

1. Details of the Teacher/ Academic :

Name & Date of Birth:	Dr. Sushmitha Baskar; 23.12.1972
Date of Joining in IGNOU:	11.10.2011
Current Designation:	Assistant Professor (Senior Scale)
Pay Scale as on date:	Academic Level: 11, 68900-205500
Qualifications:	M.Sc., M.Phil, Ph.D. Environmental Science MA (Distance Education); Post Graduate Diploma in Distance Education (PGDDE) Diploma in German Diploma in Computer Languages

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/ membership of Professional body/ Statutory body	Agency name /Name of statutory body/ institution/ Apex body	Period
Dr. Sushmitha Baskar	University Silver Medal, IGNOU 2019 for 2 nd Best Research Paper. Awarded in 32 nd Convocation, April 3 rd 2019, IGNOU, New Delhi	IGNOU, New Delhi Indian Bank Sponsored	2019
Dr. Sushmitha Baskar	Memento of Honour and certificate, Felicitated, Section Earth System Sciences. Bacteria isolated from Caves: Potential to restore stone monuments.	Indian Science Congress, Lovely Professional University, Jalandhar. Jan 3 rd -7 th 2019.	2019
Dr. Sushmitha Baskar	Memento of Honour and certificate, Felicitated, Climate Change and Human Health, 2019.	Maharshi Dayanand University, Rohtak, Key note Speaker.	2019
Dr. Sushmitha Baskar	Memento of Honour and certificate, Felicitated, Invited Speaker, 2018.	Gadjah Madah University, Yogyakarta, Indonesia.	2018
Dr. Sushmitha Baskar	Memento of Honour and certificate, Felicitated, Invited Talk, 2017. Leptothrix induced Iron biomineralization at Borra caves, India. 22 – 23 rd November 2017, National Conference on Climate	Central University of Haryana, Mahendergarh, Haryana	2017

	change and Sustainable clean environment.		
Dr. Sushmitha Baskar	Memento of Honour and certificate, Felicitated, Indian Science Congress, Invited Talk, 2017, Tirupati, Section Earth System Sciences. Biosignatures in Speleothems from Krem Syndai, Meghalaya.	Indian Science Congress, 3-7 th January 2017, SV University, Tirupati.	2017
Dr. Sushmitha Baskar	Memento of Honour and certificate, Felicitated, Invited Speaker, 2015. An overview of Cave biosignatures and their significance.	Mahidol University, Kanchanaburi, Thailand.	2015
Dr. Sushmitha Baskar	Life Member, Indian Science Congress Association, Calcutta	Life Member No: L21667	2013
Dr. Sushmitha Baskar	Life Member, AMI, Association of Microbiologists of India, New Delhi	Life Member No: 3928-2014	2014
Dr. Sushmitha Baskar	SOITS, IGNOU, School Board member	IGNOU, New Delhi	2016 - 2017
Dr. Sushmitha Baskar	Silver Medalist B.Sc.,	Bharathiar University, Coimbatore	1993
Dr. Sushmitha Baskar	Gold medallist M.Sc.,	Bharathiar University, Coimbatore	1995
Dr. Sushmitha Baskar	Jawaharlal Nehru Award for First Rank in M.Sc.	Jawaharlal Nehru Fund, New Delhi	1995
Dr. Sushmitha Baskar	CSIR-SRF	CSIR, New Delhi	1999-2002
Dr. Sushmitha Baskar	CSIR-RA	CSIR, New Delhi	2005-2008
Dr. Sushmitha Baskar	Swiss Embassy Fellowship ETH-Zurich, Switzerland.	Federal Commission for Scholarships, Switzerland	2002-2004
Dr. Sushmitha Baskar	UGC Dr. DS Kothari Postdoctoral fellow	UGC, New Delhi	2008
Dr. Sushmitha Baskar	Indo-Norwegian Fellow, University of Bergen, Norway	Research Council, Norway	2008-2009
Dr. Sushmitha Baskar	Swedish Institute Fellowship, Stockholm University, Sweden,	Swedish Institute, Sweden	2009
Dr. Sushmitha Baskar	CSIR-SRA	CSIR, New Delhi	2010-2011

3. Books/Book Chapter:

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

No.	Name of Author1/ Editor 1, & Co- author (s) /	Title of chapter/book	Place of publication	Publisher	Total Pages	ISBN No.

	Co-editor (s) (if any)						
	Dr.Sushmitha Baskar and Dr.R.Baskar	ENVIRONME NTAL SCIENCES FOR ENGINEERING UNDERGRADU ATES (First Edition) (As per AICTE notified syllabus)	New Delhi	Unicorn Publishers , Pustak Mahal.	2007	166	ISBN 978-81-7806-125-2
	Dr.Sushmitha Baskar and Dr.R.Baskar	ENVIRONME NTAL STUDIES FOR UNDERGRADU ATES (First Edition) (As per UGC notified syllabus).	New Delhi	Unicorn Publishers , Pustak Mahal.	2007	363	ISBN 978-81-7806-132-0
	Dr.Sushmitha Baskar and Dr.R.Baskar	NATURAL DISASTERS (First Edition)	New Delhi	Unicorn Publishers , Pustak Mahal.	2009	159	ISBN 978-81-7806-168-9
	Rupini B, Baskar S, Sahoo S, Kapur N, Eds.	Environmental and Ecological Sustainability. Edited Book.	New Delhi.	MPDD, IGNOU, New Delhi.	2018	448	ISBN: 9789387960947
	Rupini B, Baskar S, Sahoo S, Kapur N, Eds.	International Conference on Environmental and Ecological Sustainability. Abstract Book Volume Edited.	New Delhi.	MPDD, IGNOU, New Delhi.	2018	100	
	S Baskar and R Baskar	Microbial diversity in some Indian caves and biomineralization processes: A Summary. Environmental and Ecological Sustainability Edited by B. Rupini, Baskar S, Sahoo S and Kapoor N S.	New Delhi	MPDD, IGNOU	2018	448	ISBN: 9789387960947
	Baskar S and Baskar R.	Environmental assessment and planning In: Introduction to	New Delhi	The Energy and Resources	2015	325- 340	ISBN-13: 978-8179934555

