

A13/chem 1



# BARASAT COLLEGE

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Ref No. BCN/ADD/DEPT\_CHEM/0101/2022

Date: 5<sup>th</sup> January, 2022

## NOTICE

This is to notify that the Department of Chemistry will conduct an Add-on Course on Research Methods in the Natural Science from 13th January to 29<sup>th</sup> January, 2022 on Google Meet from 5. P.M to 7 P.M. Interested students should register for the course to the H.O.D, department of Chemistry within 12<sup>th</sup> January, 2022.

  
Dr. Parthapratim Dasgupta  
M.A, M.Phil, Ph.D  
Principal  
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## Add On Course-1

Course Name: Research Methods in the Natural Sciences

Mode: Online (Google Meet)

Instructor: Dr.Tanmay Malakar

DATE AND TIME - 13-29 JANUARY, 2022, 5.00-7.00 PM

### Syllabus:

Date:	Contents	Time
13/01/22	Philosophy and Ethics	5.00-7.00 pm
14/01/22	Responsible Conduct and Ethics in Research <ul style="list-style-type: none"><li>• Science and Engineering Ethics</li><li>• Scientific Ethics and Integrity in Basic Science</li></ul>	5.00-7.00 pm
15/01/22	Scientific Integrity <ul style="list-style-type: none"><li>• Fostering Integrity in Research</li></ul>	5.00-7.00 pm
16/01/22	Working Responsibly with Research Data <ul style="list-style-type: none"><li>• Developing and communicating responsible data management policies to trainees and colleagues</li><li>• Writing the laboratory notebook</li></ul>	5.00-7.00 pm
17/01/22	Mistakes, Negligence and Plagiarism <ul style="list-style-type: none"><li>• Plagiarism: words and ideas</li><li>• Defining and avoiding plagiarism</li><li>• Retractions in the research literature: misconduct or mistakes?</li></ul>	5.00-7.00 pm
18/01/22	Scientific publications <ul style="list-style-type: none"><li>• Misconduct accounts for the majority of retracted</li><li>• Editorial: Plagiarism is for losers:</li></ul>	5.00-7.00 pm
19/01/22	Data Falsification and Data Manipulation <ul style="list-style-type: none"><li>• Scientific misconduct: truth and consequences</li><li>• Sabotage</li><li>• Scientists behaving badly</li></ul>	5.00-7.00 pm
20/01/22	Determining Authorship and Credit <ul style="list-style-type: none"><li>• Accountability and authorship</li></ul>	5.00-7.00 pm

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	<ul style="list-style-type: none"> <li>• Authorship policies</li> <li>• The New Landscape of Ethics and Integrity in Scholarly Publishing</li> </ul>	
21/01/22	<b>Best Practices in Peer Review</b> <ul style="list-style-type: none"> <li>• Reviewing Peer Review</li> <li>• A quick guide to writing a solid peer review</li> </ul>	5.00-7.00 pm
22/01/22	<b>Advisors, Mentors, and Colleagues</b> <ul style="list-style-type: none"> <li>• Mentoring: some ethical considerations</li> <li>• The perverse effects of competition on scientists' work and relationships</li> <li>• Collaborations with all good intentions</li> </ul>	5.00-7.00 pm
24/01/22	<b>Laboratory Safety, Human Participants and Animals</b> <ul style="list-style-type: none"> <li>• Introduction to the Responsible Conduct of Research</li> </ul>	5.00-7.00 pm
25/01/22	<b>Intellectual Property Rights at a Research University</b> <ul style="list-style-type: none"> <li>• The governance of university knowledge transfer: a critical review of the literature</li> <li>• University research, intellectual property rights and European innovation systems</li> </ul>	5.00-7.00 pm
27/01/22	<b>Identifying and Resolving Conflicts of Interest</b> <ul style="list-style-type: none"> <li>• The impact of conflict of interest on trust in science</li> <li>• Academic-industrial relationships: opportunities and pitfalls</li> </ul>	5.00-7.00 pm
28/01/22	<b>Responsibilities to Respond to Suspected Misconduct</b> <ul style="list-style-type: none"> <li>• Peer ship misconduct in the bud</li> <li>• Responding to research wrongdoing: a user-friendly guide</li> </ul>	5.00-7.00 pm
29/01/22	<b>Research Ethics and the Societal role of Scientists</b> <ul style="list-style-type: none"> <li>• Why must scientists become more ethically sensitive than they used to be?</li> <li>• Ethical relationships between science and society: understanding the social responsibility of scientists</li> </ul>	5.00-7.00 pm

Course Acknowledgement: <https://umich.instructure.com/courses/269556/assignments/syllabus>

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