

Curriculum Vitae

NAME : **RUP NARAYAN**
FATHER'S NAME : Late Sh. Satya Deva Narayan
DATE OF BIRTH : 17.11.1961
ADDRESS FOR CORRESPONDENCE : Department of Botany
C.C.S. University
Meerut - 250004 (INDIA)
Residence: B-9, Professors Colony, CCSU
PERMANENT ADDRESS : 19 R. K. Puram
Behind Shipra Hotel
Bhoor
Bulandshahr 203001 (U.P.)
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EDUCATIONAL QUALIFICATIONS

Class	Year	Institution	Board/Univ.	Division	Marks (%)	Subject
X	1977	Sainik School, Purulia, West Bengal	CBSE	I	70.0	English, Science, Maths, Soc Sci., Phy. Edu.
XII	1979	Sainik School, Purulia, West Bengal	CBSE	I	71.2	Hindi, Eng., Physics, Chem., Biology, Maths
B.Sc. (Honours)	1984	Science Faculty	Banaras Hindu University, Varanasi	I	67.7	Botany (Hons.), Zoology, Chemistry
M.Sc.	1986	Centre of Advanced Study in Botany	Banaras Hindu University, Varanasi	I	61.9	Botany (Ecology Specialization)
Ph.D.	1992	Centre of Advanced Study in Botany	Banaras Hindu University, Varanasi		-	Forest Ecology

Title of Ph.D. thesis : "Analysis of Structure of Sal-Bearing Dry Tropical Forests"

Research Supervisor : Prof. K.P. Singh (FNASc, FNA), Centre of Advanced
Study in Botany, Banaras Hindu University, Varanasi.

National Education Test : Qualified UGC-JRF (Life Sciences) 1986

Fellowship held : Junior & Senior Research Fellowship (UGC)
March 1987-July 1991.

Languages known : 1. English 2. Hindi 3. Bengali

TEACHING EXPERIENCE: >28 years

Period	Designation	Department	Organization	Classes Taught
24.02.2018 onwards	Professor	Botany	Ch.Charan Singh University, Meerut	M.Sc. M. Phil.
01.01.2009 – 23.02.2018	Associate Professor	Botany	I. P. (P.G.) College, Bulandshahr (U.P.) (Affiliated to C.C.S. University, Meerut)	B.Sc. & M.Sc.
17.01.2003 – 31.12.2005	Reader	Botany	I. P. (P.G.) College, Bulandshahr (U.P.) (Affiliated to C.C.S. University, Meerut)	B.Sc. & M.Sc.
17.01.1999 – 16.01.2003	Senior Lecturer	Botany	I. P. (P.G.) College, Bulandshahr (U.P.) (Affiliated to C.C.S. University, Meerut)	B.Sc. & M.Sc.
17.01.1994 – 16.01.1999	Lecturer	Botany	I. P. (P.G.) College, Bulandshahr (U.P.) (Affiliated to C.C.S. University, Meerut)	B.Sc. & M.Sc.

Research Experience**Areas of Research Interest**

- Structure of tropical dry deciduous forests and peri-urban weedy vegetation
- Allocational plasticity of weeds in peri-urban and urban ecosystems
- Soil seed bank dynamics
- Invasion ecology
- Impact of invasive weeds on crop growth and plant community structure in Indian dry tropics.

Ph. D. Guidance: Five awarded and eight pursuing Ph.D. work at CCSU, Meerut**Five Doctoral degrees Awarded**

1. **Shachi Gupta 2008.** An ecological investigation on biomass production and allocation pattern of some weed flora at Bulandshahr. *Ph.D. thesis.* CCS University, Meerut.
2. **Shilpi Mittal 2008.** A Study on Seed Bank and Community Dynamics at Selected Sites in Bulandshahr. *Ph.D. thesis.* CCS University, Meerut.
3. **Nidhi Chaudhary 2014.** Study of two exotic invasive weeds in an Indian dry tropical peri-urban area. *Ph.D. thesis.* CCS University, Meerut.
4. **Shilpy Singhal 2014.** Phenotypic and Allocational Plasticities of six common weeds and impact of their leaf residues on the growth of crop plants. *Ph.D. thesis.* CCS University, Meerut.

