



KNU UGC-STRIDE Component-I Sponsored Four Days Capacity Building Training Workshop

on

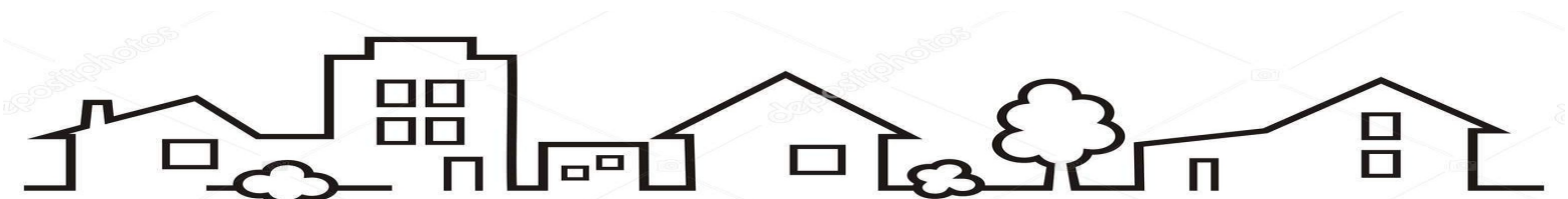
Urban Microclimate and Geospatial Technology (Urban-Geospatial 2022)

(As a Part of UGCs Scheme – STRIDE Component-I)

December 15th to 18th 2022



Organized by
Department of Geography
Kazi Nazrul University
Asansol, West Bengal, India





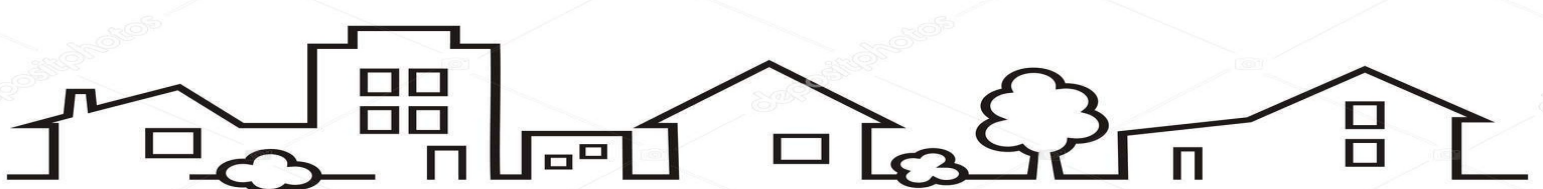
About Urban -Geospatial 2022:

Introduction:

The world and India are experiencing rapid urban growth resulting in large -scale Land Use Land Cover (LULC) modification. This changing LULC and urban expansion increase the magnitude of Urban Heat Island (UHI) and enhance urban environmental degradation, which needs to be addressed to formulate better management plans for each of the cities, especially for cities of developing countries. Renowned scholars worldwide are working on minimizing these urban environmental problems. Scholars have found Nature Based Solutions as a way of minimizing these problems. The scholars emphasize green and blue infrastructure and other structural modifications of buildings within a city.

From the ongoing project work, it is also identified that Asansol Municipal Corporation is also experiencing a rapid rate of urban growth and facing different urban environmental problems such as air pollution, increasing UHI, and Ecosystem Service Value (ESV) loss. It is also identified that industries are the most important source of heat, increasing the city's temperature along with the global warming situation. The study found a solution measure of this increasing UHI effect through replanning the distribution of urban green spaces, which is also evident from previous studies conducted in the other part of the world.

From this background Department of Geography, Kazi Nazrul University will organize a four days capacity building training program from 15.12.2022 to 18. 12.2022 on Urban Microclimate and Geospatial Technology (Urban -Geospatial 2022) to provide the live experience of handling geospatial data for maintaining urban environmental problems. The KNU UGC STRIDE component -1 project will fund this program to fulfill the objective of the UGC STRIDE project scheme of enhancing capacity among young researchers, which will help India's developing economy. The main objective of this program is to impart capacity - building knowledge among young researchers for solving urban environmental problems through the applications of geospatial technology.





