

Ph.D. Admission: Physics department, IIT Bombay

Important Dates (and Time)	Action Item	Mode of Action
1 December 2021; 10:00 -11:00 AM	Mock Test-1 (First 30 minutes is preparation for the online test.)	SAFE App + Google Meet
1 December 2021; 6:00 - 8:00 PM	Interactive online session with the candidates about the online test and interview.	WebEx (Details below)
2 December 2021; 10:00 -11:00 AM	Mock Test-2 (First 30 minutes is preparation for the online test.)	SAFE App + Google Meet
3 December 2021; 10:00 - 11:30 AM	Online Test (First 30 minutes is preparation for the online test.)	SAFE App + Google meet
4 December 2021; 7:00 AM	Announcement of the shortlisted candidates for the Interview	Physics Website (https://www.phy.iitb.ac.in) and in the Ph.D. admission portal
4 December 2021; 8:00 - 9:00 AM	Choice of Research area	Google Form (Only for the candidates shortlisted for Interview)
4-5 December 2021	Online Interview	Physics Website (https://www.phy.iitb.ac.in) and in the Ph.D. admission portal

Instructions for the candidates

Admission to the Ph.D. Program in the Department of Physics, IIT Bombay for the semester starting in January-2022 will be conducted online. The admission process is the same as followed in previous years. However, some changes have been incorporated to ensure the admission is fair due to the online process. Mock test and Online-Written test will use the SAFE app and will follow the same time schedule.

We request the shortlisted applicants to read the instructions below carefully.

1. Preparatory stage

- a. Please go through the [department homepage](#) and familiarize yourself with the Department's research areas. Look at the individual faculty research pages.
- b. Install the SAFE APP:
 - i. SAFE App is available on the [Google Play](#) Store and [App Store \(iOS\)](#).

- ii. Follow the steps mentioned in the [SAFE Login Procedure](#) in this document. Use your Department Registration Number (example: “**RPH20211XXXXX**”) as your “Roll Number.” More information is also available in [this Youtube video](#). (**Course Registration Code in SAFE: H163EOKI**)
- iii. Physics Department will conduct two mandatory Mock tests before the Online Test. Date and Time are given below:

Mock Test date	Time
1 December 2021 (Wednesday)	10:00 - 11:00 AM
2 December 2021 (Thursday)	10:00 - 11:00 AM

Action item for Mock Tests	Time
Download the test/quiz on the SAFE App.	9:30 AM
Login to the Google Meet link	10:00 AM
Online test passcode shared via video conferencing	10:15 AM
Start of the online test	10:30 AM
The online test will automatically end after 10 minutes	10:40 AM

- iv. If you face any issue during the mock test, here are the contact details:
022-2576-7551; phdadmission@phy.iitb.ac.in
 - v. Read the [Standard Operating Procedure](#) for the test.
- c. Attend the Web meeting

A web meeting (via Webex) is scheduled for December 1st (Wednesday) between 6:00 to 8:00 PM. The meeting will share information about the online test and interview. It will also provide any questions or clarifications to the applicants. The candidates can join the web meeting via Webex App or any video system or Phone.

Join via Webex App	https://kaksha.webex.com/kaksha/j.php?MTID=m2a10fbec6142798f019f5ed8a4e443f2
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	<p>Wednesday, Dec 1, 2021 6:00 pm 2 hours Meeting number: 2515 231 8195 Password: 9NbDE4XB5pw</p>
Join via a video system	<p>Join by video system Dial 25152318195@kaksha.webex.com You can also dial 210.4.202.4 and enter your meeting number.</p>
Join via Phone	<p>India Toll (Bangalore)+91-80-6480-0114 India Toll (Chandigarh)+91-172-648-0026 India Toll (Chennai)+91-44-6480-0260 India Toll (Coimbatore)+91-422-648-0026 India Toll (Delhi)+91-11-6480-0114 India Toll (Hyderabad)+91-40-6480-0114 India Toll (Indore)+91-731-648-0026 India Toll (Jaipur)+91-141-648-0026 India Toll (Kochi)+91-484-648-0026 India Toll (Kolkata)+91-33-6480-0260 India Toll (Mangalore)+91-824-648-0026 India Toll (Mumbai)+91-22-6480-0114 India Toll (Mysuru)+91-821-648-0026 India Toll (Nagpur)+91-712-648-0026 India Toll (Pune)+91-20-6480-0260 India Toll (Trivandrum)+91-471-648-0026</p> <p>Access code: 251 523 18195</p>

