



HSNC UNIVERSITY, MUMBAI

A STATE PUBLIC CLUSTER UNIVERSITY



KISHINCHAND CHELLARAM COLLEGE

DEPARTMENT OF PHYSICS

ADMISSIONS OPEN FOR AY 2025-26

- B. Sc. in Physics - 3 years program
- B. Sc. Hons. in Physics - 4 years program



About HSNC University, Mumbai

Hyderabad (Sind) National Collegiate University, Mumbai—a State Public University approved by RUSA and the Government of Maharashtra—was established in 2020 with HR College, K.C. College, and BTTC as its prestigious constituent colleges. In a short span, under the visionary leadership of Provost Dr. Niranjan Hiranandani and Vice Chancellor Prof. Hemlata K. Bagla, the University has emerged as a centre of academic excellence, research, and innovation. HSNC University offers a wide range of interdisciplinary undergraduate, postgraduate, and doctoral programs across several schools, including the Niranjan Hiranandani School of Management and Real Estate, D.M. Harish School of Law, and the School of Applied Sciences, among others. With 50 undergraduate, 38 postgraduate, and 21 Ph.D. programmes, the University promotes holistic and integrated learning. It houses 21 research centres and supports a growing number of research scholars and guides. The University has also hosted inspiring events such as the first Harbinger Lecture by Nobel Laureate Kailash Satyarthi and conferred its first Hon. D.Litt upon Shri Ratan Tata. In alignment with the National Education Policy 2020, HSNC University has adopted progressive curriculum reforms and innovative teaching practices to stay at the forefront of transformative higher education in India.

About Kishinchand Chellaram College

Established in 1954 by visionaries Vidyasagar Late Principal K.M. Kundnani and Barrister Hotchand Advani, Kishinchand Chellaram (KC) College is one of Mumbai's most prestigious institutions and the second to be founded under the Hyderabad (Sind) National Collegiate Board. With its forward-thinking ethos and commitment to academic excellence, the College has consistently introduced innovative programs catering to evolving educational and societal needs. As a proud constituent of HSNC University, formed under the RUSA 2.0 initiative, KC College enjoys academic autonomy and fosters interdisciplinary learning, research, and critical thinking. From its modest beginnings with 570 students, the College has grown into a thriving campus of over 7,000 learners. Known for academic brilliance, top university ranks, global alumni, and vibrant extracurricular engagement, KC College continues to shape future-ready, responsible individuals grounded in values and driven by purpose.

About Department of Physics

The Department of Physics at K. C. College, established in 1954, has a proud legacy of academic excellence and innovation. The Department is an academic unit within the HSNC University that focuses on the study of fundamental physics as well as applied physics so that student is academically competent to pursue further study and / or research in Physics. In addition to the central library of the College, the department maintains its own rich library offering an extensive collection of physics books which encourage students to explore beyond the curriculum at their own pace. Beyond academics, the department actively organizes field visits, competitions as part of the annual festival SciCode and a collaboration with the Weather Department and Tata Institute of Fundamental Research, creating a dynamic and engaging academic environment. The department mentors its students, offers advice and career guidance enabling them to excel in various fields. In essence, the Physics Department at K C College is a hub for the study of the subject playing a vital role in training the next generation of physicists.

Programes under Department of Physics

- BSc - 3 Years
- BSc (Honours) ~4 Years

Strength of Department of Physics



Expert Faculty

Experienced faculty members with expertise in various fields of Physics including Physics of Devices, electronics, Quantum Mechanics, Mathematical Physics, Condensed Matter Physics etc.



Research Opportunities

Jigyasa SHP
Undergraduate students are encouraged to join the Jigyasa Science Honors Program, which fosters in-depth knowledge and research skills

Aavishkar Research Convention
Students receive training for project development and presentation at Aavishkar Research Conventions, enabling them to showcase their innovative research.



State-of-the-art Infrastructure

Classrooms

Technology-enabled classrooms equipped with interactive tools to enhance teaching, learning, and student engagement.