5. **Neelam Sagar 2021.** Effect of Chromium on the biosorption of basic fuschin by fungal biomass. *Ph.D. thesis.* CCS University, Meerut.

M.Phil. Project Guidance (2018-2020): 04

1. Arvind Kumar 2019. Population structure of trees in the campus of Chaudhary Charan Singh University, Meerut.
2. Ms. Rupali Verma 2019. Biomass allocation pattern of two exotic invasive weeds across two contrasting habitat conditions.
3. Ms. Deepti Sharma 2020. Dry matter allocation strategy of three exotic weeds at Surajkund, Faridabad.
4. Km. Divya Singh 2020. Impact on growth and yield of wheat crop under irrigation by different industrial effluents.

RESEARCH PROJECTS UNDERTAKEN

Sustainable Development and resource Conservation of Hastinapur Wildlife Sanctuary in the Indo-Gangetic Plains using geospatial Technology. 2021-22.

Ecological Studies On Herbaceous Diversity In Bulandshahr-Khurja Region. Minor Research Project, University Grants Commission. 1996-1999.

Dominance and phenotypic plasticity of three exotic invasive weeds: A case study in the peri-urban area of Bulandshahr. Minor Research Project, University Grants Commission. 2010-2012.

PUBLICATIONS

(i) Research Papers

Research Papers published in Journals of repute:

1. Chandan Yadav, Arvind Kumar and **Rup Narayan.** 2022. Non- native flora in seed banks across five diverse urban ecosystems in Indian dry tropics and their economic uses. **The Journal of Indian Botanical Society.** 102. (Accepted)
2. Chandan Yadav, Maneesh Kumar Lomas, Arvind Kumar and **Rup Narayan.** 2022. Ecological importance and economic uses of selected native and invasive alien grasses across five diverse anthropo-ecosystems in the Indian dry tropics. **Annals of Plant Sciences.** 11 (07) 5252-5269.
3. Manish Lomas and **Rup Narayan.** 2022. Identification of functional groups in different parts of an invasive alien weed *Hyptis suaveolens* (L.) Poit. **International Journal of Pharmaceutical Sciences Review and Research.** 72 (1) 117-122 (SJIF 2018 = 6.857)

4. Deepti Singh, Nathi L. Sharma, Chandan K. Singh, Vimala Yerramilli, **Rup Narayan**, Susheel K.Sarkar and Ishwar Singh. **2021**. Chromium (VI)-induced alterations in physio-chemical parameters, yield, and yield characteristics in two cultivars of mungbean (*Vigna radiata* L.). **Front. Plant Sci.** doi: 0.3389/fpls.2021.735129 (**IF 5.753**)
5. Neelam Sagar and **Rup Narayan**. 2019. Soil Mycobiota Influenced by Different Concentration of Basic Fuschin Dye. **International Journal of Current Research and Review** **11 (17)**. ISSN:2231-2196 (Print) ISSN:0975-5241 (Online) **Journal IF: 5.387 (2017)**
6. Neelam Sagar, Harjeet Singh, Shipra Chaudhary and **Rup Narayan**. 2019. Studies on Certain Factors Influencing Biosorption of Basic Fuschin from its aqueous Solution by *Aspergillus Fumigatus* **Journal of Biological and Chemical.Research.** 36 (2): 120-127. ISSN 2319-3077 Online/Electronic; ISSN 0970-4973 Print. **Journal IF:4.275; Global IF: 0.0.876** (UGC approved Journal No.62923)
7. Shachi Agrawal and **Rup Narayan**. **2017**. Spatio-temporal organization and biomass dynamics of plant communities in a dry tropical peri-urban region: deterministic role of alien flora in anthrope-ecosystems. *Current Science* 113(1): 53-62. **IF: 0.843** (2016) NAAS Rating (2017): 6.97 **CITATION - 2**
8. Shachi Gupta and **Rup Narayan**. **2012**. Phenotypic plasticity of *Chenopodium murale* across contrasting habitat conditions in peri-urban areas in Indian dry tropics: Is it indicative of its invasiveness? *Plant Ecology* 213(3): 493-503. DOI: 10.1007/s11258-011-9997-9. **IF: 1.615** (2016), NAAS Rating (2017): 7.49 **CITATION - 19**
9. Shachi Gupta and **Rup Narayan**. **2011**. Plant diversity and dry matter dynamics of peri-urban plant communities in Indian dry tropical region. *Ecological Research* 26(1): 67-78. DOI 10.1007/s11284-010-0760-9. **IF: 1.283** (2016), NAAS Rating (2017): 7.34 **CITATION - 13**
10. Shachi Gupta and **Rup Narayan** **2010**. Brick kiln industry in long term impacts biomass and diversity structure of plant communities. *Current Science* 99(1): 72-79. **IF: 0.843** (2016), NAAS Rating (2017): 6.97 **CITATION - 36**
11. Shachi Gupta and **Rup Narayan** **2010**. Effects of applied leaf biomass of *Parthenium hysterophorus*, *Cassia obtusifolia* and *Achyranthes aspera* on seed germination and seedling growth of wheat and pea. *Allelopathy Journal* 26(1): 59-70. **IF: 1.050** (2016), NAAS Rating 2017): 6.53 **CITATION - 10**
12. Shachi Gupta and **Rup Narayan**. **2006**. Species diversity in four contrasting sites in a peri-urban area in Indian dry tropics. *Tropical Ecology* 47(2): 229-241. **IF: 1.169** (2015), NAAS Rating (2017): 7.17 **CITATION - 20**
13. Nidhi Chaudhary, Rup Narayan and D. K. Sharma. 2015. Differential biomass allocation to plant organs and their allelopathic impact on the growth of crop plants: A

