

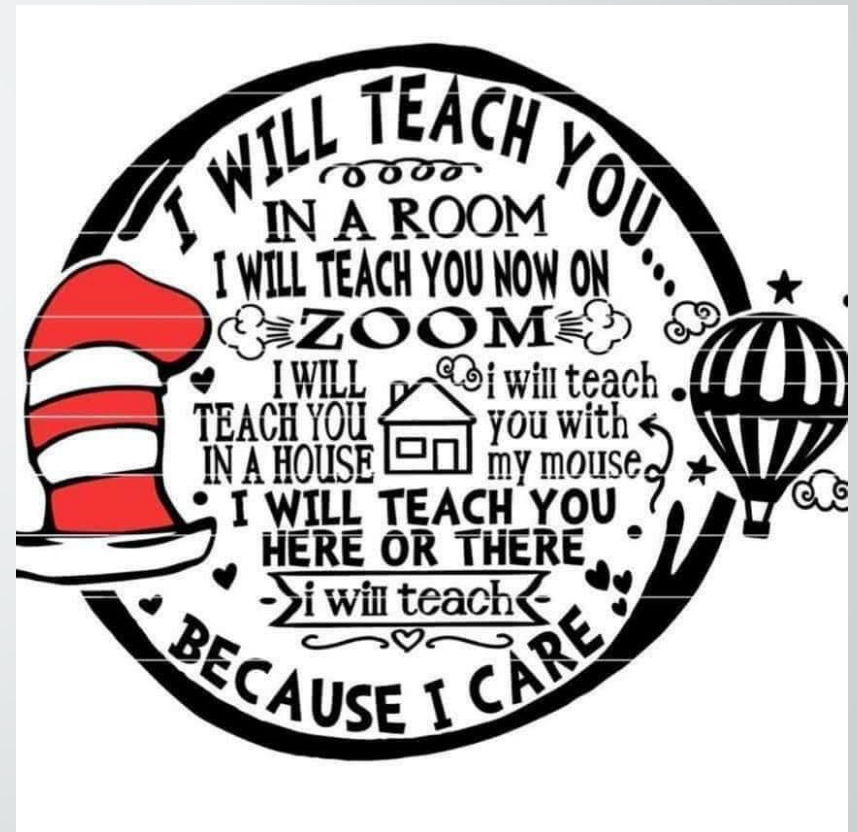
Shristi Astronomy



OFFICE OF ASTRONOMY
FOR DEVELOPMENT

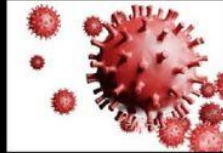
VIRTUAL EDUCATION IN COVID TIMES

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Hyderabad, India
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<https://shristiastro.com/>



ONLINE ASTRONOMY CLASSES

FOR SCIENCE TEACHERS AND
ASTRONOMY ENTHUSIASTS
18-23 MAY 2020
4.30 PM TO 6.00 PM IST



BY
PRIYA HASAN
S N HASAN

Topics :
Essentials of Astronomy
The Solar System
The Life and Death of Stars
The World of Galaxies
Cosmology
Eyes to the Skies: Telescopes
Hands-on Demos: Telescope Making,
spectroscopes
Astronomy Olympiads, Careers in
Astronomy
Feedback and Discussion

Organised by JVV , Telangana

*Please register your name on or before 18-05-2020 at 5 pm to *Sri M. Venkatesh,* State Secretary, Jvv Telangana on his WhatsApp +91 99127 82075*

- 1. Name*
- 2. Profession*
- 3. Designation*
- 4. Working Place & District*
- 5. Mobile / WhatsApp number*
- 6. E mail ID*

OFFICE OF ASTRONOMY FOR DEVELOPMENT

Joy of Learning: Physics @ Home

4-5:30 pm, 15-20 June 2020

Areas to be covered:

- **Newton's Laws**
- **Gravity**
- **Simple Machines**
- **Pressure**
- **Optics**
- **Electricity & Magnetism**

Maximum 200 students:

Registration:
Online mode... Click the following link
<https://forms.gle/yiMJXqbGrC53hQDW7>

Selection on first come, first (register) basis.

