



**Khatra Adibasi Mahavidyalaya**

Khatra, Bankura, West Bengal

**Department of Chemistry**

**Academic Activities**

**(2023-2024)**

# **Index**

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- 2. Seminar on National Youth Day**
- 3. Student Seminar**
- 4. Career Guidance Webinar**



# Induction Program Report: 2023-24

## Department of Science

### Physics, Chemistry, Mathematics, Economics, and Geography

Academic Year 2023-24

Khatra Adibasi Mahavidyalaya, Khatra Bankura

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## Report of Induction Programme

### *Overview*

The Departments of Chemistry, Physics, Mathematics, Economics, and Geography at Khatra Adibasi Mahavidyalaya jointly organized an induction program for newly admitted students from all Science departments on August 9<sup>th</sup> and 10<sup>th</sup>, 2023, held at the college's Language Laboratory.

The major objective of the programme was to make the students aware of the academic aspects of the course, the rules and regulations of the college and various facilities provided by the college.

At the onset the students were addressed by the principal of the college Dr. Nityananda Patra. The Principal welcomed the students to the institution and gave a brief account of the curricular and co-curricular activities of the college. He also mentioned that students should feel free to contact the Principal whenever they face any problem inside the college campus. Thereafter, IQAC Coordinator of the college and Head of the Department of Physics, Dr. Arindam Chakrabarti addressed the students. He made the students aware about the various wings of the college such as Library, NSS, NCC, and their functioning. He encouraged students to actively participate in various student seminars organized in the college under the aegis of IQAC. He also urged them to take part in sports and cultural activities organized by the college every year. Thereafter, Assistant Professor and Head of the Department of Mathematics, Dr. Rima Barik addressed the students. She introduced other faculty members of the Mathematics Department Dr. Md. Asif Iqbal, Sri Madhab Chandra Nandi and Sri Chandidas Gope to the students. She spoke about the history of Mathematics department of the college, discussed about the NEP prescribed course of Mathematics and assured the students that they will be provided any help that they require during their tenure in this college. Dr. Md. Asif Iqbal, Assistant Professor, Department of Mathematics, discussed about the college ERP, how to log in to it and various ways by which students can get benefits from using college ERP such as obtaining study materials, submission of assignments and submission of college fees. Next, Dr. Kamalika Chakraborty, Assistant Professor and Head of the Department of Economics, Khatra Adibasi Mahavidyalaya addressed the students. She elaborated on the NEP course of Economics, books on Economics available in the college library and urged the students to attend classes regularly and freely ask questions to the teachers to clear their doubts. Dr. Ramakanta Mondal and Dr. Swarup Kumar Maji from Chemistry department discussed about the Chemistry syllabus as prescribed by NEP and the laboratory facilities in the Chemistry department. Next, Dr. Arindam Chakrabarti introduced rest of the faculty members from Physics department, Chemistry department and Geography department to the students. Queries

of the students were next attended by the faculty members of all the department. Students of all the science department were next taken for a tour of the college campus that included visit to the college library, college office, classrooms, laboratories, common rooms, gymnasium etc.

The Induction Programme was successful in providing insights into the institution's history, mission, values, and overall structure.

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### *Schedule and Activities*

#### **August 9, 2023: Welcome and Orientation**

- **Time:** 10:00 AM - 12:00 PM
- **Venue:** Hall 2
- **Activities:**
  - Introduction by the Principal
  - Overview of the College and Department
  - Dissections about different Scholarship for the students
  - Address by Heads of Departments
  - Interactive session with senior students

#### **August 9, 2023: Academic Regulations and Campus Life**

- **Time:** 12:00 PM - 1:00 PM
- **Venue:** Hall 2
- **Activities:**
  - Presentation on Academic Regulations and Examination Policies
  - Overview of Campus Life and Student Services
  - Introduction to Student Clubs and Societies

#### **August 10, 2023: Departmental Briefings**

- **Time:** 10:00 AM - 11:00 PM
- **Venue:** Respective Departmental Classrooms
- **Activities:**
  - Detailed briefing on department-specific academic programs
  - Meeting with faculty members
  - Q&A sessions

#### **August 10, 2023: Career Guidance and Alumni Interaction**

- **Time:** 11:00 AM - 12:00 PM
- **Venue:** Conference Hall
- **Activities:**
  - Career Counseling Sessions
  - Talks by Alumni on Career Paths and Opportunities
  - Networking with Alumni

#### **August 10, 2023: Lab Visit, Library Visit, and Campus Tour**

- **Time:** 12:00 PM onwards
- **Venue:** Language Lab, Khatra Adibasi Mahavidyalaya
- **Activities:**
  - Lab Visit: Introduction to Laboratory Facilities and Equipment
  - Library Visit: Orientation on Library Resources and Services
  - Campus Tour: Guided Tour of Campus Facilities, including Hostels, Canteen, Sports Complex, and Administrative Offices
  - Training on Basic Laboratory Safety and Protocols

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## *Conclusion*

The induction program successfully introduced the freshers to the vibrant academic and extracurricular life at Khatra Adibasi Mahavidyalaya. The diverse range of activities ensured that the students were well-oriented and felt welcomed into the college community. Feedback from the participants indicated a high level of satisfaction and enthusiasm for the upcoming academic year.



# Khatra Adibasi Mahavidyalaya

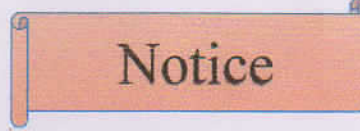
P.O. - Khatra, Dist. - Bankura, West Bengal, Pin - 722140

Phone: 03243-299972 / 8900057220 E-mail: kacollege@rediffmail.com/khatraacollege@gmail.com

Website: www.kamv.ac.in

NAAC Accredited B+ (Second Cycle)

Date : ...08.08.2023...



As per the mandate by UGC, College is conducting Induction Programme from 1<sup>st</sup> August 2023 for all the fresher students (admitted in the academic year 2023-24) of various departments. It is hereby informed to all the freshers those have opted Chemistry, Physics, Mathematics, Economics and Geography as MAJOR, to mandatorily attend the Induction Programme going to be held on 09.08.2023 (Wednesday) from 11:00 am onwards; at the Language Laboratory. A detailed schedule of the same will be provided on that day.

