



हरकोर्ट बटलर प्राविधिक विश्वविद्यालय

नवाबगंज, कानपुर - 208002, उ.प्र., भारत

HARCOURT BUTLER TECHNICAL UNIVERSITY

NAWABGANJ, KANPUR - 208002, U.P., INDIA

(Formerly Harcourt Butler Technological Institute, Kanpur)

Phone : +91-0512-2534001-5, 2533812, website : <http://www.hbtu.ac.in>, Email : [vc@hbtu.ac.in](mailto:vc@hbtu.ac.in)

100 YEARS  
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## ELECTRONICS ENGINEERING DEPARTMENT

### NOTICE

#### Invited Talk

Speaker: **Mr. Amit Kumar**, Engineer-E & HOD, Department of Electronics, IIA-Bengaluru

Title of the Talk: "**Catering Astronomical Observatories on Ground and in Space**"

Venue: Simulation Lab, Electronics Engineering Department, HBTU Kanpur

Date and Time: Monday 26.06.2023 at 12:00 Hrs.

Dear Sir,

Indian Institute of Astrophysics (IIA) is a premier autonomous academic institution devoted to research in astronomy, astrophysics, and related physics. Mr. Amit Kumar, Engineer E and HoD, Electronics Division, Indian Institute of Astrophysics (IIA) Bengaluru is an alumnus of the Electronics Engineering department of our university. Mr. Kumar has been working with IIA for more than the last 16 years. His research primarily focuses on CCD/CMOS detectors and Astronomical Instrumentation and he has contributed appreciably to many ISRO and DRDO missions of national importance. He has published more than 20 research papers in reputed Journals and Conference Proceedings and is the recipient of prestigious ASI Zubin Kumbhani Award -2021 instituted by Astronomical Society of India. He is presently a member for Board of Studies (BoS) in Electronics Engineering Department of HBTU.

After graduating from HBTU, Mr. Kumar joined as JRF in ISRO Satellite Centre in 2005, and later as Engineer C in IIA in 2006. He has worked for Ground Observatory control system hardware and software design. He has contributed majorly as camera development lead and electrical integration with spacecraft, on-board operations for Ultra Violet Imaging Telescope (UVIT) Payload on ASTROSAT satellite launched in 2015, and is presently involved with Visible Emission line Coronagraph (VELC) on Aditya-L1 satellite, which is going to be launched soon.

Mr. Kumar has kindly consented to deliver an expert talk in our department. The abstract of the talk is as follows.

**Indian Institute of Astrophysics (IIA) has observatories in North India as well as in South India and operates them on its own locally or remotely. IIA has also established an observatory on ASTROSAT satellite in Space in 2015. UltraViolet Imaging Telescope (UVIT) on ASTROSAT was built in coordination with several national and international institutions. UVIT is being operated remotely with the help of ISRO ground station. IIA is planning to have a 1-meter class of UV instrument (INSIST) in space and other 10-meter class of ground observatories. In this talk, an attempt will be made to explain the basic structure of astronomical observatory and space observatory along with the challenges faced in the operation of observatories.**

Attending this talk and having a discussion with Mr. Kumar will be highly informative for faculty members and highly encouraging for our students. It will be an enduring experience, especially for those students who wish to contribute directly in space research after their graduation.

You are requested to circulate this notice among the faculty members/students of your department.

(Ashutosh Singh)

