



Bankura University

KHATRA ADIBASI MAHAVIDYALAYA

Khatra, Bankura, PIN: 722 140

**DEPARTMENT OF MATHEMATICS, PHYSICS &
CHEMISTRY IN ASSOCIATION WITH IQAC**

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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Subject

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



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 Shilpa Patra	 11 others	 Arindam Chakrabarti

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IfAS

JAM is an all India admission test conducted jointly by The IIT's & IISc Since, 2004.

The National Board for Higher Mathematics (NBHM) is a government organization that offers scholarships to students pursuing a research career in mathematics.

TOP 4 National Level M.Sc. Entrance

- IIT JAM
- TIFR
- NBHM
- CUET (PG)

The Institute runs a graduate program leading to the award of M.Sc., PhD, Integrated M.Sc.-PhD degree in certain Subjects.

The CUET PG is conducted to various PG program universities.


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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.

Arindam Chakrabarti

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Important Note About Qualification IIT JAM

- ▶ Qualifying in JAM does **not guarantee** admission to postgraduate programmes or any Scholarship/Financial assistance.
- ▶ JAM Score is also likely to be used by **IISc Bengaluru, IISERs, IIPe, JNCASR, and CFTIs such as NITs, IIST Shibpur, SLIET, DIAT and CCMN.**
- ▶ JAM Scores will be used for admission to over 2000 seats for **IISc** & counselling through **AI**.
- ▶ JAM Examination will be conducted in around **100 Cities** in India.
- ▶ A candidate can **appear in either ONE or TWO Test Paper(s)**. However, a candidate can appear in two Test Papers only if they are not scheduled in the same session.



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JAM Institute

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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 Marking
Types of Question	MCQ MSQ	NAT	


Total Time: 3 Hrs. Total Questions: 60


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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; Stereochemistry 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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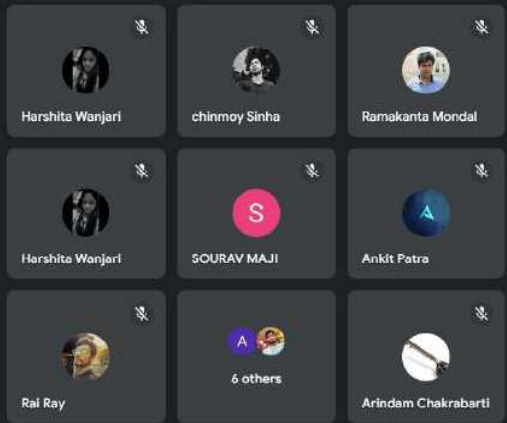
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IIT JAM Biotechnology: Biology Paper Analysis

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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chinmoy Sinha




Ramakanta Mondal




Harshita Wanjari




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Ankit Patra



Rai Ray



6 others



Arindam Chakrabarti

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IIT JAM Biotechnology: Chemistry Paper Analysis

Units	CHEMISTRY				
	2023	2022	2021	2020	2018
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	2018
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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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

- 01 Concise or Directional study
- 02 Important Topics
- 03 PVQ's & Practice Questions
- 04 Time Management
- 05 Rectify Mistakes & work on them
- 06 AIM High
- 07 Focus is Everything

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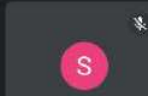




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List of IIT's

 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 Patna	 IIT Roorkee	 IIT Ropar	 IIT (BHU) Varanasi	 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



Harshita Wanjari

chinmoy Sinha

Ramakanta Mondal

Manidipa Singha m...

SOURAV MAJI

Ankit Patra

Rai Ray

7 others

Arindam Chakrabarti

11:47 AM | aot-mfmz-foj

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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...