The rationality of Urban -Geospatial 2022

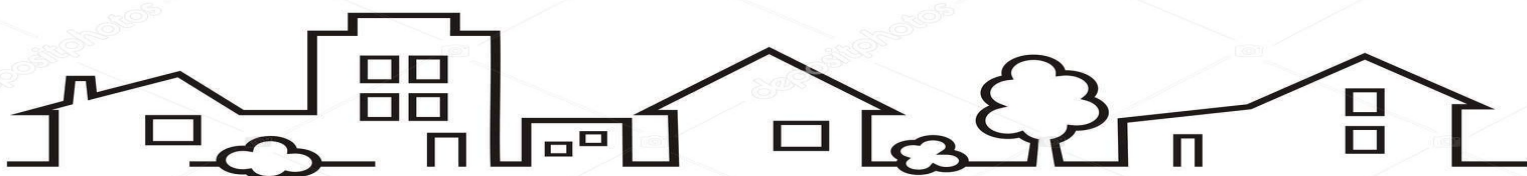
The study of urban growth forms and their impact on the urban environment becomes a major issue of study worldwide as most the cities are experiencing degraded environmental conditions and experiencing climate extreme events like heat waves, urban floods, cyclones, etc. these emerging urban environmental issues demand more studies on urban microclimatic phenomena. Indian cities are also experiencing the same situations along with this project work's study area . India needs more than 3 00000 urban planners by 2031 to develop planning formulations to maintain the sustainable growth of cities and reduce environmental degradation. Although the number of urban planners is very few in India, which needs to be increased to supply at least one urban planner for each of the Indian cities; otherwise city area will face several new problems soon. Keeping in mind these requirements, this capacity - building training program will try to impart some hands -on knowledge to the you ng researcher so that they can contribute to building climate resilience cities in the future.

Objectives of Urban -Geospatial 2022

The goals of this training program are to

1. Develop skills in geospatial technology among the young researchers applicable for urban planning to develop climate -resilient cities of the future.
2. Gives an overview of urban planning activities that need to be developed among young scholars for a better understanding of the process.
3. Introduce cloud computing and other advanced technologies r equired for better assessing urban environmental conditions and planning activities.

The ultimate target of this training program is to develop skills among young researchers regarding advanced geospatial technologies, which will help them perform research activities and help toward urban planning for their neighboring urban areas.





STRIDE Component -1 project and Urban -Geospatial 2022

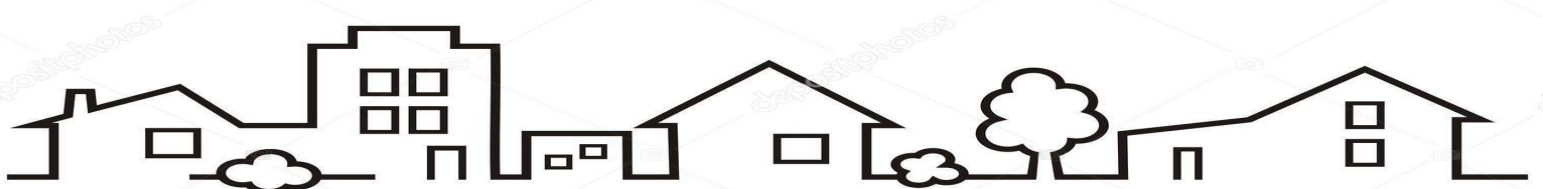
Scheme for Trans -disciplinary Research for India's Developing Economy (STRIDE) is developed to impart enhanced capacity among young researchers who can contribute toward India's growing economy. As India has become a node of the city and city population growth, it is essential to develop urban planners to formulate development planning for the growing cities. Keeping in mind the aim of the STRIDE project, this capacity -building training program emphasizes imparting geospatial technology knowledge required for urban planning to develop a resilient city.

Who can participate

Young Ph.D. scholars, Post -Doctoral scholars, and young researchers who are within five years of completion of their Ph.D. can join this program. Postgraduate students specializing in urban geography, urban planning, and environmental studies can join this program to enhance their geospatial technology skills required for urban planning or urban microclimatic studies.

Course structure

The course will consist of plenary talks, keynote talks and research talks, and some hands -on training on urban microclimate analysis tools. Experts will deliver the talks in their respective fields offline and online, and hands -on training sessions on urban growth prediction, Rhino -Grasshopper, Cloud -based computing and other open source softwares will be conducted in hybrid mode, but the participants must be present in person to attend the program. The participant must carry their laptop along with them for attending hands-on training and for practicing purposes.





How to apply?