Principal

Khatra Adibasi Mahavidyalaya

**Principal**

Khatra Adibasi Mahavidyalaya

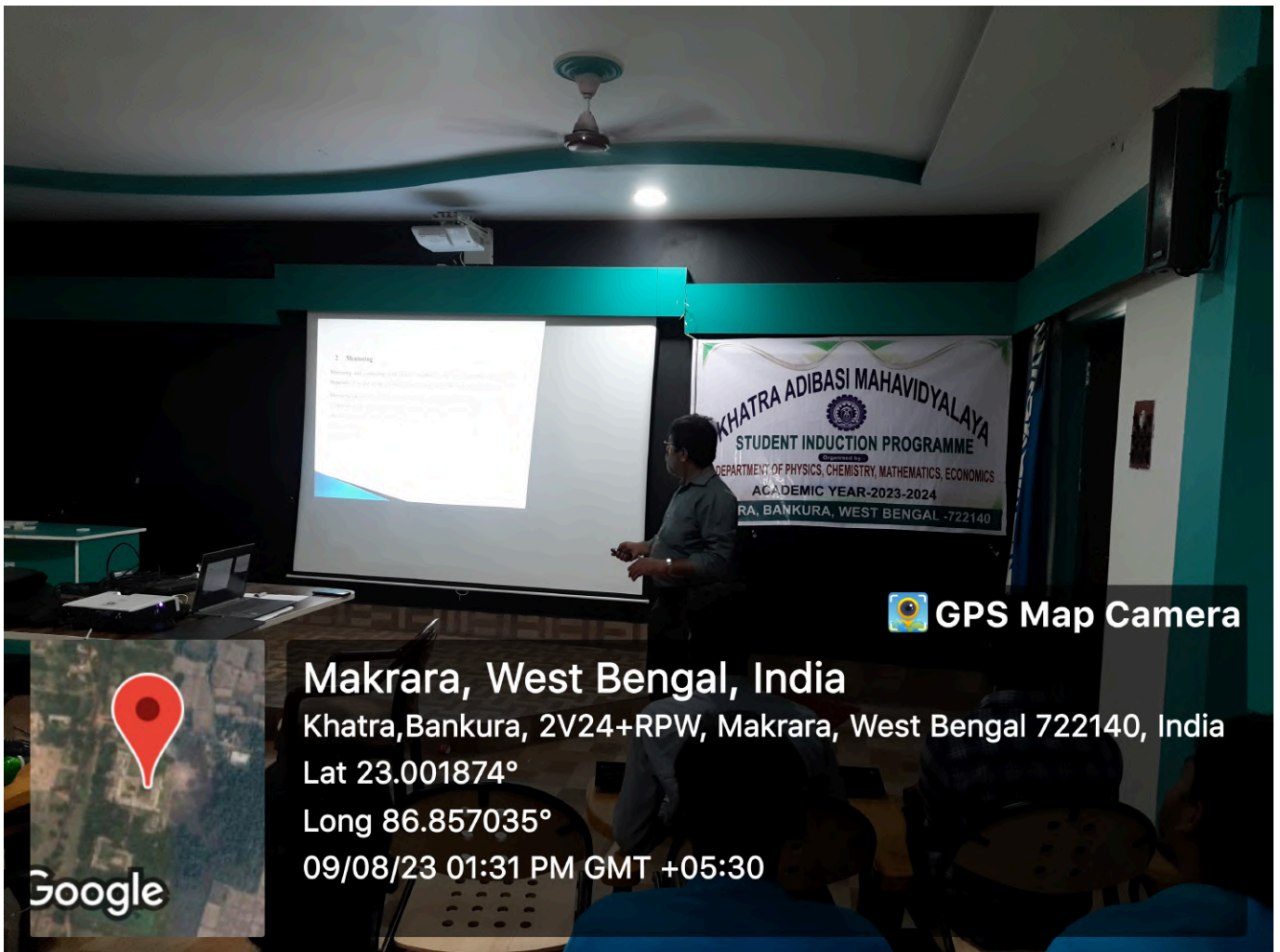
Khatra :: Bankura



*Some snapshots of the Induction Programme conducted by all the Science Department in 2023-2024*



**Makrara, West Bengal, India**  
2V24+JR7, Makrara, Baragar, West Bengal 722140, India  
Lat 23.00182° Long 86.857°  
09/08/23 01:31 PM GMT +05:30



**Makrara, West Bengal, India**  
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## Library Visit

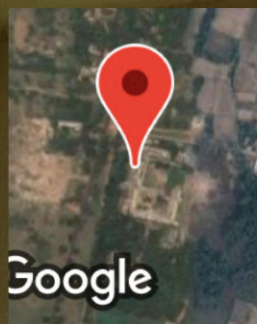




# Chemistry Lab Visit



 GPS Map Camera

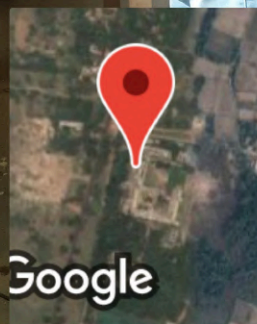


Google

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# Physics Lab Visit



# Seminar on National Youth Day

under

## Memorandum of Understanding (MoU)



**Date:** 12<sup>th</sup> January 2024

**Place:** Barrackpore Rastraguru Surendranath College

**Introduction:** National Youth Day, celebrated on the birth anniversary of Swami Vivekananda, serves as a platform to encourage the youth to contribute towards the development of the nation. Barrackpore Rastraguru Surendranath College and Khatra Adibasi Mahavidyalaya joined hands in a collaborative effort to organize a seminar on this occasion, adhering to the Memorandum of Understanding (MoU) between the two institutions. The event aimed to foster intellectual exchange and promote a sense of unity among the students.

