

JISIASR Kolkata-An Institute with a Difference...

JISIASR Offers Post Graduate Program (M.Sc.)

in

Polymer Science and Technology (PST) (2019-20)



Centre for Interdisciplinary Sciences (CIS) JISIASR Kolkata JIS University

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JISIASR Kolkata

JIS Group of Institutions has stepped into the, so far, untrodden path of starting their own academic and industry-based research institute aspired to be one of the premier post graduate and research institutes of the country.

There is an urgent need for restructuring the science and technology curriculum in our education system. Unfortunately, such necessities have not yet been given due attention in our current university education system. Therefore the need of the hour is to start more number of quality programs at Masters and PhD levels.

To fulfill the above requirement, **JIS Institute of Advanced Studies and Research (JISIASR)** – an initiative of JIS Group, Kolkata starts its journey with three Centers, viz, Centre for Data Science, Centre for Health Science and Technology, Centre for Interdisciplinary Sciences, and one School for Management studies (to be started shortly).

Centre for Interdisciplinary Sciences (CIS)

In CIS, we are committed to emerge as a research group of global reach in the design and development of novel polymeric and sensor materials adhering to the required norms of industries as well as affordable green and sustainable alternative to existing materials for several cutting edge applications.

Ongoing Research at CIS

Presently faculties and research scholars at CIS working on fabrication and application of polymeric and sensor materials, biomaterials, devices, and nano composites as a part of translational research for JISIASR Kolkata. Around 1 .5 crore of research funding has been awarded to CIS from different governmental and industrial funding agencies. JISIASR Kolkata is recognised by Scientific and Industrial Organisations (SIROs), and Dept. Of Scientific and Industrial Research (DSIR), Govt. of India. Therefore several government funds (DST, DBT, Inspire etc.) for advanced research.

Faculty Profile at CIS

Dr. Prosenjit Saha (PhD., IIT Kharagpur)

Biomaterials, Polymer, 3D printing

Dr. Subhankar Singha (PhD., POSTech, S.Korea)

Sensors, Theranostics, Drug Design

Dr. Chaitanyamoy Ganguly (Padma Shri)

Materials Sci. & Engineering, Nucler medicine

Accreditations, Affiliations & Approvals (As applicable)

UGC | NCTE | AICTE | AIU | UNAI

Specialization Options

- 1. Coating and Paint Tcehnology**
- 2. Polymer and Rubber Technology**
- 3. 3D Printing**

Learn...

Innovate...

Grow...

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M.Sc. Program Highlights

- Candidates with good academic profile admitted to this program will also be considered for teaching assistantship with monthly stipend
- 6 to 12 months research/industrial training in leading National and International institutes
- Unique curriculum designed for need-based academic and industrial activities
- Cutting edge research in house laboratory facilities
- Excellent placement support

Core Courses

- BTH G 101 Introduction to Polymer Science and Engineering
- BTH G 102 Basic Polymer Chemistry I (Organic)
- BTH G 103 Basic Statistics
- BTH G 104 Basic Polymer Physics
- BTH G 105 Rheology and Mechanical Properties of Polymer
- BTH G 106 Basic Characterization Techniques of Polymers
- BTH G 201 Basic Polymer Chemistry II (Inorganic)
- BTH C 202 Biopolymers
- BTH C 203 Polymer Processing and Recycling
- BTH C 204 Industrial Polymers
- BTH C 205 Rubber Chemistry
- BTH C 206 Polymer Composites
- BTH G 301 Molecular Spectroscopy
- BTH C 302 Coating Technology
- BTH C 303 Biomaterials and 3D printing

Elective Courses

- Pigments & Additives for Polymers
- Fiber Chemistry
- Polymer for Drug Delivery
- Design & Fabrication of Molds
- Technology of Elastomers
- Technology of Thermoplastic
- Packaging & Decoration of plastics
- Basic Textile Technology
- Resin Chemistry
- Industrial Management

Lab

- Analysis, Characterization of raw materials & Synthesis of resins, rubber, fibers, and polymers
- Compounding & processing of polymers
- Analytical Chemistry Laboratory
- Physical Chemistry Laboratory
- Polymer Testing Practical
- Advanced Fabrication Technique

Eligibility Criteria for Admission

Any prospective candidate interested in joining the M. Sc. in PST Program will require to fulfill the following minimum eligibility criteria:
B.Sc. in Chemistry/Physics/Biochemistry/Life Sciences/ any other relevant subject with minimum 50% marks or equiv CGPA from a recognized University/ Institutes.

Scope of Placements

This course is designed to meet the growing demands from immediate academic and industrial world. We have highly equalized faculty members and the laboratories are equipped with advanced research facilities. We have the collaboration with IIT-Kharagpur, Mhatma Gandhi University, Chembiotek, and other leading research and industrial institutes in India as well as through out the Globe. There is a possible scope to be absorbed to the following industries/sectors after completion of the PG Program :

1. Plastic Industry
2. Fiber /Textile Industry
3. Tyre Industry
4. Rubber based industry
5. Automotive part sector
6. Drug Manufacturing industry
7. Paint/coating industry
8. Analytical laboratories
9. Medical Implant manufacturing
10. Composite industry

**For Further Enquiry
Candidate can visit our
institute website:**

www.jisiasr.org

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