

Dr. Yanglem Sharatchandra Khuman
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BRIEF

Y.S.C. Khuman is Assistant Professor in the School of Interdisciplinary and Transdisciplinary Studies at IGNOU, New Delhi. His Ph.D. from University of Delhi is on fuelwood issues in mountain regions of India. He has more than 10 publications in peer reviewed journals. Dr. Khuman was involved in the design and development of different programmes in the area of Sustainability Science at IGNOU.

Major Research areas: Sustainability Science, Natural Resource Management, Socio-ecological linkages, Urban Ecology

Programmes coordinated:

- Post Graduate Diploma in Sustainability Science (PGDSS)
- Master of Arts in Sustainability Science (MASS)
- Swayam (MOOCs) course on
 - MSD 011: Sustainability Science
 - MSD 012: Ecosystem and Natural Resources
 - MSD 016: Strategies and Models for Sustainability
 - MSD 017: Challenges to Sustainable Development

EDUCATIONAL QUALIFICATION

- **Doctor of Philosophy (2011)**, Department of Botany, University of Delhi.
Research Topic: *Bioenergy Modeling in upland village ecosystems.*
- **M. Sc. Environmental Sciences (2001)** from Ch. C. S. University, Meerut, India.
- **B. Sc. (1998)** from Dhanamanjuri College of Sciences, Imphal under Manipur University, India in Environmental Studies (Honours), Botany and Chemistry.

SUPERVISION OF PH. D.

- Mr. Bhuvan Chopra (**Enrollment No.-188501562**)
 - Topic: Ecosystem Service Valuation of Ridge Forest, Delhi
 - Status: under progress
- Ms. Anjali Kumari (**Enrollment No. 188500696**)
 - Topic: Assessment of Carbon Sequestration Potential of Indira Gandhi National Open University Campus New Delhi
 - Status: Under Progress

PUBLICATIONS

I. Journals

1. **Khuman, Y S C**, Pandey, Ranjita and Rao, K. S. (2011). Fuelwood consumption pattern in Fakot watershed, Garhwal Himalaya, Uttarakhand. *Energy* 36(8): 4769-4776. [ISSN: 0360-5442] (Journal Impact factor, 2021: **7.147**)
2. **Khuman, Y S C**, Pandey, Ranjita and Rao, K. S. (2012). Micro-watershed level population based fuelwood consumption dynamics: implications of seasonal vs annual model for sustainable energy planning. *Renewable and Sustainable Energy Reviews* 16 (8): 6142-6148 [ISSN: 1364-0321] (Journal Impact factor, 2021: **14.982**)
3. **Khuman, Y S C**, Yadav, S K and Salooja, M K (2013). Sustainability Science in Open and Distance Learning: concept and Need Assessment in India. *Indian Journal of Open Learning*, 22(3): 173-180 [ISSN 0971-2690]
4. **Khuman, Y S C**, Mohapatra, S K, Yadav, S K and Salooja, M K (2014). Sustainability Science in India. *Current Science*, 106(1):24-26 [ISSN 0011-3891] (Journal Impact factor, 2020: **1.102**)
5. **Khuman, Y S C**, Raina, Nancy and Rao, K. S. (2014). Fuelwood Assessment at micro watershed level in North East Himalaya– a case study in the state of Manipur, India. *Chinese Journal of Population, Resources and Environment*, 12(2): 137-145 [1004-2857 (Print), 2325-4262 (Online)]
6. Raina, Nancy, **Khuman, Y S C**, Rao, K. S. and Sreekesh, S. (2014). Comparative Analysis of Species Distribution Modeling of *Daphne papyracea* in Dabka Watershed Nainital District, Uttarakhand. *Journal of Environment and Earth Science*, 4 (17): 19-29 ISSN (Paper)2224-3216, (Online)2225-0948
7. **Khuman, Y S C**, Raina, Nancy, Pandey, Ranjita & Rao, K. S. (2015). Fuelwood assessment at the micro-watershed level: a case study in Garhwal Himalaya, India. *Chinese Journal of Population, Resource and Environment*, 13(2):177-186 [1004-2857 (Print), 2325-4262 (Online)]
8. Tuisem Shimrah, Peimi Lungleng, Chonsing Shimrah, **Y. S. C. Khuman** and Franky Varah (2018). Role of traditional homegardens in biodiversity conservation and socioecological significance in Tangkhul community in Northeast India. *Tropical Ecology* 59(3): 533–539 [ISSN 0564-3295] (Journal Impact factor, 2020: **0.850**)
9. Prashanth, M, Verma, O, **Khuman, Y S C**, Rao, Nageswara K and Venkataramanan, V. (2019). Groundwater Resources Exploitation: Strategies for Sustainable Management and Development. *Remarking An Analisation*, 4(2): 150-157 [ISSN NO.: 2394-0344 (Print), ISSN NO.: 2455-0817 (Online)]
10. Anjali, Kumari, **Khuman, YSC** and Sokhi, Jaswant (2020). A Review of the interrelations of terrestrial carbon sequestration and urban forests. *AIMS Environmental Science*, 7(6):464-485 [ISSN (Online): 2372-0352]
11. Sahu, Gajanan, Saha, Sujan, **Khuman, Y S C**, Datta, Sudipta and Chavan, Prakash D (2020). Transesterification of Jatropha curcas Oil by using K Impregnated CaO Heterogeneous Catalyst. *Journal of Scientific & Industrial Research*, 79 (12): 1080-1086. [0975-1084 (Online); 0022-4456 (Print)] (Journal Impact factor, 2020: **1.056**)

