



*Now accepting applications for the admission to...*

## ***Courses in "Paint and Coating Technology"***



**CENTRE FOR  
INTERDISCIPLINARY SCIENCES  
(CIS)  
JIS INSTITUTE OF ADVANCED  
STUDIES AND RESEARCH  
(JISIASR) KOLKATA  
JIS UNIVERSITY**

*A unique post-graduate research institute with a difference*

*Offering translational research based post-graduate education to  
nurture young minds for Industry 4.0*

[www.jisiasr.org](http://www.jisiasr.org)

# Director's Message



## **Prof. Ajoy Kumar Ray (Padma Shri)**

Director, JISIASR Kolkata  
Former Director, IEST Shibpur  
Former Professor, IIT Kharagpur

JIS Institute of Advanced Studies and Research Kolkata, JIS University started its journey in 2019 with an objective to offer translational research based post-graduate education to nurture young minds ready to face the scientific and technological challenges of 21<sup>st</sup> Century. The need of the hour is to offer high quality industry-oriented post-graduate and translational research programs in some of the most relevant areas of science and technology in 21st century.

Currently our institute has four centres, and the Centre for Interdisciplinary Sciences (CIS) is one of the most important units to promote the several inter and multidisciplinary research works for fulfilling the sustainable needs of product development in close collaboration with paint and coating industries. The centre as a whole aims to work closely with many paint industries and R& D Laboratories across the country and also at the global level for advanced material composition and formulation of future paints and coating. The experts from the industries and academia participate both in teaching and research programs in the Centre.

Two year ***MSc in Paint and Coating Technology*** and *Five year Integrated MS-PhD in Paint and Coating* are being introduced now from CIS, JISIASR Kolkata. Such courses would be first of its kind in eastern India, carrying very good job prospects in paint and polymer industries and higher educational institute (HEI) in India for advanced research. In addition, we also offer higher degree such as Integrated MS-PhD, and PhD in the relevant areas of paint and coating technology.

Paint and coating industries see a substantial growth in India, specially after pandemic. In the eastern region of India, there exists huge scope in this sector, as few leading paint industries are planning to set up new plants in West Bengal and Odisha in next 2 to 3 years.

Our fully-structured job oriented courses, collaboration with leading industries across the globe, highly qualified faculties from IITs and other eminent institutions in India, USA and Europe and our infrastructure aims to attract a pool of high-quality graduate students to join our Masters and PhD programs, and learn state-of-the-art technologies in the field. Most of our alumni have been successfully placed in leading industries in India, and rest have joined several IITs/ NITs/ and other research and education institutes (in India and abroad) for pursuing higher research.

I strongly believe that our strong repertoire of bright faculty members and motivated Masters and PhD students will eminently place our institute in the technology education map of India in near future via active support and collaboration with the prominent industries and academic institutions across the globe.

## Courses Offered in Paint and Coating Technology @ CIS

- 2 year MSc in Paint and Coating Technology
- Integrated MS-PhD in Paint & Coating
- Short-term job oriented certificate courses

### Eligibility:

- For MSc programs – Bachelor degree in Science / Engineering (in relevant subjects)
- For Integrated MS-PhD program – BE / BTech / BSc with relevant industrial experiences
- For short-term course: 50% grade in Class XII

CIS has been established to offer an unique opening to advanced educational curriculum and research where the basic sciences meet with the technology to address the real challenges and pertinent issues for present society. Realizing the urgent need to fulfil the gap between academic curriculum and industry's demands, CIS is offering a number of quality programs at post-graduate and research levels which will ultimately provide a talented pool of skilled manpower to ensure the working solution in the respective domains. Under the extraordinary leadership of Padma Shri (Prof.) Ajoy Kumar Ray, some of the best academicians and bright scholars have joined CIS as faculty members from India and across the globe.