### **Lecture by Dr. Swarup Kumar Maji:**

The highlight of the seminar was a lecture delivered by Dr. Swarup Kumar Maji, a distinguished faculty member from Barrackpore Rastraguru Surendranath College. Dr. Maji's expertise in the field of Chemistry brought a unique perspective to the event.

### **Topic: "Chemistry and Its Applications in Everyday Life"**

Dr. Maji's lecture explored the practical applications of chemistry in various aspects of daily life, emphasizing the relevance of the subject beyond the classroom.

### **Engagement and Interaction:**

The lecture was followed by an interactive session, allowing students from both institutions to engage with Dr. Maji, ask questions, and gain insights into the subject matter.

### **Panel Discussions and Student Presentations:**

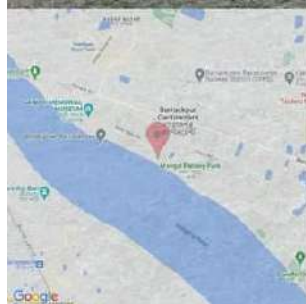
The seminar also featured panel discussions on relevant youth-centric topics and presentations by students from both institutions. This provided a platform for the exchange of ideas and perspectives among the participants.

**Outcomes:** The collaborative seminar on National Youth Day between Barrackpore Rastraguru Surendranath College and Khatra Adibasi Mahavidyalaya proved to be a successful and enriching event. The implementation of the MoU strengthened the ties between the two institutions, fostering an atmosphere of mutual learning and collaboration. Dr. Swarup Kumar Maji's lecture on Chemistry added an academic highlight to the event, contributing to the intellectual growth of the participating students. The success of this seminar sets a positive precedent for future collaborative initiatives between the institutions, ensuring a continuous exchange of knowledge and ideas.

This report is a summary of the collaborative seminar and can be expanded further based on specific details and outcomes of the event.



# Geo-Tagged Image



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West Bengal

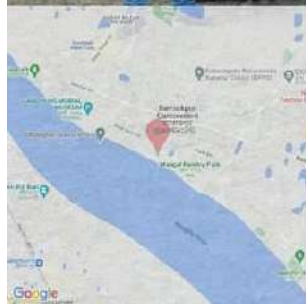
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West Bengal

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Lecture by Dr. Swarup Kumar Maji





## Departmental Student Seminar Report

Organized by the Department of Chemistry and Physics, Khatra Adibasi Mahavidyalaya

Date: 25<sup>th</sup> June 2023

The Department of Chemistry and Physics at Khatra Adibasi Mahavidyalaya hosted a student seminar on June 25, 2023. This event provided a platform for students to showcase their knowledge and research in various branches of chemistry and related fields. The seminar included several informative presentations, each focusing on different aspects of chemical science.

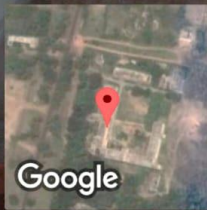
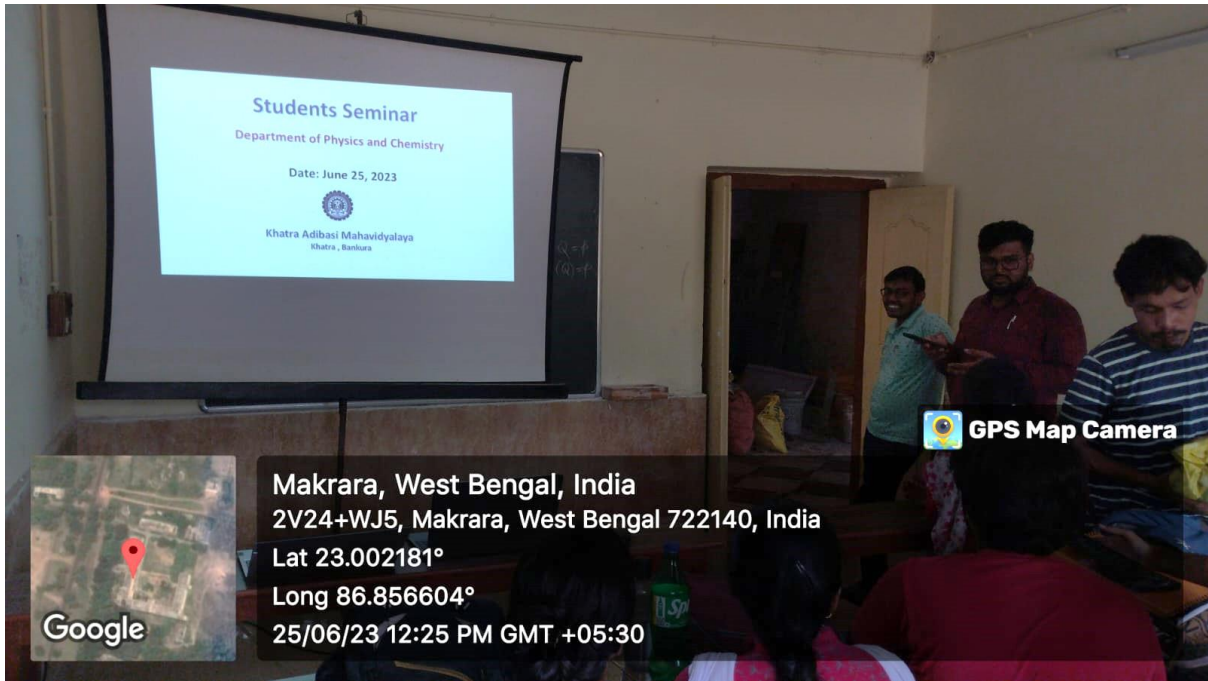
### Presentation Topics and Speakers:

1. **Aromatic Hydrocarbon** by Manidipa Singha Mahapatra (Sem-IV)
2. **Protein Conformational Dynamics** by Supriyo Mandal (Sem-IV)
3. **Role of Metals in Biological Systems** by Subhajit Ray (Sem-IV)
4. **Chemistry and Nanomaterials** by Rija Dey (Sem-II)

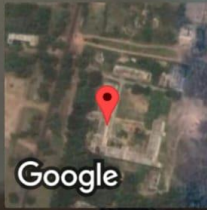
### Conclusion

The student seminar was a resounding success, providing an excellent opportunity for students to present their research and enhance their understanding of advanced topics in chemistry. The presentations were well-received by the audience, comprising faculty members, students, and invited guests. The event underscored the department's commitment to fostering a vibrant academic environment and encouraging student participation in scholarly activities.