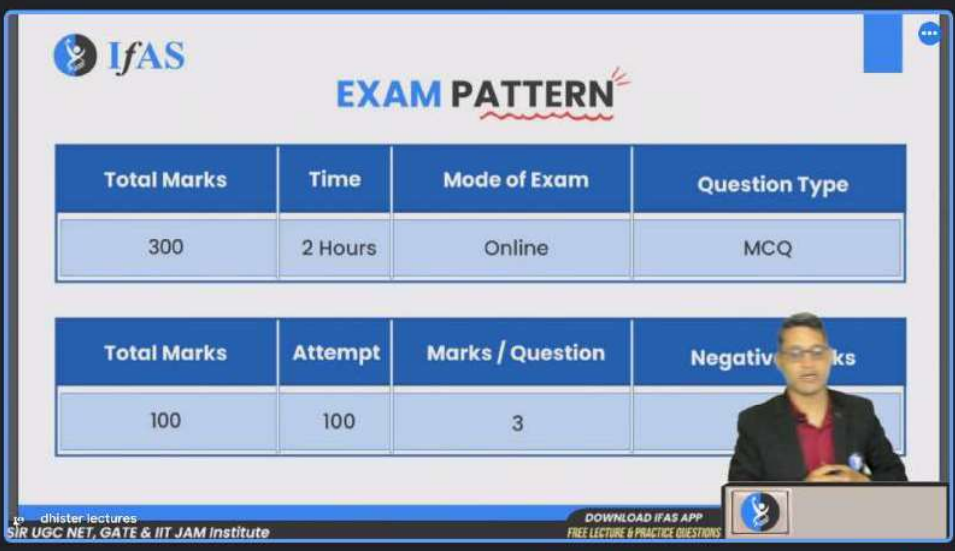


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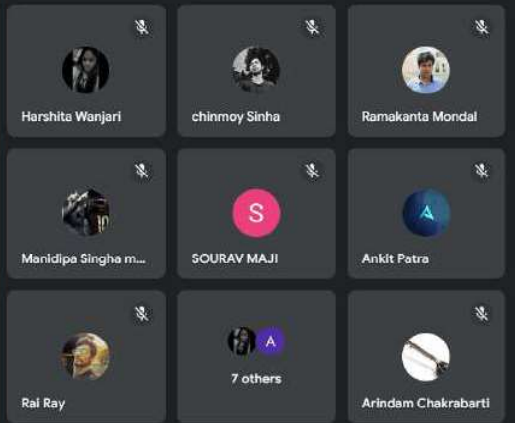
IfAS EXAM PATTERN

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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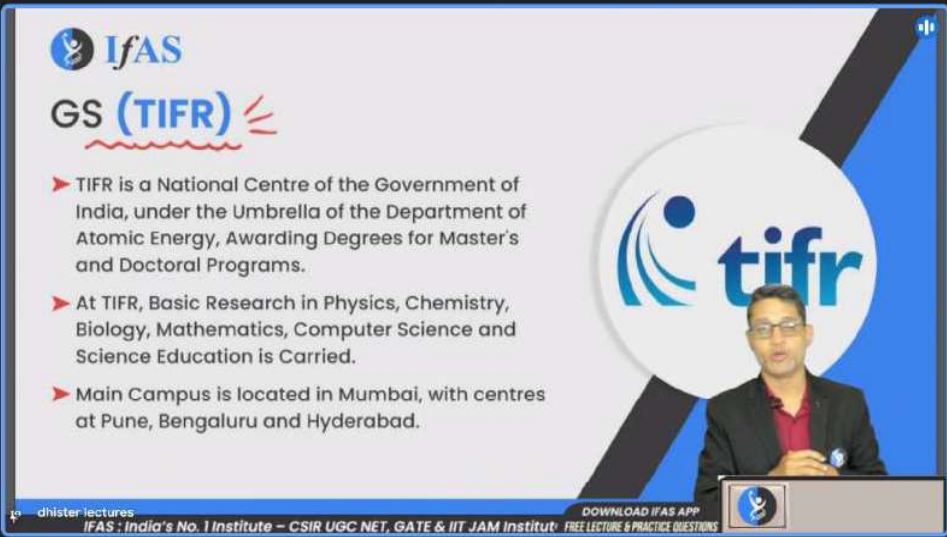
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GS (TIFR)

- ▶ 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.

