



ASTRONITR

*presents*

# ASTRONOMICA



Ed.2.0

EVENT **BROCHURE**

## About Us

Nestled In The Heart Of Steel City, The National Institute Of Technology, Rourkela (NITR) Is A Highly Coveted University For Engineering, Basic Sciences, And Tech Enthusiasts. It Holds The 15th Rank Among All Engineering Disciplines And Is The Third Best Among All National Institutes Of Technology According To The 2022 NIRF Rankings. NITR Boasts The Largest Campus Area In Comparison To All Other NITs. With More Than 350 Faculty Members And A Student Population Of Approximately 6,600, The Institute's Individuals Have A Single-Minded Focus On Striving Toward Their Goals And Identifying Future Perspectives In Various Areas And Domains.

AstroNITR, The Official Astronomy And Astrophysics Club Of NIT Rourkela, Is A Community Of Passionate And Enthusiastic Students Who Love Astronomy And Space Science. The Club Provides A Platform For Students To Learn And Explore The Wonders Of The Universe Beyond Their Textbooks.



## Activities

AstroNITR Is A Highly Active And Dedicated Club With A Range Of Activities To Promote The Study And Understanding Of Astronomy And Astrophysics. The Club Is Based At The National Institute Of Technology (NIT) Rourkela, One Of India's Premier Engineering Institutes.

One Of The Critical Features Of AstroNITR Is Its Possession Of Two Powerful Telescopes, Which Members Use For Observing Celestial Objects. The Celestron Automated CPC 800 And The Newtonian Telescope Are High-Quality Instruments Allowing Detailed Night Sky Observations. Members Use These Telescopes To Study Celestial Objects Such As Planets, Stars, Galaxies, And Nebulae.

AstroNITR Also Conducts Astronomical Events Coverage, Where Members Observe And Document Celestial Events Such As Eclipses, Meteor Showers, And Other Astronomical Phenomena. The Club Also Engages In Astrophotography, Capturing Images Of Celestial Objects Using Specialized Cameras And Techniques. The Club Has An Extensive Collection Of Raw Data On Celestial Objects, Which Amounts To 50GB. This Data Is Used For Research And Analysis By The Members. The Club Is Also Working In The Field Of Radio Astronomy And Had Developed A Small Scale Radio Telescope In The Past Years.



# Activities

## ASTRONOMICA

The Astro Club Of NIT Rourkela Participates In Various National-Level Astronomy Competitions And Events, Demonstrating Its Members' Abilities And Knowledge. In Addition To Competing In The IAAC (International Astronomy And Astrophysics Competition), Students Have Visited Other IITs To Participate In Various Astronomical Competitions And Events.

In Addition To These Activities, AstroNITR Conducts Seminars, Guest Lectures, And Workshops On Various Topics Related To Astronomy And Astrophysics. Every Year During INNOVISION, The Annual Tech Fest Of NIT Rourkela, Astro NITR Organizes Its Flagship Event "Stellar Night", With A Footfall Of More Than 3 Thousand Only Within Two Days And It's One Of The Main Attraction Of INNOVISION. Last Year, There Was Also A Workshop On Astrophotography By The Famous Youngest Astrophotographer Of India, Prathamesh Jaju, Who Captured The Most Detailed Image Of The Moon To Date Independently. In Previous INNOVISION, AstroNITR Has Also Conducted Water Rocket Workshop, Telescope Handling Workshop, Astro Quizzes.

AstroNITR Also Conducts Outreach Programs For School Students To Introduce Them To Astronomy And Astrophysics. These Programs Aim To Spark Interest In Science And Inspire The Next Generation Of Astronomers And Astrophysicists.

Finally, AstroNITR Organizes Its Annual "Astro Fest" Named Astronomica, Which Is A Highlight Of Its Calendar. This Event Includes Various Activities Such As Guest Lectures, Workshops, And Stargazing Sessions. It Provides A Platform For Astronomy Enthusiasts To Come Together And Share Their Knowledge And Experiences.







# ASTRONOMICA



## ASTRONOMICA

Welcome To Astronomica 2.0, The Annual Fest Of AstroNITR And The Ultimate Space Adventure For Young Minds!

Get Ready To Embark On A Journey Beyond Our Planet And Into The Mysteries Of The Cosmos. This Event Is Exclusively Designed For Class 9th And 10th School Students Who Have A Passion For Astronomy And Want To Explore The Wonders Of The Universe. It Will Comprise A Preliminary Quiz Round Where All Students Will Compete With Each Other, And The Top Performers Will Be Selected From Each School For The Astronomy Camp At NIT Rourkela Campus.

