

1. Details of the Teacher/ Academic :

Name & Date of Birth :	Dr. V. Singhal, 24.02.1975
Date of Joining in IGNOU :	13.06.2011
Current Designation :	Assistant Regional Director (Sr. Scale)
Pay Scale as on date :	S11, Basic Rs. 87300/-
Qualifications :	M.Sc., Ph.D., DBT-PDF, PGDEM, PGDDE, PGDHRM, MADE 15-weeks online course 'Communication Technologies in Education' on SWAYAM

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:

Name of the recipient,	Honour /Award/ Fellowship name	Agency name /Name of statutory body/ institution/ Apex body	Period
Dr. V. Singhal	Research Associateship,	D.R.D.E., Gwalior- worked in the area of Material Biotechnology	2004
Dr. V. Singhal	D.B.T.-Post Doctoral Fellowship,	Indian Institute of Science (I.I.Sc.), Bangalore worked in the area of Environmental Biotechnology at Department of Biotechnology, IT Roorkee	2002
V. Singhal	A.S.R.B.-NET	I.C.A.R., Delhi	2001
V. Singhal	U.G.C.-Junior Research Fellowship	U.G.C	June 2001
V. Singhal	U.G.C.-NET	U.G.C	December 2000 & June 2001
V. Singhal	University Research Fellowship	G.B.P.U.A.T., Pantnagar	1998-2001
V. Singhal	Graduate Teaching Assistantship	G.B.P.U.A.T., Pantnagar	1996-1998

3. Books/Book Chapter:

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN N

S. No.	Name of Author1/ Editor 1, & Co- author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1.	Rai, J.P.N.; Singhal, V. and Pratibha	'Environmental management through sustainable agriculture'. In: Arunachalam, A. and Khan, M.L.(ed)	Dehra Dun, India	International Book Distributors,	2000	pp. 493-502.	ISBN 13: 97881 70892 809 ISBN 10: 81708

		<i>Sustainable Management of Forests-India,</i>					92805
2.	Singhal, V. and Rai, J.P.N.	‘Studies on phytoremediation potential of <i>Eichhornia crassipes</i> against paper mill and distillery effluents’. <i>In:</i> Singh, U. P.; Chauhan, R. S. and Sharma, A. P. (eds). <i>Proceedings of National Symposium on Fish Health Management and Sustainable Aquaculture</i>	Pantnagar, India	G. B. P. U. A. T., Pantnagar	2001	pp. 211-216.	
3.	Singhal, V. and Rathore, V.S.	‘Effects of Mn ²⁺ on growth and lignin degradation by <i>Phanerochaete chrysosporium</i> ’. <i>In: Proceedings of BRNS-DAE National Symposium on Nuclear and Radiochemistry</i>	Mumbai India	University of Pune, Library Information Services Division, Bhabha Atomic Research Centre, Trombay, Mumbai	2001	pp. 344-345	
4.	Kumar, A.; Singhal, V. and Joshi, B. D.	‘Seasonal Variations in Physico-chemical Characteristics of Soil and Ground Water as Induced by Pulp and Paper Mill Effluent in Nearby Areas of Lalkuan’. <i>In:</i> Prakash, S. (Editor-in-Chief) <i>Proceedings of the National Symposium on Biochemical Sciences: Health and Environmental Aspects (BSHEA-</i>	Dayalbagh, Agra, India	Dayalbagh Educational Institute, Dayalbagh, Agra, India	2003	pp. 245-250	

		2003)					
5.	Mallik, P. K.; Singhal, V. and Rathore, V.S.	‘A study of growth characteristics and ligninolytic potential of six fungal species (mushroom)’. <i>In: Prakash, S. (Editor-in-Chief) Proceedings of the National Symposium on Biochemical Sciences: Health and Environmental Aspects (BSHEA-2003)</i>	Dayalbagh, Agra, India	Dayalbagh Educational Institute, Dayalbagh, Agra, India	2003	pp. 265- 268.	
6.	Singhal, V. and Kumar, A.	‘Jaliya poodho dwara distillery nikasit avjal ka phytoremediation (in Hindi)’ ‘Phytoremediation of distillery effluent by aquatic plants’. <i>In: Bhatia, K.K.S.; Jha, R.; Rathore, D.S.; Dwivedi, V. K. and Uniyal, P. K. (eds.) Future Challenges in the Field of Water Resources, Proceedings of the National Seminar</i>	Roorkee , India	National Institute of Hydrology, Roorkee, India	2003	pp. 447- 452.	
7.	Kumar, A. and Singhal, V.	“Paper mill nikasit avjal ka mrida shodhan: ek prakurtik evam paristhithikiya mitra upaay (in Hindi)” ‘Land treatment of paper mill effluent: a natural and eco-friendly strategy’ <i>In: Bhatia, K.K.S.; Jha, R.; Rathore, D.S.; Dwivedi, V.</i>	Roorkee , India	National Institute of Hydrology, Roorkee, India	2003	pp. 561- 567.	