### HIGHLIGHTS

- ✓ **Scholarships (in MSc/MS-PhD) offered for bright and meritorious students.**
- ✓ Research/industrial training in leading National and International institutes.
- ✓ Need based curriculum designed for academic and industrial demand (Unique in Eastern India).
- ✓ Excellent placement support as well as scope of higher studies and research at leading National / International industries and institutes.
- ✓ Guidance for entrepreneurship with *in-house* start-up incubation facilities.
- ✓ Research collaborations with several leading national and international institutes and industries.

## Bridging the World

CIS is connected with some leading institutes and industries across the world, like IIT Kharagpur, CSIR-IICB, MG University-Kerala, NIPER Kolkata, SNBNCBS Kolkata, College of Medicine & Sagore Dutta Hospital, PDEU Gujarat, IEST-Shibpur, IPF-Dresden Germany, POSTECH South Korea, Hongik University South Korea, GUT Poland, Materials Science and Engineering Georgia Institute of Technology USA, Hanyang University South Korea, The University of Sheffield, UK, Indian Paint Association (IPA), Confederation of Indian Industry (CII), NBIL, Terracarb. etc.



# Future Scopes in Paint and Coating Industry

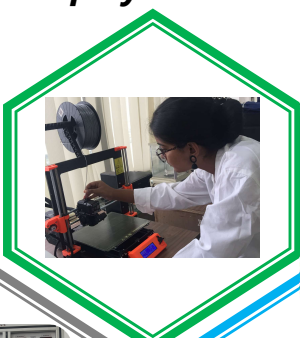


## In-house Facilities @ Centre for Interdisciplinary Sciences (CIS)

*Organic Synthesis Lab*



*Biopolymers Lab*



*3D-Bioprinter*



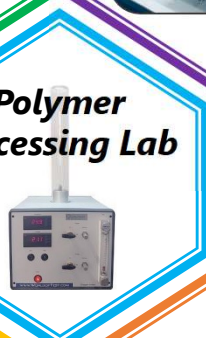
*Renewable Energy Lab*



*Electro-spinning Setup*



*Polymer Processing Lab*



*Fluorescence Spectrophotometer*



*Rotary Evaporator*



*UV-Vis Spectrophotometer*



# What People from Paint Industry are saying??



**Mr. Prasenjit Paul: Specialist -RDI Technical of Automotive and Speciality Coatings, Akzo Nobel India Limited.**

*"India is booming in paints manufacturing and service industry. India's per capita consumption of paint is less than 1 kg against more than 25–30 kg in developed countries. So the paint industry is expected to show at least twice the growth in coming years."*

*There is a good opportunity for professionally qualified paint technologists. After completing masters students can choose to work in any of the following departments of paint manufacturing companies like R&D, Production, QC, Marketing, and Technical service to work on clients."*

**Mr. Santanu Goswami, Sr. Technical Executive- ICD-Auto, Kansai Nerolac Paints Ltd.**

*"The global paints and coatings market size is projected to grow from USD 171.55 billion to USD 241.32 billion by 2030, exhibiting a CAGR of 5.0% during the forecast period, in which projected decorative paints market is USD 108 billion i.e; growth rate is 5.4% during forecast period 2030. There are huge scopes to build your career in small or giant OEM"*



**Mr. Sanat Kumar Sen: R&D Manager- Automotive Refinish, Wood coating and Strategic Research, Nippon Paint India Pvt Ltd.**

*"The Paint ,coating and ink industries growing rapidly and to meet the growth expectation Industry needs Skilled technologists. This course is a bridge between accademics and Industry and I am sure this course can generate a Group of Skilled coating technologists for the Industry."*

**Mr. Soumalya Chakraborty, Assistant Manager- R&D, Decorative Paints, Grasim Paints (Aditya Birla Group).**

*"Paint industry has emerged as an attractive sector, by the entry of several new players in recent times. In India, paint companies have laready announced an investment of more than 20,000 crore by 2025 including 2000 crore investment in West Bengal only. At present, very few institutes in Eastern India is offering a job oriented Master degree course in Paint & Coating.*

*So, there is huge need of skilled and learned manpower in this sector. Opportunity is waiting for the freshers to build a successful career in Paint & Coating Sector."*