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**Elements in the living systems**

- Trace elements**  
The elements that are present in trace amount ranging from  $10^4$  to  $10^5$  g/mole in 75 kg adult human body.  
Elements: Mo, Mn, Fe, Co, Cu, Zn, I
- Ultra-trace elements**  
The elements that are present in trace amount ranging lower than  $10^4$  g/mole in 75 kg adult human body.  
Elements: Pb, Si, Sn, V, W, Br, Se

(P)∩(Q)=F  
P∩C(Q)=F




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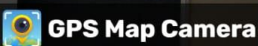
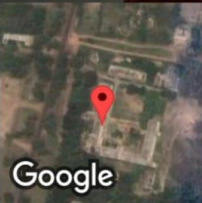
Note that Hückel's rule refers to the number of  $\pi$  electrons, not the number of atoms in a particular ring.

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**Table 17.2** The Number of  $\pi$  Electrons That Satisfy Hückel's Rule

$n$	$4n + 2$
0	2
1	6
2	10
3	14
4, etc.	18

(P)∩(Q)=F  
P∩C(Q)=F

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Bankura University

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**DEPARTMENT OF MATHEMATICS, PHYSICS &  
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ORGANIZE ONE DAY WEBINAR ON

**"CAREER OPPORTUNITY GUIDANCE AFTER  
GRADUATION AND POST GRADUATION"**

IN ASSOCIATION WITH

**INSTITUTE FOR ADVANCED STUDIES, PUNE**

**Organizing Committee**

Patron

**Dr. Nityananda Patra**

Chairperson

**Dr. Arindam Chakrabarti**

Convener

**Dr. Swarup Kumar Majhi  
Dr. Rima Barik**

Co-ordinator

**Dr. MD. Asif Ikbal**



**Rajiv Abhyankar**

Date & Time



**19th March 2024**



**11:00 AM**

Registration Link



**<https://forms.gle/ZfPPQ79NUYta46LM9>**



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## IIT JAM Biotechnology

▶ JAM Scores are used for admission to various programmes

- ★ M.Sc.
- ★ M.Sc. (Tech)
- ★ M.S. Research
- ★ M.Sc.-M.Tech. Dual Degree
- ★ Joint M.Sc. - Ph.D.
- ★ M.Sc. - Ph.D. Dual Degree



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## IfAS Eligibility Requirements (ERs) & Minimum Educational Qualifications (MEQs)

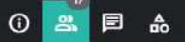
- ▶ Candidates who have successfully completed an undergraduate degree or currently studying in the **Final Year** of undergraduate are eligible for admission through **JAM Examination**.
- ▶ Proof of having passed the Qualifying Degree with the Minimum Educational Qualifications (MEQs) as specified by the Admitting Institute should be submitted within the timeline provided by the respective admitting Institute.
- ▶ At the time of admission, all admitted candidates may have to submit a **Physiofitness certificate** from a registered medical practitioner in the prescribed form to the Admitting Institute.
- ▶ At the time of admission, the admitted candidates may also have to undergo a **Physiofitness Test** by a medical board constituted by the Admitting Institute.
- ▶ In case candidates are not found **Physically fit** to pursue their chosen program, admission is liable to be cancelled.

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## IIT JAM Exam Pattern BIOTECHNOLOGY


Sections	Section A	Section B	Section C
Number of Questions	30	10	20
Marks	10 Questions of 1 mark each & 20 Questions of 2 marks each	2 Marks each Question	10 ques. of 1 mark each & 10 ques. of 2 marks each.
Negative Marking	For 1 mark ques - 1/3 marks For 2 marks ques - 2/3 marks	No Negative Marking	No Negative Mark
Types of Question	MCQ MSQ	NAT	


Total Time: 3 Hrs.      Total Questions: 60


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Rai Ray


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## Syllabus for IIT JAM Biotechnology Biology (10+2+3) Level

- ▶ Cell Biology
- ▶ Biochemistry
- ▶ Genetics
- ▶ Molecular Biology
- ▶ Evolution
- ▶ Microbiology
- ▶ Plant Biology
- ▶ Animal Biology
- ▶ Ecology
- ▶ Biotechnology
- ▶ Biochemical techniques
- ▶ Molecular biology techniques



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



## Chemistry (10+2+3) Level

- ▶ **Structure and properties of Atoms:** Bohr's theory; Periodicity in properties.
- ▶ **Bonding in molecules:** Chemical bonding; Complex formation; Physical and chemical basis of molecular interactions.
- ▶ **Chemical kinetics, thermodynamics, and equilibrium:** Chemical equilibrium; Chemical thermodynamics (first and second law); and Chemical kinetics (zero and first order reactions).
- ▶ **Physical and chemical properties of compounds:** Chemical catalysis; Acid-base concepts; Concepts of pH and buffer; Conjugative effects and resonance; Inductive effects; Electromeric effects; Photochemistry; and Electrochemistry.
- ▶ **Chemistry of organic compounds:** Hydrocarbons; Alkyl halides; Alcohols; Aldehydes; Ketones; Carboxylic acids; Amines and their derivatives; Aromatic hydrocarbons, halides, nitro and amino compounds, phenols, diazonium salts, carboxylic and sulphonic acids; Soaps and detergents; Stereoisomerism of carbon compounds.
- ▶ **Instrumental techniques:** Spectroscopy: fundamentals of molecular spectroscopy, absorption spectroscopy, UV-Vis, IR and 1-D proton NMR spectroscopy, basics of chromatography. Basics of calorimetry; Basic concepts of crystallography.



