

SSR – CRITERIA – III; Department of Botany (NC)

3.1.2	The department provides seed money to its teachers for research
	3.1.2.1: The amount of seed money provided by department to its faculty year- wise during the last five years (INR in lakhs) (2019-2023)

S. No	Name of the faculty recipient of Seed Money	Date of grant DD-MM-YYYY	Amount granted (INR in Lakhs) (2019- 2023)
1	None		

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3.1.4 Percentage of JRFs, SRFs among the enrolled PhD scholars in the department during the last five years

3.1.4.1: The Number of JRFs, SRFs among the enrolled PhD scholars in the department during the last five years **(2019-2023)**

3.1.4.2: Number of PhD Scholars enrolled during last five years

3.1.4.1	Name of the Scholar	Specify the grants viz JRF/SRF/PDF/RA/ others (please specify)	Awarding agency	Year of award	Period of award (in years)	Award Letter available at
	Palak Bakshi	Inspire Fellow	DST	2022	3	
	Poonam Choudhary	NET	UGC	2025	6	
	Manzoor Hussain	SRF	CSIR	2024	5	
	Shagufta Rasheed	-		2021	5	
	Sufiya Rashid	JRF	CSIR	2023	5	
	Kausar Rashid	JRF	CSIR	2023	5	
	Irfan Iqbal Sofi			2024	5	
	Sakina Bano			2024	5	
	Bilal Ahmad Wani	JRF	CSIR	2024	5	
	Junaid Ahmad Magray	JRF	CSIR	2024		
3.1.4.2	Durukhshan Zehra	University Fellowship		Ongoing		
	Ruqia Mohi Ud Din	University Fellowship		Ongoing		
	Irfan Ahmad Lone	University Fellowship		Ongoing		
	Rabia Rashid	University Fellowship		Ongoing		
	Tariq Bashir Rather			Ongoing		
	Shahida Bashir			Ongoing		
	Mohinder Singh			Ongoing		
	Zarina Batool Nilofer			Ongoing		

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3.2.1

3.2.1 Research Funding received by the department and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowments, research Chairs during last five Years (INR in Lakhs) (2019-2023)
3.2.1.1: Total Grants for Reeserch funding received by the institution and its faculties through Government and non-government sources such as industry, corporate houses, international bodies for research project, endowments, research Chairs during last five Years (INR in Lakhs) (2019-2023)

3.2.2	Number of research projects per teacher funded by government, non-government, industry, corporate houses, international bodies during the last five year
	3.2.2.1: Number of research projects funded by government and non-government agencies during the last five years (2019-2023)
	3.2.2.2: Number of full-time teachers working in the institution during the last 5 years (2019-2023)

S. No	Name of the PI/ Co-PI/Name of the person holding the Chair	Title of the research project, endowments, Research Chairs	Name of the funding agency	Duration	Year of award or sanction	Amount in INR.
1	Dr. Bilal Ahmed Mir (Principal Investigator)	Autotetraploid induction in critically endangered high value Himalayan medicinal plant Podophyllum hexandrum as a means of, preventing extinction, mitigate climate change(s), colonize new ecogeographical regions and genetic improvement	Department of Biotechnology, Ministry of Science & technology, Govt. of India	3 Year	2021-24	28.62 Lac
2	Dr. Bilal Ahmad Mir (Principal Investigator)	Cloning and expression of thermophilic/hyperthermophilic lignocellulose digesting enzymes in plants for advanced biofuel production	Department of Biotechnology, Ministry of Science & technology, Govt. of India	5 years	2016-21	32.5 Lac
3	Dr. Bilal Ahmad Mir (Principal Investigator)	Isolation and functional analysis of oxidosqualene cyclase genes in Withania somnifera	University Grants Commission, Govt. of India, New Delhi	2 years	17-19	10.00 Lac
4	Dr. Bilal Ahmad Mir (Principal Investigator)	Metabolic engineering of Withanolides biosynthesis pathway in Indian ginseng (Withania somnifera) for enhan	SERB, DST, Govt. of India	3 years	2017-20	43.3 Lac
5	Dr. Nazima Rasool (Principal Investigator)	Diversity & role of mycorrhizal fungi in promotion of agricultural productivity of some	University Grants Commission, Govt. of India, New Delhi	2 Years	17-19	10.00 Lac