		Environmental Sciences, Eds Khoiyangbam, R.S and Gupta, N.		Institute Publications (TERI)			
	Lee, NM; Meisinger, DB; Aubrecht, R; Kovacic, L; Baskar, S; Baskar, R; Jimenez, CS; Porter, M and Engel, AS.	Life in Caves, Book chapter to "Life at Extremes", Edited by Bell, E.,		CABI Publishing.	2012		
	Baskar S and Baskar, R.	The Calcite Moonmilk controversy: A critical review. In: Calcite: Formation, Properties and Applications.		Nova Publishers	2012	31-243	ISBN: 978-1-61470-782-0
	Baskar S, Baskar R, Tiwari V, Thorseth IH, Øvreas L, Lee NM and Routh J.	Cave geomicrobiology in India: Status and prospects, The Stromatolites: Interaction of microbes with sediments. Eds. Joseph Seckbach and Vinod Tewari. Cellular Origin, Life in Extreme Habitats and Astrobiology. Volume 18, Part 5.		Springer Publication		541-569	
	Baskar S and Baskar R. 2015.	Speleothems from Krem Mawsmat, Meghalaya, India: Some biogenic evidences. In: Frontiers of Earth Science K.L. Shrivastava & Pankaj Srivastava (Eds)			2015	670 p	ISBN 978-81-7233-926-9.
	Baskar R and Baskar S. 2015.	Introducing Microbiology in the Indian Earth System			2015	670 p	ISBN 978-81-7233-926-9

		Science Curriculum: A game changing decision. In: Frontiers of Earth Science K.L. Shrivastava & Pankaj Srivastava (Eds)					
Dr. B. Rupini, Dr. Sushmitha Baskar and Prof. Ruchika Kuba	Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), Programme Guide, IGNOU 2019.	New Delhi	IGNOU New Delhi				
Dr. Sushmitha Baskar	MEV-001 Introduction to Environmental Health, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 1, ENVIRONMENT AND ECOLOGY, Unit 2 Ecosystem	New Delhi	IGNOU New Delhi	2019	19 – 36	ISBN: 987-93-88498-78-4.	
Dr. Sushmitha Baskar	MEV-001 Introduction to Environmental Health, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 2, AIR, WATER AND SOIL POLLUTION, Unit 4, Soil Pollution,	New Delhi	IGNOU New Delhi	2019	66 – 78	ISBN: 987-93-88498-79-1.	

Dr. Sushmitha Baskar	MEV-001 Introduction to Environmental Health, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 3, NOISE, RADIATION, SOLID WASTE, ELECTRONIC WASTE POLLUTION, Unit 1, Noise Pollution	New Delhi	IGNOU New Delhi	2019	5 – 16	ISBN: 987-93-88498-80-7.
Dr. Sushmitha Baskar	MEV-002 Environmental and Occupational Hazards, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 1, NATURAL HAZARDS, UNIT 1 Introduction to Natural Hazards and Disaster	New Delhi	IGNOU New Delhi	2019	5 – 20	ISBN: 987-93-88498-82-1.
Dr. Sushmitha Baskar	MEV-003 Environmental Law and Management, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 2, AWARENESS, RESPONSIBILITY AND COMPLIANCE, UNIT 3 Biosafety	New Delhi	IGNOU New Delhi	2019	29 – 45	ISBN: 987-93-88498-86-9.

Dr. Sushmitha Baskar	MEV-004 Environmental Toxicology, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 1, UNIT 1, Introduction to Toxicants	New Delhi	IGNOU New Delhi	2019	5 -19	ISBN: 987-88-88498-87-6.
Dr. Sushmitha Baskar	MEV-004 Environmental Toxicology, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 4, ENVIRONMENTAL CYTOTOXICITY AND GENOTOXICITY, UNIT 3, Teratogenesis	New Delhi	IGNOU New Delhi	2019		ISBN: 987-88-88498-90-6.
Dr. Sushmitha Baskar	MEVE-001 Environmental Impact Assessment for Environmental Health Analysis, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 1, INTRODUCTION TO ENVIRONMENTAL IMPACT ASSESSMENT, UNIT 4 Comprehensive Environmental Impact Studies	New Delhi	IGNOU New Delhi	2019	47 – 61	ISBN: 987-93-88980-00-5.
Dr. Sushmitha Baskar	MEVE-001 Environmental Impact	New Delhi	IGNOU New Delhi	2019	44 – 53	ISBN: 987-93-88980-02-9.

