of Maharshi Dayanand University Teaching Association
3.	<b>Professional Development Related Activities</b>
	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 <i>Sustainable Environment</i> 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 Enviromental Sustainability

**Jan.2020 to Jan. 2021**

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

S. No.	Nature of Activity
1	<b>Extension, Co-curricular &amp; related activities</b>
	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 28 <sup>th</sup> 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.	<b>Contribution to Corporate Life and Management of the Department and Institution through participation in academic and administrative committees and responsibilities</b>
	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 affiliation 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.	<b>Professional Development Related Activities</b>
	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 Enviromental 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 Quiz</i> 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; Biophotonics 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 2020</i> 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 (Basic Science &amp; Social Science)</i> 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 <i>national virtual conference on COVID'19 Pandemic: Voice of Youth- An Urgent Need of Psycho-Social Support</i> organized by MBGPG College,

## RESEARCH AND ACADEMIC STANDARDS

### (January 2018-January 2021)

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

S. No.	Title with name of authors as appearing in the publication	Journal, Vol, Year, page no.	Whether indexed/referred/non referred or conference proceedings	Impact Factor, if any	ISSN/ISBN No, if any	Whether you are first/principal/corresponding 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	<i>Curr. Res. Nutr Food Sci Jour.</i> 06, (1) : 203-210	Indexed/referred	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 <i>Brassica juncea</i> cultivars (L.)	<i>Int J Recent Sci Res.</i> 9(3),25087-25091	Indexed/referred	NAAS Score 3.65 (2020)	ISSN: 0976-3031	Supervisor
3.	Asha Sharma, Pooja, Anju Dhiman(2018). Tomato ( <i>Lycopersicum esculantum</i> ) Varieties as a Source of	<i>Asian Journal Of Biochemical and Pharmaceutical Research,</i>	Indexed and referred	Cosmos impact factor: 4.856	ISSN:2231-2560	Corresponding 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)	<i>Int J Recent Sci Res.</i> 9(3),25245-25250	Indexed/referred	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	<i>Journal of Microbiology, Biotechnology and Food Sciences (JMBFS)</i>	Indexed/referred (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 <i>Capsicum annum</i> .	<i>Annals of Agri Bio Research</i> 63	indexed/referred	Impact factor: 0.08	ISSN:09719660	Supervisor
8.	Chanchal Garg,Kamal Sharma,Asha Sharma and Kirpa Ram(2019).	<i>Global Journal of Bio Sciences and</i>	Indexed	Global impact factor(2	ISSN: 2278-9103, 2278-8891	Supervisor

	Effect of mannitol concentration on chilli genotypes.	<i>Biotechnology</i> , 8(1),(15-19).		015) 0.675		
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**Research publications (Chapter in books/monograph other than referred journal articles)**

S. No.	Chapter in a book/monograph/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 Spectroanalytical Techniques in Detecting the Heavy Metal and Salinity in <i>Solanum tuberosum</i> (cv. Kufri Bahar) During Indoor Study	Green Chemistry in Environmental Sustainability and Chemical Education, Parmar V., Malhotra P., Mathur D. (eds.)	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,	Ecophysiology, 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 Development 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. No.	Title & type of projects (sponsored/consultancies) (Major/Minor)	Carried out/ongoing	Funding agency	Period	Grant/ Amount Mobilized (Rs in Lakh)
1.	Wheat Genotypes Response to Silicon Nutrition Under Salinity Stress (Minor)	Ongoing	R-K Fund, MDU Rohtak	One Year	50,000/-

### 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-125001(HRY), One-Week workshop on “MOOC,s,e-Content Development and Open Educational Resources”	4 <sup>th</sup> Feb, 2019 to 9 <sup>th</sup> Feb, 2019 (one week)	UGC-HRDC, GJU,Hisar-125001(HRY),
2.	Capacity Building Programme (CBP)	11 March 2019 to 24 <sup>th</sup> March 2019 (Two weeks)	Faculty Development Centre, M.D. University, Rohtak.
Total Score (Max limit 30 points)			

**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	<b>Presented paper in poster session on “Application of green chemistry”</b>	Dr. Asha Sharma	<b>National conference on application of green chemistry in pharmaceutical sciences organized by DBIPR, Dehradun</b>	<b>16-17 March, 2018</b>	National
2	<b>Presented paper entitled “Study on cytotoxic ions sequestration and pottasium/sodium levels as</b>	Dr. Asha Sharma	<b>National seminar on Recent Trends in Science and Technology A Computational Approach RTSTCA-2018 organized by Faculty of Physical Sciences, CBLU, Bhiwani</b>	<b>22<sup>nd</sup> March, 2018</b>	National

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



6	<b>Presented paper entitled <i>New Techniques in Research in Two-Days International Multi-Disciplinary Seminar on Research Methodology</i> from 30<sup>th</sup> Nov-1<sup>st</sup> Dec 2019</b>	Dr. Asha Sharma	International Seminar on “ <i>New Techniques in Research in Two-Days International Multi-Disciplinary Seminar on Research Methodology</i> ” organized by Dept of Botany, MDU Rohtak	<b>30<sup>th</sup> Nov-1<sup>st</sup> Dec 2019</b>	International
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**Invited for conferences/seminars/workshops/symposia to deliver lectures/Chair sessions:**

S. No	Whether lecture delivered/academic session chaired	Title of Conference / Seminar etc	Dates of the event	Organiser	Whether international / national/state/regional/ university or college level
	<b>Delivered a Lecture</b>	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-	District welfare	State

		lecture on “ Teaching of Sant Shiromani Ravidas Ji” on the occasion of Ravidas Jayant	2019	office , Faridabad	
		5) Delivered a Lecture on <i>Organic Farming/Horticultu re</i> 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 <i>Horticulture Training.</i>	08-01- 2020	Govt. Middle School Sec-14, Rtk	State
		7) Delivered a one hour lecture in GMS School Sec- 14, Rtk on <i>Agriculture and Organic Farming</i>	09-01- 2020	Govt. Middle School Sec-14, Rtk	State
	Acted as Resource person (Poster Evaluator)	1 <sup>st</sup> 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