

CURRICULUM VITAE

G. N. Tanjina Hasnat

Assistant Professor



PROFILE

G. N. Tanjina Hasnat presently is an Assistant Professor of the Institute of Forestry and Environmental Sciences, University of Chittagong (IFESCU), Bangladesh and former lecturer of the similar institute. Previously, she was served as a lecturer of the Department of Land Administration, Faculty of Land Management and Administration, Patuakhali Science and Technology University (PSTU), Bangladesh. She completed her BSc (Hons) and MS (Thesis) in Forestry from IFESCU in 2012 & 2013 respectively. Before joining as lecturer, she worked in two national organizations named *Shushilan* and Community Development Centre (CODEC) during 2014-16. She has completed training on modelling surface flow hazards (ICIMOD), geospatial information technology (ICIMOD), fundamentals of GIS and fundamentals of Remote Sensing. She has twenty three published research articles and book chapters from different international and national peer-reviewed journals and publishers. Two of her book chapters have been published by Springer Nature. She edited a book published by IGI Global and serving as an Academic Editor of an international journal 'Asian Research Journal of Arts & Social Sciences'. She is also an editorial member and reviewer of thirteen international journals. She has experience to work in seven different projects as Project Director, Co-Project Investigator, NRM Facilitator, Assistant Research Officer, and Research Assistant. She got an Honorary Rosalind membership from the London Journals Press.

PERSONAL INFORMATION

Address

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Date of Birth: 9th July 1988

Nationality: Bangladeshi

Sex: Female

EDUCATIONAL QUALIFICATION

M.S.	Forestry (Thesis)	Institute of Forestry and Environmental Sciences, University of Chittagong	2013	CGPA 3.84 out of 4 (1 st Position)
B.Sc.	Forestry	Institute of Forestry and Environmental Sciences, University of Chittagong	2012	CGPA 3.69 out of 4 (2 nd Position)

TEACHING AND JOB EXPERIENCES

Assistant Professor	Institute of Forestry and Environmental Sciences, University of Chittagong (IFESCU).	May 2020 - Present
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Lecturer	Institute of Forestry and Environmental Sciences, University of Chittagong (IFESCU).	May 2019 – May 2020
Lecturer	Department of Land Administration, Patuakhali Science and Technology University (PSTU).	Dec 2016 – May 2019
Natural Resource Management Facilitator	Community Development Centre (CODEC)	Aug 2014 – Jan 2016
Assistant Research Officer	<i>Shushilan</i>	Mar 2014 – Aug 2014
Research Assistant	Arannayk Foundation	Dec 2010 - Nov 2013

RESEARCH INTERESTS

Land use modelling, land use and land cover changes, disaster risk reduction and modelling, environmental risk management, sustainable land management, land degradation, forest and landscape management, restoration of landscape, seed germination and seedling growth, nursery management, natural resource management, assistance natural regeneration (ANR), landscape governance, landscape ecology.

SOFTWARES HANDLED

ArcGIS, QGIS, ERDAS IMAGINE, LaharFlow Model, SPSS, RStudio

TEACHING AREAS

1. Environmental disaster management
2. Land use planning, urban and transportation
3. Land use modelling
4. Survey and settlement
5. Land degradation and climate change
6. Housing and urban development
7. Sustainable land management

REVIEW EXPERIENCES/EDITORIAL BOARD MEMBER

1. Wiley
2. Holcene
3. IGI Global
4. Journal of Forest and Environmental Science
5. Advances in Research
6. Asian Journal of Biology
7. Asian Journal of Research in Agriculture and Forestry
8. Current Journal of Applied Science and Technology
9. International Journal of Economics, Business and Management Research
10. Journal of Agriculture and Ecology Research International
11. Journal of Agriculture and Ecology Research International
12. Journal of Experimental Agriculture International
13. Plant Cell Biotechnology and Molecular Biology
14. Acta Scientific Agriculture