		Assessment for Environmental Health Analysis, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 3, NOISE, ENERGY, AND VEGETATION IMPACT ANALYSIS, Unit 4 Case Studies					
Dr. Sushmitha Baskar	MEVE-004 Industrial Sector, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 1, INDUSTRIAL POLLUTION: TEXTILE, MINING, PESTICIDE AND TANNING INDUSTRIES, Unit 1 Textile industry	New Delhi	IGNOU New Delhi	2019	5 – 19	ISBN: 987-93-88980-08-1.	
Dr. Sushmitha Baskar	MEVE-004 Industrial Sector, Post Graduate Diploma in Environmental and Occupational Health (PGDEOH), IGNOU 2019. Block 1, INDUSTRIAL POLLUTION: TEXTILE, MINING, PESTICIDE AND TANNING INDUSTRIES, Unit 4 Tanning industry	New Delhi	IGNOU New Delhi	2019	51 – 67	ISBN: 987-93-88980-08-1.	
Dr. Sushmitha Baskar	MEVP - 001 Project Work.	New Delhi	IGNOU New	2019		ISBN: 987-	

		Handbook on Project Work for Post Graduate Diploma in Environmental and Occupational Health (PGDEOH). Post Graduate Diploma in Environmental and Occupational Health (PGDEOH)		Delhi			
	Dr. Sushmitha Baskar and Dr. B. Rupini	BHM-101 Fundamentals: Environment and Health, health Care, waste management regulations, Certificate in Health care waste management, IGNOU 2018, Block 1, Understanding our environment, Unit 2, Ecosystem.	New Delhi	IGNOU New Delhi	2018	23 – 44	ISBN: 978-93-87960-08.
	Dr. Sushmitha Baskar	BHM-101 Fundamentals: Environment and Health, health Care, waste management regulations, Certificate in Health care waste management, IGNOU 2018, Block 1, Understanding our environment, Environmental pollutants and pollution: Solid waste and radiation, Unit 4,	New Delhi	IGNOU New Delhi	2018	47 – 74	ISBN: 978-93-87960-08.

4. Research Articles/Publications:

S.No	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Mudgil D,	Biom mineralization	Geomicrobiology	35 (8)		2018	Print ISSN: 0149-0451

	Baskar S, Baskar R, Paul D and Shouche YS.	potential of Bacillus subtilis, Rummeliibacillus stabekisii and Staphylococcus epidermidis strains in vitro isolated from speleothems, Khasi hill caves, Meghalaya, India.	Journal, Taylor and Francis Publication. Philadelphia, PA		675- 694.		Online ISSN: 1521- 0529
2.	Baskar S, Chalia S, and Baskar R.	Calcite precipitation by Rhodococcus sp. isolated from Kotumsar cave, Chattisgarh, India.	Current Science. Indian Science Academy Bangalore	114, (5)	1063- 1074.	2018	ISSN 0011-3891
3.	Baskar S, Chalia S, and Baskar R	Microbes Identified from Some Caves in Chattisgarh And Their Biocalcifying Abilities.	Ambient Science, published by National cave research and protection organization, India.	4 (2)	38- 39.	2017	ISSN- 2348 5191 (Print) & 2348 8980 (Electronic).
4.	Chalia S, Baskar S, Prasad M, Baskar R and Ranjan K	Biomineralization abilities of Cupriavidus strain and Bacillus subtilis strains in vitro isolated from speleothems, Rani cave, Chattisgarh, India.	Geomicrobiology Journal, Taylor and Francis Publication. Philadelphia, PA	34, (9)	737- 752.	2017	Print ISSN: 0149-0451 Online ISSN: 1521- 0529
5.	Baskar S, Routh J, Baskar R, Kumar A, Miettinen H and Itävaara M.	Evidences for microbial precipitation of calcite in speleothems from Krem Syndai in Jaintia Hills, Meghalaya, India: Geobiological significance.	Geomicrobiology Journal, Taylor and Francis Publication. Philadelphia, PA	33, (10)	906 – 933.	2016	Print ISSN: 0149-0451 Online ISSN: 1521- 0529
5.	Rupini B, Rao AM, Baskar S.	Skill development in Environmental Sector through Open and Distance Learning using Information & Communication Technologies	International Journal of Multidisciplinary Educational Research. India	5, (4)	87- 98.	2016	ISSN: 2277-7881.
6.	Baskar, S; Baskar, R.	Cave Biosignatures on Earth: Implications for Extraterrestrial life.	Planex Newsletter, Physical Research Laboratory (PRL) Newsletter, PLANEX, India	5, (3)	16-20	2015	
7	Baskar S,	Speleothems from	Geomicrobiology	31, (8)	664-	2014	

	Baskar R and Routh J.	Sahastradhara caves in Siwalik Himalaya, India: Possible biogenic inputs.	Journal, Taylor and Francis Publication Philadelphia, PA		81.		Print ISSN: 0149-0451 Online ISSN: 1521-0529
8.	Baskar S and Baskar R.	A summary of some microbes identified from different Indian caves and their possible role in mineral formation.	Ambient Science, published by National cave research and protection organization, India.	1 (2)	9-16.	2014	ISSN- 2348 5191 (Print) & 2348 8980 (Electronic)
9.	Baskar S, Baskar R, Thorseth IH, Øvreas L, Pedersen RB.	Microbial iron precipitation associated with a neutrophilic spring of Borra caves, Vishakapatnam, India.	Astrobiology Journal, Mary Ann Liebert Publication. Astrobiology. New Rochelle, NY.	12, (4)	327-346.	2012	ISSN: 1531-1074
10	Baskar, R and Baskar S	"L'Aquila Earthquake prediction judgment: An Eye Opener".	Current Science. Indian Science Academy Bangalore	104, (8)	1003-4.	2013	ISSN 0011-3891
11	Baskar S, Baskar R and Routh. J	Biogenic Evidences of Moonmilk deposits in the Krem Mawmluh Cave, Meghalaya, India.	Geomicrobiology Journal, Taylor and Francis Publication. Philadelphia, PA	28, (3)	252-265	2011	Print ISSN: 0149-0451 Online ISSN: 1521-0529
12	Baskar S, Baskar R and Barton HA	Cave Geomicrobiology as a thrust area of research in the Indian context.	Current Science. Indian Science Academy Bangalore	97, (5)	621-622.	2009	ISSN 0011-3891
13	Baskar S and Baskar R.	Geobiology and Geomicrobiology: Importance and need for studies in the Indian context,	Current Science. Indian Science Academy Bangalore	96, (1)	200-201.	2009	ISSN 0011-3891
14	Baskar S, Baskar R, Lee N, Kaushik A and Theophilus P.K.	Precipitation of iron in the microbial mats of the spring waters of Borra Caves, Vishakapatnam, India: Some geomicrobiological aspects.	Environmental Geology, Springer Publication	56, (2)	237-243.	2008	ISSN: 0943-0105 (Print)
15	Baskar S, Baskar R, Lee N and Theophilus P.K.	Speleothem formations of Mawsmi caves and Krem Phyllut caves, Meghalaya, India: Some evidences for biogenic activities.	Environmental Geology, Springer Publication	57, (5)	1169-1186.	2009	ISSN: 0943-0105 (Print)
16	Baskar S., Baskar R.,	Evidences for microbial	Current Science. Indian Science	92, (3)	350 – 355	2007	ISSN 0011-3891

