

RESOURCE PERSONS

Eminent speakers from Central, State and Foreign Universities, who have rich experience in Environmental Education and Research field.

TARGET AUDIENCE

Faculty members from the colleges in nearby region and Research Scholars from the Universities/Organisations.

All the short listed candidates will be informed through e-mail.

IMPORTANT INFORMATION ABOUT WORKSHOP

- There will be **NO REGISTRATION FEE**.
- All registered participants will be eligible to get e-certificate, who attended all the sessions and submits feedback form for each session.

REGISTRATION LINK

Interested Participants can register online on assessing the link provided below:

<https://forms.gle/CHbwF6qDQ6H1xkKPA>



WHATSAPP GROUP



Participants are required to join the WhatsApp group for easy flow of information for the Workshop with the link: provided below:

<https://chat.whatsapp.com/GYaJrnRZYxrJ28waltw0CL>

IMPORTANT DATES

Last date for registration in the Workshop for participation

March 06, 2022

PATRON

Prof. Sanjeev Jain

Hon'ble Vice-Chancellor

Central University of Jammu

Rahya-Suchani (Bagla), Distt. Samba, J&K

ADVISORY COMMITTEE

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SERB Sponsored

Online One-Day Workshop

on

**BIOFUELS AND
GREEN TECHNOLOGIES
(BGT-2022)**

March 08, 2022



organized by



**DEPARTMENT OF ENVIRONMENTAL SCIENCES
CENTRAL UNIVERSITY OF JAMMU**

(Established by the Central Universities Act, 2009
(Act No.25 of 2009 read with the Central Universities Act, 2009)

RAHYA-SUCHANI (BAGLA), DISTT. SAMBA, J&K UT - 181143, INDIA

ABOUT THE UNIVERSITY

The Central University of Jammu came into existence on August 08, 2011, with the appointment of the first Vice-Chancellor. It was established by the Central Universities Act, 2009 (Act No.25 of 2009 read with the Central Universities Act, 2009).

Currently, the University is offering 35 programmes under the aegis of 19 Departments, 02 Research Centres and 01 Community College. The programmes include 04 five-year integrated programmes, 15 Post Graduate programmes, 12 Research oriented and 02 Undergraduate level vocational programmes.

The Central University of Jammu campus is located at village Bagla, Raya Suchani in District Samba, which is at an approximate distance of 25 Kms. from Jammu.

ABOUT THE DEPARTMENT

The Department of Environmental Sciences (EVS), established in 2012, is offering M.Sc. and Ph.D. in Environmental Sciences. The Department is focusing to conduct quality research and education in this very relevant field of science. The Department is committed to research innovations through constant review, revision and to keep pace with the advances made in the discipline, emerging areas of research and development and the new technologies to understand and ameliorate environmental problems. The present curriculum conforms to the Choice Based Credit System (CBCS) recommended by the UGC, wherein the students have been given choice to specialize in various specialized courses. The Department has major and minor research projects funded from UGC, JKPCB, DST and FIST Level-I for enhancing the research quality and infrastructure.



ABOUT SCIENTIFIC SOCIAL RESPONSIBILITIES (SSR)

Scientific research continues to spur various technological advances and is one of the pivotal factors driving the economic growth of any nation. Science in India has witnessed rapid progress over the past several years and number of research institutions, scientific infrastructure and resources along with research output have increased significantly. Scientific resources and knowledge thus developed are an unprecedented wealth which when strategically tapped and channelized can create a huge impact on the research ecosystem of the nation. Hon'ble Prime Minister in the 104th Indian Science Congress at Tirupati emphasized "On the lines of Corporate Social Responsibility, the concept of Scientific Social Responsibility needs to be inculcated to connect our leading institutions to all stakeholders, including schools and colleges. We must create an environment for sharing of ideas and resources." Science and Engineering Research Board (SERB), being a premier organization for funding basic research in the country, caters to researchers belonging to various disciplines of science and engineering. SERB has devised its Scientific Social Responsibility (SSR) Policy which aims to spread the benefits beyond these direct beneficiaries especially to the less-endowed researchers. The approach is to integrate and align the social responsibility activities within the SERB Grantees' committed research activities. In the knowledge- and technology-driven economy, the demand for human resources in science and technology is increasing to a great extent. Therefore, it is imperative to build the basis for continuous supply of human resources in science and technology. SERB grantee can act as a facilitator in motivating students to pursue research career through various measures, such as direct interaction with students, conducting workshops, etc. and introduce and inspire members of academic community to the best practices of research.

ABOUT THE PROGRAM

Environmental deprivation and consumption rate of fossil fuels are significant problems witnessed worldwide. The fossil fuel reserves are diminishing due to their escalating demand. Fossil fuels extraction rate and associated problems with their burning open up a path for generating alternate fuels. The search for alternate energy sources is inevitable due to the pile-up of atmospheric CO₂ emitted from burning fossil fuels. Biofuels are sustainable energy resources with low carbon impression, environmentally friendly, green and clean fuel compared to fossil-based fuels. Biofuels are rapidly progressing as alternate sources of energy due to their environmental and economic benefits. Biofuels are categorized into four generations depending upon the feedstock used- first generation, second generation, third generation and fourth generation. The synthesis process of biofuel is greener as compared to fossil-based fuels. The National Policy on Biofuels- 2018 aims to bring in renewed focus taking into context the international perspectives and National scenario primarily by utilization of indigenous feedstock to produce biofuels. The Policy's goal is to enable the availability of biofuels in the market, thereby increasing its blending percentage from current to 20% blending of ethanol in petrol and 5% blending of biodiesel in diesel as proposed by 2030.

WORKSHOP OBJECTIVES

The main objectives of this workshop are:

- To familiarize participant about different generations of biofuels
- To impart knowledge on biofuels production processes and National Policy on Biofuels- 2018
- To enrich participants on emerging green technologies involved in biofuel production
- To discuss the importance of metabolic engineering in biofuel production
- To enrich participants on writing a project proposal