Every 'Registered Student' should attend every class on all 6 days and complete timings. Those who submitted feedback and Quiz will get Certificate.

Resource Persons:
Dr Priya Hasan
Prof S N Hasan
Maulana Azad National Urdu University, Hyderabad, India



Results of Extraordinary call for COVID-19 related proposals

In May 2020, the IAU Office of Astronomy for Development issued an [Extraordinary Call for Proposals](#) that could use astronomy in any form to help mitigate some of the impacts caused by COVID-19. Together with the African Astronomical Society and African Planetarium Association, more than 800,000 ZAR (about 40,000 Euros) in grants have been awarded to 43 projects around the world that use various aspects of astronomy and the astro community to help communities suffering the negative impacts of COVID-19.

Summaries of projects are listed below (in alphabetical order). For more information on any of the projects, write to *info (at) astro4dev.org*.

Astronomy from Archival Data

India and all over the world

The project will train students to use the high-quality astronomy data from various facilities. Participants will be shown step-by-step techniques of accessing and analysing astronomy data from the Internet, introduced to virtual observatory tools and programming techniques, and supported to formulate and develop projects. The training will include special sessions on report writing, publishing and presenting in scientific journals. More info at: <https://shristiastro.com/astronomy-from-archival-data/>



shristi astronomy

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Astronomy From Archival Data An IAU-OAD Project

915 RESPONSES

INDIA, PAKISTAN, BANGLADESH, SRILANKA, NEPAL, GERMANY, ITALY, UK, USA, SA, NIGERIA, BOTSWANA, NAMIBIA, GHANA, COLUMBIA, BRAZIL, MEXICO, PHILIPENES, INDONESIA, THAILAND, MALAYSIA, CHINA, JAPAN...
23..COUNTRIES

SOMETHING THAT STUDENTS WANT!!!

OUR TEAM



Dr Priya Hasan

Asst Professor

(Astronomy /Physics)

Prof S N Hasan

Professor

(Mathematics/Astronomy)

Maulana Azad National Urdu University, Hyderabad, India

MODUS OPERANDI

- Virtual teaching has been there for a while...
- Website designing and maintenance
- Social Media
- Contact: Telegram, Email
- Feedback: Homework, Quizzes, Polls
- Variety of Speakers: Mark Taylor, Luisa Rebull, Bruno Merin, Deborah Baines, Tim Hamilton, Ajit Kembhavi, Avinash Deshpande, Kaustubh Waghmare, ...

an incredible collection of learning material



sessions

links to videos and slides



reading material

reference articles and material to be downloaded



homework and quizzes

One quiz per week. One attempt only. Marks displayed.