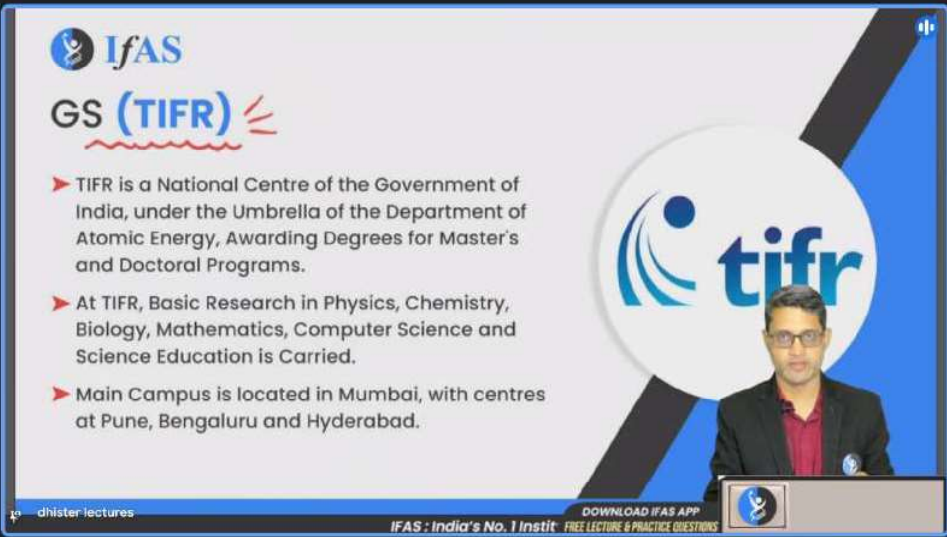
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- ▶ TIFR is a National Centre of the Government of India, under the Umbrella of the Department of Atomic Energy, Awarding Degrees for Master's and Doctoral Programs.
- ▶ At TIFR, Basic Research in Physics, Chemistry, Biology, Mathematics, Computer Science and Science Education is Carried.
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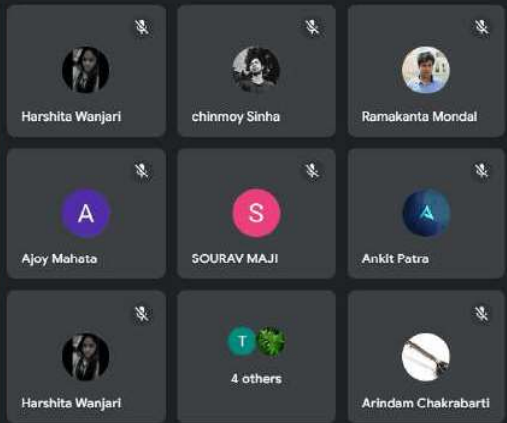
TIFR Exam Pattern

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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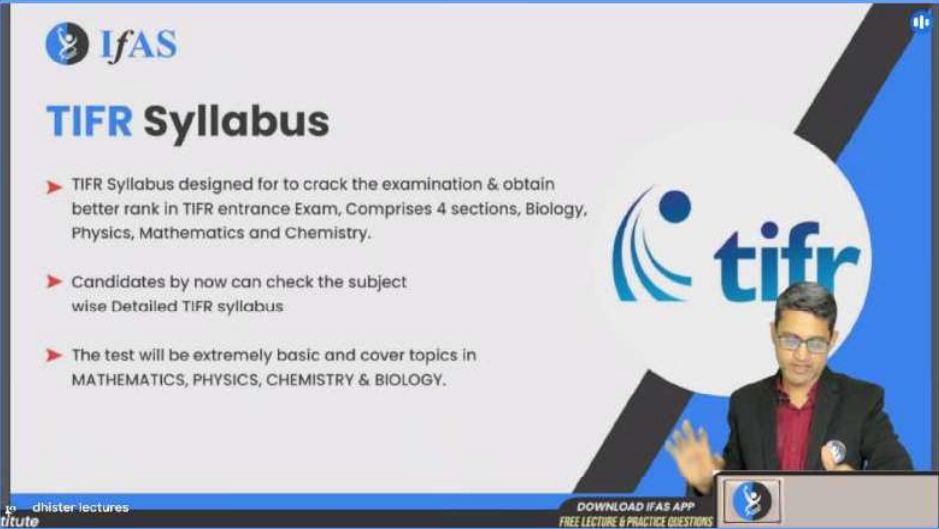
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TIFR Syllabus

- ▶ 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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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		

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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