**Mr. Abhijit Mallick: Industrial Expert-Paint & Coating Technology Alstom Transport India Limited.**

*"The Paint ,coating and ink industries growing rapidly and to meet the growth expectation Industry needs Skilled technologists. This course is a bridge between accademics and Industry and I am sure this course can generate a Group of Skilled coating technologists for the Industry."*

# Notable Alumni of our Centre and their Achievements



**Mr. Ayan Banerjee**, M.Sc. Student in Polymer Sci. and Technology (Batch 2020-2022)

- Qualified **GATE 2022** in Engineering Sciences
- Presently MTech student at IIT Kharagpur, DAAD KOSPIE Fellow



**Miss. Shrabani Bhunia**, M.Sc. Student in Polymer Sci. and Technology (Batch 2020-2022)

- Present position: Intern-composite processing, Anisotropic Pvt. Ltd., Bengaluru



**Mr. Shovan Ray**, M.Sc. Student in Polymer Sci. and Technology (Batch 2020-2022)

- Qualified **GATE 2022** in Engineering Sciences
- Present Position: M.Tech Student at IIT BHU



**Mr. Souptik Ghosh**, M.Sc. Student in Polymer Sci. and Technology (Batch 2020-2022)

- Presently pursuing PGDM at SOIL School of Business Design, Manesar



**Miss Priyanka Sutradhar**, M.Sc. Student in Polymer Sci. and Technology (Batch 2021-2023)

- Present Position: Jr. Bioprinting Engineer, Next Big Innovation Lab., Bengaluru



**Mr. Soumyadeep Bera**, M.Sc. Student in Polymer Sci. and Technology (Batch 2021-2023)

- Present Position: Guest Lecturer in CIPET, Raipur



**Miss Poonam Debnath**, M.Sc. Student in Polymer Sci. and Technology (Batch 2021-2023)

- Present Position: Research Scholar at JISIASR Kolkata



**Miss. Ankita Deb**, M.Sc. Student in Polymer Sci. and Technology (Batch 2021-2023)

- Present Position: Project research scholar for pursuing her PhD

***You could be the next in this list...***

# Memorandum of Understandings (MoUs) @ JISIASR

**JISIASR Kolkata** has signed MoUs with following academic institutes and industries in education and research. The primary objective is to promote interaction and collaboration between the faculty members and the students through resource sharing, joint academic and research programs, exchange programs, joint supervision of masters and doctoral students, joint academic activities and events, along with joint conference and exhibition towards developing a scientific and research oriented ecosystem.



IIT Kharagpur,  
India



MGU Kottayam,  
India



Hongik University,  
South Korea



Enikolopov Institute of  
Synthetic Polymeric  
Materials, Russia



Moscow State Medical  
University, Ministry of  
Health, Russia



Indian Paint  
Association



Next Big Innovation  
Lab, India



Agni Green  
Power, India

Moreover, JISIASR Kolkata is in the process of signing MoUs with different other industries, hospitals, academic and research institutes like Quadra Medical Services Kolkata, TATA Medical Centre Kolkata, Synchro Electronics Kolkata, Vikram Solar, TCG Life Sciences Kolkata etc. in the field of health science and technology, data science, and interdisciplinary sciences to promote the skill development and introduction of several academic courses and collaborative R&D programs as per industry standards.

# Research Fundings and Publications @ JISIASR

- ❖ Since the inception (August 2019), **JISIASR Kolkata** has bagged **14** projects worth of approximately **INR 5 Crores** from several funding agencies like:



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
**SCIENCE & TECHNOLOGY**



DEPARTMENT OF BIOTECHNOLOGY  
Ministry of Science & Technology  
Government of India

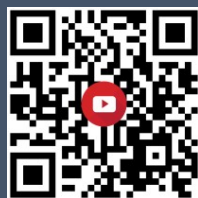


- ❖ Till now (Aug'2019 – July 2023), more than **70** research articles has been published from JISIASR with eminent publishers e.g. ACS, RSC, Springer Nature, ASM, IEEE, Frontiers, Elsevier, etc.



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