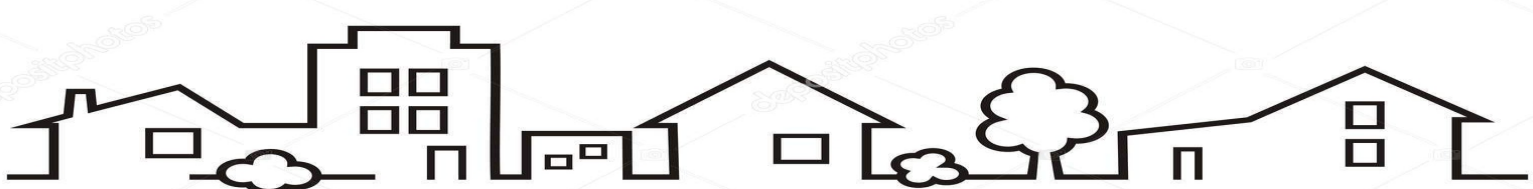
To apply for participation in the Urban -Geospatial 2022, send (i) a motivation letter, (iii) a brief CV, (iii) an abstract of ongoing research, and (iv) a support letter from the advisor/supervisor as a single pdf file to knustridel@knu.ac.in with a copy to sasanka.ghosh@knu.ac.in within 10th December 2022. After evaluating the applications, selected candidates will be intimated through their e-mail id.

How to reach the venue?

The distance between Asansol railway station and Kazi Nazrul University is ten (10) minutes by car. Participants can book a car or take an e -rickshaw from Asansol Railway Station to reach the university campus. The bus is also available from the Asansol bus stand to the University. Participants may take buses to Kalla road. It will take fifteen (15) minutes to reach the venue.

Costs

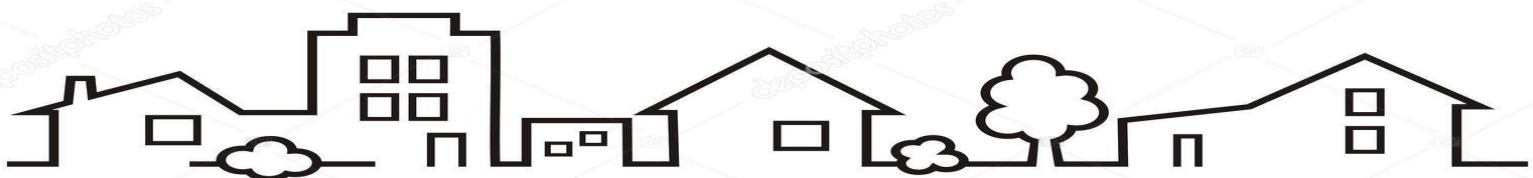
There will be no registration fees for attending this training program. However, the participant has to arrange their travel and accommodation arrangements alone. The program committee members will help to find suitable accommodation in and around Kazi Nazrul University if required. During the training program, participants will be given breakfast, high tea, and lunch, and the organizers will serve no dinner. Relevant study materials in the form of hard copy or soft copy will be provided from the organizer's end. A 100% attendance presentation of the submitted abstract is necessary to get participation and presentation certificate.





About Kazi Nazrul University

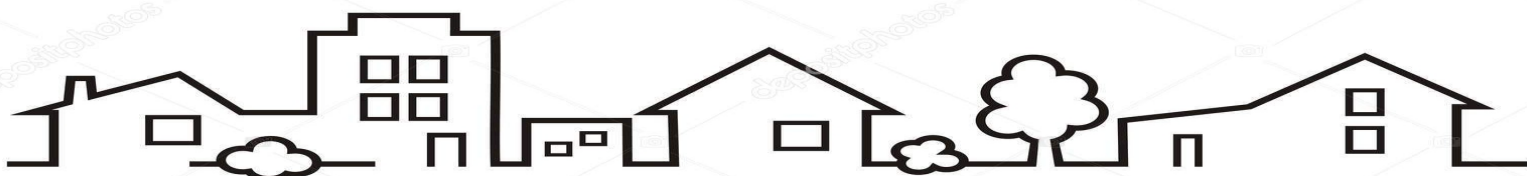
Kazi Nazrul University was established as a teaching and affiliating University in 2012. The University inaugurated its teaching programs by commencing post-graduation classes in four core disciplines - Bengali, English, History, and Mathematics. Beginning with four postgraduate programs, the University has now expanded to accommodate 47 programs in 21 departments, nine research centers, and more than 20 affiliated colleges. Named after the rebel poet Kazi Nazrul Islam (1899-1976) of India - who is also the national poet of Bangladesh - this University aims at achieving an ideal of creative freedom that marks the life of the mind and the intellectual traffic of ideas. The revolutionary poet, Kazi Nazrul, has been immortalized in Bengali cultural memory because of his acute thirst for independence and his attentiveness to the syncretism that characterizes knowledge traditions and transactions. This University has been established with the explicit aim of achieving this same syncretism of purpose and its allied commitment to the dream of a transformed future. The founding vision of Kazi Nazrul University is to function effectively as an institutional space encouraging and providing instruction, teaching, training, and research in various branches of learning and courses of study - with a view to promote the advancement and dissemination of knowledge and extending higher education to meet the immediate needs of society. While teaching activities are the mainstay of any higher educational institution, KNU has been modeled after the Humboldtian fashion of a research university - with specific emphasis on the need for knowledge production alongside processes of dissemination. There have been notable endeavors within the University to set up centers for advanced interdisciplinary exchange and intensive research collaboration, apart from rigorous daily routines of classroom instruction.