		K. and Uniyal, P. K. (eds.) <i>Future Challenges in the Field of Water Resources</i> , Proceedings of the National Seminar					
8.	Singhal, V. and Kumar, A.	'Role of water hyacinth and other aquatic weeds in wastewater treatment: an eco-friendly approach having vast potential'. Chapter 10 In: Khanna, D. R.; Chopra, A. K. and Prasad, G. (eds.) <i>Aquatic Biodiversity in India: The Present Scenario</i> ,	Delhi	Daya Publishing House	2005	pp. 154-183	ISBN 13: 9788170353676 ISBN 10: 817035367X
9.	Kumar, A.; Rajput, R.; Bhutiani, R.; Ruhela, M. and Singhal, V.	'Effect of pulp and paper mill's effluent on microbial diversity of river Gola'. Chapter 15 In: Khanna, D. R.; Chopra, A. K. and Prasad, G. (eds.) <i>Aquatic Biodiversity in India: The Present Scenario</i> ,	Delhi	Daya Publishing House	2005	pp. 297-303	ISBN 13: 9788170353676 ISBN 10: 817035367X
10.	Rai, J. P. N; Singh, Y.P.; Singhal, V. and Verma, V.K.	'Green Technology: For Cleaning Up Heavy Metals in Soil and Water Ecosystems'. Chapter 15 In: Mishra, C.S.K.; Kim, J.W. and Saxena, A. (eds.) <i>Environmental Issues and Options</i>	Delhi	Daya Publishing House	2006	pp. 328-344	

4. Research Articles/Publications:

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Singhal, V. and Rathore, V.S.	'Effects of Zn ²⁺ and Cu ²⁺ on growth, lignin degradation and ligninolytic enzymes in <i>Phanerochaete chrysosporium</i> '.	<i>World J. Microbiol. Biotechnol.</i>	17	235-240	2001	ISSN: 0959-3993
2.	Singhal, V. and Rathore, V.S.	'Preparation and characterization of ¹⁴ C-(lignin)-lignocellulose from rice (<i>Oryza sativa</i> Var. Kasturi) seedlings under direct sowing and transplanted conditions and determination of best suited age'.	<i>J. Nuclear Agric. Biol.</i>	30(3-4)	164-180	2001	ISSN: 0379-5489
3.	Singhal, V. and Rai, J.P.N.	'Biogas production from water hyacinth and channel grass used for phytoremediation of industrial effluents'.	<i>Biores. Technol.</i>	86	221-225	2003	ISSN: 0960-8524
4.	Singhal, V.; Kumar, A. and Rai, J.P.N.	'Phytoremediation of pulp & paper mill and distillery effluents by channel grass (<i>Vallisneria spiralis</i>)'.	<i>J. Sci. Ind. Res.</i>	62	319-328	2003	ISSN:0022-4456
5.	Kumar, A.; Singhal, V.; Joshi, B. D. and Rai, J.P.N.	'Impact of pulp and paper mill effluent on lysimetric soil and vegetation used for land treatment'.	<i>J. Sci. Ind. Res</i>	62	883-891	2003	ISSN:0022-4456
6.	Kumar, A.; Singhal, V.; Joshi, B. D. and Rai, J.P.N.	Effect of pulp & paper mill effluent on various plant growth parameters of rice'.	' <i>Himalayan J. Environ. Zool.</i>	17 (1)	31-37	2003	ISSN: 0970-2903