	Kaushik A.	involvement in the genesis of speleothem carbonates, Borra Caves, Vishakapatnam, India	Academy Bangalore				
17	Baskar S, Baskar R, Mauclaire L and McKenzie J.A	Microbially induced Calcite precipitation by culture experiments – Possible origin for Stalactites in Sahastradhara, Dehradun, India.	Current Science. Indian Science Academy Bangalore	90, (1)	58 – 64.	2006	ISSN 0011-3891
18	Baskar S., Baskar R., Mauclaire L. and McKenzie J.A.	Role of microbial community in stalactite formation, Sahastradhara caves, Dehradun, India.	Current Science. Indian Science Academy Bangalore	88, (8)	1305-1308.	2005	ISSN 0011-3891
19	Baskar S, Baskar R and Kaushik A	Role of Microorganisms in weathering of the Konkan-Goa laterite formations.	Current Science. Indian Science Academy Bangalore	85	1129-1134.	2003	ISSN 0011-3891
20	Baskar S, Baskar. R. and Kaushik. A.	Mineralogical variations in the Konkan-Goa Laterites.	Journal of Indian Association of Sedimentologists, Published by the Indian Association of Sedimentologists. India	21 (1),	31-37.	2002	ISSN 0970 - 3268
21	Baskar S, Baskar. R. and Kaushik. A.	Geochemical behaviour of major and trace elements in laterites from Konkan-Goa coastal Belts, India.	Journal of Applied Geochemistry Publisher: <u>Indian Society of Applied Geochemists</u> India	4, 2B,	475-486.	2002	Print ISSN: 0972-1967
22	Baskar S and Usha Rani M.V.	Genotoxic effects of untreated and treated paper mill effluents on the somatic cells of <i>Allium cepa</i> .L.	Pollution Research, EM International India	21 (4),	469-472.	2002	ISSN: 0257-8050
23	Baskar S and Usha Rani M.V.	Cytogenetic and biochemical effects of untreated and treated paper mill effluents on the somatic cells of <i>Allium cepa</i> .L.	Pollution Research, EM International India	21 (4),	473-477.	2002	ISSN: 0257-8050

5. Policy Documents Reports/ Mimeos: NIL

		tion/ Agency	
1.			
2.			
3.			

6. Book Review published : NIL

	r/ Co-author (if any)		of Journal	ne	no. (s)		No

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

No.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Organizing institute	Conference	City	Date and Year
1	Baskar S and Baskar R (2019).	Bacteria isolated from Caves: Potential to restore stone monuments, Talk	Indian Science Congress, Lovely Professional University, Jalandhar.	Indian Science Congress,	Jalandhar.	Jan 3 rd -7 th 2019.
2	Mudgil D, Baskar S and Baskar R,	Biomineralization ability of bacterial strains in vitro isolated from speleothems, Khasi hills, Meghalaya, India. Talk	OITS, IGNOU,	International Conference on Environmental and Ecological Sustainability	New Delhi	4-5 th October 2018.
3	Baskar S and Baskar R	Microbial diversity in some Indian caves and their possible role in Biomineralization processes. Talk	OITS, IGNOU,	International Conference on Environmental and Ecological Sustainability	New Delhi	4-5 th October 2018.
4	Baskar S and Baskar R	Scientific criteria to differentiate biological and non-biological mineralized structures: Some studies from	Manipur University, Imphal.	Indian Science Congress	Imphal.	16 th - 20 th March 2018,

		the Indian caves. Talk				
5	Baskar S and Baskar R	Ecorestoration potential of microbes isolated from some Indian caves Talk	National Seminar on "Challenges and Opportunities in Earth Science Education and Research	Department of Studies in Earth Science, University of Mysore, Mysore, Karnataka	Mysore, Karnataka	29-30 January 2018.
6	Baskar S and Baskar R	Leptothrix induced Iron biomineralization at Borra caves, India Plenary Speaker	National Conference on Climate change and Sustainable clean environment,	Central University of Haryana, Mahendergarh, Haryana	Mahendergarh, Haryana	22 – 23 rd November 2017
7	Baskar S, Saroha S and Baskar R	Biocalcifying abilities of some microbes identified from caves in Chattisgarh, India Talk	Annual Conference of The Association of microbiologists of India (AMI-2017)	BBAU, Lucknow.	Lucknow	(2017).. 16 – 19 th November 2017,
8	Baskar S, Baskar R and Biswas P.K.	Geomicrobiology programmes through Open Distance e-Learning: Potential for employment. Talk	International Seminar on Skill Development through ODeL: Innovations, Entrepreneurship, Employment for Inclusive and Sustainable Livelihoods	IGNOU, New Delhi.	IGNOU, New Delhi.	March 09-11, 2017
9	Baskar S and Baskar R	Biosignatures from Borra Caves, India. Talk	National Seminar on Recent advances and 10 challenges in Geochemistry, Environmental and Sedimentary geology	Aligarh Muslim University, Aligarh.	Aligarh.	27 th February 2017
10	Baskar S and Baskar R	Biocalcification abilities of microorganisms identified from some caves in Meghalaya: Potential for Eco-restorative applications. Talk	National Conference on Environmental Sustainability in Wastewater Remediation: Current Status	Sri Venkateswara College, University of Delhi, Delhi.	Delhi.	19 th -20 th January 2017