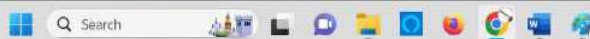
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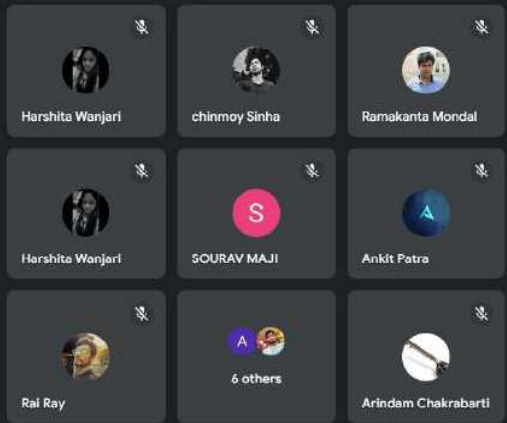
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## IIT JAM Biotechnology: Biology Paper Analysis

Units	BIOLOGY										
	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Cell Biology	3	3	5	2	2	2	3	3	4	8	10
Biochemistry	1	5	5	5	7	6	3	6	6	12	8
Microbiology	3	8	2	8	3	5	2	2	2	3	5
Animal Physiology	3	1	3	4	1	5	2	3	1	7	2
Taxonomy	1	-	2	2	-	1	-	-	-	-	-
Ecology	2	3	1	2	-	1	2	1	-	-	-
Evolution	4	4	2	-	1	-	-	-	1	-	1
Reco. DNA & Tech.	4	5	3	1	5	-	-	3	-	-	-
Genetics	3	5	-	2	2	1	1	2	-	-	-

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Participant list:

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## IIT JAM Biotechnology: Chemistry Paper Analysis

Units	CHEMISTRY				
	2023	2022	2021	2020	2019
Funda. of PC	0	0	4	0	0
Gaseous State	0	0	0	0	1
Chemical Thermo.	1	0	0	2	0
Electrochemistry	0	0	0	0	0
Chemical Kinetics	1	0	0	0	0
Chemical Equi.& Buffers	0	0	0	0	0
Molecular Spectro.	0	0	0	0	0
Nuclear Chemistry	0	0	0	0	0
Photochemistry	0	0	0	0	1
Analy. & Environ. Chem.	0	0	1	0	0
Fundamentals of IC	1	0	1	0	0
Periodicity	2	0	0	0	0

Units	CHEMISTRY				
	2023	2022	2021	2020	2019
Chemical Bonding	1	0	0	0	1
Main Group Elements	0	0	0	0	1
Trans. Ele. & Coordination	0	0	0	1	1
Organometallic Chemistry	0	0	0	0	1
Inner Transition / f-Block	0	0	0	0	0
Bioinorganic	0	0	0	0	0
DDC & Aromaticity	2	1	1	0	0
Stereochemistry	1	0	0	0	0
Infer., Mech. & Name Rtn	0	2	0	0	0
Organic Reagents	0	0	0	0	0
Organic Spectroscopy	3	1	0	0	0
Polymer Chemistry & Bio.	0	0	0	0	0

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Rai Ray

7 others

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**Strategy For Secure Rank in Top 100**

- PART A**: Aim For at Least **40-45 Out of 50 Marks.**
- PART B**: Aim For at Least **14-16 Out of 20 Marks.**
- PART C**: Aim For at Least **20-24 Out of 30 Marks.**

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## Important Tips For Exam

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### IfAS List of IIT's

 IIT Bhubaneswar	 IIT Bombay	 IIT Delhi	 IIT (ISM) Dhanbad	 IIT Gandhinagar	 IIT Guwahati
 IIT Hyderabad	 IIT Indore	 IIT Jammu	 IIT Jodhpur	 IIT Kanpur	 IIT Kharagpur
 IIT Mandi	 IIT Palakkad	 IIT Patna	 IIT Roorkee	 IIT Ropar	 IIT (BHU) Varanasi

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# GAT-B: Syllabus

**Section A:** Syllabus for Section A is of 10+2 Level in the Subjects of Physics, Chemistry, Mathematics & Biology.  
**Section B:** Graduate Level

- ▶ Biomolecules
- ▶ Viruses
- ▶ Prokaryotic and eukaryotic cell structure
- ▶ Molecular structure of genes & chromosomes
- ▶ Principles of microscopy
- ▶ History of Immunology
- ▶ Major Bioinformatics Resources & Search Tools
- ▶ Restriction and modification enzymes
- ▶ Totipotency
- ▶ Animal cell culture
- ▶ Engineering principle of bioengineering
- ▶ Tissue culture and it's application
- ▶ Chemical Engineering and its application to biological system



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## GAT-B Cut-off

Category	2023	2022	2021	2020
General	127.50	112.00	121.50	123.50
EWS	84.50	65.00	121.50	123.50
OBC-NCL	88.00	71.00	103.50	100.50
SC	65.00	60.00	67.50	60.00
ST	60.50	60.00	60.00	60.00
PWD	64.00	60.00	60.00	60.00





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**STRATEGY FOR SECURE SCORE 200+**

- 1 Understand The Exam Format
- 2 Review Basic Concepts
- 3 PYQ's Practice Regularly
- 4 Time Management
- 5 Stay Updated
- 6 Conceptual Clarity
- 7 Use Reliable Study Material
- 8 Mock Tests
- 9 Revise Regularly
- 10 Stay Calm

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## What is CUET PG?

- ▶ The Common University Entrance Test-2024 has been introduced for admission into various PG Programmes in Central & State Universities/ Institutions & participating Deemed/ Private Universities/Institutions for academic Session 2024-25.
- ▶ The Common University Entrance Test (CUET) will provide a common platform & equal opportunities to candidates across the country, especially those from rural & other remote areas & help establish better connections with the Universities.
- ▶ A single examination will enable the Candidates to cover a wide outrea... be part of the admissions process to various participating Universities/ Inst...

