

1. Details of the Teacher/ Academic :

Name & Date of Birth :	Dr. Shachi Shah; 20.12.1975
Date of Joining in IGNOU:	16th November, 2011
Current Designation :	Associate Professor
Pay Scale as on date :	13A; 131400-217100
Qualifications:	Ph.D. (Environmental Science)

2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic: (give name of the recipient, Honour, Award Fellowship name and agency name date of receipt/ period; give name of statutory body and institution/ Apex body etc and period)-

1. Life member of Indian Association of Microbiologist,
2. Life member of Biotechnology Society of India
3. Life member of Indian Society of Environmental Scientists
4. Founder Member of Indian society of Hill Agriculture

3. Books/Book Chapter:

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN No.,
- Author1, Co author 1, Co author 2, Title of chapter/book, place of publication, publisher, Year, page (no) s, ISBN No.

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	Venkatramanan, V., Shachishah and Thakur, I.S.	Structural and functional characterization of 4-chlorosalicylic acid degrading microbial community in the chemostat for the treatment of pulp and paper mill	New Delhi.	M.D. Publications Private Ltd.	2008	217-221	978-81-7533-148-8

		effluent. In: Biodiversity, Environment and Sustainability (ed. Jagbir Singh).					
2	Shah, S., Venkatraman, V. and Sharma, S.K.	Impact of food industrial waste on environment. In: Food processing waste management technology (ed. Joshi, V.K. and Sharma, S.K.).	New Delhi.	New India Publishing Agency.	2011	31-53	978-93-80235-59-2.
3	Shah, S., Venkatraman, V. and Sharma, S.K.	Emerging Waste management technologies: Nanotechnology In: Food processing waste management technology. (ed. Joshi, V.K. and Sharma, S.K.).	New Delhi.	New India Publishing Agency.	2011	427-428	978-93-80235-59-2.
4	Venkatraman, V., Shachishah and Singh, S.D.	Indian Agriculture in the Era of Changing Climate. In: Agricultural Sustainability and Approaches (eds. Sunil kumar, Birendra Prasad, Pushpanjali and Abhishek Bahuguna).	New Delhi.	Biotech Books	2013	71-89.	978-81-7622-290-7.
5	Shachishah, Venkatraman, V., Ajayveer Singh and Prasad, B.	Sustainable Management of Agrobiodiversity - Need of the hour. In: Modern Technologies for Sustainable Agriculture (eds. Sunil kumar and Birendra Prasad).	New Delhi.	New India Publishing Agency	2013	71-89	978-93-81450-61-1.
6	Venkatraman	Impact of Climate	New	Research	2014	247-	978-93-

	nan, V.,and Shachishah .	Change on Forest. In: Innovative Energy Technology Systems and Environmental Concerns: A sustainable approach.	Delhi.	India Publications		254.	84144-81-4.
7	Shachishah , Venkatraman, V.,Singh, A., and Singh, A.K.	Potential and prospect of plant growth promoting Rhizobacteria in Lentil. In: Scientific Lentil Production: Indian Perspective.	Delhi.	Satish serial publishing house.	2016	273-285	978-93-5258-920-3.
8	PratibhaPrashar and Shachi Shah	Impact of fertilizers and pesticides on soil microflora in agriculture	Netherlands	Sustainable Agriculture Reviews. Springer	2016	331-361	978-3-319-26776-0
9	Venkatraman, V., Shachishah , and Singh, S.D.	Impact of Climate Change on Crop Growth, Development and Productivity. In: Innovative Agriculture: Techniques and Practices. (eds. Birendra Prasad and Udit Kumar).	New Delhi.	Biotech Books	2017	25-41	978-81-7622-382-9.
10	Shachishah , Venkatraman, V.,and Prasad, B.	Resilience of changing climate: Organic agriculture for sustainability and food security. In: Innovative Agriculture: Techniques and Practices. (eds. Birendra Prasad and Udit Kumar).	New Delhi.	Biotech Books	2017	171-184	978-81-7622-382-9.
11	Shachishah , and Venkatraman, V.	Environmental education and education for sustainable development through mobile learning: Transgressing the geographical	USA	IGI Global.	2018	102-124	9781522526216