case study on the invasibility of *Ageratum conyzoides* in Indian dry tropics. *Indian Journal of Agricultural Sciences* 85 (11): 1405–11 NAAS Rating (2017): 6.17

CITATION 6

14. Shilpy Singhal and Rup Narayan. 2014. Aboveground Biomass Partitioning and Invasibility of *Sida acuta* Burm. f. in Indian dry Tropics. *International Research Journal of Environment Sciences* 3: 76-82.
15. Shilpy Singhal and Rup Narayan. 2014. Differential Biomass Allocation to Above-Ground Plant Components by Two Invasive *Sida* Congeners in a Dry Tropical Peri-Urban Vegetation in India. *International Journal of Scientific and Research Publications* 4 (6): 1-7.
16. Nidhi Chaudhary and Rup Narayan 2013. Medicinal uses of some wild plants from a dry tropical peri-urban region in India. *Journal of Pharma Research* 2 (9): 1-5.
17. Nidhi Chaudhary and Rup Narayan 2013. Exotic invasive *Ageratum conyzoides* L. in Indian dry tropics: A preliminary investigation of its biomass allocation pattern and plant traits. *Journal of Plant Development Science* 5: 249-254. NAAS Rating (2017): 4.57
18. Nidhi Chaudhary and Rup Narayan 2013. The Advancing Dominance of *Ageratum conyzoides* L. and *Lantana camara* L. in a dry Tropical Peri-urban Vegetation in India. *International Research Journal of Environmental Science* 2: 88-95.

CITATION 4

19. Shilpi Aggarwal, Veena Gupta and Rup Narayan. 2012. Ecological study of wild medicinal plants in a dry tropical peri-urban region of Uttar Pradesh in India. *International Journal of Medicinal and Aromatic Plants* 2(2): 246-253.

(ii) Research Papers published in Seminar/ Conference Proceedings

Shachi Agrawal, Shilpy Singhal and **Rup Narayan** 2016. Peri-urban Ecosystems in Indian Dry Tropics: On the Edge of Sustainability. In: Proceedings of the National Seminar on Water and Air Quality in Urban Ecosystem, New Delhi, 22, March-2016. Pp. 54-61 ISBN: 978-93-5267-493-0

CITATION 1

Shilpy Singhal, Shachi Agrawal and **Rup Narayan** 2016. Soil, Seed Bank and Standing Vegetation along the Polluted Kali River Bank at Bulandshahr In: Proceedings of the National Seminar on Water and Air Quality in Urban Ecosystem, New Delhi, 22, March-2016. Pp. 07-13 ISBN: 978-93-5267-493-0