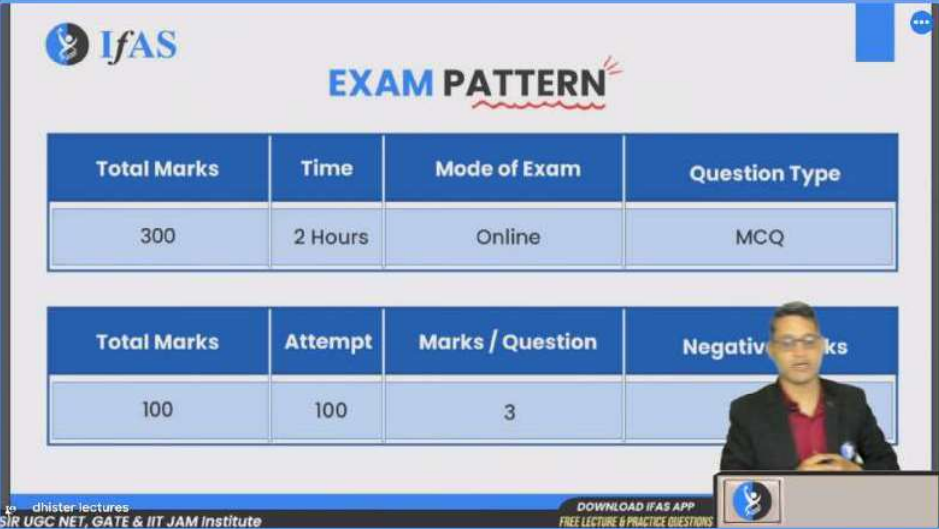


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**IfAS EXAM PATTERN**

Total Marks	Time	Mode of Exam	Question Type
300	2 Hours	Online	MCQ

Total Marks	Attempt	Marks / Question	Negative Marks
100	100	3	

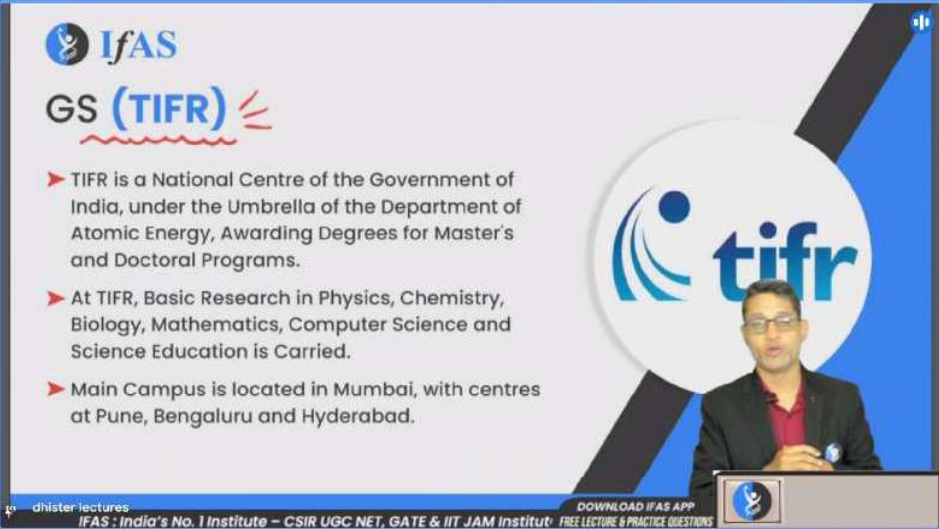
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- chinmoy Sinha
- Ramakanta Mondal
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- Arindam Chakrabarti

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**GS (TIFR)**

- ▶ TIFR is a National Centre of the Government of India, under the Umbrella of the Department of Atomic Energy, Awarding Degrees for Master's and Doctoral Programs.
- ▶ At TIFR, Basic Research in Physics, Chemistry, Biology, Mathematics, Computer Science and Science Education is Carried.
- ▶ Main Campus is located in Mumbai, with centres at Pune, Bengaluru and Hyderabad.

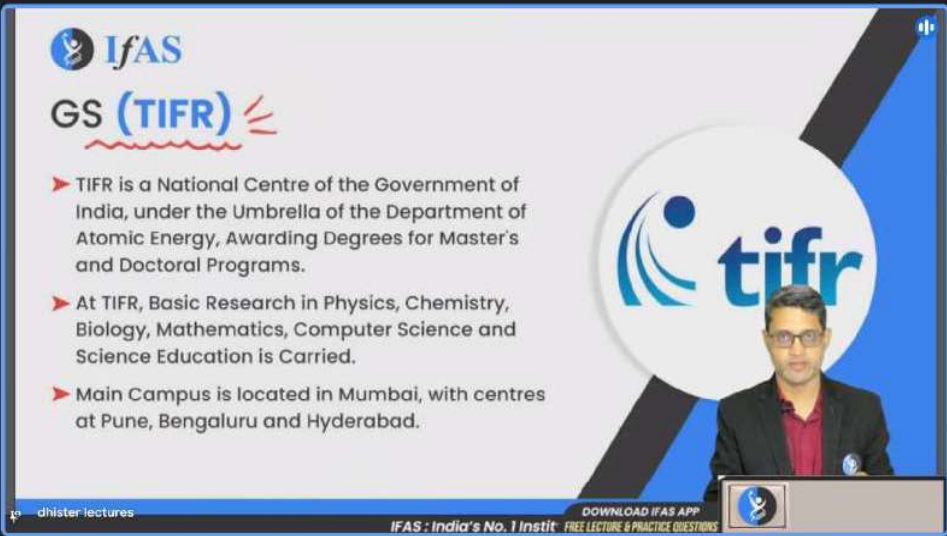
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## TIFR Exam Pattern


SECTIONS	SECTION A	SECTION B	SECTION C	SECTION D
No. of Questions	15	15	15	15
Types of Question	MCQ	MCQ	MCQ	MCQ
Marks	-	-	-	-
Negative Marking	-	-	-	-
Total Marks	-	-	-	-


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## TIFR Syllabus

- ▶ TIFR Syllabus designed for to crack the examination & obtain better rank in TIFR entrance Exam, Comprises 4 sections, Biology, Physics, Mathematics and Chemistry.
- ▶ Candidates by now can check the subject wise Detailed TIFR syllabus
- ▶ The test will be extremely basic and cover topics in MATHEMATICS, PHYSICS, CHEMISTRY & BIOLOGY.