		boundaries. In: Open and Distance Learning Initiatives for Sustainable Development. (eds. Umesh Chandra Pandey and VerlaxmiIndrakanti)					
12	Shachi Shah	Bioplastic: An alternative paradigm to outpace deepening plastic deluge. In: Environmental and Ecological Sustainability	New Delhi	IGNOU	2018	460-462.	978-93-87960-94-7
13	Shah, S., and Venkatraman, V.	Advances in Microbial Technology for upscaling Sustainable Biofuel Production. In: Gupta et al. (eds.) New and future developments in microbial biotechnology and bioengineering.	Netherlands	Elsevier	2019	69-76	978-0-444-63504-4

4. Research Articles/Publications (including Policy Documents, Reports/ Mimeos) :

- Author/ co-author (if any), title, Name of Journal, Volume, page no. (s), Year, ISSN No
- Author/ co-author, title, Name of Journal, Volume, page no, Year, ISSN No.

SNo.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1	Shachi Shah and Indushekhar Thakur	Enrichment and characterization of microbial community of tannery effluent for degradation of pentachlorophenol.	World Journal of microbiology and biotechnology	18	693-698	2002	0959-3993
2	Shachi Shah and Indushekhar	Treatment of tannery effluent by pentachlorophenol degrading bacterial	Journal of scientific and industrial research	61	1051 - 1055	2002	1467-9310

	r Thakur	community from chemostate.					
3	Shachi Shah and Indushekhar Thakur	Enzymatic dehalogenation of pentachlorophenol by <i>Pseudomonas fluorescens</i> of the microbial community from tannery effluent.	Current microbiology	47	65-70	2003	0343-8651
4	Yogitachupahl, Shachi Shah and Indushekhar Thakur	Characterization of microbial community of chemostat for the treatment of pulp and paper mill effluent	Pollution Research	25(3)	473-476	2007	0257-8050
5	Yogitachupahl, Shachi Shah and Indushekhar Thakur	Optimization of Upflow Anaerobic Sludge Blanket Reactor for Treatment of pulp and paper mill effluent.	Pollution Research	26(1)	49-53	2007	0257-8050
6	Shachisha h, Venkatraman, V. and Rathore, V.S.	Characterization of ¹⁴ C-(Lignin) – lignocellulose from rice (<i>oryzasativa</i> L. Var. Ratna) for Lignolytic Studies.	Journal of Nuclear Agriculture and Biology	37(3&4)	81-95.	2008	0379-5489
7	Venkatraman, V. and Shah, S.	Agricultural management practices in relation to carbon sequestration.	Agricultural Review	Vol.30 (4)	301-306.	2009	0253-1496
8	Shah, S., Venkatraman, V. and Shah, V.K.	Carbon sequestration activities in the forest: strategies and challenges.	IndianJournal of forestry	32(4)	533-536.	2009	0971-9431
9	Pawan, K. J., Kumar, V. A., Shah S. and	Photoautotrophic micropropagation for cost effective and successful clonal	Scientia Horticulture	839	93-98	2010	0304-4238

	Vandana A.	multiplication of woody fruit crops					
10	AV Singh, S Shah and B Prasad.	Effect of phosphate solubilizing bacteria on plant growth promotion and nodulation in soybean (<i>Glycinemax</i> (L.) Merr.).	Journal of Hill Agriculture	1(1)	39-44	2010	2230-7338
11	Shachi Shah, VK Yadav, AV Singh, VA Kumar	Molecular farming in plants: Synthesis of novel biomaterials	Journal of Hill Agriculture	1(1)	6-12	2010	2230-7338
12	Ajay veer Singh, Birendra Prasad and Shachi Shah	Influence of phosphate solubilizing bacteria for enhancement of plant growth and seed yield in lentil.	Journal of crop and weed	7(1)	1-4	2011	0970-0420
13	Islam Shafiquel, M Dutta, Shah Shachi, Pankaj Kumar, KV Bhatt	Assessment of genetic diversity of Ricebean (<i>Vigna umbellate</i>) varieties and their narrow leaf cross derivatives using RAPD markers.	International Journal of Agriculture, Environment and Biotechnology.	10(4)	415-421.	2018	0974-1712