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		economically important plants of Kargil, Ladakh				
6	Dr. Nazima Rasool (Principal Investigator)	To link species diversity for sustainable management of forests in monsoonal and monsoon-shadow forest regions of Western Himalaya	Ministry of Environment, Forests and Climate change under its NMHS program	3 Years	2025-28	60.00 Lac
7	Dr. Nazima Rasool (Co- PI)	Reproductive biology and conservation of Aconitum violaceum Jacquem. ex-Stapf in Kashmir Himalaya	University Grants Commission, Govt. of India, New Delhi	2 Years	2017-19	10.00 Lac
8	Dr. Aijaz Hassan Ganie (Principal Investigator)	Protein and gene expressions of IL1 β , NF κ B1, NF κ B2, PPAR γ , NOS2, COX2, TNF α in LPS induced inflammatory response in rats and effect of Cousinia thomsonia	DST, Govt. of India, New Delhi	3 Years	2018-21	33.00 Lac
9	Dr. Aijaz Hassan Ganie (Co-PI)	Invasive Alien Plants in Himalayas: Status, Ecological impact and Management	Ministry of Environment, Forests and Climate change under its NMHS program	3 Years	2018-21	60.00 Lac
10	Dr. Aijaz Hassan Ganie (Co-PI)	Ecology, monitoring, recovery and bioprospection of some threatened plant species of Jammu, Kashmir and Ladakh in relation to regional socioeconomic development	Environment, Forests and Climate change under its NMHS program	3 Years	2018-21	63.00 Lac
11	Dr. Aijaz Hassan Ganie (Co-PI)	Oxidative stress and diabetes, a correlated study by using active extracts of Inula obtusifolia	JK Science Technology & Innovation Council, Department of Science and Technology	2 Years	2020-22	8.40 Lac

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3.4.1	3.4.1 The department ensures implementation of its stated Code of Ethics for research						
	3.4.1.1: The department has a stated Code of Ethics for research and the implementation of which is ensured through the following						
	1. Inclusion of research ethics in the research methodology course work						
	2. Presence of department Ethics committees (Animal, chemical, bio-ethics etc.,)						
	3. Plagiarism check						
	4. Research Advisory Committee						
	Options:						
	A. All of the above						
	B. Any 3 of the above						
	C. Any 2 of the above						
	D. Any 1 of the above						
	E. None of the above (opt any one)						
				1. Inclusion of research ethics in the research methodology course work	2. Presence of departmental Ethics committees (Animal, chemical, bio-ethics etc.,)	3. Plagiarism check	4. Research Advisory Committee
				Yes	Yes	Yes	Yes
				https://deanres.uok.edu.in/Files/80c3b487-59af-4745-bbcf-1c15281d74e3/Menu/Research_policy_b5b771bc-9b9f-4b19-8a47-8ffc85ec2712.pdf			

3.4.3

3.4.3 Number of Ph.Ds awarded per recognized guide during the last five years3.4.3.1 : How many Ph.Ds were awarded during last 5 years **(2019-2023)**3.4.3.2 : Number of teachers recognized as guides during the last five years **(2019-2023)**

Name of the PhD research Scholar	Name of the research Supervisor	Year of registration	Year of completion and Award of PhD
Shagufta Rasheed	Dr. Aijaz Hassan Ganaie	2017	2021
Sufiya Rashid	Dr. Aijaz Hassan Ganaie	2018	2023
Kausar Rashid	Dr. Aijaz Hassan Ganaie	2018	2023
Irfan Iqbal Sufi	Dr. Aijaz Hassan Ganaie	2018	2024
Sakina Bano	Dr. Aijaz Hassan Ganaie	2019	2024
Bilal Ahamd Wani	Dr. Aijaz Hassan Ganaie	2019	2024
Junaid Ahmad Magray	Dr. Aijaz Hassan Ganaie	2019	2024
Manzoor Hussain	Dr. Bilal Ahmed Mir	2019	2024
Palak Bakshi	Dr. Bilal Ahmed Mir	2017	2023
Poonam Choudhary	Dr. Bilal Ahmed Mir	2018	2025