			and Future Prospects			
11	Baskar S and Baskar R	Biosignatures in Speleothems from KremSyndai, Meghalaya. Invited Talk	Indian Science Congress, 3-	SV University, Tirupati.	Tirupati	7 th January 2017
12	Baskar S, Saroha S and Baskar R	Calcite biomineralization by <i>Cupriavidus</i> sp. isolated from Rani cave, Chattisgarh. Talk	Annual Conference of The Association of microbiologists of India (AMI-2016)	Guwahati University, Guwahati.	Guwahati.	24 th – 27 th November 2016
13	Baskar S and Baskar R	Moonmilk deposits at KremMawmluh and Sahastradhara cave, India: An Overview Talk	Indian Science Congress	University of Mysore, Karnataka	Mysore, Karnataka	3-7 th January 2016
14	Baskar S and Baskar R	A comparison of the different sample preparation techniques used in SEM: A case study of iron mats in Borra caves. Poster	56 th International Annual Conference of The Association of microbiologists of India (AMI-2015)	Jawaharlal Nehru University, New Delhi.	New Delhi.	7 th – 10 th December 2015
15	Baskar S, Rupini B, BaskarR, BiswasPK.	Environmental Education through the Open and Distance Learning System: A Need Assessment Study. Talk	National Seminar on Open Distance Learning in India: Present Status & Future Prospects.,	IGNOU, New Delhi	New Delhi	September 29-30, 2015
16	Baskar S and Baskar R	Speleothems from KremMawsmi, Meghalaya, India: Some biogenic evidences. (Invited Talk).	Indian Science Congress, ,	University of Mumbai, Mumbai	Mumbai	3-7 th January 2015
17	Baskar S and Baskar R	Linkages between iron in an organic mat and bacteria from Borra cave, India. Poster	National conference on empowering mankind with 18microbial technologies (AMI-EMMT 2014)	Association of microbiologists of India 55 th conference	Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu.	12 th – 14 th November 2014
18	Baskar, S and Baskar, R	Bacterial involvement in Iron precipitation from Borra caves, Andhra Pradesh: Some evidences Talk	Indian Science Congress	University of Jammu, Jammu.	Jammu	3 rd -7 th February 2014
19	Baskar, S and Baskar, R	Eco-restorative Applications of some microorganisms identified in Meghalaya caves. Poster	Indian Science Congress	University of Kolkata, Kolkata.	Kolkata.	3-7 th January 2013
20	Baskar, S and Baskar, R	Microbial Diversity of Cave Ecosystems: A study of the iron mats of the Borra Caves, Andhra Pradesh, India.	Second National Conference on	University of Delhi	Delhi	29-30 th Dec 2012, New Delhi.

		Talk	Environment and Biodiversity of India (EBI),			
21	Baskar S, Baskar R and Kaushik A.	Biocalcification by cave microbes: Eco-restorative applications. Talk Special Appreciation Award for best paper presentation.	National Seminar on Strategies for Mitigation of Environmental Degradation and Climate Change.	Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology	Hisar	2-3 rd March 2012
22	Baskar S	Invited Speaker. Climate Change, Environment and Health.	National Conference on Global Climate Change: Concerns and Solutions,	MDU Rohtak, Haryana,	Rohtak, Haryana,	February 15 - 16 th 2019.
23	Baskar S, Baskar R and Kaushik A	Initial Geomicrobiological report on Syndai Cave Ecosystem, Jaintia Hills, Meghalaya: Some SEM Observations. Poster	Indian Science Congress ISCA 2012.	KIIT, Bhubhaneshwar, Orissa	KIIT, Bhubhaneshwar, Orissa	3-7 th January 2012
24	Baskar S and Baskar R.	Microbial diversity of spring mat from Borra cave Vishakapatnam. Talk	Multidisciplinary approaches in frontier areas of Environmental Science and Engineering.	Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology	Hisar	4-5 th March 2011
25	Baskar S, Baskar R, Thorseth I H, Øvreas L, Pedersen R B, Lee N M and Routh J.	Microbial involvement in the precipitation of iron in organic matter associated with a neutrophilic spring of Borra cave Vishakapatnam, India. Poster	Winter Conference	Geological Survey Norway, Bergen.	Norway, Bergen.	January 13-15 2009
26	Baskar S., Baskar R., Maclaure L. and McKenzie. J.A.	Initial results of mineralogical and geomicrobiological study of stalactites from Sahastradhara caves, Dehradun, India. Poster	Swiss Sedimentologists Meeting (Swissed),	University of Fribourg, Switzerland	Fribourg, Switzerland	31 Jan, 2004
26	Baskar S, Baskar R. and Kaushik A.	Mineralogy and geomicrobiology of the Konkan-Goa laterites, Talk	National seminar on "Emerging environmental issues and technological challenges	Guru Jambheshwar University, Hisar, India	Hisar	September 1-2 2003
27	Baskar S, Baskar R. and Kaushik A.	A study of the mineralogical changes in the Konkan-Goa Laterites using XRD. Talk	National Seminar, Indian Association of Sedimentologists,	Aligarh Muslim University, Aligarh, India	Aligarh, India	Nov. 6-8 2002