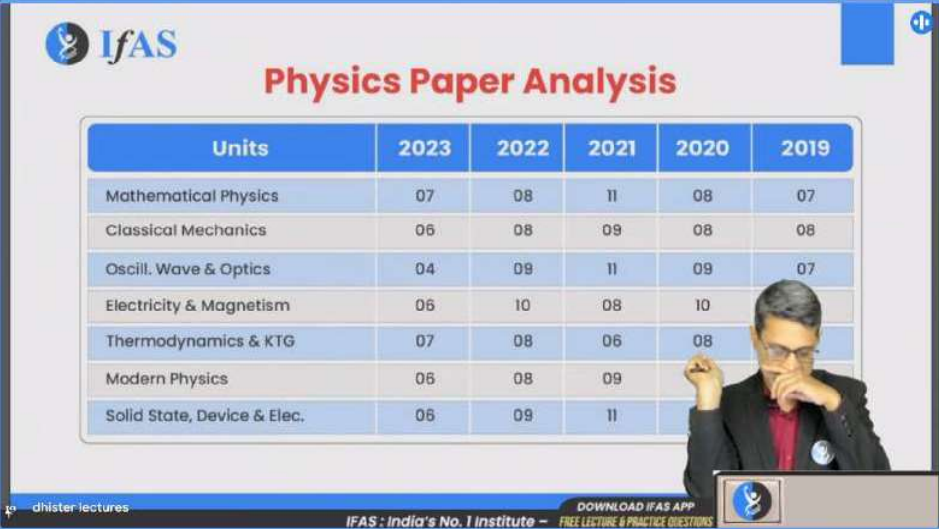


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Physics Paper Analysis

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		

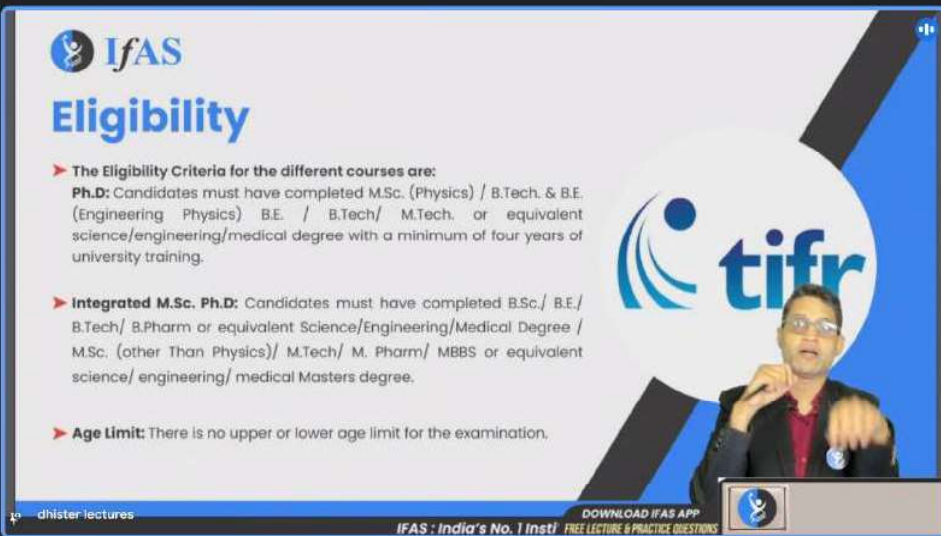
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IfAS Eligibility

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"> Dept. of Astronomy & Astrophysics Dept. of CMP & Materials Science Dept. of High Energy Physics Dept. of Nuclear & Atomic Physics Dept. of Theoretical Physics NCRA, Pune TIFR-Hyderabad ISCTS

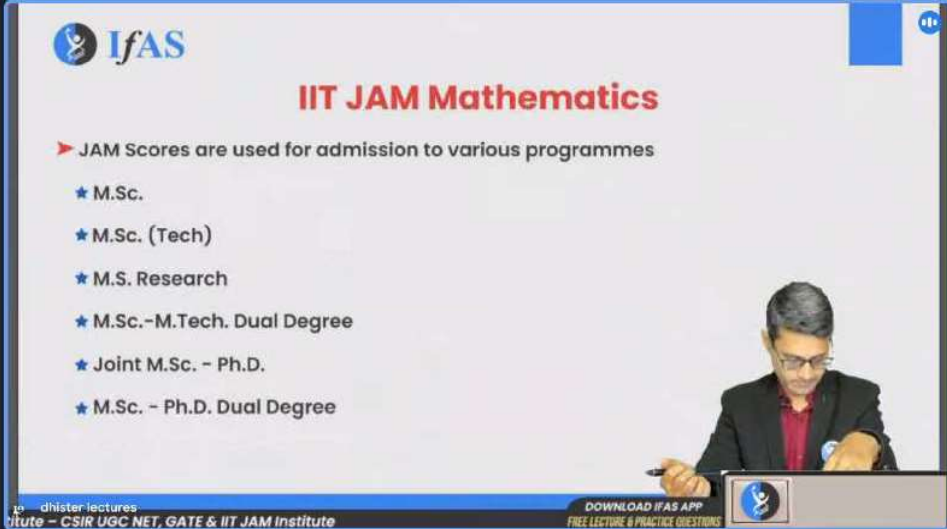


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


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- ★ M.Sc. (Tech)
- ★ M.S. Research
- ★ M.Sc.-M.Tech. Dual Degree
- ★ Joint M.Sc. - Ph.D.
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Let's Start Preparing

THANK YOU

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- 01 Concise or Directional study
- 02 Important Topics
- 03 PYQ's & Practice Questions
- 04 Time Management
- 05 Rectify Mistakes & work on them
- 06 AIM High

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- 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

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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.