

About Kolhapur

Kolhapur, an epitome of beauty and richness in the Indian state of Maharashtra. Kolhapur is the premier city which lies between Latitude 15°73' to 17°11' and Longitude 73°75' to 74° 70' situated at 546 meter high from sea level. The city is situated in the western region of Maharashtra and is often referred to as "Dakshin Kashi" or "Mahateerth". Its proximity to the eastern slopes of the Sahyadri renders the greater part of the State almost immune from famine. The city has been a hub of historical, religious, and cultural activities for centuries. Its historic significance can be traced back to the 1st century BC and continues to amaze visitors with its intricate carvings and magnificent temples. Kolhapur is famous for its unique food culture, including its signature Kolhapuri cuisine that tantalizes the taste buds of locals and tourists alike. Sports, arts, and local dialects also play a major role in defining the identity of the city, making it a true representation of diversity and unity. The vibrant city of Kolhapur is indeed a cultural treasure, waiting to be explored by those in search of a true taste of India.

Climate : Kolhapur presents a moderate climate in the month of September with possibility of mild rains. The average temperature in September for a typical day ranges from 21°C to 28°C.

Places of Tourist's Interest in Kolhapur:

Temples & Cloisters: Goddess Mahalaxmi, Jotiba, Goddess Trymbuli, Narsinhwadi, Bahubali, Katyayani Devi, Khidrapur, Kaneri Cloister, Shankaracharya's Cloister, etc.

Historical Places: New Palace, Sharalini Palace, Bhavani Mandap, Town Hall, etc.

Hill Stations & Lakes: Panhala Fort, Vishalgad Fort, Dajipur Sanctuary, Rankala Lake, Kotiteertha, etc.



IIG, Radar Center, Kolhapur



Space Research Center, Panhala



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Accredited by MAAC (2021)
with CGPA 1.52



National Workshop on

"Contemporary Issues in Astronomy and Astrophysics-2024"

(CIAA-2024)

September 13-15, 2024



Organized by
**Department of Physics,
Shivaji University, Kolhapur**
(UGC-DRS-I, DRS-II, SAP ASIST, DSA-I & II,
DST FIST- I & II, PURSE Sponsored)

in Collaboration with
**Inter-University Centre for Astronomy
and Astrophysics (IUCAA), Pune**



Venue - Auditorium Hall, Department of Physics,
Shivaji University, Kolhapur, Maharashtra, India

Objectives of Workshop

- 1) The primary goal of this workshop is to spark interest among young graduate, post-graduate and research students in the recent advancement in the field of Astronomy and Astrophysics.
- 2) The workshop consists of Eight theory lectures and Four dedicated hands-on session to train the students in the fields of (i) Gravitational Wave and LIGO-India Collaboration (ii) Solar Ultraviolet Imaging Telescope (SUIT) onboard the Aditya-L1 mission (first space observatory of the ISRO dedicated to solar observations) (iii) Astrostat- (India's first X-ray space observatory) and (iv) Physics of Compact stars.
- 3) This workshop benefits the participants to understand deeply by freely exchanging ideas with the eminent resource persons in those fields.

Importance and Relevance

- 1) In the present context, the workshop assumes profound importance and relevance on multiple fronts in Astronomy and Astrophysics. It plays a pivotal role in advancing scientific knowledge in recently discovered Gravitational Wave (on 14th September 2015), which were predicted by Albert Einstein a hundred years ago, came from a collision between two black holes. It took 1.3 billion years for the waves to arrive at the LIGO detector in the USA, where India played a very crucial role for this LIGO collaboration.
- 2) Secondly, the workshop will address Solar Ultraviolet Imaging Telescope (SUIT) onboard the Aditya-L1 mission. The SUIT is the first space observatory of the Indian Space Research Organization (ISRO) dedicated to solar observations.
- 3) Thirdly, the Astrostat - is India's first X-ray space observatory telescope has a unique feature of being capable to cover the full spectrum of wavelength, from visible light to the UV to X-ray bands, simultaneously.
- 4) The physics of Compact stars provide a unique laboratory to study the structure of matter under extreme conditions, in which all known forces - gravitation, electromagnetism, weak and strong interactions - play a role. Hence, understanding their properties is of paramount importance for both astrophysicist and fundamental physicist. Finally, this workshop serves as an invaluable educational platform, inspiring the aspirations of students and early-career researchers, thereby nurturing the next generation of scientists who have keen interest in the field of Astronomy and Astrophysics.