28	Baskar S, Baskar. R. and Kaushik. A.	Geochemical behaviour of major and trace elements in laterites from Konkan-Goa coastal Belts, India. Talk	International Symposium on Applied Geochemistry in the coming decades	Osmania University Hyderabad	Hyderabad,	August 10-12, 2001,
29	Baskar S, Baskar R, Thorseth I H, Øvreas L, Pedersen R B, Lee N M and Routh J.	Microbial iron precipitation in an organic mat associated with a neutrophilic spring of Borra caves, Vishakapatnam, India: A SEM and TEM approach. Poster	International workshop on Geobiology	Centre for Geobiology (CGB), University Bergen, Bergen Norway	Norway	20-22 October 2008
30	Baskar S	Chair	National Conference on Global Climate Change: Concerns and Solutions,	MDU Rohtak Haryana,	Rohtak, Haryana,	February 15 - 16 th 2019.
31	Baskar S	Chair	National Conference on Climate change and Sustainable clean environment,	CUH, Mahendergarh Haryana,	Mahendergarh, Haryana,	Nov 22-23 rd 2017.
32	Baskar S	Co-chair	National Seminar on Recent advances and challenges in Geochemistry, Environmental and Sedimentary Geology	Aligarh Muslim University, Aligarh,	Aligarh	27 th February 2017
33	Baskar S	Rapporteur	International Seminar on "Skill Development through ODeL: Innovations Entrepreneurship, Employment for Inclusive and Sustainable Livelihoods",	STRIDE IGNOU	Delhi	10.3.2017.
34	Baskar S	Rapporteur	International Conference on Migration and Diaspora,	SOITS IGNOU	Delhi	March 2017

**8. Study Tour Organised/ Participated/ Attachment Organized/Internship:
Study Visit Organized for PHDEV 2018**

	Details of the tour	Name of coordinating body	Duration
1.	One day “Lab visit and Lecture at Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi” on 27 th August 2018. Ph.D. Environmental Science students of IGNOU Batch Jan 2018.	Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi”	One day on 27 th August 2018.
2.	One day “Lab visit and Lecture at National Institute of Cancer Prevention and Research, ICMR, Noida,” on 28 th August 2018. Ph.D. Environmental Science students of IGNOU Batch Jan 2018.	National Institute of Cancer Prevention and Research, ICMR, Noida,”	One day 28 th August 2018

9. Consultancy assignment (if any): NIL

	Organization/ agency	Cost, title of consultancy	Duration

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

	Agency	Amount	Duration with dates	i.e. ongoing/ completed

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

	Name and enrolment no:	registration	completion/ award
1.	Co-supervisor to Swati Saroha, Enrolment no: 12049005.	Registration 3 rd October 2012. Biocalcification Abilities of Bacterial Communities and their role in Speleothem Genesis form caves of Chattisgarh, India.	6 th Feb 2018, Awarded Ph.D. Environmental Science. Guru Jambheshwar University of Science and Technology, Hisar, Haryana.
2.	Co-supervisor to Devender Mudgil	Microbial diversity and	6 th Feb 2019,

	Enrolment no: 12049004.	biomineralization potential of bacterial communities from speleothems in Garo and Khasi Hills, Meghalaya, India” Devender Mudgil	Awarded Ph.D. Environmental Science. Guru Jambheshwar University of Science and Technology, Hisar, Haryana.
3.	Monika Jain July 2019 IGNOU	Pursuing Ph.D. Environmental Science. IGNOU	
4.	Abirami. S. July 2019 IGNOU	Pursuing Ph.D. Environmental Science. IGNOU	

Ph.D. Environmental Science (2 students awarded).

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

Programme	Course	Unit (print)/ Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period
Ph.D. Environmental Science Coordinated 2016 till present Programme Coordinator	Course Coordinator REV- 001; REVE-004		Coordinated 2016 till present	Programme Coordinator Coordinated 2016 till present
PGDEOH Programme Coordinator	Course Coordinator MEV-002; MEV-004; MEVP-001	Print	Coordinated 2014 till present	Coordinated 2014 till present
MSc Environmental Science	Course Coordinator Earth Processes, Disaster Management and Environment and Society	Print	Coordinated Written 7 units	Coordinated 2014 till present
APSMW Programme Coordinator	Programme Coordinator	Online course	Coordinated 2014 till present	Coordinated 2014 till present
PGDEOH	Programme Coordinator	Print	Content and Format editing MEV-001, MEV-002, MEV-003, MEV-004, MEVP-001, MEVE- 001, MEVE-002, MEVE-003, MEVE- 004 Programme guide, Project guide	Programme Coordinator Coordinated 2014 till present