# ASTRONITR

## Events

### Documentary Showcasing:

Our Camp Will Start With A Captivating Documentary Showcasing Some Of The Most Breathtaking Astronomical Phenomena. Students Will Learn About The Universe's Formation, Galaxies' Structure, Stars' Life Cycle, And Much More.

### Treasure Hunt:

After The Documentary, A Treasure Hunt Will Be Conducted Where Students Will Solve Puzzles Related To Astronomy And Space. This Activity Is Designed To Help Students Apply Their Knowledge In A Fun And Interactive Way.

There Are Exciting Prizes For The Winners Of The Treasure Hunt, Including The First Prize, A Refraction-Type Telescope



## Fun Event:

Learning Should Be Fun, So A Set Of Fun Events Like "Power Of 10" And "Space Bowling" Where Students Can Relax, Unwind And Enjoy The Company Of Their Peers. This Activity Is Designed To Help Students Build Teamwork, Leadership, And Communication Skills While Having A Great Time.

Goodies Will Be Given To The Winners Of The Event.

## Telescope Handling Session:

One Of The Highlights Of Our Camp Is The Telescope Handling Session, Where Students Will Learn How To Use A Telescope To Observe The Night Sky. They Will Learn About The Different Types Of Telescopes, How To Set Them Up, And How To Use Them For Observation And Data Collection Purposes

## Observation Session:

Our Camp Will Culminate In An Observation Session, Where Students Can Apply What They Have Learned By Observing The Sky Through A Telescope. The Session Allows Students To Observe The Sun Through The Telescope And Learn About Solar Flares And Sunspots. This Session Will End With A QnA Session.

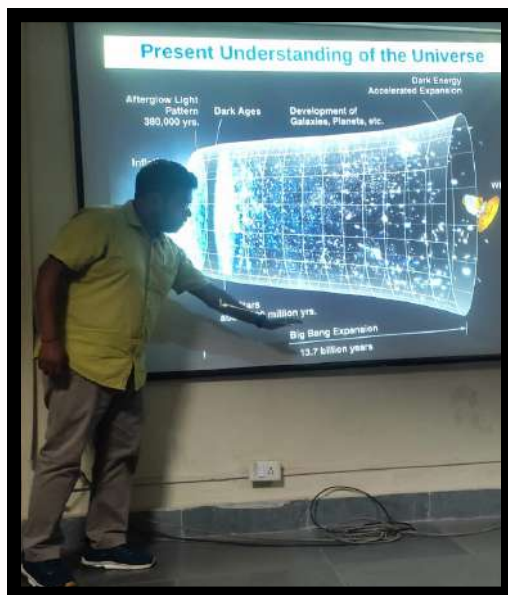


## Gallery

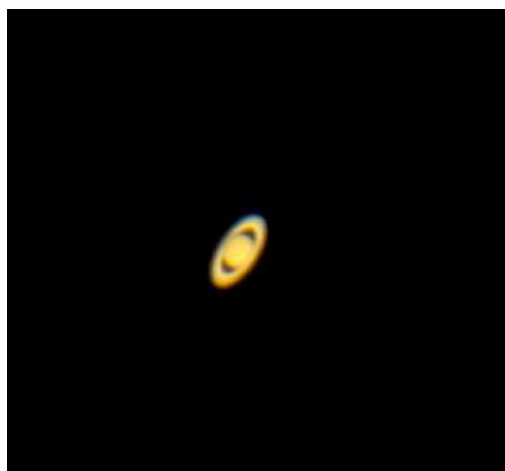
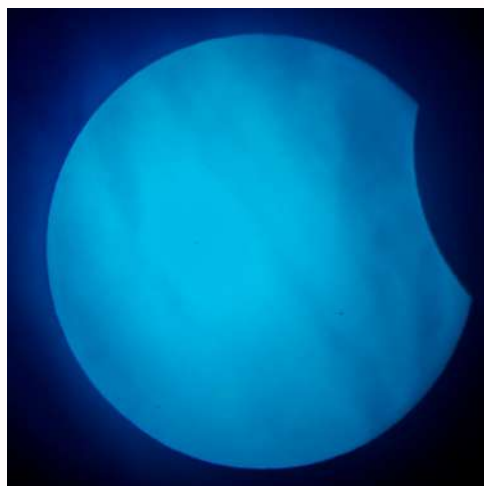




## Gallery



## Gallery



## Executive Body Of AstroNITR



*President*

**Inal Shubham**



*Vice- President*

**Amlan Abhilash Mishra**



*Secretary*

**Yaswant Ku Jena**



*Treasurer*

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