Shachi Gupta and **Rup Narayan**. 2010. Growing dominance of *Parthenium hysterophorus* in peri-urban areas in Indian dry tropics: its growth strategy and impact on crop growth. In: Gautam RD, GK Mahapatro, Shashi Bhalla, K Shankarganesh, Sudhida gautam, Kaushal Verma and HS Gaur (eds.) *Scientific Presentations on Parthenium*, 3rd International Conference on Parthenium, December 8-10, Indian Agricultural Research Institute, New Delhi 110012, India. (xii + 198). pp. 32-35.

Shilpi Aggarwal and **Rup Narayan**. 2010. Understanding increasing influence of *Parthenium hysterophorus* through seed bank investigations. In: Gautam RD, GK Mahapatro, Shashi Bhalla, K Shankarganesh, Sudhida gautam, Kaushal Verma and HS Gaur (eds.) *Scientific Presentations on Parthenium*, 3rd International Conference on *Parthenium*, December 8-10, Indian Agricultural Research Institute, New Delhi 110012, India. (xii + 198). pp. 35-37.

(iii) Chapters in Books

1. Shachi Agrawal, Garvita Singh, Anjana Rustagi and **Rup Narayan**. 2016. **Phytoremedial Potential of Dry Tropical Peri-urban Vegetation**. In: Vandana (Ed.) *Biomedical and Environment*, Campus Books International, New Delhi pp. 180-202 (ISBN: 978-81-8030-479-8)
2. **Rup Narayan** and Shachi Agrawal. 2015. **Changes in plant diversity along disturbance gradient in a dry tropical region, India**. In: Tripathi, S. K. (Ed.) *Biodiversity in Tropical Ecosystems*, [Today and Tomorrow's Printers and Publishers](#), New Delhi, pp. 81-100 (ISBN: 81-7019 (India), 1-55528 (USA))
3. Shachi Agrawal and **Rup Narayan**. 2015. **Changes in plant species composition, biomass structure and allocation pattern in a peri-urban region in tropical India**. In: Tripathi, S. K. (Ed.) *Biodiversity in Tropical Ecosystems*, [Today and Tomorrow's Printers and Publishers](#), New Delhi, pp. 117-149 (ISBN: 81-7019 (India), 1-55528 (USA))

(iv) Technical reports

Sustainable Development and resource Conservation of Hastinapur Wildlife Sanctuary in the Indo-Gangetic Plains using geospatial Technology. 2021-22. (A non-government funded, group initiated project) Project team: Akash Goyal, N.R. Shankar Ram, Mohit Kesarwani – Scientists, Regional Remote Sensing Centre, North, New Delhi; Dr. V.M. Chowdary, Director MNCFC; **Prof. Rup Narayan, Arvind Kumar - Ch. Charan Singh University, Meerut**; Dr. C.S. Jha, CGM RC's, Dr. B.K. Bhadra, DGM RRSC-N - Overall Guidance. pp 1-77.

Rup Narayan and K. P. Singh. 1990. **Vegetation Structure of Sal Forests**, pp. 49-72. In: J. S. Singh, K. P. Singh and M. Agrawal (eds.) *Environmental Degradation of Obra-Renukoot and Singrauli Area and its Impact on Natural and Derived Ecosystems*. Final Technical Report of MAB Project, Ministry of Environment and Forests, Government of India.

Rup Narayan, H. Singh, and K. P. Singh. 1990. **Physico-Chemical characteristics of soils of Sal Forests**, pp. 73-79. In: J. S. Singh, K. P. Singh and M. Agrawal (eds.) *Environmental Degradation of Obra-Renukoot and Singrauli Area and its Impact on Natural and Derived Ecosystems*. Final Technical Report of MAB Project, Ministry of Environment and Forests, Government of India

(v) Research Projects (Two minor research projects)

- ▶ Dominance and phenotypic plasticity of three exotic invasive weeds: a case study in the peri-urban area of Bulandshahr. Minor Research Project, **University Grants Commission**. 2010-2012.
- ▶ Ecological Studies On Herbaceous Diversity In Bulandshahr-Khurja Region. Minor Research Project, **University Grants Commission**. 1996-1999.