				Written 12 units programme guide and project guide Ecosystem Soil Pollution Noise Pollution Solid waste Pollution Introduction to natural hazards and disaster Biosafety Introduction to toxicants Teratogenicity Comprehensive environmental impact studies Case studies Textile industry Tanning industry	
	School of Health Sciences 2018 Discipline: Health Science Certificate in Health Care Waste Management		Print	Written units Ecosystem Environmental Pollutants and Pollution: Solid waste and radiation.	2018
	School of Sciences 2018 Discipline: Biochemistry BSc Hons Biochemistry		Print	Written Eubacteria Archaea and unusual bacteria	2018
	Post Graduate Certificate in Climate Change SOITS		Print	Written Climate and human health	2019
	MOOC: IGNOU 2015-2016 Appreciation Course on Sustainable Management of Biodiversity		Online Course	Print and video talk Introduction to Wetland Biodiversity Biodiversity in Wetland Ecosystem Biodiversity in Tropical Forests Introduction to Forest Biodiversity Biodiversity in Subtropical and Temperate Forests National Biodiversity Act, 2002	2016
	PGDEOH	Introduction to environmental health Part 1, MEV-001	Audio	Content Coordinator	2016
	PGDEOH	Introduction to environmental	Audio	Content Coordinator	2016

		health Part 2, MEV-001			
	PGDEOH	An Overview of Natural hazards MEV-002	Audio	Content Coordinator	2016
	PGDEOH	Occupational hazards and Management, MEV-002	Audio	Content Coordinator	2017
	PGDEOH	International Environmental Law: An Overview, MEV-003	Audio	Content Coordinator	2017
	PGDEOH	Constitutional provisions on environment, MEV-003,	Audio	Content Coordinator	2017
	PGDEOH	Introduction to Toxicology and Eco-toxicology, MEV-004	Audio	Content Coordinator	2017
	PGDEOH	Toxicity risk assessment and carcinogenicity, MEV-004	Audio	Content Coordinator	2017
	PGDEOH	Environmental Impact Assessment for environmental health, MEVE-001,	Audio	Content Coordinator	2017
	PGDEOH	The Environmental Impact Assessment Process, MEVE-001	Audio	Content Coordinator	2017
	PGDEOH	Biofertilizers: Basis for Sustainable Living, MEVE-003	Audio	Content Coordinator	2017
	PGDEOH	Biofertilizers: Basis for Sustainable Living, MEVE-003	Audio	Content Coordinator	2017
	PGDEOH	Industrial pollution: Causes and effects, MEVE-004	Audio	Content Coordinator	2017
	PGDEOH	Industrial safety and management, MEVE-004	Audio	Content Coordinator	2017
	PGDEOH	Environment and Health, MEV-001,	Video	Content Coordinator	2017

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

PGDEOH	Chemical Disaster, Part - I, MEV-002	Video	Content Coordinator	2017
PGDEOH	Chemical Disaster Case Studies, Part – II, MEV-002	Video	Content Coordinator	2017
PGDEOH	Environmental Geochemistry and Health, MEV-002	Video	Content Coordinator	2017
PGDEOH	Climate Resilience & Disaster Management, MEV-002,	Video	Content Coordinator	2017
PGDEOH	Hazardous Earth Processes, MEV-002,	Video	Content Coordinator	2017
PGDEOH	Environmental Law, MEV-003,	Video	Content Coordinator	2017
PGDEOH	Sustainable living: Designing with nature, MEV-003	Video	Content Coordinator	2017
PGDEOH	Environmental Toxicology. MEV-004	Video	Content Coordinator	2017
PGDEOH	Vaccines and Health, MEV-004,	Video	Content Coordinator	2017
PGDEOH	Environmental Impact Assessment, MEVE-001	Video	Content Coordinator	2017
PGDEOH	Industrial Pollution and Human Health, MEVE-004	Video	Content Coordinator	2017
PGDEOH	Sustainable agriculture: A Panacea of Environmental Health, MEVE-003,	Video	Content Coordinator	2017

13. Training programmes designed and conducted, duration and dates NIL

	Programme	Dates	Place	Number of Participants

14. Details of Counselling sessions conducted:

No.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio counselling Teleconferencing Web conferencing)

						Any Other)
1	Ph.D. ITS:	Ph.D. ITS:	IGNOU, New Delhi	July to December 2017	6 months	Face to Face
2	Ph.D. Environmental Science	REV-001	IGNOU, New Delhi	July to December 2018, IGNOU, New Delhi	6 months	Face to Face
3	Ph.D. Environmental Science	REVE-001	IGNOU, New Delhi	July to December 2018	6 months	Face to Face
4	Ph.D. Environmental Science	REVE-002	IGNOU, New Delhi	July to December 2018	6 months	Face to Face
5	Ph.D. Environmental Science	REVE-005	IGNOU, New Delhi	July to December 2018	6 months	Face to Face
6	Ph.D. Environmental Science	REVE-006	IGNOU, New Delhi	July to December 2018	6 months	Face to Face
7	PGDEOH	MEV 003 Environmental Labelling	EMPC, IGNOU	10th July 2019	3.00 – 3.30 PM	Teleconferencing
	PGDEOH	PGDEOH	EMPC, IGNOU	4th July 2019	4 to 4.30 PM	Teleconferencing
	PGDEOH	PGDEOH	EMPC, IGNOU	27th June 2019	3.00 – 3.30	Teleconferencing
	PGDEOH	Introduction to Toxicology , MEV 004	EMPC, IGNOU	26th June 2019	3.00 – 3.30	Teleconferencing
	PGCCC	PGCCC	EMPC, IGNOU	27th June 2019	3.30 to 4 PM	Teleconferencing
	PGDEOH	World Environment Day 2019	EMPC, IGNOU	June 5th 2019	3 to 4 PM	Teleconferencing
	PGDEOH	PGDEOH	EMPC, IGNOU	2 nd Jan 2019,	3.30 - 4.00 PM	Teleconferencing
	PGDEOH	Environment and Health MEV-004	EMPC, IGNOU	13th March 2019	3.00 – 3.30 PM	Teleconferencing
	PGDEOH	Environmental Toxicants: Mutations and Mutagens, MEV-004	EMPC, IGNOU	10 th October 2018	4 to 4.30 PM	Teleconferencing
	PGDEOH	Environmental Toxicants: Teratogens MEV-004	EMPC, IGNOU	20 th August 2018	4 to 4.30 PM	Teleconferencing