2. Online Written-test (3rd December 2021)

- a. Study the [Standard Operating Procedure for the online test](#) and make necessary arrangements before the Mock test.
- b. Keep your **Government-issued ID Card handy** to record your identity at the time of taking the online test. This is to verify your identity.
- c. Find a convenient place to take the test (area should be well lit, be quiet, nobody should be moving around in the background, etc.)
 - i. You are not permitted to get up from your seat, go to the washroom, etc., during the online test.
 - ii. Keep a sufficient number of **blank papers for rough work** while writing the online test.

- iii. Keep a pen, paper, water bottle, etc., on your table within easy reach. All of **these items should be visible** from the laptop webcam. (For this, you should be seated at a sufficient distance away from the laptop.)
- iv. You should not approach the laptop computer or do anything on it after the start of the recording until the end of the online test.

Action item	Time
Download the test/quiz on the SAFE App.	9:00 AM
Login to the Google Meet link	9:45 AM
Online test passcode shared via video conferencing	10:10 AM
Start of the online test	10:30 AM
The online test will automatically end after 1 hour	11:30 AM

3. Choice of Research areas (4 December 2021)

- a. Candidates shortlisted for the interview need to provide their preferred choice of research areas in the SAFE app. **Your interview(s) will be based on the choice of research areas you select.**
- b. If your interests are cross-disciplinary, select the research areas closest to your liking and go through the procedure.
- c. You will receive an email containing a Google Form. Please fill it and send it by 9AM on 4 December 2021.

4. Online Interviews (4-5 December 2021)

- a. On 4th December, you will receive an email from the Physics Department, IIT Bombay about the date and time of your interview. The email will contain the video conferencing app and link.
- b. Keep your **Government-issued ID Card handy** to record your identity at the time of the interview. This is to verify your identity.
- c. Find a convenient place to give the interview (area should be well lit, be quiet, nobody should be moving around in the background, etc.)
- d. Keep **Pen and blank papers for rough work** during the interview.
- e. **Login to the video conferencing app 15 minutes before your interview.**
- f. Wait for the instructions from the Interviewers.

We expect the applicants to have carefully read the above instructions and acted upon them as per the requirements. Any queries regarding the process not mentioned already in this document could be clarified by writing to phdadmission@phy.iitb.ac.in.

Thank you for your cooperation and best wishes

Admission Committee
Physics Department, IIT Bombay

Attachment:

1. [SAFE APP Registration](#)
2. [Standard Operating Procedure for Online Test](#)

Physics PhD 2021 written test SAFE APP Registration

Step 1

A/ Choose New User

Use the Same Email address you used in the Phd Application

B/ Click Google Sign in

OR

If you used any other email account

Step 2

Enter this course registration code

Step 3

You will get a message about the successful registration

Step 4

A/ You should get your password in your registered email address.

B/ Click on Existing User

3/ Use the registered email address and password to login to the SAFE App.

The image shows four sequential screenshots of the SAFE app registration process. Each screenshot is a mobile phone screen with a dark background and white text. The app header includes 'SAFE IIT Bombay' and version/build information. Step 1 shows the 'New User' button selected. Step 2 shows the 'Your Email Address' and 'COURSE REGISTRATION CODE' (H163E0K1) fields filled. Step 3 shows a white dialog box with the text 'Registration Successful' and 'Account created and Passcode emailed. Registered successfully for the course PH. Press Login to continue'. Step 4 shows the 'Existing User' button selected.

Step 5

You will get a screen like here

Click the icon on the top-right of the screen.