7.	Singhal, V.; Kumar, A. and Rai, J.P.N.	‘Effect of <i>Eichhornia</i> <i>crassipes</i> and <i>Vallisneria</i> <i>spiralis</i> phytoremediated pulp, paper mill and distillery effluents on germination of wheat and rice seeds’.	<i>Indian J.</i> <i>Ecol.</i>	30 (2)	188- 193	2003	ISSN: 0304- 5250
8.	Kumar, A.;	‘Suitability	<i>Ind. J. Env.</i> <i>Prot.</i>	23(3)	309- 312	2003	ISSN: 0253- 7141
9.	Singhal, V.; Joshi, B. D. and Rai, J.P.N.	Evaluation of Ground Water in Tarai and Bhabhar Region of Kumaun’.	<i>J. Sci. Ind.</i> <i>Res.</i>	63	429- 438	2004	ISSN:0022- 4456
10.	Kumar, A.;	‘Lysimetric approach for groundwater pollution control from pulp & paper mill effluent using different soil texture’	<i>Acta</i> <i>Botanica</i> <i>Indica,</i>	0	1-11	2004	ISSN: 0379- 508X
11.	Singhal, V. and Rai, J.P.N.	‘Studies on phytoremediation potential of water hyacinth (<i>Eichhornia</i> <i>crassipes</i>) against pulp & paper mill and distillery effluents’	’ <i>World J.</i> <i>Microbiol.</i> <i>Biotechnol.</i>	22	603- 606	2005	ISSN: 0959- 3993
12.	Arora, N. K.; Bhatt, J.;	‘Salinity induced accumulation of poly-β-hydroxy butyrate in rhizobia indicating its role in cell protection.	<i>J. Env.</i> <i>Biol.</i>	26 (3)	525- 529	2005	ISSN: 0254- 8704
13.	Singhal, V.	Bioremediation of pulp and paper mill effluent with <i>Phanerochate</i> <i>chryso sporium</i> ’	<i>The</i> <i>Horizon</i>	4 (1)	1-7	2013	
		‘IGNOU B.Ed. Programme in Vidarbha: A Golden Opportunity for In-service Teachers’.					

14.	Singhal, V.	‘IGNOU foot-step in Vidarbha augmenting equal prospects towards higher studies for all’.	<i>The Horizon</i>	5 (1)	1-12	2014	
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5. Policy Documents Reports/ Mimeos:

SNo.	Title	Institution/ Agency	Year
1.	‘Two days orientation programme for academic counsellors’, January 19-20, 2013, held at Vanamati Conference Hall, Nagpur by IGNOU Regional Centre Nagpur	<i>University News, A Weekly Journal of Higher Education, Association of Indian Universities, 51 (7): 20-21</i>	February 18-24, 2013

6. Book Review published :

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
NIL							

7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops (Please do not mention if it is only participation without presentation)

SNo.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference	City	Date and Year
1.	Singhal, V. and Rathore, V.S.	‘Effects of Mn ²⁺ on lignin biodegradation and ligninolytic enzymes in <i>Phanerochaete chrysosporium</i> ’	G.B.P.U.A.& T., Pantnagar	7 th <i>ISPBB National Symposium on Biotechnology for Sustainability in Agriculture</i>	Pantnagar	April 27-29, 2000.
2.	Singhal, V. and Rathore, V.S.	‘Effects of Mn ²⁺ , Zn ²⁺ and Cu ²⁺ on growth, lignin degradation and ligninolytic enzymes in <i>Phanerochaete chrysosporium</i> ’	Univ. of Delhi South Campus, Delhi	<i>National Symposium on Lignocellulose Biotechnology</i>	Delhi	December 10-11, 2001.

3.	<u>Kumar, A.;</u> Singhal, V.; Joshi, B. D. and Rai, J.P.N.	‘Suitability evaluation of ground water in Tarai and Bhabhar region of Kumaun’	Gurukula Kangri Univ., Hardwar	<i>National Symposium on Status of India’s Faunistic Diversity and Environment and 12th All India Zoological Congress</i>	Hardwar	December 29-31, 2001.
4.	Singhal, V.; Kumar, A. and Rai, J.P.N.	‘Effect of <i>Eichhornia crassipes</i> phytoremediated paper mill effluent on germination of wheat and rice seeds’	Gurukula Kangri Univ., Hardwar	<i>National Symposium on Status of India’s Faunistic Diversity and Environment and 12th All India Zoological Congress</i>	Hardwar	December 29-31, 2001.
5.	<u>Kumar, A.;</u> Singhal, V.; Joshi, B. D. and Rai, J.P.N.	‘Ground water pollution by pulp and paper mill effluent and its control by land treatment’	Vikram Univ., Ujjain	<i>National Seminar on Environmental Pollution and Fishery Management (NSEPFM)</i>	Ujjain	August 8- 10, 2002.
6.	Singhal, V.; Kumar, A. and Rai, J.P.N.	‘Assessment of phytoremediation potential of channel grass (<i>Vallisneria spiralis</i>) against pulp and paper mill and distillery effluents’	Saurashtra Univ., Rajkot	<i>National Conference on Environmental Biology</i>	Rajkot	October 17-18, 2002.
7.	<u>Kumar, A.;</u> Singhal, V.; Joshi, B. D. and Rai, J.P.N.	‘Comparative evaluation of physico-chemical characteristics of pulp and paper mill effluent with standards for disposal of industrial effluents’	M.J.P. Rohilkhand University, Bareilly	<i>National Symposium on Biosciences: Advances, Impact and Relevance</i>	Bareilly	October 27-29, 2002.

