



# National Conference

on

**“Smart Material and Devices for Sustainable Technologies”**

**(20 - 21 June, 2022)**

Organized by

**Department of Physics and IQAC**

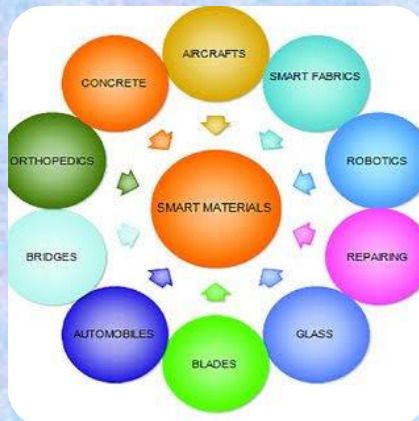
of

**Shri Lal Bahadur Shastri Degree College, Gonda, U.P.**

(Affiliated to Dr. R.M.L. Avadh University Ayodhya, U.P.)

Co-Sponsored by

**Satya Saroj Foundation Gonda**



## ABOUT THE CONFERENCE

Great emphasis has been laid on the utility of innovative and smart materials & devices to achieve environmental sustainability, cost-efficacy, and safety. Innovative tools and better functioning materials are gaining importance to offer state-of-the-art solutions to the long-lasting complication, particularly damaging effect on the environment. Smart materials provide varied profits like the stability of the structure, environmental protection, and repairability. Smart materials and devices are still undergoing study and research to arrive at a new class of materials that shall provide creativity to architecture and sustainability to construction in addition to being multipurpose. Thus, once successfully established, smart materials shall bring a total revolution in the way we perceive and look at the built environment. Smart materials and devices are defined as specially designed materials that generate a unique favorable response to the occurrence of a specific alteration in their surrounding environment. Smart materials and devices are thought to be a rational extension of conventional materials further developed for more selective and specific performance. Thus, smart materials can be compared to living beings as they are capable to sense and motivate the response and finally adapt to the resulting new surroundings. In other words, smart materials and devices have the ability to alter themselves in reaction to an exterior provocation by generating some signal. By using smart materials, a complex system comprising of individual structure, sensors and actuators can all integrate into a single material, thereby reducing total size and intricacy of the system.

## SUB-THEMES OF THE CONFERENCE

- Carbon nanostructure modified life Po4 cathodes for lithium-ion battery applications.
- Failure analysis of bubble canopy: MiG -29 Aircraft.
- Effect of additives on gelation of methylcellulose based ophthalmic thermo-responsive in situ gels.
- Surface plasmon resonance for C-reactive protein detection in human plasma.
- Sustainable waste water treatment plants networks design through multi-objective optimization.
- Magnesium ferrite/polyvinyl alcohol nanocomposites fabrication and characterization.
- Single crystal silicon nanomembrane molecular sieves.
- Robust sustainable infrastructure using smart materials and technologies.
- Carbon based smart organic devices and bio product derived sustainable technology application.
- Eco friendly nanomaterials for flexible sensors, opto-electronics and solar energy harvesting.
- Effects of porosity distribution on properties of multifunctional foam structure.
- Wheat bran fiber as resources for industries.
- Optoelectronic diffusion waves in semiconductors: carrier lifetime chronotomography imaging of Si solar cells.
- Power, Energy, Efficient resource management, and Energy Harvesting
- Things to Cloud: Computation and Communication Gateways
- Semantic technologies: Information and data models for interoperability
- Other concerning topics are also accepted.

### Important Dates to Remember

Opening of Registration	June 02, 2022
Last Date for Submission of Abstract	June 17, 2022
Last Date for Online Registration	June 17, 2022
Last Date for Submission of Full Paper	June 19, 2022
Paper Presentation	June 20--21, 2022

(Note: Offline Registration will be available on the spot)

Abstract can be sent to the email: [lbsdcpphysics@gmail.com](mailto:lbsdcpphysics@gmail.com)

**Inauguration and Invited Lectures from renowned Resource Persons and Research Paper Presentation**

## Inaugural Lecture

by



**Prof. S.N. Shukla**

Department Of Physics

Dr. R.M.L. Avadh University Ayodhya

## Keynote Speakers



**Prof D.K. Dwivedi**

Dean of Faculty Affairs  
MMMUT, Gorakhpur



**Prof S.K. Tripathi**

Dean Research and  
Consultancy  
Mahatma Gandhi Central  
University Motihari Bihar



**Prof. R.S. Singh**

OSD, Maha Yogi Guru Shri  
Gorakshanath Shodh Peeth and  
Department of Physics,  
DDU Gorakhpur University



**Dr A.K. Maurya**

Department of Physics,  
School of Physical and Decision  
Sciences Babasaheb Bhimrao  
Ambedkar University, Lucknow

## Venue:

Smt. Lalita Shastri Sabhagar, Shri Lal Bahadur Shastri Degree College, Gonda

## Conference Registration Fees

Category	Amount
PG Students	INR 200
Research Scholar/Guest Faculty of SLBSDC	INR 300
Faculty	INR 500
Paper Publication Fee (Additional)	INR 700
Industry	INR 1000

(Fee can be submitted in both manual and online mode)

### Account Details:

**Bank Name: HDFC Bank**

**Account Holder Name: Namrata Shukla**

**Account Number: 50100393829659**

**IFSC Code: HDFC0001901**



**Acceptable mode of payment: Google Pay/Paytm/Internet Banking/Card Payment**

### **Registration Link:**

[https://docs.google.com/forms/d/e/1FAIpQLSdISOZtTUItxLQTwawFvCEb\\_UMXf6tZnxmdPHw9d7Qb49tWsg/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSdISOZtTUItxLQTwawFvCEb_UMXf6tZnxmdPHw9d7Qb49tWsg/viewform?usp=sf_link)

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## Online Abstract/Paper Submission

Prospective authors are invited to submit full text papers including abstract, keywords, introduction, methodology, result description, tables, figures and references. Full text papers (.doc, .pdf) may send by e-mail at [lbsdphysics@gmail.com](mailto:lbsdphysics@gmail.com)

- Title Page: The title page should include the name(s) of the author(s), a concise and informative title, the affiliation(s) and address(es) of the author(s), the e-mail address, and mobile number(s) of the corresponding author.
- Abstract: Please provide an abstract of 100 to 450 words. The abstract should not contain any undefined abbreviations or unspecified references.
- Keywords: Author(s) should provide 4 to 6 keywords which can be used for indexing purposes.
- Text Formatting: Paper Setup must be in A4 size, Paper Title must be in Font Size 24, Bold, Text font size 12, Times New Roman and line spacing 1.5.

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