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3.4.4	Number of research papers published per teacher in the Journals as notified on UGC CARE list during the last five years (2019-2023)									
	3.4.4.1: Number of research papers published in the Journals as notified on UGC website during the last five years (2019-2023)									
		Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
								Link to article/paper/abstract of the article		Is it listed in UGC Care list
		Micropropagation from cotyledonary explants of grapefruit (<i>Citrus paradisi</i> Macf.) by indirect and direct organogenesis.	Darius N Tchoutang, Libert Brice Tonfack, Bilal Ahmad Mir , Emmanuel N Foamouhoue, Emmanuel Youmbi	Department of Botany, North Campus	<i>Cameroon J. Exp. Biol</i>	2023	1816-0573	https://www.ajol.info/index.php/cajeb/article/view/245759		YES
		Phytoliths analysis in root, culm, leaf and synflorescence of <i>Rostraria cristata</i> (Poaceae).	Poonam Chowdhary, Mudassir Ahmad Bhat, Abdul Shakoor, Priya Badgal, Amarjit Singh Soodan, Bilal Ahmad Mir*	Department of Botany, North Campus	<i>Journal of Plant Research</i>	2023	0918-9440	https://link.springer.com/article/10.1007/s10265-023-01485-1		YES
		Phytolith profiles of <i>Lolium perenne</i> L. from the Kashmir Himalayas.	Poonam Chowdhary, Mudassir Ahmad Bhat, Priya Badgal, Abdul Shakoor, Amarjit Singh Soodan, Bilal Ahmad Mir*	Department of Botany, North Campus	<i>Brazilian Journal of Botany.</i>	2023	1806-9959	https://link.springer.com/article/10.1007/s40415-023-00915-7		YES
		Environmental factors affecting monoterpene emission factors from terrestrial vegetation.	Tanzil Gaffar Malik, Lokesh Kumar Sahu, Mansi Gupta, Bilal Ahmad Mir , Triratnesh Gajbhiye, Rashmi Dubey, Andrea Clavijo McCormick, Sudhir Kumar Pandey	Department of Botany, North Campus	<i>Plants</i>	2023	2223-7747	https://www.mdpi.com/2223-7747/12/17/3146		YES

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		Phenolic content, antioxidant and allelopathic potential of <i>Artemisia brevifolia</i> wall ex dc across the elevations of Western Himalayan region of Ladakh.	Manzoor Hussain, Sajad Ahmed, Mohd Ibrahim, Jabeena Khazir, Sheikh Showkat Ahmad, Rakesh Kr Thakur, Renu Bhardwaj, Sumit Gandhi, Latif Ahmad Peer, Satwinderjeet Kaur, Bilal Ahmad Mir*	Department of Botany, North Campus	<i>South African Journal of Botany</i>	2023	0254-6299	https://www.sciencedirect.com/science/article/abs/pii/S0254629923002259		YES
		Transcriptome Analysis and Differential Expression in <i>Arabidopsis thaliana</i> in response to rohitukine (a chromone alkaloid) treatment.	Sajad Ahmed, Rekha Chauhan, Alim Junaid, Vijay Lakshmi Jamwal, Jitendra Thakur, Bilal Ahmad Mir , Sumit G. Gandhi*	Department of Botany, North Campus	<i>Functional & Integrative Genomics.</i>	2023	1438-7948	https://link.springer.com/article/10.1007/s10142-023-00961-0		YES
		Interactive effect of 24-epibrassinolide and plant growth promoting rhizobacteria inoculation restores photosynthetic attributes in <i>Brassica juncea</i> L. under chlorpyrifos toxicity.	Palak Bakshi, Pooja Sharma, Rekha Chouhan, Bilal Ahmad Mir , Sumit G. Gandhi, Renu Bhardwaj, Pravej Alam & Parvaiz Ahmad	Department of Botany, North Campus	<i>Environmental Pollution.</i>	2023	1873-6424	https://www.sciencedirect.com/science/article/abs/pii/S0269749122019741		YES
		Comprehending the dynamism of B chromosomes in their journey towards becoming unselfish.	Vijay Rani Rajpal, Suman Sharma, Deepmala Sehgal, Prashansa Sharma, Nikita Wadhwa, Priyanka Dhakate, Atika Chandra, Rakesh Kr Thakur, Sohini Deb, Satyawada Rama Rao, Bilal Ahmad Mir , Soom Nath Raina.	Department of Botany, North Campus	<i>Frontiers in Cell & Developmental Biology.</i>	2023	2296-634X	https://www.frontiersin.org/journals/cell-and-developmental-biology/articles/10.3389/fcell.2022.1072716/full		YES
		Prokaryotic communities adapted to microhabitats on the Indian lotus (<i>Nelumbo nucifera</i>) growing in the high-altitude urban Dal Lake.	Diptaraj Chaudhari, Shashi Kiran, Ashish Choudhary, Kris Silveira, Nitin Narwade, Dhiraj Dhotre, Jabeena Khazir, Bilal Ahmad Mir , Yogesh S Shouche & Praveen Rahi	Department of Botany, North Campus	<i>International Microbiology.</i>	2023	1139-6709	https://link.springer.com/article/10.1007/s10123-022-00297-y		YES