Lab

Well-equipped labs with advanced software tools including, Excel, Sigma Origin, LaTeX, Python etc. to data analysis, and research. Dark room facility to perform optics practicals. Hands on training on the research-oriented instruments

Opportunities for B.Sc. Physics Students

Career Prospects

Government and National Labs

Research Institutes like NASA, ISRO, DRDO

Industry and Applied Physics fields

Designing of Lasers, Fibre Optics

Skill Development

- Hands on training on research-oriented instruments
- Developing strong basics of Physics
- Industry oriented training
- Analytical Thinking
- Research Methodology
- Problem solving
- Effective communication

Internship / Field Projects @

- Tata Institute of Fundamental Research
- Weather Department
- K.J. Somaiya Institute of Technology
- Department of Physics, Mumbai University



Programme Overview & Eligibility Criteria



B.Sc. in Physics As per NEP 2020 Structure – (HSNC University, Mumbai)

K.C. College, a Constituent College of HSNC University, Mumbai, offers both B.Sc. and B.Sc. (Hons) in Physics, programs designed under the NEP 2020 framework. These courses provide a solid grounding in the core concepts of Physics, integrated with practical tools and interdisciplinary learning to prepare students for careers in analytics, research, and data-driven fields.



Programme Structure

Component	B.Sc. (3-Year)	B.Sc. (Hons.) (4-Year)
Duration	3 Years (6 Semesters)	4 Years (8 Semesters)
Credits	-124	-164
Exit Options	Available after 1st, 2nd, or 3rd year	Final year with research or specialization



Learnings from the Programme

Core Subject Areas

- Classical Mechanics
- Quantum Mechanics
- Statistical Mechanics
- Mathematical Physics
- Optics
- Analytical Techniques
- Electrodynamics
- Thermodynamics

Discipline Specific Courses

- Condensed Matter Physics
- Atmospheric Physics
- Astronomy and Astrophysics
- Physics of Devices
- Medical Physics
- Nano Materials

Skill Enhancement courses

- Weather Forecasting
- Radiation Safety

Vocational Courses

- Applied Optics
- Digital and Analog Electronics

Computer Aided Courses

- Excel and Sigma Origin
- LaTeX

Practical based on Theory Courses



Why to choose us?

01

Legacy of Excellence

Among the first colleges under the University of Mumbai to offer Physics as a major since 1955.

02

Highly Qualified Faculty

Majority of faculty members are Ph.D. holders with expertise in Physics and Materials Science.

03

Research-Oriented Environment

Active student involvement in Jigyasa Honors Program and Aavishkar Research Conventions promotes early research exposure.

04

Tech-Enabled Learning

Well equipped laboratories with add on facilities to use tools like MATLAB, LaTeX, Python

05

NEP-Compliant Curriculum

Offers both B.Sc. and B.Sc. (Hons.) in Physics with flexibility for interdisciplinary learning under the National Education Policy 2020.

06

Student-Centric Approach

Focus on mentoring, holistic development, and preparing learners for both higher education and industry challenges.



What will learners gain?

- Strong foundation in fundamental and contemporary Physics
- Hands-on training using LaTeX, Origin and Excel
- Development of Research aptitude and scientific inquiry skills
- Emphasis on critical thinking and quantitative problem-solving abilities

- Industry-relevant knowledge in fields like radiation safety, electronics, aerospace, and materials science
- Pathway to higher studies in Astrophysics, Quantum Physics, Nuclear Physics, or Applied Physics
- Holistic intellectual development through interdisciplinary and experiential learning

Notable Alumni & Testimonials



Our alumni network spans the globe, with graduates thriving across a wide range of industries. From aerospace to renewable energy, research labs to advanced technology sectors, our alumni are making meaningful contributions in their fields. Their achievements reflect the rigorous academic foundation, practical training, and diverse opportunities provided by the Department of Physics, K.C. College.



Pallavi Mishra

Lead Engineer - Network, FIS Global, Aundh Pune

Vishal Sheoran

Sr. Accounts Officer, Office of Custodian, Department of Financial Services, Ministry of Finance, Govt. of India



Lieutenant Colonel Swapnesh Koli

Seven Engineer Regiment Corps of Engineers Indian Army



Abbas Jinia

Medical Physics Resident at the Memorial Sloan Kettering Cancer Center, New York.



Contact & Information

We are here to support your journey with HSNC University. Feel free to reach out to us through the following channels:

Main Contact Information

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Operating Hours

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Feel free to visit our campus or contact us through any of these platforms. We look forward to connecting with you!



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