8.	Singhal, V.; Kumar, A. and Rai, J.P.N.	'Temporal variations in physico-chemical and microbial characteristics of pulp and paper mill effluent fed soil'	M.J.P. Rohilkhand University, Bareilly	<i>National Symposium on Biosciences: Advances, Impact and Relevance</i>	Bareilly	October 27-29, 2002.
9.	Singhal, V. and Rai, J.P.N.	'Comparative evaluation of phytoremediation potential of water hyacinth and channel grass against pulp & paper mill and distillery effluents'	S.P. University, Vallabh Vidyanagar	<i>National Symposium on Environmental Biotechnology and Biodiversity Conservation</i>	Vallabh Vidyanagar	January 31- February 01, 2003.
10.	Singhal, V. and Rathore, V.S.	'Optimization of cultural parameters for production of <i>Coriolus versicolor</i> pellets with high ligninolytic potential'	S.P. University, Vallabh Vidyanagar	<i>National Symposium on Environmental Biotechnology and Biodiversity Conservation</i>	Vallabh Vidyanagar	January 31- February 01, 2003.
11.	Rathore, V.S. and Singhal, V.	'Emerging environment friendly biotechnologies in pulp and paper industry'. <i>National Symposium on Environmental Biotechnology and Biodiversity Conservation</i>	S.P. University, Vallabh Vidyanagar	<i>National Symposium on Environmental Biotechnology and Biodiversity Conservation,</i>	Vidyanagar	January 31- February 1, 2003
12.	R. P. Singh, Kapur, N. and Singhal, V.	'Engineering of Xylanolytic Organisms and Enzymes for Pulp and Paper Industries'	Jawaharlal Nehru University, New Delhi, India	<i>Indo-US workshop and National Congress on Molecular Biology & Biotechnological Symbiosis,</i>	New Delhi	March 23-28, 2003

13.	<u>Rathore, V. S.</u> ; Abraha, M. and Singhal, V.	'Sequential bioremediation of pulp & paper mill effluents by ligninolytic microorganisms'	Gujarat University and Physical Research Laboratory, Ahmedabad	<i>Seventy-Third Annual Session of the National Academy of Sciences, India</i>	Ahmedabad	October 10-12, 2003.
14.	<u>Rathore, V. S.</u> and Singhal, V.	'Studies on developing environmentally benign biotechnologies for pulp and paper industry'	ITRC, Lucknow	<i>International Symposium on Molecular Toxicology and Environmental Health</i>	Lucknow	November 5-8, 2003.
15.	Singhal, V. ; Sharma, C. and Rathore, V. S.	'Optimization of Mn ²⁺ requirement for enhanced pellet growth and extracellular ligninolytic enzymes in <i>T. versicolor</i> '	ITRC, Lucknow	<i>International Symposium on Molecular Toxicology and Environmental Health</i>	Lucknow	November 5-8, 2003.
16.	<u>Kumar, A.</u> ; Singhal, V. ; Joshi, B.D. and J. P. N. Rai, J.P.N.	'Lysimetric treatment approach for pulp & paper mill effluent using column heights as a variant'	Center for Environmental Sciences and Engineering, IIT-Bombay, Mumbai	<i>National Conference on Advances in Environmental Science and Engineering</i>	Mumbai	December 8-9, 2003.
17.	Singhal, V. ; Kumar, A. and Rai, J.P.N.	'Phytoremediation of industrial effluent: a green approach towards environmental management'	Vivekanand College, Kanyakumari	<i>National Conf. on Zoology - Opportunities and Challenges</i>	Kanyakumari	December 21-23, 2003.
18.	Kumar, A.; Singhal, V. and Bhutiani, R.	'Mixing of pulp & paper mill effluent causes induced microbial diversity in Gola river'	Vivekanand College, Kanyakumari	<i>National Conf. on Zoology - Opportunities and Challenges</i>	Kanyakumari	December 21-23, 2003.
19.	<u>Rathore, V. S.</u> ; Sharma, S. and Singhal, V.	'Relationship between socio-economic status, fuel and fodder energy consumption patterns in Rui watershed of Jammu region: a case study'	Kathmandu University, Dhulikhel, Nepal	<i>International Conference on The Great Himalayas: Climate, Health, Ecology, Management and</i>	Nepal	January 12-15, 2004.