5. Policy Documents Published: NA
6. Book Review published : NA

- Author/ co-author (if any), title, Name of Journal, Volume, page no. (s), Year, ISSN No.)
- Author/ co-author, title, Name of Journal, Volume, page no, Year, ISSN No.

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

- Author, Co author 1, Co author 2, Title of presentation/Talk/Lecture, Conference Name Organizing institute, City, date and Year.

SNo.	Author	Title of	Name	Conference	City	Date and
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	/ Co author (if any)	presentation , /Talk/Lecture	Organizing institute			Year
1	Shachi Shah et. al.	Studies on factors affecting lignin biodegradation by actinomycetes (streptomyces species)	TNAU	Annual convention of the Indian society of soil science	Coimbatore	18-28 Oct. 2005
2	Shachi Shah et. al.	Diversity and nitrogen fixation efficacy of <i>Rhizobium</i> sp. Nodulating lentil.	Department of Biotechnology. , Barkatulla University.	47 th Annual conference, Association of Microbiologists of India,	Bhopal	December 6-8 , 2006
3	Co author	Screening of phosphorus solubilizing bacteria and their efficacy in plant growth promotion.	Department of Biotechnology. , Barktulla University.	47 th Annual conference, Association of Microbiologists of India	Bhopal	December 6-8 , 2006
4	Co author	Comparative 'P' solubilization efficiency of chickpea bacterial isolates in indigenous and alternative soil system	Department of Biotechnology. , Barktulla University.	47 th Annual conference, Association of Microbiologists of India	Bhopal	December 6-8 , 2006
5	Shachi Shah et. al.	Disaster management: Incorporating fuzzy logic with probability approach to predict land slide	Amrapali Institute Management	National sciences conference on Era of Globalization: challenge in management & IT	Haldwani	25-26 Nov, 2005
6	Shachi Shah et. al.	Screening of cold tolerant high yielding cellulase	Department of Biotechnology. IIT Madras, Chennai	48 th Annual conference, Association of Microbiologists of	Chennai	December, 18th – 21, 2008

		producing microbes from Indian Central Himalaya.		India,		
7	Co author	Climate change in the Hill regions	G.B.Pant University of Agriculture and Technology, Pantnagar	Networking for biodiversity climate change and ecosystem services in mountains	Pantnagar	March 8-10, 2007
8	Shachi Shah et. al.	Isolation and characterization of cellulase producing microorganism for forest litter degradation.	School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.	National on Contemporary Environmental Problems and Biotechnological Application in their Management	New Delhi	March 07-08, 2008
9	Co author	Climate and its variability over Indian Central Himalaya.	Hyderabad	International Symposium on Agrometeorology and Food Security,	Hyderabad	18-21 February 2008
10	Shachi Shah et. al.	Diversity of symbiotic rhizobia among six native cultivated legumes in Garhwal Himalaya.	National symposium on advances in microbial diversity and disease management for sustainable crop production	GBPUAT, Hill Campus	Ranichuari,	October 13-15, 2008
11	Co author	Rhizobacterial diversity in Garhwal Himalaya and its influence on soil and plant health	National symposium on advances in microbial diversity and disease management for sustainable crop production	GBPUAT, Hill Campus	Ranichuari, UK	October 13-15, 2008
12	Co author	Physiological and molecular approaches for yield improvement In crop plants.	Lead paper presented in Zonal Seminar on physiological and molecular interventions for yield and quality improvements in crop plants.	Centre of excellence in Ag biotechnology, SVPUAT, Meerut & ISPP, IARI New Delhi	Meeru	17-18 September 2010.
13	Co author	Effect of phosphate solubilizing	Seminar on physiological and molecular	Centre of excellence in Ag biotechnology, SVPUAT, Meerut &	Meeru	17-18 September 2010.