	PGDEOH	Environmental Toxicants: Carcinogens MEV-004	EMPC, IGNOU	July 15 th 2018	4.30 to 5 PM	Teleconferencing
		Earth Day	EMPC, IGNOU	April 22 nd 2014	11-12.45 PM	Teleconferencing
	APSMW	Wetlands and Agriculture	EMPC, IGNOU	Feb 12 th 2014	12 – 12.45 pm	Teleconferencing
	APSMW	River Ganga: Pollution, public health and technological solutions.	EMPC, IGNOU	Jan 8 th 2014	1 – 1.45 pm	Teleconferencing
	APSMW	Sustainable use of energy and mineral resources	EMPC, IGNOU	Nov 27 th 2013	1 – 1.45 pm	Teleconferencing
	APSMW	Population growth and pollution in wetlands.	EMPC, IGNOU	July 17 th 2013	11 – 11.45 am	Teleconferencing
	PGDESD	Participatory environmental natural resource management	EMPC, IGNOU	July 12 th 2013	6 – 6.45 pm	Teleconferencing
	APMSW	Toxins in daily life	EMPC, IGNOU	May 14 th 2013	11 – 11.45 am	Teleconferencing
	APSMW	World Wetland Day	EMPC, IGNOU	Feb 2 nd 2013	11 – 12 noon	Teleconferencing
	PGDEOH	Industrial Pollutants MEVE-004	EMPC, IGNOU	July 2 nd 2019.	11 - 12pm	Radio counselling
	PGDEOH	Pollution and Human Health	EMPC, IGNOU	February 14 th 2019	11 - 12pm	Radio counselling
	PGDEOH	PGDEOH	EMPC, IGNOU	December 1 st 2018.	11 - 12pm	Radio counselling
	PGDEOH	PGDEOH	EMPC, IGNOU	October 31 st 2018.	12 - 1pm	Radio counselling
		World Desert Day	EMPC, IGNOU	June 17 th 2018.	12 - 1pm	Radio counselling
		Environment Day	EMPC, IGNOU	June 5 th 2018.	12- 1pm	Radio counselling

	PGDEOH	Health and Environment MEV-001	EMPC, IGNOU	May 25 th 2018.	12 - 1pm	Radio counselling
	ACPSD	Population and Sustainable development: Programs and policies.	EMPC, IGNOU	June 28 th 2017	12 – 1PM,	Radio counselling
	APSMW	Wetlands and Agriculture	EMPC, IGNOU	April 17 th 2013.	5-6 pm	Radio counselling
	APSMW	APSMW	CSD, SOA, IGNOU	11 th October 2011 to July 2014	11 th October 2011 to July 2014	Web conferencing Counselling held 4 years

15. Details of Patents granted (if any): NIL
16. Contribution to IGNOU's corporate life:

SNo.	Chairperson/ Member of Committee	Name of the Committee	Date/ period
1.	Discipline Coordinator Environmental Studies, SOITS, IGNOU 2016 - 2018	Discipline Group Committee - Environmental Studies, SOITS, IGNOU 2016 - 2018	2016 - 2018
2.	Gyan Darshan School Coordinator, SOITS, IGNOU 2018 - 2020	GD School Coordinator, SOITS, IGNOU	2018 - 2020
3.	Innovation Club, Member, IGNOU 2017 to present.	Innovation Club,	2017 to present.
4.	School Council member, SOITS, 2016 – present.	School Council	2016 – present.
5.	Discipline Group member (Environmental Studies), SOITS, 2016-present.	Discipline Group Committee (Environmental Studies), SOITS	2016-present.
6.	Doctoral Committee member (ITS), SOITS, 2016-present	Doctoral Committee (ITS), SOITS	2016-present
7.	Doctoral Committee member (Environmental Studies), SOITS,	Doctoral Committee Environmental Studies,SOITS	2016-present
8.	Organizing Secretary, Workshop on Environment and Health, SOITS, IGNOU.	Workshop on Environment and Health, SOITS, IGNOU. 31 st October 2017.	31 st October 2017
9.	Organizing Secretary, International Conference on Environmental and Ecological Sustainability: Engaging the Stakeholders, SOITS, IGNOU.	International Conference on Environmental and Ecological Sustainability: Engaging the Stakeholders, SOITS, IGNOU. 4th - 5th, October 2018.	4th - 5th, October 2018.

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

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

SNo.	Designation	Period
1.	Director I/c SOITS, IGNOU, New Delhi	December 21 st to 31 st 2016
2.	Director I/c SOITS, IGNOU, New Delhi	June 18th - 19th 2019

18. Any other contribution/information

1. Science journalist for Current Science, Indian Academy of Sciences, Bangalore 2018 April - present
2. Steam India Reports Journalist September 2018 - present
3. International Earth Science Coordinator Delhi-NCR region 2012 – present.
4. Gyan Vani Coordinator SOITS, IGNOU 2018- 2020
5. Discipline Group Coordinator SOITS, IGNOU 2016 – 2018
6. H-index: 12; Citation: 487.
7. Recipient of National Awards: Silver Medalist B.Sc., Gold medallist M.Sc., CSIR-SRF; CSIR-RA, CSIR-SRA, UGC Dr. DS Kothari Postdoctoral fellow, Swedish Institute Fellow, Stockholm University, Sweden, Indo-Norwegian Fellow, University of Bergen, Norway, Swiss Embassy Fellowship ETH-Zurich, Switzerland.

Signature of Teacher /Academic**Signature of Director/ Head**