



## International Conference

on

# Innovative Research in Applied Sciences, Microbiology, Agriculture, Ecology, Humanities and Business Management for Sustainable Development



**Prof. (Dr.) Subires Bhattacharyya**  
Hon'ble Vice-Chancellor  
University of North Bengal  
(Patron in Chief)

**Dr. Arindam Bhattacharjee,**  
Dept. of Microbiology, NBU  
Convener

**Organized by**  
Department of Microbiology  
University of North Bengal  
and

“Krishi Sanskriti, New Delhi, India”

on

17<sup>th</sup> -18<sup>th</sup> March, 2020

**Prof. Pranab Ghosh**  
Dept. of Chemistry, NBU  
Chairman

**Dr G C Mishra**  
President, Krishi Sanskriti  
Conference Coordinator

**Venue: University of North Bengal**

Raja Rammohanpur, Siliguri in Darjeeling District, West Bengal

\*\*\*\*\*

### About The University:

The University of North Bengal was established by an Act of the Legislature of West Bengal in 1962 with the mission “to encourage and provide for instruction for teaching, training and research in various branches of learning and course of study; to promote advancement and dissemination of knowledge and learning and to extend higher education to meet the growing needs of society.”

The University of North Bengal has started setting up another campus at Jalpaiguri by the side of the campus of Jalpaiguri Government Engineering College for widening the dimension and scope of Higher Education and Research in one more Centre for Higher Education through modern studies for spreading advancement of learning in various branches of Humanities, Science and Technology in order to reach the people of this region in a bigger way so that they can have better and easier access to Higher Education.

The University of North Bengal, since its inception in 1962, has been fulfilling the objectives of imparting higher education and research to the people of this socio-economically backward area of the country. With the global advancement and requirements in the arena of higher education and research, the University has shouldered the responsibility of dissemination of knowledge by judicious expansion of its role in advanced, non-conventional, applied and job-oriented fields keeping the quality of education at par with global standards at low cost.

The University has taken initiatives in qualitative growth by way of achieving excellence. The Departments are well-equipped with research programmes from various agencies and have received academic distinctions and recognitions.

The distance from Bagdogra Airport is 7 km. the distance from Siliguri Railway Station is 11 km. and the distance from New Jalpaiguri Railway Station is 50 km.

### Call for Papers and Conference Themes:

The Organizer cordially invites Abstracts and Full Research Papers for oral/poster presentation from all over the world to participate/present and publish their research papers in the International Conference on Innovative Research in Applied Sciences, Microbiology, Agriculture, Ecology, Humanities and Business Management for Sustainable Development to provide a platform for researchers, engineers, academicians as well as

industrial professionals to present their research results and development activities in the above themes.

The conference will bring together leading researchers, entrepreneurs and academicians in the domain of interest. Topics of interest for submission include various subthemes, but are not limited to the conference aims at providing an opportunity for exchange of ideas and dissemination of knowledge among scholars. Contributions are invited from prospective authors from related areas. All contribution should be of high quality, original and not published elsewhere or submitted for publication. During the review period, papers will be reviewed by eminent scholars in the respective areas. All selected papers will be published as chapters in edited book/conference proceeding with ISBN No. and few high-end papers will be published in international journal having ISSN No. and rest of the papers/abstracts will be published in conference proceeding/abstract book which will be issued to authors on the day of conference.

### Conference Themes

**Track I day one on 17<sup>th</sup> March 2020**

#### Theme I

#### Basic and Applied Sciences

Physics and Engineering Mathematics, Condensed Matter Physics, Nano-science and Nanotechnology, Engineering and Industrial Physics, Instrumentation, Metrology And Standards Quantum, Atomic and Nuclear Physics, Chaos and Complex Systems, Astrophysics, Astrobiology. Mathematics, Discrete Mathematics, Mathematics and Statistics, Chemical Engineering and Applications, Chemistry and Chemical Engineering Fundamentals, Chemical, Environmental, and Process Engineering, Multi-scale and/or Multi-disciplinary Approaches, Systematic Methods and Tools for Managing the Complexity, Integration of Life Sciences & Engineering, Energy Science and Technology, Theory and practice of Sustainable Development, Advancement Energy, Greening the Fossil Fuels, Green Energy in Transport, Renewable Energy, Hydrogen & Fuel Cell, Energy Economics, Energy Systems, Green technology, Renewable energy and Environmental, Protection, Advanced Energy Technologies, Solar Photovoltaic Devices and Systems, Wind Energy, International Convergence on energy, Green Buildings and Infrastructures, Smart Buildings, Greening Urbanization and Urban Settlements, Green Policies and Programmes.