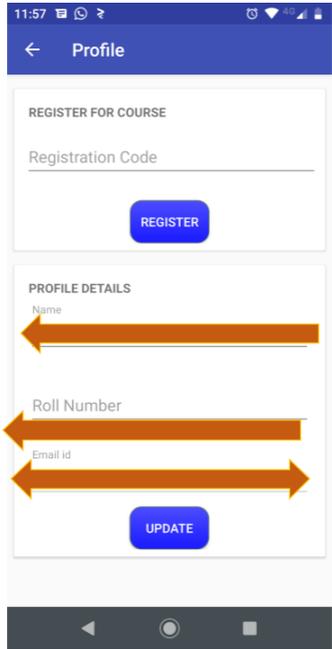


Step 6

Enter your Profile details

A/ Enter your name as in your Phd Application from

B/ Enter your Phd Application number RPH20211XXXXX



Physics PhD Written test December 2021 SAFE APP Taking test

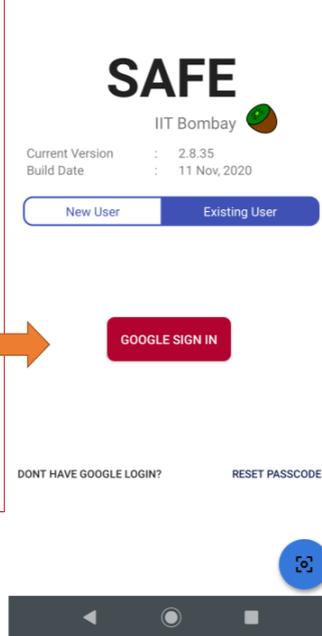
Step 1

A/ Click on Existing User

B/ Use the registered email address and password to login to the SAFE App.

On the day of the test,

Use the same email address used in the Phd Application form



Step 2

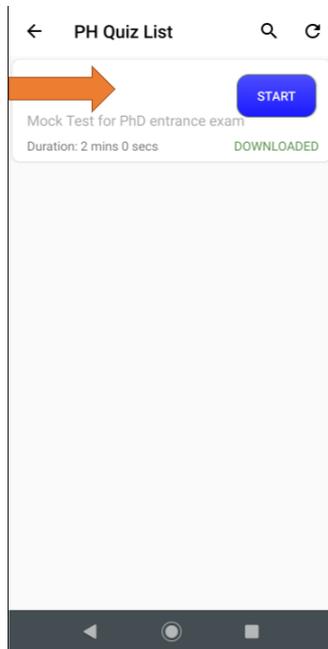
You will get a screen like here

Click on Mark attendance to get take a selfie. This will mark the attendance in SAFE.



Step 3

Click the start button to start the test

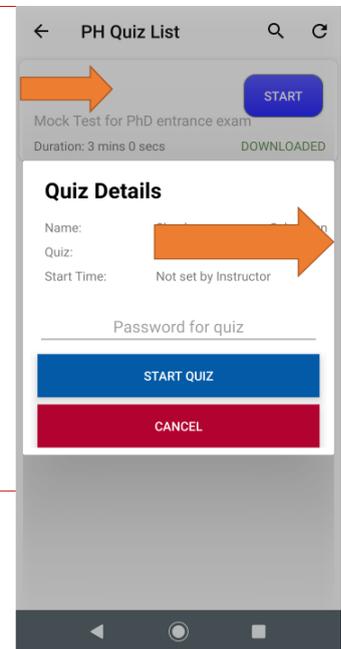


Step 4

Once you start the test you can not use any other app in the Phone.

Enter the Password for the Quiz

All the best!



Ph.D. Admission Online Test using remote monitoring December-2021

I. Instructions about devices required for the online test:

- A. You will require two devices:
 - 1. A **Primary smartphone** (with SAFE App installed)
 - 2. A **Secondary device** (a laptop with a webcam, OR a desktop with a webcam and microphone, OR another smartphone with a camera.)
- B. You should connect both devices to the internet. Both devices should have sufficient charge (or UPS) to run for at least 2.5 hours without a regular power supply and adequate disk space to store recording, as mentioned below.
- C. The **primary smartphone** will be used for the SAFE App on which the online test is to be conducted. The **secondary device** will be used for proctoring (monitoring) during the test.
- D. SAFE App should be downloaded and installed on the **primary smartphone** from [Google Play Store](#) or [Apple Store](#). The online test will be conducted using SAFE. More instructions about the app and the procedure have been provided in the instructions document.
- E. The **secondary device** must have:
 - 1. A webcam application
 - 2. A screen recording application
 - 3. A video-conferencing application installed.
- F. Recommended screen capture application for the **secondary device**:
 - 1. On all platforms: [Screen Recorder Chrome Extension](#) should be the first preference.
 - 2. Alternate options for screen recorder applications:
 - a) Linux: Use the Cheese app (preinstalled on Ubuntu).
Kazam, Recordmydesktop (Make sure it can record audio also)
 - b) Windows: Screen Recorder Pro.
 - c) Mac: QuickTime Player
 - 3. For smartphones, activate the screen recorder application, which is available on both android and iOS, by default.