SYMPOSIUM/WORKSHOP/TRAINING COURSE ATTENDED

International

International Training Course on Upland Agro-Ecological Construction for the Developing Countries, held at **Kunming, People's Republic of China**. Oct. 14 - 28, 1998.

“3rd International Conference on Parthenium” Indian Agricultural Research Institute, New Delhi 8-10 Dec. 2010.

International Tropical Ecology Congress 2007. Organized by H.N.B. Garhwal University, Srinagar, Garhwal, Uttarakhand & International Society for Tropical Ecology at FRI, Dehradun. 2-5 Dec. 2007.

International Symposium on Biology, Ecology and Management of World's Worst Plant Invasive Species. Centre for Environmental Management of Degraded Ecosystems (CEMDE), University of Delhi, Delhi (INDIA). 18-14 Dec. 2006.

National

National workshop on “Taxonomy, Reproductive Biology and Conservation” Centre for Environmental Management of Degraded Ecosystems (CEMDE), University of Delhi, Delhi. 18-27 Feb. 2009

National Symposium on Environment & Sustainable Development. Meerut College, Meerut. 14 Nov. 2008.

National Seminar on “Emerging Trends in Plant Sciences: Biodiversity, Biotechnology & Environmental Conservation” & National symposium on “Relevance of Linnaean Legacy and Thoughts on Plant Diversity in his Tercentenary Years”. School of Studies in Botany, Jiwaji University, Gwalior (M.P.). 28-30 Nov. 2007.

National Conference on Forest Ecology & Environment- Priorities in 21st Century. Forest Research Institute (ICFRE), Dehradun. 27-28 Feb. 2006.

National Seminar on Environmental Management in 21st Century: Issues and Challenges. Centre of Advanced Study in Botany, Banaras Hindu University, Varanasi. 16-18 Feb. 2006.

National Seminar and Training Workshop on Impact of Changing Climate on Biodiversity Conservation and Eco functional Status. School of Studies in Botany, Jiwaji University, Gwalior. 15-17 Jan. 2004.

National Workshop (DBT SPONSORED) on Application of Information Technology in Biotechnology Based Research. Centre for Bioinformatics, Deptt. of Bioscience & Biotechnology, Banasthali, Rajasthan. Feb. 16-17 2002.

National Natural Resources Management System (NNRMS) sponsored Course on Remote Sensing and Geographical Information System Applications in Forestry and Ecology. Indian Institute of Remote Sensing, Dehradun. 05 June – 28 July 2000.

ADMINISTRATIVE EXPERIENCE

Responsibilities held	Institution	Period
Co-ordinator, Yoga Science Department	C.C.S. University, Meerut	September, 2022 onwards contd.
Co-ordinator, Challenge Evaluation	C.C.S. University, Meerut	December, 2021 onwards contd.
Co-ordinator, University Exams CCTV Monitoring Centre	C.C.S. University, Meerut	2018, 2019, 2020, 2021 contd.
CONTROLLER OF EXAMS (COE) during the challenging Covid period (1 st wave)	C.C.S. University, Meerut	July, 28 – October, 18, 2020
Chief Warden, CCS University	C.C.S. University, Meerut	November 26, 2021 onwards contd.
Member of Monitoring Committee of ECO-SENSITIVE ZONE OF HASTINAPUR WILDLIFE SANCTUARY as an Ecologist	COMMISSIONER, MEERUT DIVISION	23.07.2021 ONWARDS
HEAD, Department of Botany	C.C.S. University, Meerut	19 th July, 2018 to 18 th July, 2021
Controller/Co-ordinator, Evaluation of Answer Books	C.C.S. University, Meerut	2019, 2021
Scrutiny Co-ordinator for Regular/Private/Professional UG, PG Semester, B. Tech., BDS, MDS, MBBS, BAMS, MD, MS, B.Ed., M. Ed. Exam Answer books	C.C.S. University, Meerut	04. 11. 2020 to December 2021.
Jury member for Nav Bharat Nirman as part of India International Science Festival - 2019	INDIA INTERNATIONAL SCIENCE FESTIVAL, 2019	5-8 November, 2019
Subject Expert for selection of "Pravakta, Jeev Vigyan"	U.P. Madhyamik Shiksha Sewa Chayan Board, Prayagraj	04.01.2020 to 07.01.2020
Convener, RDC of Botany, CCS University, Meerut	C.C.S. University, Meerut	2018 onwards contd.