software

links to software to be installed



syllabus



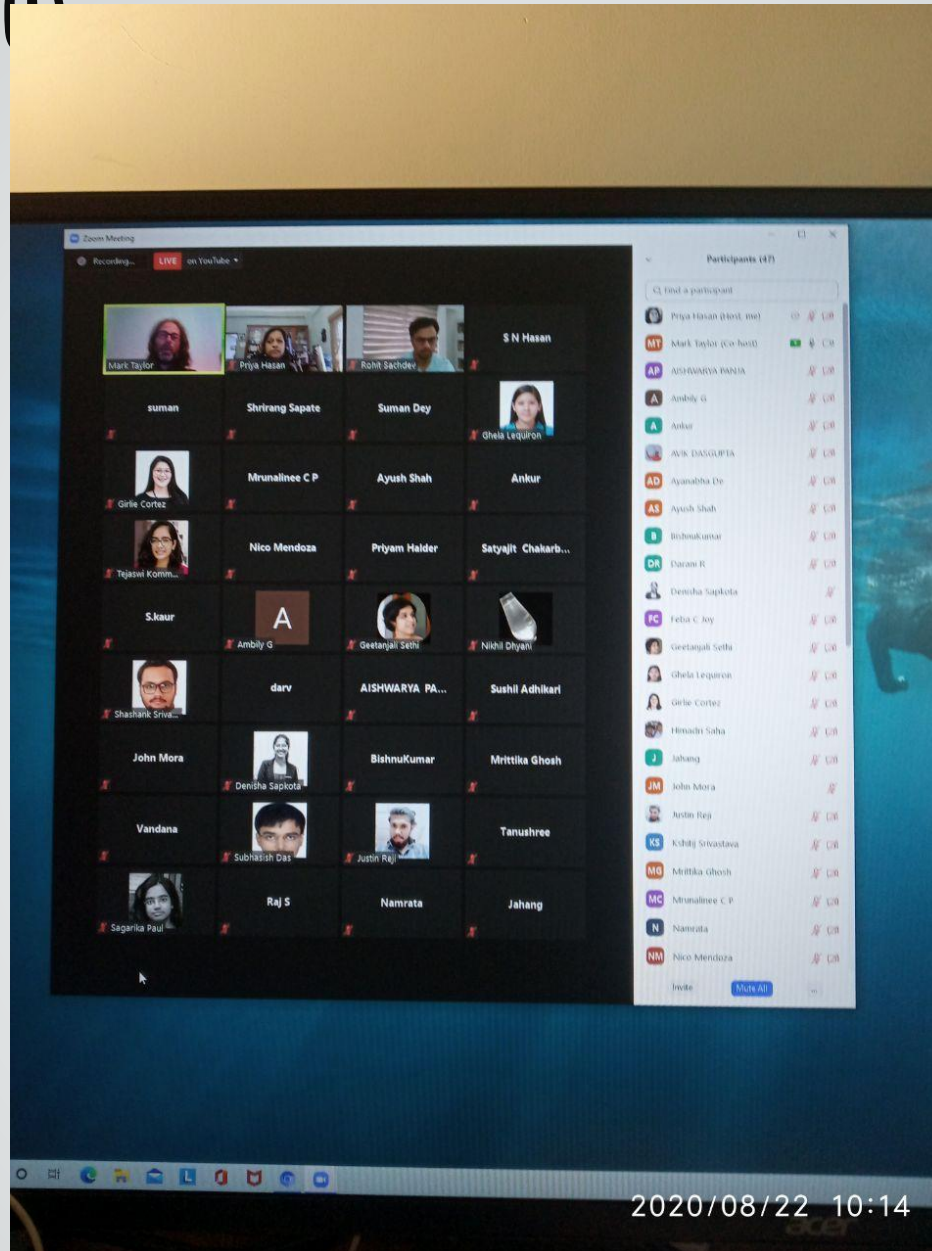
polls

Your valuable feedback

CAVEATS

- Planning events
- Dates: Saturday/Sunday mornings
- Recordings available so that students can join later as well as attend at their convenience
- Enabling subtitles
- Not all who register, attend!
- Variety of speakers: research scholars, faculty & participants
- Many resource persons happy to share their resources
- Level?
- Network issues, power...

ZOOM (100)



YOUTUBE

The screenshot shows the YouTube channel page for 'Priya Hasan', which has 461 subscribers. The channel banner features a painting of a canal at night. The navigation menu on the left includes Home, Trending, Subscriptions, Library, History, Your videos, and Watch later. The channel name 'Priya Hasan' is displayed with a '461 subscribers' count and buttons for 'CUSTOMIZE CHANNEL' and 'MANAGE VIDEOS'. Below the navigation tabs (HOME, VIDEOS, PLAYLISTS, CHANNELS, DISCUSSION, ABOUT), the analytics section is active, showing 'Overview' for the period 'Oct 21 - Nov 17, 2020' (Last 28 days). The main headline states: 'Your channel got 2,754 views in the last 28 days'. Three key metrics are highlighted: Views at 2.8K (1.1K more than usual), Watch time at 225.4 hours (75.4 more than usual), and Subscribers at +22. A line chart shows the daily view trend over the 28-day period. On the right, a 'Realtime' section shows '461 Subscribers' and '132 Views - Last 48 hours' with a bar chart. Below that, 'Top videos' are listed: 'Xrays Zarafshan Bano (...)' with 34 views and 'Ionizing Radaiation (9.1...)' with 26 views.