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## Typical Course Duration:

Programme	Duration
Ph.D. Programme	5 Years
Integrated M.Sc. Ph.D. Programme	6 years
M.Sc. Programme	Dependent on institution

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**IfAS Admission Procedure GS**

- ▶ The admissions procedure (in all subjects, except Science Education) consists of an online test at one of the several nationwide centres, followed by interviews/ written test II of shortlisted candidates.
- ▶ Shortlisted candidates will be called for interviews to be held during April-May. Exact dates would be announced later.
- ▶ Results of the entrance examination will be announced on end-February, and students shortlisted for interview will be intimated by email.

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**IfAS Fellowship**

- ▶ For Ph.D. and I-Ph.D. programmes, the academic year starts from August 1, every year. The academic year for M.Sc. programme begins from July 1, every year.
- ▶ Ph.D. Students receive a monthly fellowship of Rs 31,000/- enhanced to Rs 35,000/- after registration.
- ▶ I-Ph.D. Students receive a monthly fellowship of Rs 21,000/- for the first year. At the end of the first year, upon satisfactory performance, the fellowship is enhanced to Rs 31,000/- per month (further raised to Rs 35,000/- after registration for Ph.D.).
- ▶ M.Sc. (Biology) Students receive a monthly fellowship of Rs 16,000/- (+HRA as applicable).
- ▶ Accommodation is provided to Ph.D. and I-Ph.D. students only, at a nominal cost.

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## IIT JAM Chemistry

▶ JAM Scores are used for admission to various programmes

- ★ M.Sc.
- ★ M.Sc. (Tech)
- ★ M.S. Research
- ★ M.Sc.-M.Tech. Dual Degree
- ★ Joint M.Sc. - Ph.D.
- ★ M.Sc. - Ph.D. Dual Degree



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## Syllabus for IIT JAM Chemistry

### Organic Chemistry

- Basic Concepts in Organic Chemistry and Stereochemistry
- Organic Reaction Mechanism and Synthetic Applications
- Qualitative Organic Analysis
- Natural Products Chemistry
- Aromatic and Heterocyclic Chemistry

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### IfAS Inorganic Chemistry Paper Analysis

Units	2023	2022	2021	2020	2019
Periodicity	0	2	1	0	1
Chemical Bonding	4	3	2	6	2
Main group Elements	5	5	2	8	2
Transition metals	11	13	13	10	
Organo metallic compounds	6	5	7	6	
Bio-inorganic chemistry	5	2	2	0	
Instrumental Methods of Analysis	0	1	0	0	
Analytical Chemistry	0	1	0	0	

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## Syllabus for CUET Physical Chemistry

- Gaseous State
- Liquid State
- Ionic Equilibria
- Solid State
- Thermodynamics
- Thermochemistry
- Second Law
- Third law of Thermodynamics
- Free Energy Functions
- Partial Molar Quantities
- Dilute Solutions or Colligative Properties
- Molecular Spectroscopy & Photochemistry
- Chemical Kinetics Catalysis
- Phase Equilibria
- Introduction to Quantum Chem
- Conductance
- Electrochemistry

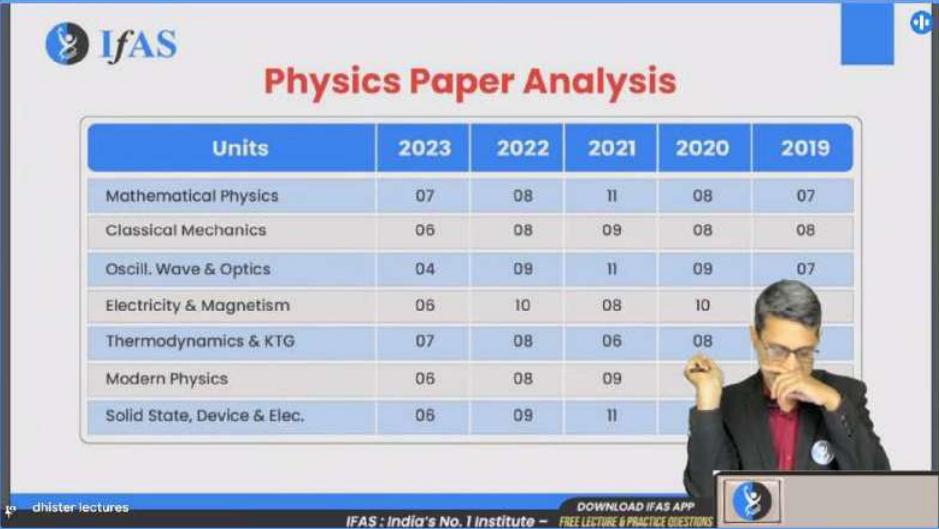


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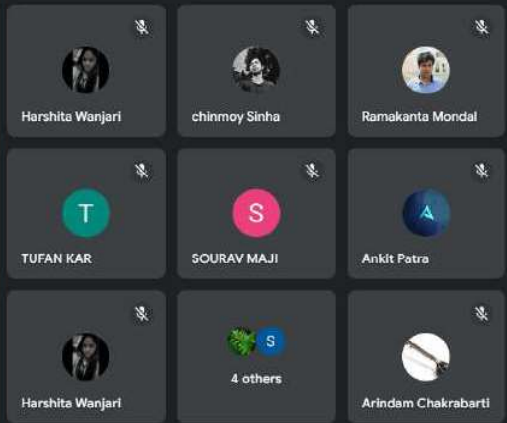
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## Physics Paper Analysis

Units	2023	2022	2021	2020	2019
Mathematical Physics	07	08	11	08	07
Classical Mechanics	06	08	09	08	08
Oscill. Wave & Optics	04	09	11	09	07
Electricity & Magnetism	06	10	08	10	
Thermodynamics & KTG	07	08	06	08	
Modern Physics	06	08	09		
Solid State, Device & Elec.	06	09	11		

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**IfAS Eligibility**

**The Eligibility Criteria for the different courses are:**

- Ph.D:** Candidates must have completed M.Sc. (Physics) / B.Tech. & B.E. (Engineering Physics) B.E. / B.Tech/ M.Tech. or equivalent science/engineering/medical degree with a minimum of four years of university training.
- Integrated M.Sc. Ph.D:** Candidates must have completed B.Sc./ B.E./ B.Tech/ B.Pharm or equivalent Science/Engineering/Medical Degree / M.Sc. (other Than Physics)/ M.Tech/ M. Pharm/ MBBS or equivalent science/ engineering/ medical Masters degree.
- Age Limit:** There is no upper or lower age limit for the examination.