About the Department of Geography

The Department of Geography was established in 2015 and offers two Master's Degree programs, viz. M.Sc. in Geography and M.Sc. in Geoinformatics, and a Ph.D. program in Geography. The department envisioned integrating the natural and social sciences to understand and solve the problems of people and the environment. In doing so, it endeavors to function efficiently to encourage and provide instruction, teaching, training, and research in varied aspects of geographical importance. The department's focus would be to let the students learn their courses proficiently, which can further make them progressive and empowered in advancement, dissemination of knowledge, achieving higher education, and meeting society's growing needs.





Organizing Committee

Chief Patron

Prof. (Dr.) Sadhan Chakraborti, Hon'ble Vice Chancellor, Kazi Nazrul University

Patrons

Prof. (Dr.) Santanu Kumar Ghosh, Dean, Faculty Council of PG Studies in Science, Technology and Vocational Studies, Kazi Nazrul University

Dr. Chaitali Dutta, Registrar (Addl. Charge), Kazi Nazrul University

Course Chair

Dr. Somen Das, Coordinator & Assistant Professor, Department of Geography, Kazi Nazrul University

Course Coordinator

Dr. Sasanka Ghosh, Assistant Professor, Department of Geography, Kazi Nazrul University

Members

Dr. Arijit Sinha, Associate Professor, Department of Metallurgical Engineering, and Coordinator, UGC-STRIDE Project Component -1, Kazi Nazrul University, Asansol

Dr. Sk. Nazmul, Director, Internal Quality Assurance Cell, Kazi Nazrul University

Dr. Arghya Majumder, Director, School of Mines & Metallurgy, Kazi Nazrul University

Sujata Home Roy Konar, Finance Officer, Kazi Nazrul University

Biswajit Saha, University Librarian, Kazi Nazrul University

Prof. (Dr.) Asamanja Chattoraj, Professor, Department of Animal Science, Kazi Nazrul University

Dr. Arindam Biswas, Associate Professor, Department of Mining Engineering, and Director, School of Geoscience and Technology, Kazi Nazrul University

Dr. Paramita Roychowdhury, Associate Professor, Department of Geography, Kazi Nazrul University



Dr. Kuntal Kanti Chattoraj, Associate Professor, Department of Geography, Kazi Nazrul University

Dr. Sujay Bandyopadhyay, Assistant Professor, Department of Geography, Kazi Nazrul University

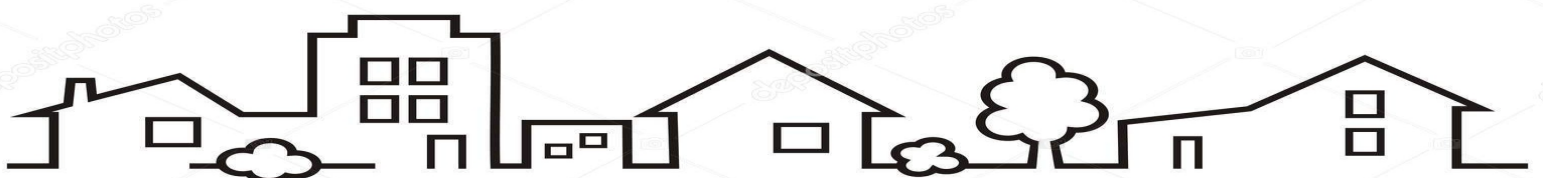
Dr. Md. Senaul Haque, Assistant Professor, Department of Geography, Kazi Nazrul University

Dr. Somenath Mukherjee, Deputy Director, Nazrul Centre for Social & Cultural Studies, Kazi Nazrul University

Mr. Maheswar Malo Das, Development and Planning Officer, Kazi Nazrul University

Mr. Asif Ahmed, System Administrator/Analyst, Kazi Nazrul University

Mr. Abhijit Gorain, Junior Attendant, Department of Geography, Kazi Nazrul University





Contact us

Please contact (i) Mr. Juel Sk. (6295032225), (ii) Arup Kumar Roy (9732173670), and (iii) Rohan Ghosal (9382122483) for accommodation and transportation-related queries if anyone needs help. For all other matters concerning the training workshop, please check the university website (<https://www.knu.ac.in/>) or contact Dr. Sasanka Ghosh (Department of Geography, Kazi Nazrul University, Asansol, West Bengal) at sasanka.ghosh@knu.ac.in.

