

## About Seminar

Materials Science is an interdisciplinary field concerned with the understanding and application of properties of matter. This field focuses mainly on the design and development of new materials particularly solids with novel properties. This field has a prospect of including elements of basic and applied physics and chemistry as well as various branches of engineering like, chemical, electrical, mechanical etc. In the recent years materials science has propelled to the forefront by paying significant attention to nano-science and technology. Another important aspect of materials science is the development of eco-friendly materials. Most of the materials are excellent in electrical, optical and thermal properties, but there are some issues due to toxic and hazardous nature that has an adverse impact on environment. Because of the environmental concerns these materials are not found suitable for direct industrial applications. Now it is a challenge and opportunity for the future generation to develop eco friendly materials industrial and social applications. This seminar includes the core areas of materials science like ceramics, electronic materials, polymers, composites & bio materials & apart from this also covers all emerging topics.

## About the Institute

Govt Pt. Shyamacharan Shukla College Dharsiwa (Shankar Nagar) was established on 14th August 1989 by the Government of Madhya Pradesh. The college was named in the memory of freedom fighter and former chief minister of undivided Madhya Pradesh i.e.Pt. Shyamacharan Shukla ji . After the bifurcation of the State in 2000 it is governed by the Government of Chhattisgarh. The institute is affiliated to Pt. Ravishankar Shukla University, Raipur Chhattisgarh. At the time of establishment the college was started in Shankar Nagar Raipur, but in 2010 it was shifted to Dharsiwa block of Raipur district and due to lack of its own building it was started in a community hall named "Mangal Bhavan" temporarily. August 2014 onwards the institute is running in its own building. The institution is recognised under 2(f) and 12(b) sections of UGC

## About Dharsiwa

The Dharsiwa is a Tehsil in Raipur District of Chattisgarh State, India. Dharsiwa Tehsil Head Quarters is Dharsiwa town. It is located 13 KM towards North from District head quarters Raipur and 12 KM from State capital Raipur towards South. It is the famous industrial block of Chhattisgarh with various industrial establishments. Raipur Rail Way Station, Mandhar Rail Way Station, Urkura Rail Way Station are the very nearby railway stations to Dharsiwa Tehsil. Raipur, Bhilai (Bhilai Nagar), Durg , Mahasamund , Dhamtari are the near - by Important tourist destinations to see.

## Objective of the Seminar

This seminar will be an excellent academic forum for sharing knowledge and results in theoretical, experimental, methodological and applications of Materials Science and various streams. The seminar will cover the significant contributions from almost all the major fields of materials science. In this seminar participant from different universities, academic institutions and participants from all over the country are anticipated. The latest developments in the field of materials science and its applications will be reviewed. This seminar will be an interactive platform to all the academicians and researchers.

## Themes of NSAMSISA-2020

Advanced Materials	Composites
<ul style="list-style-type: none"><li>Smart Materials</li><li>Dielectric, Ferroelectric, Piezoelectric Materials</li><li>Luminescent Materials (Electro, Thermo, Mechano, Photo, Lyo, Bio, Chemi)</li><li>Nano materials and Nano technology</li><li>Magnetic materials</li><li>Bio Materials</li><li>High temperature materials</li><li>Sensors</li></ul>	<ul style="list-style-type: none"><li>Polymers</li><li>Ceramics</li><li>Metal Matrix ceramics</li><li>Fiber reinforced ceramics</li><li>Nano composites</li><li>Bio composites</li></ul>
<b>Materials Characterisations</b> <ul style="list-style-type: none"><li>Various characterization techniques</li><li>Characterization techniques of Optical materials</li><li>Advanced characterizations</li></ul>	<b>Applications of smart materials and waste utilization</b> <ul style="list-style-type: none"><li>Radiation effects and dosimetry</li><li>Phosphors in medical applications</li><li>Industrial applications of Phosphors</li><li>Industrial waste utilization</li><li>Organic waste utilization</li><li>Hazardous waste utilization</li><li>Recyclable waste</li><li>Electronic waste utilization</li></ul>
<ul style="list-style-type: none"><li>Multiferroics</li><li>Thin films</li><li>Energy harvesting materials</li><li>Transparent oxide semiconductors</li><li>Composites</li></ul>	<b>Mask development for industrial areas</b> <b>Catalyst development for polymerisation</b>

## Paper Submission Guidelines

- All abstract/full paper must be submitted through Email via - [bhargavi.nag24@gmail.com](mailto:bhargavi.nag24@gmail.com)
- Abstract (max 300 words should contain title of the paper, authors' names, affiliation and contact details)
- Font: English - Times New Roman, Font size - 12  
Hindi - Krutidev 010, Font Size - 14
- Space between the lines - 1.15
- Format: MS office word, A-4 size

## Important Dates:

- **Abstract Submission begins – December 15, 2019**
- **Abstract submission closes – January 05, 2020**
- **Acceptance notification – January 07, 2020**
- **Last date of registration – January 10, 2020**

## Registration Fees

Delegate Type	Upto 10 <sup>th</sup> Jan. 2020
Faculty Members	800/-
Research Scholars	500/-
Students	300/-
Accompanying person	600/-
Delegates from Industry	1000/-

Registration fee may be paid through online to the bank details given below:

**Bank Name & Address: Dena Bank, Dharsiwa, Raipur**  
**Account Name – PRINCIPAL, GOVT.PT. SHYAMACHARAN SHUKLA COLLEGE**  
**Account No. - 070910031892**  
**IFSC Code: - BKDN0820709**

## Accommodation

Accommodation will be provided to all the out station participants on payment basis.

## CONTACT NUMBERS

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**NATIONAL SEMINAR**

**ON**

**“ADVANCE MATERIALS FOR SUSTAINABLE INDUSTRIAL AND SOCIAL APPLICATIONS”**

**(NSAMSISA-2020)**

**January 17-18, 2020**

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**Date:** .....

**Signature of the Delegate/Participant**

**NATIONAL SEMINAR**

**On**

**“Advance Materials for Sustainable Industrial and Social Applications”**

**(NSAMSISA-2020)**

**17<sup>th</sup> -18<sup>th</sup> January 2020**



**Organized by:**

**FACULTY OF SCIENCE**



**Govt. Pt. Shyamacharan Shukla College,**  
**Kunra Road, Dharsiwa, Raipur (CG) PIN: 493221**  
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