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## Program offered by TIFR

Subject	Name of The Programme	Offered at
Physics	Ph.D. & Integrated M.Sc.-Ph.D. Programmes	<ul style="list-style-type: none"> <li>· Dept. of Astronomy &amp; Astrophysics</li> <li>· Dept. of CMP &amp; Materials Science</li> <li>· Dept. of High Energy Physics</li> <li>· Dept. of Nuclear &amp; Atomic Physics</li> <li>· Dept. of Theoretical Physics</li> <li>· NCRA, Pune</li> <li>· TIFR-Hyderabad</li> <li>· ISCTS</li> </ul>



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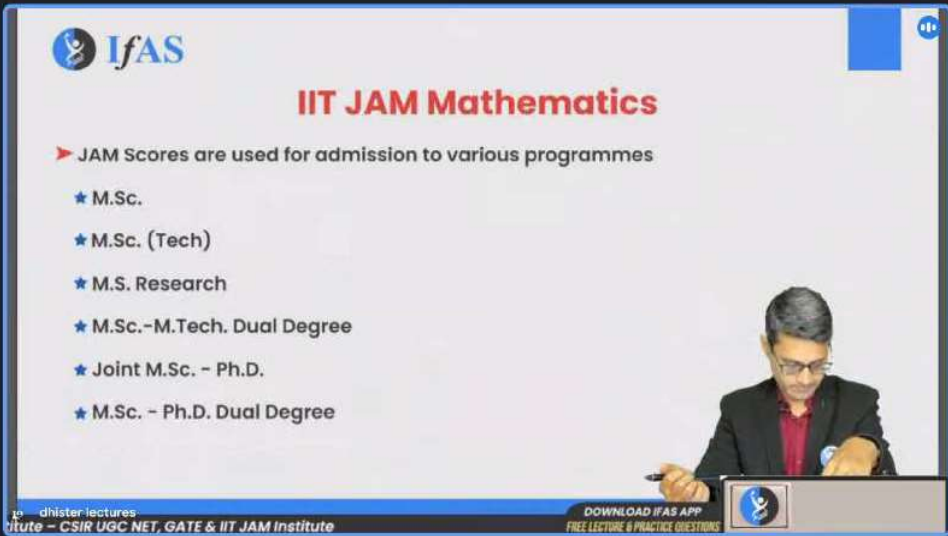









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## IIT JAM Mathematics

► JAM Scores are used for admission to various programmes

- ★ M.Sc.
- ★ M.Sc. (Tech)
- ★ M.S. Research
- ★ M.Sc.-M.Tech. Dual Degree
- ★ Joint M.Sc. - Ph.D.
- ★ M.Sc. - Ph.D. Dual Degree

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- chinnmoy Sinha
- Ramakanta Mo...
- SOURAV MAJI
- Ankit Patra
- Suman Mandal
- 5 others
- Arindam Chkr...

In-call messages

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You 12:06 PM  
Metaphysics and Physics are different.

Sukanta Patra 12:09 PM  
Can mathematics students give tfr exam ?

chinnmoy Sinha 12:09 PM  
How many attempts are there in IIT JAM Mathematics ??

You 12:14 PM  
can suggest some open educational resources (OER) for this kind of higher studies? for the students.

You 12:16 PM  
suggestion from IFAS Z library, Youtube.....Thank you

Send a message

12:19 PM | aot-mfmz-foj

- \* Meet
- \* Meeting code: aot-mfmz-foj
- \* Created on 2024-03-19 10:57:01
- \* Ended on 2024-03-19 12:26:29

Full Name	First Seen	Time in Call
Ajoy Mahata	19-03-2024 11:04	00:51:36
Ankit Patra	19-03-2024 11:04	01:16:28
Arindam Chakrabarti	19-03-2024 10:57	01:29:27
Dr. Rima Barik	19-03-2024 11:16	00:18:39
Harshita Wanjari	19-03-2024 11:04	02:50:33
Madhab Nandi	19-03-2024 11:08	00:25:10
Manidipa Singha mahapatra	19-03-2024 11:05	00:51:49
Parinita Patra	19-03-2024 11:12	00:20:14
Rai Ray	19-03-2024 11:05	00:45:25
Rakesh Pain	19-03-2024 11:04	01:21:21
Ramakanta Mondal	19-03-2024 11:04	01:21:59
SOURAV MAJI	19-03-2024 11:05	01:20:40
Shilpa Patra	19-03-2024 11:11	00:21:44
Sirjan H.	19-03-2024 11:04	01:21:13
Sukanta Patra	19-03-2024 11:04	01:21:26
Suman Mandal	19-03-2024 11:06	01:02:09
TUFAN KAR	19-03-2024 11:05	01:20:24
chinmoy Sinha	19-03-2024 11:04	01:21:14
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## Webinar outcome:

Participating in a webinar focused on the future after graduation in science can be highly beneficial. Here are some potential outcomes and benefits:

1. **Insight into Career Paths:** Gain a better understanding of the various career options available in the field of science. This can include traditional roles in research and academia, as well as emerging fields like data science, biotechnology, and environmental science.
2. **Skill Development:** Learn about the skills that are in demand in the current job market. This can help you focus on developing competencies that will make you more competitive.
3. **Graduate Education Opportunities:** Learn about options for further education, such as master's programs, PhDs, and certifications. This can help you decide if pursuing higher education aligns with your career goals.
4. **Career Transition Advice:** If you are considering transitioning to a different field within science or a related industry, the webinar has shown offer guidance on how to make that move successfully.
5. **Personal Development:** Gain insights into balancing professional growth with personal well-being. This can include managing stress, finding work-life balance, and pursuing continuous learning.