Research Education Advancement programme (Physics) – An
Introduction to Applicants

If all the educational activities be likened to a pyramid – starting from broad-based popular activity and one which progressively becomes more focussed as we go up – REAP sits right at the top vertex. It is the most rigorous of the student activities that nurtures and shapes research-minded youth force.

REAP is a three year, non-formal programme in physics that is offered concurrently with regular undergraduate college education complementing the formal curriculum. The primary objective of this programme is to attract bright and highly motivated students to pure sciences and prepare them for a career in science. It is actively supported by Indian Institute of Science, Raman Research Institute, International Centre for Theoretical Sciences, TIFR, Bengaluru and Indian Institute of Astrophysics.

Lectures expose students to basic concepts in physics and astronomy with emphasis on problem-solving, experiments and use of computers. Some special lectures introducing them to research areas of current interest are also held. The second year covers advanced topics supplementing the first year basic course.

In the third year, students work on projects in a research institute under the guidance of scientists there or at Jawaharlal Nehru Planetarium. The objective of project-oriented learning is to inculcate a research mind set among the students and also to enable them to experience the research atmosphere.

Students applying to this course must be prepared to spend substantial amount of time and effort to follow up the classes and submit assignments on time. Non-serious and irregular students will be asked to discontinue the course.

This year, we will begin by holding the classes online. If the situation becomes conducive to hold physical classes, then students MUST continue the course at the planetarium. It is better if students have a PC or
a laptop. Smartphones may not be very effective for the coursework. The classes will be conducted on Saturdays and Sundays using Zoom / Google Meet / MS Teams.

**The first session will be on September 12, 2020.** Selection will based on a first-come-first-served basis for which students have to fill up and submit the Google Form. The Form can be found at:

https://forms.gle/WNTdHDzk8GLfPVbWA

**The course fee is ₹1000/-** (rupees one thousand only) which has to be paid after attending two sessions and before the 10\(^{th}\) of October, 2020. Students with genuine financial constraints can approach our office regarding the waiver of fee. Waiving it will, however, be at the discretion of the planetarium management.