EDITING EXPERIENCE

1. Examining International Land Use Policies, Changes, and Conflicts (Book)

HONORARY ROSALIND MEMBER

1. London Journals Press

WORK EXPERIENCE

Project 1	Co-Project Investigator	<i>Assessment of green space and critical area regarding environmental quality using satellite imageries and GIS in the Chittagong City Corporation</i> funded by National Science and Technology (NST).
Project 2	Project Investigator	<i>Governance in Land Acquisition for Bridge Construction and Resulted Impacts at Lebukhali, Patuakhali</i> funded by University Grant Commission (UGC).
Project 3	Natural Resource Management Facilitator	<i>Climate Resilient Ecosystems and Livelihoods (CREL)</i> funded by USAID.
Project 4	Assistant Research Officer	<i>Restoration and conservation of coastal biodiversity at the char lands adjacent to Sunderbans mangrove forest in Bangladesh</i> funded by Keidanren Nature Conservation Fund (KNCF).
Project 5	Assistant Research Officer	<i>Community water management from a micro level perspective</i> funded by International Water Management Institute (IWMI).
Project 6	Research Assistant	<i>Restoration and recolonization of threatened tree species of Bangladesh</i> funded by Arannayk Foundation.
Project 7	Research Assistant	<i>Different types of fuel and materials used for barn construction and tobacco curing along with the sources of supply at Cox's Bazar, Chittagong and Chittagong Hill Tracts Regions</i> funded by British American Tobacco Bangladesh (BATB).

BOOK

Hasnat, G. N. T., and Hossain, M. K. (Eds.) 2020. *Examining International Land Use Policies, Changes, and Conflicts*. IGI Global.

PUBLICATIONS

2021

1. **Hasnat, G. N. T.** (2021). **A Time Series Analysis of Forest Cover and Land Surface Temperature Change over Dudpukuria-Dhopachari Wildlife Sanctuary Using Landsat Imagery.** *Frontiers in Forests and Global Change*, 4, 687988.
2. **Hasnat, G. N. T.** and Hossain, M. K. (2021). Comparative Study on Effect of Sowing Position on Germination and Initial Seedling Growth of *Pterospermum semisagittatum*. *Acta Scientific Agriculture*, 5(8), 41-47.
3. Dey, S. Hossain, M. K., **Hasnat, G. N. T.**, Nandi, R. and Saifullah, M. (2021). Growing Media Effects on Germination and Initial Growth Attributes of *Antidesma Ghaesembilla* Seedlings: A Native Plant Species of Bangladesh. *MFP News*, 31(2), 8-16.

4. **Hasnat, G. N. T.** (2021). Sources and Impacts of Emerging Contaminants in Agroecosystems. In: Kumar Singh V., Singh R., Lichtfouse E. (eds). *Sustainable Agriculture Reviews 50: Emerging Contaminants in Agriculture*. Springer, Cham.
5. **Hasnat, G. N. T.** (2021). Plant Composition of Worldwide Tropical Dry Forests. In: Chaturvedi, R. K., Singh, R., Bhadouria, R. (Eds.). *Tropical Dry Deciduous Forests: Emerging Features and Ecological Perspectives*. Nova Science Publishers, Inc.
6. Ali, M. and **Hasnat, G. N. T.** (2021). **Urban Landscape Change Detection Using GIS And RS: Chattogram City Corporation**. In: Bhadouria, R., Upadhyay, S., Tripathi, S. and Singh, P. (eds). *Urban Ecology and Global Climate Change*. Wiley, United Kingdom. (Accepted)
7. **Hasnat, G. N. T.** (2021) **Modelling Vegetation Cover Changes in Hill Tracts Using Cellular Automata: Bandarban Upazila of Bangladesh**. In: Bhadouria, R., Singh, S., Tripathi, S., Singh, P. (eds). *Understanding Soils of Mountainous Landscapes: Sustainable Use of Soil Ecosystem Services and Management*. Elsevier, USA. (Accepted)
8. **Hasnat, G. N. T.** (2021). **Modelling Land Use Changes of Hill Tracts Using Cellular Automata: Khagrachari Upazila of Bangladesh**. “Mountain Ecosystems and Resources Management: Glimpses from Summer Field School 2021”, Ukraine’s Carpathian Mountains, 19-28 September 2021. Ivano-Frankivsk Region, Ukraine. (Accepted for conference)