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		Silicon Supplementation as an Ameliorant of Stresses in Sorghum	Rehman, I., Sheergojri, I. A., War, A. I., Nazir, A., Nazima Rasool , Rashid, I	Department of Botany, North Campus	<i>Silicon</i>	2023	1876-990X	https://link.springer.com/article/10.1007/s12633-023-02500-9		YES
		<i>Artemisia dracunculus</i> subsp. <i>Ladakhensis</i> (<i>Asteraceae</i>), A new subspecies from Ladakh, India	Liyaqat Ali, Anzar Ahmad Khuroo, Aijaz Hassan Ganie and Nazima Rasool	Department of Botany, North Campus	<i>Annals Botanici Fennici</i>	2023	0003-3847	https://bioone.org/journals/annales-botanici-fennici/volume-60/issue-1/085.060.0128/Artemisia-dracunculus-subsp-Ladakhensis-Asteraceae-a-New-Subspecies-from-Ladakh/10.5735/085.060.0128.short		YES
		Habitat suitability, range dynamics, and threat assessment of <i>Swertia petiolata</i> D. Don: a Himalayan endemic medicinally important plant under climate change.	Bilal A. Wani, Sajad A Wani, Junaid A Magray, Rameez Ahmad, Aijaz Hassan Ganie & Irshad A. Nawchoo.	Department of Botany, North Campus	<i>Environmental Monitoring and Assessment.</i>	2023	1573-2959	https://link.springer.com/article/10.1007/s10661-022-10773-7		YES
		Seed ecology enlightens restoration of endemic species: A case study of <i>Actaea kashmiriana</i> from the Himalaya.	Sufiya Rashid, Kausar Rashid, Aijaz Hassan Ganie , Irshad A. Nawchoo and Anzar A. Khuroo.	Department of Botany, North Campus	<i>Ecological Engineering</i>	2023	0925-8574	https://www.sciencedirect.com/science/article/abs/pii/S092585742200341X		YES
		Reproductive biology of <i>Actaea kashmiriana</i> , an endemic medicinal plant species from the Himalaya: Implications for conservation and sustainable utilization.	Sufiya Rashid, Kausar Rashid, Bilal A. Wani, Aijaz Hassan Ganie , Irshad A. Nawchoo and Anzar A. Khuroo.	Department of Botany, North Campus	<i>Journal of Applied Research on Medicinal and Aromatic Plants</i>	2023	2214-7861	https://www.sciencedirect.com/science/article/abs/pii/S2214786123000050		YES