YouTube Channel: Priya Hasan
461 subscribers

Analytics Overview (Oct 21 - Nov 17, 2020)

Metric	Value	Change
Views	2.8K	1.1K more than usual
Watch time (hours)	225.4	75.4 more than usual
Subscribers	+22	

Realtime
461 Subscribers
132 Views - Last 48 hours

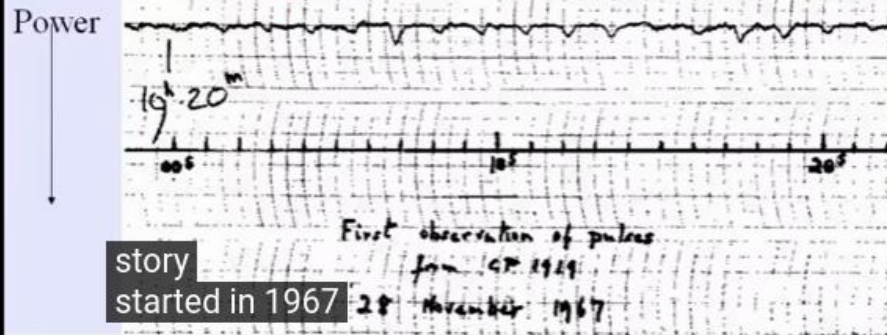
Top videos

Video Title	Views
Xrays Zarafshan Bano (...)	34
Ionizing Radaiation (9.1...)	26

Radio pulsars were discovered in 1967 by Jocelyn Bell-Burnell a graduate student then, using the Cambridge radio telescope.



Periodic bleeps









story started in 1967

Live chat replay was turned off for this video.