		bacteria on plant growth promotion and nodulation in soybean (<i>Glycine max(L.) Merr.</i>).	interventions for yield and quality improvements in crop plants.	ISPP, IARI New Delhi		
14	Co author	Studies on the diversity in morphology and biochemical characterization of Seabuckthorn (<i>Hippophae salicifolia</i> D Don.) population growing in Garhwal Himalaya.	National conference on Seabuckthorn : emerging trends in production to consumption	Organized by CSKHPKV, Palampur, HP	HP	Feb16-18, 2010
15	Shachi Shah et. al.	Effect of water stress on nodulation and growth of common bean (<i>phaseolus vulgaris</i>).	International conference on cooling the earth tactics for restoring climate order and saving the living planet. Organized by from	GBPUAT, Pantnagar	, Pantnagar	15 to 17 November 2010.
16	Co author	Effect of plant growth promoting rhizobacteria on growth and yield of soybean (<i>Glycine max.L.Merill</i>) in mid Himalayan region of Uttarakhand.	National symposium on technological interventions for sustainable agriculture	GBPUAT, Hill Campus, Ranichauri.	Ranichauri	3-5th May ,2011
17	Co author	Effect of phosphate solubilizing	Zonal seminar on physiological	Centre of excellence in Ag biotechnology, SVPUAT, Meerut &	Meeru	17-18 September 2010.

		bacteria on plant growth promotion and nodulation in soybean (<i>Glycine max</i> (L.) Merr).. Organized by	and molecular interventions for yield and quality improvement in crop plants	ISPP, IARI New Delhi		
18	Shachi Shah et. al.	A study on the adoption and use of virtual classrooms for effective education process	National Seminar ODL in India: Present Status & Future prospects held	STRIDE, IGNOU, New Delhi.	New Delhi.	Sept 29-30, 2015
19	Shachi Shah et. al.	Soil organic carbon sequestration potential of agricultural land For Environmental Sustainability.	1 st National Agricultural Research & Innovation Conference on Balanced Fertilization : A key to food security & Environmental Sustainability.	Amity Institute of Organic Agriculture, NOIDA.	NOIDA.	24-25 th Feb, 2016
20	Co Author	Sustainable intensification through climate smart agriculture.	1 st National Agricultural Research & Innovation Conference on Balanced Fertilization : A key to food security & Environmental Sustainability.	Amity Institute of Organic Agriculture, NOIDA.	NOIDA.	24-25 th Feb, 2016
21	Shachi Shah	Isolation and characterization of Biosurfactant producing bacteria from oil contaminated sites.	National Conference on Environmental Sustainability in Wastewater Remediation: Current Status and future prospects.	Sri Venkateswara College, University of	Delhi.	19-20 th Jan, 2017
22	Shachi Shah et. al.	An investigation to evaluate the potential of virtual labor for skill	International Seminar on Skill	STRIDE, IGNOU	Delhi	9-11 th March, 2017

(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

		development a capacity buildi Environmental Science	Development through ODeL: Innovations, Entrepreneursh ip, Employment for inclusive and sustainable livelihoods.			
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8. Study Tour Organised/ Participated/ Attachment Organized/Internship: -NA

- List of the tour with name of coordinating body and duration
- Name of coordinating body and duration

9. Consultancy assignment (if any): -NA

- Organization/ agency, cost, title of consultancy, duration

10. Details of Institution/ Government/ Industry Sponsored Research Projects and Amount (Both completed and ongoing): -NA

- Agency, amount, duration with dates and status i.e. ongoing/ completed

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

1. Name: Mrs Lakhvinder Kaur,
Enrolment Number: 173100970
Year of Registration: January, 2017
2. Name: Ms. Sonam Angmo
Enrolment Number: 188501530
Year of Registration: July, 2018