				<i>Conservation.</i>		
20.	Jee, B.; Awasthi, S. K.; Singh, K.D.P.; Mishra, L.C.; Agnihotri, M.M. and Singhal, V.	'Preliminary screening of some Indian plants for insecticidal activity'	S.V.B.P.U.A. &T. Meerut	<i>National Seminar on Recent Advances in Medicinal & Aromatic Plants</i>	Meerut	February 15-17, 2005.
21.	Kumar, A.; Gupta, Y.K. and Singhal, V.	'Ground water quality assessment in selected areas of Agra city'	Gurukula Kangri University, Hardwar	<i>International Conference on Applied and Community Psychology: Trends and Directions</i>	Hardwar	February 26-28, 2005.

8. Study Tour Organised/ Participated/ Attachment Organized/Internship:

SNo.	Details of the tour	Name of coordinating body	Duration
NIL			

9. Consultancy assignment (if any):

SNo.	Organization/ agency	Cost, title of consultancy	Duration
NIL			

**10. Details of Institution/ Government/ Industry / own Institution Sponsored
Research Projects (including Programme Evaluation) and Amount (Both
completed and ongoing):**

S. No.	Agency	Amount	Duration with dates	Status i.e. ongoing/ completed
1.	Department of Biotechnology, Govt. of India	0.5 Lacs/annum contingency fund + Fellowship @ Rs. 11000 p.m.+ HRA (from Aug. 2002 to July 2003) and @ Rs. 11500 p.m.+HRA (from Aug. 2003 to March 18, 2004)/ 'Biobleaching By Ligninolytic Fungi And Their Oxidative Enzymes'	2002-2004	Completed

11. Details of PhD and MPhil Scholars (including those awarded degree):

SNo.	Name and enrolment no:	Year of registration	Year of completion/ award
NIL			

12. Details of Programmes/ Courses coordinated/ written/ edited/ translated:

SNo.	Programme	Course	Unit (print)/ Audio/ Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period
1.	R.T.M.Nagpur University, Nagpur, M.Sc. Molecular Biology and Genetic Engineering, III Semester	Course revision for Paper XV 'Industrial Applications of Genetic Engineering'	Meeting for Course Revision Committee	Course was revised	27.03.2014
2.	IGNOU, Delhi, M.Sc. (Environmental Science)	Environmental Biotechnology	Print material	Written a unit on phytoremediation	April-October 2017

- Courses/ Units translated and period
- Audio programmes (title, Course, period)
- Video programmes (title and Course, period)

13. Training programmes designed and conducted, duration and dates

SNo.	Programme	Dates	Place	Number of Participants

14. Details of Counselling sessions conducted:

S. No.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing Any Other)
1	BDP	FST-1	Nagpur			Face to face

15. Details of Patents granted (if any):

NIL

(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)**16. Contribution to IGNOU's corporate life:**

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period

17. Administrative position/s held in the University (even as in charge)

SNo.	Designation	Period

18. Any other contribution/information
Industrial Experience

Period	Organization	Description of Work and Responsibilities
Nov. 07, 2005- Apr. 06, 2006	Ministry of Defence, Ordnance Factory Board, Ordnance Factories Institute of Learning, Medak	Attending induction training and visited various Ordnance Factories at Medak, Kanpur, Pune and Avadi. Also completed two projects one each at High Explosive Factory, Kirkee, Pune and Ammunition Factory, Kirkee.
Apr. 13, 2006- June 11, 2011	Ministry of Defence, Ordnance Factory Board, Ordnance Factory Varangaon-425 308, Distt. Jalgaon	Worked at Primer Filling Section as Head of Section. Important responsibilities includes: <ol style="list-style-type: none"> a) Responsibility as frontline manager in achievement of organizational objectives in time b) Planning of man, material and machine for completion of production target in time c) Cost control including shop budgeting, overhead and payment of direct industrial employees and by reduction of UAR (unavoidable rejection) d) Development of new products e) Technical and administrative functions f) Orderly officer duty g) Inquiry officer/ presiding officer/ presenting officer h) Quality audit for TQM i) Scrutiny committee member for various DPC and direct selection at the level of Group C

Signature of Teacher /Academic

Signature of Director/ Head