Topics to be covered

Plenary Talks on:

- ▶ Compact Stars
- ▶ Solar Physics
- ▶ Astrostat (India's first X-ray space observatory)
- ▶ Gravitational waves (LIGO)
- ▶ Astroparticle

Registration:

There is no Registration Fees to attend the workshop. Number of participants is limited to 100. A recommendation letter from Principal/HoD/Ph.D. supervisor is mandatory for participation. In order to participate in CIAA-2024, the participants should register through QR Code **OR** the Link <https://forms.gle/ybteY4WxHm9ZFEa3A>



Outstation under-graduate/post graduate students participant can get travel support by Bus/Train limited in sleeper class (SL-II) train fare and Ph.D. students can get Bus/AC-III train fare in the shortest route.

Important Date:

Last date of Registration: **August 31, 2024**
Spot Registration is not available.
Accommodation in University Hostels/Guest House (Subject to availability)

Free accommodation will be provided on a first-come first-served basis to the first twenty (20) out-of-town participants at the campus, Shivaji University, Kolhapur. Requests must be made during the registration process. Please note that no accompanying persons are allowed.

How to Reach the Shivaji University, Kolhapur?

Kolhapur city is well connected by air, rail, and bus. Shivaji University is at 5 km from the airport and at 4 km from the railway terminus & central bus stand (CBS).

Air : Kolhapur airport is well-connected with flights from Mumbai, Hyderabad, Bangalore, Tirupati & Ahmedabad.

Participants can reach to Kolhapur by using nearest airports like Belgaum/Belgavi and Pune.

Railway: Chhatrapati Shahu Maharaj Terminus, Kolhapur is well - connected with trains from Mumbai, Delhi, Bangalore/Bengaluru, Hyderabad, Nagpur, Ahmedabad and Solapur.

Miraj is the nearest railway junction connected to Kolhapur.

About the Shivaji University, Kolhapur

Shivaji University, established in 1962, is named after the Great Maratha Warrior and founder of the Maratha empire, 'Chhatrapati Shivaji Maharaj'. One of the major objectives behind the foundation of this University was to cater to the regional needs of South Maharashtra. The jurisdiction of the University is spread over three districts viz. Kolhapur, Sangli and Satara in Maharashtra state with the strength of about 3,00,000 students studying in University Departments and in 276 affiliated colleges and institutes. This region of Maharashtra boasts of its rich and varied sociocultural heritage, under the innovative and socially reformist leadership of Chhatrapati Shahu Maharaj, the princely ruler of Kolhapur. The city had situated at the beginning of 19th century, a focal point of educational opportunities for all classes and communities of South-Western Maharashtra, and Northern parts of neighbouring state of Karnataka. The University which was founded primarily to cater to regional aspirations has now geared up to transcend this regional image and emerge as one of the premier institutes of higher education and research in India. The University imparts education in major faculties of Arts, Social Science, Science, Commerce, Education, Fine Arts, Law, Medicine, Pharmacy, Engineering and Technology. More about Shivaji University, Kolhapur and Department of Physics can be seen at <https://www.unishivaji.ac.in> and <https://www.unishivaji.ac.in/dptphy/> websites, respectively.

About Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune

The Inter-University Centre for Astronomy and Astrophysics (IUCAA) is an autonomous institution set up by the University Grants Commission (UGC) of India to promote the nucleation and growth of active groups in astronomy and astrophysics at Indian universities. IUCAA aims to be a centre of excellence within the university sector for teaching, research and development in astronomy and astrophysics. More about IUCAA can be seen at <https://www.iucaa.in/en/website>.

IUCAA's activities fall under two broad programmes: core academic programmes and visitor academic programmes. Core academic programmes include basic research, the Ph.D. programme, advanced research workshops and schools, the giant metre-wave radio telescope and guest observer programmes. Visitor academic programmes include the visitor and associates programme, refresher courses for teachers and helping the nucleation and growth of Astronomy and Astrophysics at Indian universities.