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		Reproductive biology of <i>Trillium govanianum</i> , an endangered plant species endemic to the Himalaya: implications for conservation.	Kausar Rashid, Sufiya Rashid, Aijaz Hassan Ganie , Irshad A. Nawchoo and Anzar A. Khuroo.	Department of Botany, North Campus	<i>Botany Letters</i>	2023	2381-8115	https://www.tandfonline.com/doi/abs/10.1080/23818107.2023.2176355		YES
		Phytosociological and edaphic parameters of <i>Actaea kashmiriana</i> assemblages in Kashmir Himalaya.	Sufiya Rashid, Kausar Rashid, Tajamul Islam, Aijaz Hassan Ganie , Irshad A. Nawchoo, Anzar A Khuroo.	Department of Botany, North Campus	<i>Ecologia Sinica</i>	2023	1872-2032	https://www.sciencedirect.com/science/article/abs/pii/S1872203223000136		YES
		<i>Oxalis corniculata</i> L. (<i>Oxalidaceae</i>), an addition of an alien plant species to the flora of Ladakh, India.	Shabir A Zargar, Aijaz Hassan Ganie , Zafar A Reshi, Manzoor A shah, Nmrata sharma, Anzar A Khuroo.	Department of Botany, North Campus	<i>Vegetos.</i>	2023	2229-4473	https://link.springer.com/article/10.1007/s42535-023-00612-6		YES
		Effects of pre-sowing treatments and seed sources on seed germination of <i>Phytolacca acinosa</i> Roxb.	Junaid A. Magray, Bilal A. Wani, Aijaz Hassan Ganie , Roof Ul qadir Irshad A. Nawchoo and Hanan Javid	Department of Botany, North Campus	<i>Journal of Applied Research on Medicinal and Aromatic Plants</i>	2023	2214-7861	https://www.sciencedirect.com/science/article/abs/pii/S2214786123000220		YES
		<i>Viola suavis</i> subsp. <i>naqshi</i> : a new taxon from Kashmir Himalaya, India.	Aijaz Hassan Ganie , Tajamul Islam, Anzar A. Khuroo and Bilal A Tali.	Department of Botany, North Campus	<i>Phytotaxa</i>	2023	1179-3155	https://www.biotaxa.org/Phytotaxa/article/view/phytotaxa.598.2.6		YES

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		Vegetation and soil ecology of threatened Himalayan Trillium habitats in Kashmir Himalaya.	Kausar Rashid, Sufiya Rashid, Tajamul Islam, Aijaz Hassan Ganie , Irshad A. Nawchoo and Anzar A. Khuroo.	Department of Botany, North Campus	<i>Nordic Journal of Botany</i>	2023	0107-055X	https://nsojournals.onlinelibrary.wiley.com/journal/17561051/journal-metrics		YES
		Understanding Reproductive Biology for Realization of Conservation and Sustainable Development of <i>Swertia thomsonii</i> C. B. Clarke- an Endemic Medicinal Plant of Western Himalaya.	Bilal A. Wani, Junaid A. Magray, Aijaz Hasaan Ganie , Roof Ul Qadir, Hanan Javid, and Irshad A. Nawchoo	Department of Botany, North Campus	<i>Journal of Applied Research on Medicinal and Aromatic Plants</i>	2023	2214-7861	https://www.sciencedirect.com/science/article/abs/pii/S2214786123000372		YES
		Existence of Two Cytotypes of <i>Peganum harmala</i> L. in Kashmir Himalaya and Ladakh Trans Himalaya of India.	Nida Aslam, Aijaz A Wani, Aijaz Hassan Ganie and Irshad A. Nawchoo.	Department of Botany, North Campus	<i>Cytologia</i>	2023	1348-7019	https://www.jstage.jst.go.jp/article/cytologia/88/2/88_D-22-00107/_article/-char/ja/		YES
		Integrating human footprint with ensemble modeling identifies priority habitats for conservation: a case study in the distributional range of <i>Arnebia euchroma</i> , a vulnerable species.	Irfan Iqbal Sofi, Manzoor A. Shah, Aijaz Hassan Ganie .	Department of Botany, North Campus	<i>Environmental Monitoring and Assessment</i> .	2023	1573-2959	https://link.springer.com/article/10.1007/s10661-023-11528-8		YES
		A Review of the Genus <i>Actaea</i> L.: Ethnomedical Uses, Phytochemical and Pharmacological Properties.	Sufiya Rashid, Kausar Rashid, Aijaz Hassan Ganie , Irshad A. Nawchoo, Mudasir A. Tantray and Anzar A Khuroo	Department of Botany, North Campus	<i>Journal of Herbal Medicine</i> .	2023	2210-8041	https://www.sciencedirect.com/science/article/abs/pii/S2210803323000684		YES