2020

9. Kabir, M. A., Ferdous, S., **Hasnat, G. N. T.**, Hossain, M. A. and *Rahman*, M. M. (2020). Plant diversity in the homesteads and their management in four upazilas of Patuakhali district of Bangladesh. *Journal of Bangladesh Agriculture*, 10(1), 55-69.
10. Sumi Akhter, **Hasnat, G. N. T.** and M. K. Hossain. (2020). Phenological traits of recalcitrant seedbearing trees in Bangladesh. *Bangladesh Journal of Forest Science*, 6(1), 22-32.
11. Chakma, U. B., Hossain, A., Islam, K., **Hasnat, G. N. T.**, & Kabir, M. H. (2020). Water crisis and adaptation strategies by tribal community: A case study in Baghaichari Upazila of Rangamati District in Bangladesh. *International Journal of Disaster Risk Management*, 2(2), 37-46.
12. **Hasnat, G. N. T.**, Siddik M. A., Zaman A. K. M. M. (2020). Land Use Changing Pattern and Challenges for Agricultural Activities: A Study at Dumki Upazila, Patuakhali. *Journal of Patuakhali Science and Technology University 1&2*, 67-76.

2019

13. **Hasnat, G. N. T.** and Hossain, M. K. (2019). Global overview of tropical dry forests. In: Bhadouria, R., Tripathi, S., Srivastava, P., & Singh, P. (Eds.). *Handbook of research on the conservation and restoration of tropical dry forests*. IGI Global.
14. **Hasnat, G. N. T.** (2019). Climate change effects, adaptation and mitigation techniques in tropical dry forests. In: Bhadouria, R., Tripathi, S., Srivastava, P., & Singh, P. (Eds.). *Handbook of research on the conservation and restoration of tropical dry forests*. IGI Global.
15. **Hasnat, G. N. T.**, Hossain, M. A., & Hossain, M. K. (2019). Pre-Sowing Treatments Accelerate Germination Percent for Restoration of Fourteen Threatened Tree Species in Bangladesh. *Journal of Tropical Forestry and Environment*, 9(2), 36-45.
16. **Hasnat, G. N. T.**, Hossain, M. A., Hossain, M. K., & Uddin, M. M. (2019). Effect of Pre-Sowing Treatments on Germination and Initial Seedling Growth of *Castanopsis Indica*-An Endangered Tree Species in Bangladesh. *Journal of Forest and Environmental Science*, 35(4), 223-231.

17. **Hasnat, G. N. T.**, Hossain, M. K., Alam, M. S., Bhuiyan, M. K., & Hossain, M. A (2019). Germination and initial seedling growth performance of *Vitex peduncularis* Wall. ex Schauer–A threatened native tree species of Bangladesh. *Journal of Bioscience and Agriculture Research*, 20(02), 1700-1708.

2018

18. **Hasnat, G. N. T.**, Kabir M. A., and Hossain M. A. (2018). **Major Environmental Issues and Problems of South Asia, Particularly Bangladesh.** In: C. M. Hussain (ed.), *Handbook of Environmental Materials Management*. Springer International Publishing AG 2018.
19. **Hasnat, G. N. T.**, Siddik M. A., Zaman A. K. M. M. (2018). Historical Evolution of Land Administration in Bangladesh. *International Journal of Innovative Research (IJIR)*, 3(3): 73-82.
20. **Hasnat, G. N. T.** and Hossain M. K. (2018). Pre-sowing treatment effects on gutgutiya (*Protium serratum*) - a threatened tree species of Bangladesh. *Horticulture International Journal*, 2(6): 352-365.
21. Kabir, M. A., Karim, R., Rahman, S., Prince, M. H., **Hasnat, G. N. T.**, and Jahan, S. H. (2018). Clonal Propagation of *Aegle marmelos* through IBA Treatment for Sustainable Nutritional and Medicinal Supply for the Poor People of Agrarian Bangladesh. *International Journal of Agriculture System*, 6(1): 45-59.
22. **Hasnat, G. N. T.**, Hossain M. A. and Hossain M. K. (2018). Rehabilitation of degraded landscape by improving germination of Raktan (*Lophopetalum wightianum*) - a native threatened tree species of Bangladesh. *Bangladesh Agriculture*, 8(1): 23-31.