Test the screen recorder you install and your system by recording your screen and microphone audio for 2.5 hours and save the file. This trial is to ensure that you do not lose the recording during the online test. You will be asked to upload the recording if you qualify for the interviews.

II. General Instructions for the test:

- A. Find a convenient place to take the online test (area should be well lit, be quiet, nobody should be moving around in the background, etc.)
- B. Keep your Government-issued ID Card handy to record your identity at the time of taking the online test. This will be used to verify your identity.
- C. Keep a sufficient number of blank papers for rough work while writing the online test.
- D. Keep a pen, paper, water bottle on your table within easy reach. All of these items should be visible from the laptop webcam. *(For this, you should be seated at a sufficient distance away from the laptop.)*
- E. You are not permitted to get up from your seat, go to the washroom, etc., during the test.
- F. You should not approach the laptop computer or do anything on it after the start of the recording until the end of the online test.

III. Full-View Proctoring Instructions before Start of online test:

- A. The secondary device should be connected to the internet and kept at a suitable distance from you. It should be facing you so that your face, hands, answer papers, and primary smartphone is visible. Part of the surrounding area near you should also be seen on camera.
- B. Ensure that the time on the secondary device is correct and shown somewhere on the screen. The screen recorder software would then also record the time displayed on the screen.
- C. Start the screen recording application on the secondary device.
- D. Connect the secondary device to the Physics Department's meeting link on the day of the online test. The secondary device's camera should be ON. Your video should be shown in **nearly full-screen size**. No other application or tab should be open on the secondary device.
- E. To preserve bandwidth, switch off incoming video on web-conferencing software.
- F. Turn the volume of the secondary device to low. Make sure that your secondary device microphone is not accidentally muted. The microphone must remain active for the entire duration of the online test.
- G. The screen recording application will automatically record your video being displayed on your screen.

- H. In case of any internet disruption, immediately turn on the laptop's webcam application to show your video on the screen. **DO NOT turn off your screen recorder in any scenario.**

IV. Full-View Proctoring Instructions at the Start of the online test:

- A. After sitting down at the place from where the online test will be taken, login into the SAFE app using the **Primary smartphone**. Connect to the page name shared with you. The registration code will also be provided in advance.
- B. SAFE may ask to take a selfie. Take a photo that clearly shows your face.
- C. From your seat, show your Government-issued ID card to the laptop webcam running the meeting. Next, show the screen of your smartphone running the SAFE app to the laptop webcam.
- D. The online test will start at the specified time. You are allowed to use blank papers for rough calculations.
- E. You will need to select the correct options on the SAFE App itself.
- F. **NOTE THAT ALL THIS SHOULD BE DONE IN ONE SESSION WHILE SITTING. No breaks are allowed for any reason, and getting up from your seat or leaving the online test location may be construed as indulging in an unfair practice.**
- G. You can also not stand up from the spot and leave the meeting and/or turn off screen recording and webcam before the prescribed online test time is over, even if you submit your answers on the SAFE App before time.

V. Full-View Proctoring Instructions after Submission of online test paper:

- A. End recording of the screen on your laptop computer. Save the recording video file on your hard disk.
- B. Upload the video file on a file share portal (onedrive/dropbox/google drive, etc.)
- C. Submit the link to download the file when asked before the interview(s).
- D. The file must be maintained at the link provided by you until the results are announced if you qualify for the interview(s).

VI. Disruption of the Internet during Full-View Proctoring online test:

- A. Immediately turn on your webcam app and get it to display your video if your video feed stops in the video-conferencing application.

- B. The recording of the screen on your laptop computer with your video feed will permit us to review the entire online test session after you have uploaded it. The file can be uploaded after the internet has been restored.
 - C. **Don't worry if there is a disruption of the internet on your smartphone while submitting the answer paper.** The answer sheets (photographs) taken using SAFE will be locally stored and then uploaded on the server as and when the internet is re-established. Even if that happens after the end of online test time, as long as the paper was submitted using SAFE within time, the paper will be counted as submitted on time.
 - D. **If the SAFE app shuts down unexpectedly,** just open it again and resume the online test from where you left.
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