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		<i>Artemisia dracunculus</i> subsp. <i>ladakhensis</i> (<i>Asteraceae</i>), a new subspecies from Ladakh, India.	Liyaqat Ali, Anzar A Khuroo, Aijaz Hassan Ganie , Nazima Rasool.	Department of Botany, North Campus	<i>Annals Botanici Fennici</i>	2023	1797-2442	https://bioone.org/journals/annales-botanici-fennici/volume-60/issue-1/085.060.0128/Artemisia-dracunculus-subsp-Ladakhensis-Asteraceae-New-Subspecies-from-Ladakh/10.5735/085.060.0128.short		YES
		Incidence and frequency of desynopsis in <i>Eremurus persicus</i> (Jaub. & Spach) Boiss. (<i>Asphodelaceae</i>) – A native and important medicinal plant species of Western Himalaya.	Shivali Verma, Irfan I. Sofi, Aijaz Hassan Ganie , Manzoor A. Shah, Namrata Sharma.	Department of Botany, North Campus	<i>Caryologia</i>	2023	2165-5391	https://www.torrossa.com/gs/resourceProxy?an=5583960&publisher=FF3888#page=17		YES
		Hidden from the harsh: Belowground preformation prior to winter determines life history strategy of a temperate perennial herb.	Kausar Rashid, Sufiya Rashid, Tajamul Islam, Aijaz Hassan Ganie , Irshad A. Nawchoo and Anzar A. Khuroo.	Department of Botany, North Campus	<i>Flora</i>	2023	0367-2530	https://www.sciencedirect.com/science/article/abs/pii/S0367253023001767		YES
		An updated checklist of the vascular flora of the TransHimalayan region of Ladakh.	Shabir A Zargar, Aijaz Hassan Ganie , Anzar A Khuroo, Zafar A Reshi, Akhtar H Malik, Sakina Banoo.	Department of Botany, North Campus	<i>Phytotaxa</i>	2023	1179-3155	https://www.researchgate.net/profile/Zafar-Reshi-2/publication/374058001_An_updated_checklist_of_the_vascular_flora_of_the_Trans-Himalayan_region_of_Ladakh/links/654ae01eb86a1d521bc2539d/An-updated-checklist-of-the-vascular-flora-of-the-Trans-Himalayan-region-of-Ladakh.pdf		YES

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		Comparative efficacy of zirconium dioxide nanoparticles and AM fungus against wilt disease complex of bottle gourd and upregulation of biochemical and physiological processes.	Siddiqui, Z.A. Khan, M.R. and Aqib	Department of Botany, North Campus	<i>International Journal of Vegetable Sciences</i>	2023	1931-5279	https://www.tandfonline.com/doi/abs/10.1080/19315260.2023.2187503		YES
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3.4.5 Number of books and chapters in edited volumes published per teacher during the last five years (2019-2023)