Invited Talk Coordinator,

Professor, Department of Electronics Engineering



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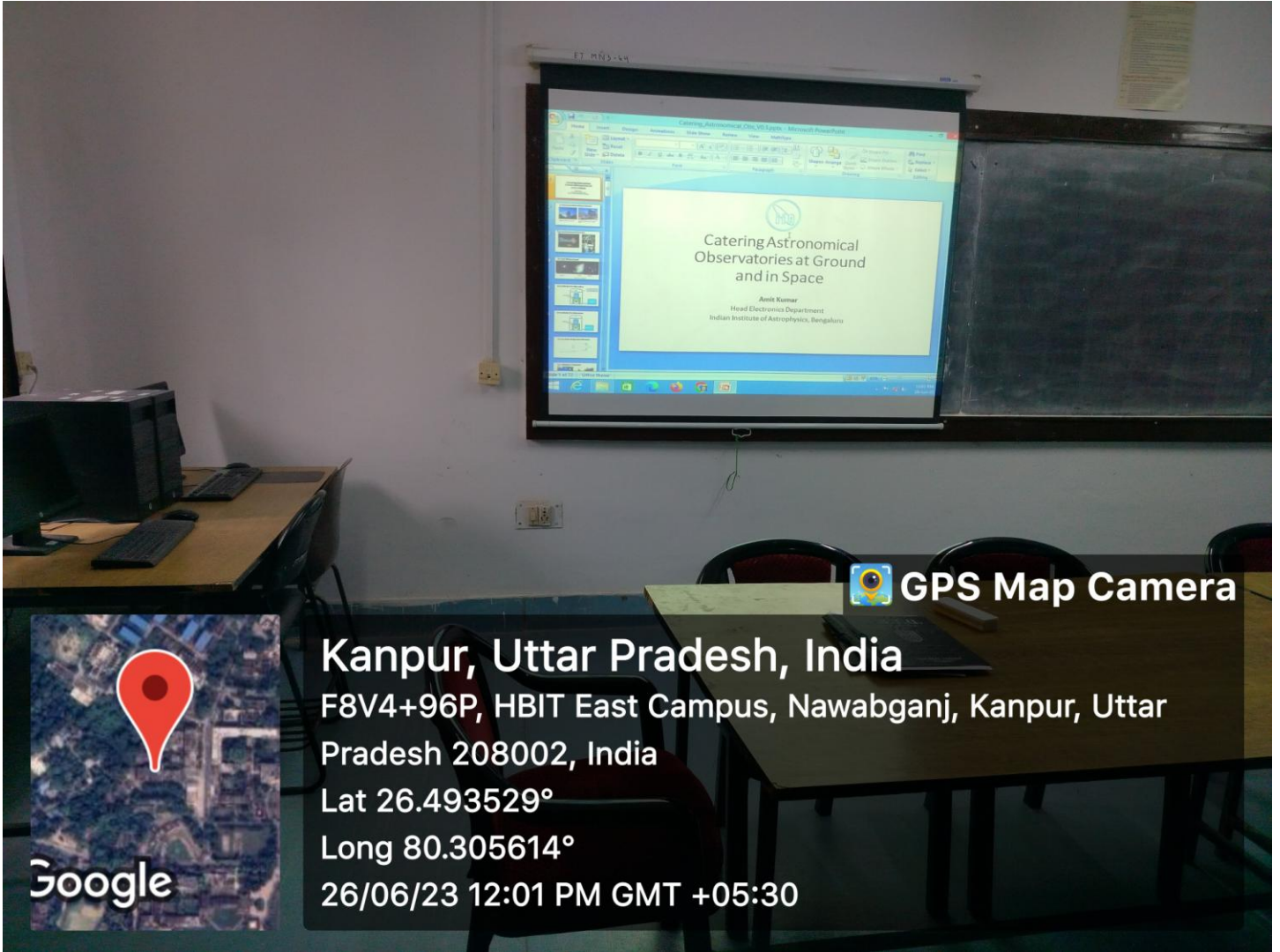
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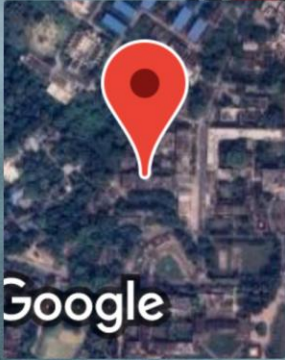
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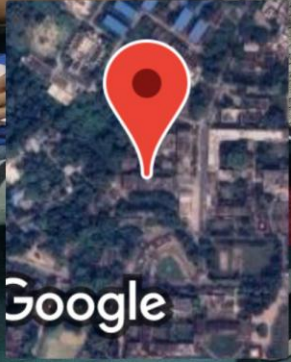
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