2017

23. Kabir, M. A., Prince, M. H., Karim, R., Rahman, S., Billah, K. M., and **Hasnat, G. N. T.** (2017). Vegetative Propagation of *Punica granatum* by Stem Cuttings using Non-Mist Propagator. *International Journal of Agriculture System*, 5(2): 185-197.
24. **Hasnat, G. N. T.**, Hossain, M. K., Alam, M. S., and Hossain, M. A. (2017). Effect of pre-sowing treatments on seed germination and seedling growth of *Canarium resiniferum*, a rare native tree of Bangladesh. *Journal of Forest and Environmental Science*, 33(3): 226-232.

2014-16

25. **Hasnat, G. N. T.**, Hossain M. K., Alam, M. S. and Hossain M. A. (2016). Variation in flowering, fruiting and seed maturity of common plantation tree species in Bangladesh. *Journal of Bioscience and Agricultural Research*, 7(1): 583-589.
26. **Hasnat, G. N. T.**, Hossain, M. K., Bhuiyan, M. K. and Alam, M. S. (2014). Effect of Pre-sowing Treatments on Germination and Initial Growth of Seedlings of Kusum (*Schleichera oleosa*). *International Journal of Usufructs Management*, 15(1): 3-9.

OTHER RESEARCHES

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| Thesis (M.S.) | Seed biology and initial seedling growth performances of fourteen threatened tree species of Bangladesh. |
| Thesis (Hons.) | Phenotypic characteristics of fruits and seeds of some plant species in Bangladesh. |

MANAGEMENT PLAN

Prepared a Management Plan on Teknaf Wildlife Sanctuary as a part of academic curriculum.

TRAININGS RECEIVED

Geospatial Information Technology (ICIMOD)

22-26 Aug 2021

Modelling Surface Flow Hazards (ICIMOD)	8 & 21-23 Jun 2021
Research Methodology and Publication Strategy	12-16 Jun 2021
Lessons from the Pandemic for Outcome-Based Education	22 Apr 2021
Interactive Teaching and Learning	21 Mar 2021
Harnessing Economic Opportunities for Transformative Change in the Hindu Kush Himalaya (ICIMOD)	23 Sep-02 Oct 2019
Fundamentals on Remote Sensing (Dhaka University)	8 Feb 2019-16 Mar 2019
Fundamentals of GIS (Dhaka University)	21 Jun 2019-27 Jul 2019
Teaching-Learning in Higher Education	17-22 Apr 2019
Rover Scout Unit Leader Basic Course	20-24 Mar 2019
Rover Leader Orientation Course	30 Jan 2019
Training on 'Basic Land Management Course'	15 Sep - 04 Oct 2018
Pilot Training Program on Disaster Management	04 Sep 2018
Training course on 'Curriculum Development'	13-14 Sep 2017
Training on 'Administrative and Financial Management'	22-23 Sep & 13-14 Oct 2017
Participatory Climate Vulnerability Assessment (PCVA) Training for Trainers	23-26 Nov 2015
Training course on 'Applied Conservation Biology and Co-management'	9-29 Aug 2015
Communication Training	30 Mar 2015
Training on Assisted Natural Regeneration (ANR)	12 Mar 2015
Strengthened Planning and Implementation of Climate Resilient NRM and Adaptation	10 Feb 2015
Hands-on Orientation of GIS, GPS, RS, Google Earth, and Field Truthing of GIS Mapping (CREL Project)	3-8 Jan 2015
Training on Gender Mainstreaming NRM and Climate Change Adaptation	24-25 Nov 2014
Training on Climate Resilient NRM	23 Oct 2014
Training on Outcome Harvesting (OH) and Theory of Change (ToC)	10-14 May 2014
Training on Participatory Action research (PAR)	9-13 Mar 2014

AWARD

Bangladesh University Grant Commission scholarship	2013
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OTHER ACTIVITY

Prepared a full curriculum for the Department of Land Administration, PSTU	Dec 2016 - Dec 2018
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