## **Economics and Finance**

Global Economic Crisis, General Economics, International Development, Economic Development and Policy, Macroeconomics, Microeconomic Issues, Monetary Economics, Unemployment, Inflation, Monetary and Fiscal Policies, Public Taxation, Quantitative Economics, Financial Economics, International Economics, Interest Rates, Foreign Exchange, International Trade, Public Finance, Monetary Economics, Islamic Economics, Labour Economics, Foreign Direct Investment, Health Economics, Environment and National Economy, International Trade Policy and WTO, Privatisation, Economic Policy, Contemporary Issue in Economics, Trade Blocks, Emerging Economies, Globalization and Economic Growth, Increasing Trade in Challenging Times, Industrial Development, Inclusive Growth and Microfinance, International Trade, Commodities Markets, Economic Growth and Development, Labor, Migration and Urbanization, Social and Economic Infrastructure, Poverty and Human Development, Regionalism and Economic Cooperation, Role of Technology Advancements, Sustainable Development and Special Economic Zones and All other economics topics, Financial Markets and Long Term Funding, Capital Markets, Risk Financing, Risk Transfer and Insurance, Finite Risk and Risk Management, Micro-finance, Contemporary Issues in Finance Personal Wealth Management and Global liquidity constraints and Contemporary Issues in Finance, Risk Management and Insurance

## **Tourism**

Alternative and Special Forms of Tourism, Case Studies and Applied Research on Various Types and Forms of Tourism, such as Agro-Tourism, Rural Tourism, Eco-Tourism and Cultural Tourism, Challenges and Best Practices of Hospitality and Tourism Marketing and Management, Climate Change and Natural Disasters, Community Responses to Tourists and Tourism, Destination Marketing, Economic/Social/Environmental/ Cultural Impacts/Forecasting of Tourism, Emerging technologies and e-tourism, Gambling tourism, Globalisation Effects, Green tourism, Hospitality education, Hotel and restaurant management, Industry's Role in Managing Growth, Information Technology in Tourism, Local Government Role and Responses to Tourism Development, Managing Human Resources in Hospitality and Tourism, Medical tourism, Meeting, incentives, convention & exhibition, Movie and drama tourism, Negotiation in Tourism, Public Administration of Tourism Development, Resiliency Planning, Shopping tourism, The Effects of Crime, Terrorism, Safety and Security, The Future of Tourism, Theoretical Perspectives on Tourism, Tourism Development, Policy and Planning, Tourism Education and its Role in Managing Tourism Development, Tourism Mobilities, Tourism Research and Methodology, Tourism sustainability, Transportation and Tourism and so on, Business Statistics, Business Ethics, Business Law and Business Education.

## **Abstract Submission:**

Abstracts not exceeding 250-300 words on any of the aforesaid themes should be sent to the Organizing Secretary through email at [info.unbconference@gmail.com](mailto:info.unbconference@gmail.com) on or before **2<sup>nd</sup> March, 2020**.

## **Submission of Full Length Research Paper**

Full length research paper, maximum in 6 pages and copyright form should be submitted together as separate attachment latest by **4<sup>th</sup> March, 2020** through email at [info.unbconference@gmail.com](mailto:info.unbconference@gmail.com)

## **Submission of Registration form:**

Submission of Registration fees latest by **7<sup>th</sup> March 2020**. Registration process can be initiated after receiving acceptance letter of full paper.

## **Accommodation**

On payment basic one day Accommodation will be available to the limited no. of out station delegates at University guest house. The tariff rate of the guest house is Rs. 100 per person per day without food. At least 20 days before the delegates need to get registered for the conference and intimate us by submitting the registration form mentioning the requirement of accommodation.

## **Mandatory steps to be followed:-**

1. Abstract should be maximum 300 words, full length research paper should be maximum 6 pages.
2. In case of multi authored research paper, at least one Registration is mandatory.
3. In case other author/co-author wish to physically attend the conference they need to pay full Registration fees individually, separate Journal & Certificate along with the conference kit will be issued to them. Co- Authors are requested to fill & submit separate Registration forms in case they are physically attending the conference.
4. Charges for extra copy of Journal/ Certificate for other Co-author (if required) should be paid along with preliminary Registration by the corresponding author.
5. Co-Authors will not be considered as accompanying person. Listeners are not entitled for free accommodation (it will be on paid basis). However they will be issued conference kit and participation certificate.