12. Details of Programmes/ Courses coordinated and developed:

- Programmes coordinated and period
 - a) Course design and development of M.Sc. (Environmental Science) - 24.10.2011- Present
 - b) Developed MOOC on Sustainable Management of Biodiversity -
 - c) Development and Maintenance of Appreciation Programme on Sustainable Management of Biodiversity (APSMBIO) 24.10.2011- Present
- Courses coordinated and period

Course Code	Course Title	Credits
MEV 011	Fundamentals of Environmental Science and Ecology	04
MEV 014	Sustainable Natural Resource Management	04
MEVE013	Environmental Biotechnology	04
MEVL 013	Environment Lab Course	04

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MEVP 011	Project Work	08
MEVE014	Biodiversity Conservation And Management	04
MEVE-003	Agriculture and allied sectors	04
REVE 003	Environmental Biotechnology	08

- Courses edited and period
 - a) PG Diploma in Food technology- Course 02, Block 1 Unit 1,2,3,4, Block 3- Unit 12,13
 - b) PG Certificate in Climate Change (PGCCC)- Course 02, Block 2 ,
 - c) Appreciation Programme on Sustainable Management of Biodiversity- Block 1
 - d) Post Graduate Diploma in Sustainability Science- MSD-012: Ecosystem and Natural Resource (Format editing)
- SLM: Units contributed and period

Progr. Code	Course Code	Block No.	Title of the Unit
CHCWM	BHM 101	1	Unit -1 - Introduction to Environment
PGDEOH	MEV-001	1	Unit 1- Introduction to natural environment
PGDEOH	MEV- 002	1	Unit 4-Weather related/ costal hazards
PGDEOH	MEV-002	3	Unit 2- Agriculture and allied sectors
PGDEOH	MEV-004	1	Unit 4- Toxicity Assessment
PGDEOH	MEV-003	1	Unit 3- Land Practices and pollution
PGDEOH	MEV-003	1	Unit 4- Invasive species
PGDEOH	MEV-003	4	Unit 2-Food borne Diseases
PGDEOH	MEV-004	3	Unit1-Industrail risk assessment and hazard identification
ACPSD	ACPSD	3	Unit 2-Environment and Sustainability Programme

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

S.No.	Programme Title	Course	Role	Period
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(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

1	Paris Agreement: A Signpost To Climate Resilient World (Audio)	MEV-017	Content coordinator	2015-2018
2	National Green Tribunal: A Necessity For Environmental Protection (Audio)	MEV-017	do	2015-2018
3	Urban Socio-Ecological Linkages	MEVE-016	do	2015-2018
4	Electronic Waste	MEV-015	do	2015-2018
5	Environment Biomarker	MEV-018	do	2015-2018
6	Nutrition Security and Traditional Farming	MSD-012	Expert	2015-2018

- Video programmes(title and Course, period)- MOOC on Sustainable Management of Biodiversity

S. No.	Title of the Video (MOOC modules)	Content coordinator/Expert
1	Basic concept of Biodiversity	Content coordinator/Expert
2	Origin of Species	Content coordinator
3	Value of biodiversity	Content coordinator/Expert
4	Ecosystem Services	Content coordinator/Expert
5	Biodiversity hotspots	Content coordinator/Expert
6	Biodiversity in India	Content coordinator/Expert
7	Introduction to Wetland Biodiversity	Content coordinator
8	Biodiversity in wetland Ecosystem	Content coordinator
9	Introduction to Forest Biodiversity	Content coordinator
10	Biodiversity in Tropical forests	Content coordinator
11	Biodiversity in Subtropical and Temperate forests	Content coordinator
12	Plant genetic resources	Content coordinator
13	Centres of origin of crops	Content coordinator
14	Agrobiodiversity	Content coordinator
15	Crop Domestication	Content coordinator
16	Livestock genetic Resources	Content coordinator