Astronomy from Archival Data

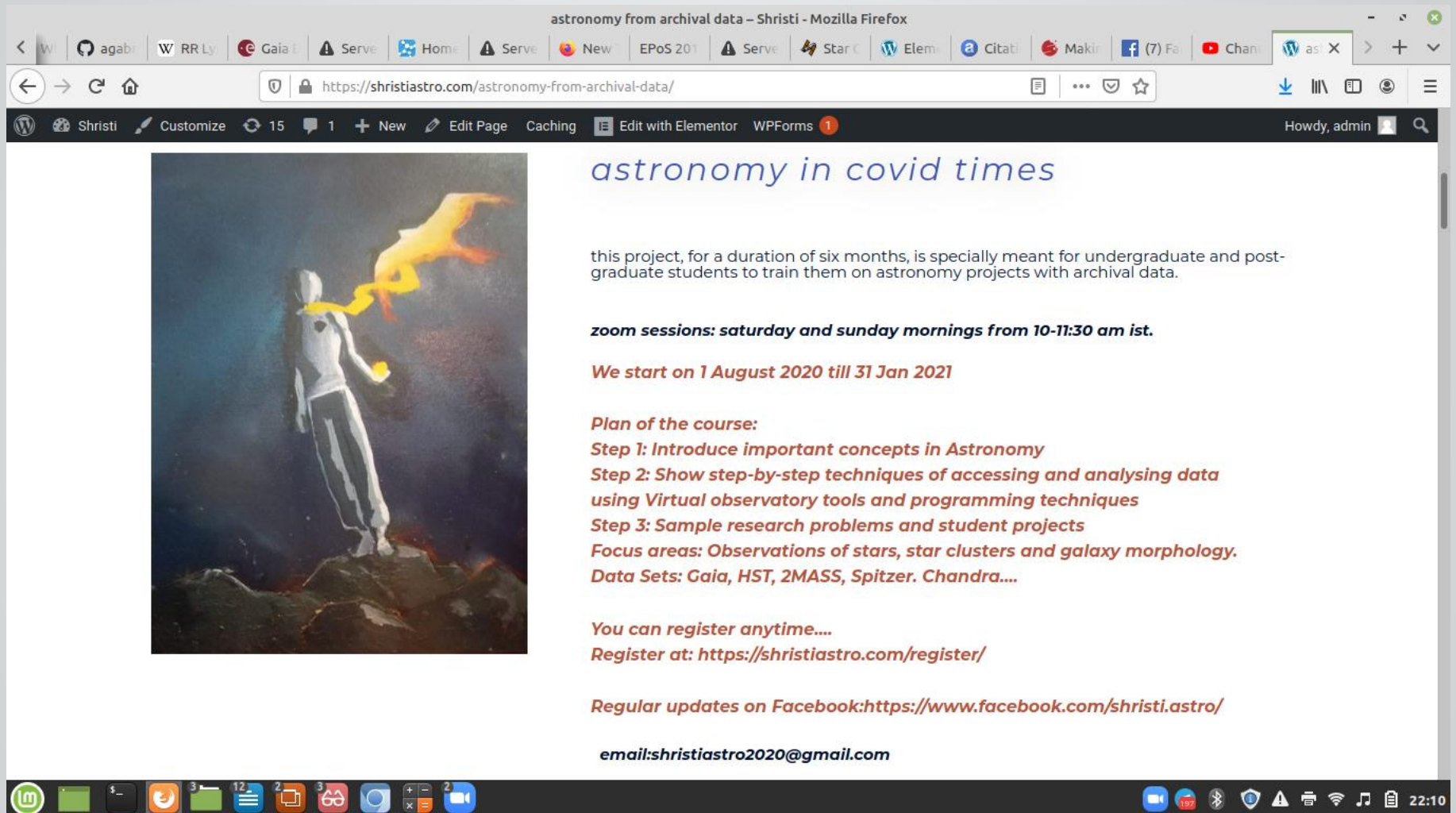
Priya Hasan - 1 / 56



- 1  **Zoom 32: Revisiting Radio Pulsars-1**
Priya Hasan 1:35:46
- 2  **Zoom 31: Introduction to R**
Priya Hasan 1:40:11
- 3  **Zoom 30: Gaia, EsaSky and its potential**
Priya Hasan 1:36:06
- 4  **Stellar Occultations: Shishir Deshmukh, Ameya Deshpande**
Priya Hasan 25:13
- 5  **Zoom 28: Stellar Occultations: Shishir Deshmukh and Ameya...**
Priya Hasan 46:26
- 6  **Zoom 29: Astrostatistics -1: Prof S N Hasan**

Zoom 32: Revisiting Radio Pulsars-1

A TOUR OF OUR WEBSITE.... [HTTPS://SHRISTIASTRO.COM/](https://shristiastro.com/)




astronomy from archival data – Shristi - Mozilla Firefox

agabr | RR Ly | Gaia | Serve | Home | Serve | New | EPoS 201 | Serve | Star | Elem | Citati | Makir | (7) Fa | Chan | as: X

https://shristiastro.com/astrometry-from-archival-data/

Shristi | Customize | 15 | 1 | + New | Edit Page | Caching | Edit with Elementor | WPForms 1 | Howdy, admin



astronomy in covid times

this project, for a duration of six months, is specially meant for undergraduate and post-graduate students to train them on astronomy projects with archival data.

zoom sessions: saturday and sunday mornings from 10-11:30 am ist.

We start on 1 August 2020 till 31 Jan 2021

Plan of the course:

- Step 1: Introduce important concepts in Astronomy**
- Step 2: Show step-by-step techniques of accessing and analysing data using Virtual observatory tools and programming techniques**
- Step 3: Sample research problems and student projects**

Focus areas: Observations of stars, star clusters and galaxy morphology.

Data Sets: Gaia, HST, 2MASS, Spitzer. Chandra....

You can register anytime....

Register at: <https://shristiastro.com/register/>

Regular updates on Facebook:<https://www.facebook.com/shristi.astro/>

email:shristiastro2020@gmail.com

22:10

TOOLS



Python

Astropy

TopCat

Aladin, EsaSky

R

Machine Learning

Big Data

SCIENCE CASES

Gaia Data: ADQL, EsaSky, TopCat

SDSS: Globular Clusters (HR, Distance...)

Kepler Data: Analysis, Exoplanet parameters

Magnetars

Pulsar Data

Galaxy Morphology

A vibrant blue sky with scattered white clouds. Sun rays are visible, breaking through the clouds from the left side of the frame. The overall mood is bright and optimistic.

*LOOKING FORWARD TO
ASTROSPRINT(2021)
& MORE CONTRIBUTIONS*

.....THANKS!!!

WISHLIST

Coordinated efforts in Education with VO

Access to resource persons and resources

Webpage....web resources

Workshops, activities

Possible funding