12. Tuisem Shimrah, Peimi Lungleng, Ahanthem Rebika Devi, Kiranmay Sarma, Franky Varah and **Y. S. C. Khuman (2022)**. Spatio-temporal assessment on land use and land cover (LULC) and forest fragmentation in shifting agroecosystem landscape in Ukhrul district of Manipur, Northeast India. *Environmental Monitoring and Assessment*, 194: 14 [ISSN NO. 01676369, 15732959] (Journal Impact factor, 2020: **2.513**)
13. Anjali, Kumari, **Khuman, YSC**, Sokhi, Jaswant and Nigam Amrita (202X). Assessment of biomass and carbon stock of trees within the campus of IGNOU, New Delhi (India). *Sustainability, Agri, Food and Environmental Research*, 12(X), 202X: (ISSN: 0719-3726)

II. Book Chapters:

1. Khalid A.M. and **Khuman Y.S.C.** (2022) Electric Vehicles as a Means to Sustainable Consumption: Improving Adoption and Perception in India. In: Bhattacharyya J., Balaji M.S., Jiang Y., Azer J., Hewege C.R. (eds) *Socially Responsible Consumption and Marketing in Practice*. pp 325-345 Springer, Singapore. https://doi.org/10.1007/978-981-16-6433-5_20 ISBN 978-981-16-6432-8 (Print) 978-981-16-6433-5 (Online)
2. **Khuman, Y S C**, (2015). Sustainable Development. In *Khoiyangbam, R. S. and Gupta, Navindu (editors)*. Introduction to Environmental Science. 99-114. Published by The Energy Research Institute (TERI), India 2015. ISBN: 978-81-7993-455-5
3. **Khuman, Y S C**, S.K. Yadav and M. K. Salooja (2013). Teaching Sustainability Science. In *Santosh, Sujata and Ghosh, C. K. (editors)*. Creative Sparks of Innovation. 201-209. Published by Indira Gandhi National Open University, 2013. ISBN:978-81 - 266-6603-4

MEMBERSHIP:

- STATUTORY BODIES
 - Member School Board, SOTST, IGNOU (2022-Present)
 - Member School Board, SOITS, IGNOU (2017-2019), (2021-Present)
 - Member, Institution's Innovation Council 2.0 (IIC 2.0), IGNOU (October 2019-October 2020)
 - Member, Departmental Research Committee (DRC), SOITS, IGNOU
 - Nodal Officer, Swayam Prabha Channel 18, IGNOU (September 2020- Present)
- MEMBERSHIP OF PROFESSIONAL BODY:
 - Life Member, Indian Society for Ecological Economics, Delhi
 - Life member, Indian Academy of Social Sciences, Allahabad

E-LEARNING, MULTIMEDIA PRODUCTION

- E-LEARNING
 - Web Enable Academic Support System (WEAS) for PGDSS and MASS
- MULTIMEDIA
 - AUDIO PROGRAMMES
 - **As Content Coordinator:**
 - Journey to SDG (2017-18)
 - Traditional farming system and livelihoods in Himalaya (2017-18)
 - The culture and hidden sustainable livelihood in Arid and semi arid region (2017-18)

- Inclusive Economic Growth and Sustainable Development (2017-18)
- VIDEO PROGRAMMES
 - (Script writer and Content Coordinator) **Hidden Behind Lifestyle** produced by EMPC, IGNOU
 - (Content Coordinator) **Tribal and Indigenous Knowledge System**, produced by EMPC, IGNOU.[won special jury award in competitive category 'A' in 8th National Science Film Festival of India 2018]