Member of Board of Studies in Botany	Dr. Rammanohar Lohiya University, Ayodhya	2021
Convener 1, Board of Studies in Botany	C.C.S. University, Meerut	2018 – 2021
Member of University Academic Council	C.C.S. University, Meerut	2018 onwards contd.
NCC Commissioned Officer (Last Rank held Major) ANO of 36 UP BN NCC Bulandshahr,	I. P. College, Bulandshahr	1 March 1998 – 1 January 2018
Co-ordinator, Uttar Pradesh Rajarshi Tondon Open University, Allahabad	Study Centre, I. P. College, Bulandshahr.	2004-2006
Co-ordinator, Indira Gandhi National Open University, Delhi	Study Centre, I. P. College, Bulandshahr.	2005-2006
Co-ordinator, B.Sc. (Biological Techniques: UGC-sponsored vocational course)	I. P. College, Bulandshahr	2004-2006
Co-ordinator, U.G.C. sponsored “Simple Sanskrit Speaking Course”	Saral Sanskrit Sambhashan Kendra, I. P. College, Bulandshahr.	2002-2003
Proctor	I. P. College, Bulandshahr	2006 – 2018
Member of Selection Committees for Self-financed College teachers and Principal	C.C.S. University, Meerut	2019 onwards contd.
Member of University Panels for physical verification of Colleges eligible for recommendation to affiliation to CCS University	CCS University, Meerut	2017 onwards contd.
Observer to the Elections of Management Committees of affiliated Colleges of CCS University (over 15)	CCS University, Meerut	2018 onwards contd.
Member, Mercy Appeal, UFM cases in CCSU exams	CCS University, Meerut	2021 onwards contd.
Member of Enquiry committees of CCSU (over 10)	CCS University, Meerut	2019 onwards contd.

MEMBER OF SCIENTIFIC BODY:

1. International Society of Tropical Ecology) since 1987

ENVIRONMENT-RELATED ACADEMIC/SOCIETAL CONTRIBUTION

FACULTY DEVELOPMENT PROGRAMME on “CLIMATE SMART GOVERNANCE” Indian Institute of Public Administration (IIPA), New Delhi, sponsored by Department of Science and Technology (June 17-28, 2019).

Member of Solid waste Management committee, Meerut (2020)

Member of Environmental Monitoring Committee for Eco-Sensitive Zone of Hastinapur Wildlife Sanctuary, as an Ecologist of Meerut Division (2021 onwards)

EXPOSURE TO GAMES & SPORTS
(As a school/university student and teacher)

Participated in Subrato Mukherjee Cup Football Tournament, representing Purulia Distt. (West Bengal). (1997-1998)

Participated in Jawahar Lal Nehru Cup Hockey Tournament, representing Purulia Distt. (West Bengal). (1977-1978)

Participated in Zonal Athletics Tournament at Bhubaneshwar (representing Sainik School, Purulia).(1976)

Represented B.H.U. in Inter University Boxing Tournament at Kanpur. (1983)

Represented B.H.U. in Inter University Kho-Kho Tournament at Dhule, Maharashtra (1984)

Prepared and coached I.P. College Kho-Kho team as Manager which participated for the first time at CCS University Kho Kho Championship and earned fourth position.

REFRESHER COURSES

Academic Staff College, Jawahar Lal Nehru University, New Delhi. RC in Environmental Sciences. Feb. 25- March 22, 2002.

Academic Staff College, Banaras Hindu University, Varanasi. RC in Environmental Sciences. Sept.21-Oct.11,2002.



Dr. RUP NARAYAN

Place: CCSU, Meerut

Date: 02.11. 2021.