Sl. No.	Name of the teacher	Title of the chapters published	Title of the book published	Year of publication	ISBN number	Whether at the time of publication Affiliating Institution was same Yes/No	Name of the publisher
1.	Arun Dev Singh, Kanika Khanna, Jaspreet Kour, Shalini Dhiman, Mohd. Ibrahim, Neeraja Sharma, Indu Sharma, Priyanka Sharma, Bilal Ahmad Mir , Renu Bhardwaj.	Signaling Pathways of Gasotransmitters in Heavy Metal Stress Mitigation. In: Tariq Aftab & Francisco J. Corpas	Gasotransmitters Signaling in Plants under Challenging Environment. Plant in Challenging Environments	2023	978-3-031-43029-9	Yes	<i>Springer Nature</i>
2.	Shalini Dhiman, Shalini Dhiman, Jaspreet Kour, Mohd Ibrahim, Tamanna Bhardwaj, Neerja Sharma, Isha Madaan, Anmol Sidhu, Pooja Ohri, Amrit Pal Singh, Geetika Sirhindi, Bilal Ahmad Mir & Renu Bhardwaj	Regulatory role of nitric oxide in plants and its crosstalk with phytohormones. In: Mohd Iqbal R Khan, Noushina Iqbal, Peter Poor, Antonio Ferrante, Vijay Pratap Singh, Durgesh K Tripathi & Vasileios Fotopoulos (eds.).	Plant Gasotransmitters and Molecules with Hormonal Activity.	2023	978-3-031-43029-9	Yes	<i>Elsevier</i>
3.	Shalini Dhiman, Mohd Ibrahim, Kanika Khanna, Tamanna Bhardwaj, Kamini Devi, Indu Sharma, Upma Arora, Bilal Ahmad Mir & Renu Bhardwaj	Cross-talk between ROS, RNS, RCS, and RSS in plants under abiotic stresses. In: Mohd Iqbal R Khan, Noushina Iqbal, Peter Poor, Antonio Ferrante, Vijay Pratap Singh, Durgesh K Tripathi & Vasileios Fotopoulos (eds.).	Plant Gasotransmitters and Molecules with Hormonal Activity.	2023	978-0-323-91209-9	Yes	<i>Elsevier</i>
4.	Kamini Devi, Palak Bakshi, Jaspreet Kour, Shalini Dhiman, Mohd Ibrahim, Tamanna Bhardwaj, Kanika Khanna, Isha Madaan, Pooja Ohri, Bilal Ahmad Mir , Geetika Sirhindi & Renu Bhardwaj	Role of Salicylic Acid in the regulation of physiological and molecular aspects of plants under abiotic stress. In: Anket Sharma, Sangeeta Pandey, Renu Bhardwaj, Bingsong Zheng & Durgesh Kumar Tripathi (eds.).	The Role of Growth Regulators and Phytohormones in Overcoming Environmental Stress.	2023	978-0-323-98332-7	Yes	<i>Elsevier</i>
5.	Nazima Rasool	Role of Plant Hormones in Mitigating Abiotic Stress	Abiotic Stress in Plants	2023	978-1-83768-498-4	Yes	<i>Springer</i>

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6.	Kausar Rashid, Sufiya Rashid, Aijaz Hassan Ganie , Irshad A. Nawchoo, Mudasir A. Tantray and Anzar A Khuroo	Trillium govanianum – A Promising Endemic Medicinal Herb of the Himalaya. In: Arunachalam, K., Yang, X., Puthanpura Sasidharan, S. (eds).	Bioprospecting of Tropical Medicinal Plants	2023	978-3-031-28780-0	Yes	<i>Springer nature</i>
7.	Siddiqui, Z.A. and Khan, M. R	Management of nematode-charcoal rot disease complexes in legumes. Edited by Kumar, P. and Dubey, R.C.	In Macrophomina phaseolina, Ecology, Pathology and Management	2023	978-0-443-15443-0	Yes	<i>Elsevier</i>

3.4.6 **E-content is developed by teachers**

1. For e-PG-Pathshala

2. For CEC (Undergraduate)

3. For SWAYAM

4. For other MOOCs platforms

5. Any other Government Initiatives

6. For Institutional LMS

Options

:

A. Any 4 or all of the above

B. Any 3 of the above

C. Any 2 of the above

D. Any 1 of the above

E. None of the above

(Opt any one)

1. For e-PG-Pathshala	2. For CEC (Undergraduate)	3. For SWAYAM	4. For other MOOCs platforms	5. Any other Government Initiatives	6. For Institutional LMS
NO	No	NO	NO	NO	NO
If yes, provide links to the contents					