17	Fish genetic Resources	Content coordinator
18	Germplasm evaluation	Content coordinator
19	Food security and agrobiodiversity	Content coordinator
20	Direct Drivers of biodiversity loss	Content coordinator/Expert
21	Impact of climate change on biodiversity	Content coordinator)
22	Invasive species as a threat to biodiversity	Content coordinator Delhi
23	Threats to biodiversity hotspots in India	Content coordinator
24	Consequences of biodiversity loss	Content coordinator
25	Conservation Biology	Content coordinator
26	Extinction of species	Content coordinator/Expert
27	Plant Germplasm Conservation	Content coordinator
28	In situ conservation of biodiversity	Content coordinator
29	Ex situ conservation methods	Content coordinator
30	Protected Areas	Content coordinator/Expert
31	Sustainable management of biodiversity- An ecosystem Approach	Content coordinator
32	Role of traditional Knowledge in Biodiversity Conservation	Content coordinator
33	Community based ecosystem conservation	Content coordinator
34	Gender and Biodiversity Conservation	Content coordinator
35	International instruments to conserve biological diversity	Content coordinator
36	Convention of Biological Diversity	Content coordinator
37	Millennium Developmental Goals and biodiversity	Content coordinator/Expert
38	National instruments to conserve biological diversity	Content coordinator
39	National Biodiversity Act 2002	Content coordinator
40	Governance of biodiversity in India	Content coordinator

- Training programmes developed / coordinated, duration and dates

13. Details of Counselling sessions conducted:(Programme/ Course, dates and duration)

- Face to Face-
 - Ph.D classes (Environmental Science), batch 2018
 - Ph.D classes: (Interdisciplinary and Transdisciplinary Studies), 2017
 - Academic Counsellor, Diploma in Food safety and quality Management (Course 2) Jamia Humdarad University, New Delhi

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- Radio counselling- IRC
 - Growth and Over-exploitation of Natural resources 03.05.2017
 - Sustainable Management of Biodiversity 18.10.2017
 - Inter-linkages between biodiversity and SDG 31. 01.2018
 - Biodiversity and sustainable livelihood- 16th May, 2018
 - International day of Biodiversity 22 .05.2018
 - A sustainable energy resource- 02. 01.2019
- Teleconferencing-
 - Introduction to Biodegradation 23rd July, 2018
 - Waste Bioremediation 16th August, 2018
 - Bioplastic: A sustainable solution to beat plastic pollution- 24th October, 2018
 - Biodiversity loss and conservation responses in an anthropogenic world 1st November, 2018
 - Impact of Climate Change on Biodiversity- 22nd May,2013
- Web conferencing

S.No	Programme	Course
1	Post Graduate Diploma in Sustainability Science (PGDSS)	MSD-012: Ecosystem and Natural Resources
2	Post graduate Diploma in Food Science and Technology	MFT 002- Food Microbiology
3	Post graduate Diploma in Food safety and Quality Management	MVPI-001 Food Microbiology
4	Appreciation Programme on Sustainable Management of Biodiversity	APSMBIO
5	Appreciation Programme on Sustainable Management of Wetland	APSMW
6	Leadership Programme in Nutritional Security and Sustainable Development	LPNSSD

14. Research Credentials: (data to be obtained from Indian Citation Index/Google Scholar (Access to Indian Citation Index is available on the IGNOU Library web Page) Goggle Scholar is a free source that can be accessed by anyone, anywhere.)

Research interest and specialization	h-index cumulative	i-10 index Cumulative	Citations Cumulative
Waste remediation, PGPR, Bioenergy	7	7	159

15. Details of Patents granted (if any):NA

(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)

16. Contribution to IGNOU's corporate life:

- Chairperson/ Member of Committee and name of the Committee and date/ period
Member of School Board, SOITS
Coordinator, School Council, SOITS
Coordinator, Discipline Group, Environmental Science, SOITS
Member, Innovation Club, IGNOU

17. Administrative position/s held in the University -NA

- Designation and duration

18. Any other contribution/information

Signature of Teacher /Academic

Signature of Director/ Head