All Selected papers will be available online after 10 to 25 days of conference date over, in order to download the papers the authors need to go in the publication section of Krishi Sanskriti website.

## **Registration**

The participants are requested to register by sending the duly filled Registration form through e-mail along with their research paper and registration fees (**through RTGS/ Wired Transfer or Online Transfer**)

Bank Details mention below for **RTGS/ Wired Transfer or Online Transfer:**

**Beneficiary Name** : Krishi Sanskriti  
**Bank Name** : Canara Bank  
**Bank Address** : Jit Singh Marg, New Delhi  
**Account No.** : 1484101026988  
**Account Type** : Saving  
**IFSC Code** : CNRB0001484  
**Swift Code-** : CNRBINBBBID

**Registration Charges:**

Categories	Indian Delegates	Rest of the countries
Academic faculty/Industrial Delegates	3000 INR	200 USD
Research Scholars(Ph.D.)	2500 INR	150 USD
Students PG	2000 INR	75 USD
Students UG	1500 INR	50 UDS
Printing of Additional Pages as chapter in edited book/proceeding /in Journals	400 INR	15 USD
Listener / Accompanying Member (only Indian Delegates)	1500 INR	**
Print copy of research article as chapter in edited book/ proceeding/ Journal & Certificate (additional copy) for Co-Authors (if required in absentia)	700 INR	30 USD
Only Print copy of research article as chapter in edited book/ proceeding /Journal (additional copy) for Co-Authors (if required in absentia)	400 INR	25 USD
Only Certificates (Co-Authors in absentia)	400 INR	20 USD
Additional Research paper for same authors	1000 INR	35 USD

**NAME OF CONFERENCE COMMITTEE:****ORGANIZING SECRETARY:**

**Dr. Payel Sarkar, Dr. Sarita Kumari,  
Dr. Shyama Prasad Saha and Ms. Khusboo Lepcha**  
Dept. of Microbiology, NBU

**ADVISORY COMMITTEE MEMBERS**

**Prof. D.K. Sarkar**, Registrar, NBU  
**Dr. B.B. Singh**, University of Delhi  
**Prof. B.C.Paul**, Dean (Science), NBU  
**Dr. Vachaspati Mishra**, Canada  
**Prof. Nupur Das**, Secretary, UG council, NBU  
**Prof. S.C.Roy**, Head, Botany, NBU  
**Dr. Chanu, Ibemcha**, Assam University  
**Prof. S. Dey Sarkar**, Head, Mathematics, NBU  
**Dr. S. Halder**, Head, Physics, NBU  
**Prof. M.R. Tripathy**, Amity University, Noida  
**Prof. J. Sen**, Head, Anthropology, NBU  
**Dr. Ashish Gupta**, IARI, New Delhi  
**Dr. Mayank Pande**, Lecturer, A.I.T, New Delhi

**Prof. M. N. Roy**, Chemistry, NBU  
**Prof. N.C. Gupta**, I.P. University, New Delhi  
**Prof. Ranadhir Chakraborty**, Biotechnology, NBU  
**Dr. D. Saha**, Head, Biotechnology, NBU  
**Prof. A. Sen**, Botany, NBU  
**Dr. Shiv Prasad**, IARI, New Delhi  
**Prof. Min Bahadur**, Zoology, NBU  
**Dr. Dheeraj Saha**, Head, Zoology, NBU  
**Dr. V.V. Ramanan**, IGNOU, New Delhi  
**Prof. M.Sinha**, Mathematics, NBU  
**Prof. Subir Sarkar**, Geography, NBU  
**Dr. A. Biswas**, NIT, Agartala, India  
**Prof. Samir Dhar**, Head, Management, NBU  
**Dr. Shilpi Ghosh**, Head, Food Technology, NBU  
**Dr. Bindeshwar Singh**, KNIT, Sultanpur (U. P.),  
**Mr. Gautam Sarkar**, Director, USIC, NBU  
**Dr. Subrata Sanyal**, Inspector of Colleges, NBU

**For further information visit our**

Website: <http://www.krishisanskriti.org/1720.html>

or

<http://www.nbu.ac.in/>

**Conference Coordinator's Contact No. : +91-8527006560**