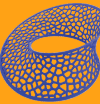




**HSNC UNIVERSITY, MUMBAI**  
A State Public Cluster University



**KISHINCHAND CHELLARAM  
COLLEGE, CHURCHGATE**



**THE DEPARTMENT OF  
MATHEMATICS**

**B.Sc./B.Sc. HONORS IN PURE  
& APPLIED MATHEMATICS**

(NEP-ALIGNED, CBCS PATTERN)

**Period 2026 - 2027**

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**Details**  [www.kccollege.edu.in](http://www.kccollege.edu.in)

**Contact:**  [mathematics@kccollege.edu.in](mailto:mathematics@kccollege.edu.in)

#### About MATHEMATICS DEPARTMENT

The Department of Mathematics and Statistics of Kishinchand Chellaram College of Arts Science and Commerce was founded under Prof CA Patel in 1954. In 1969 bifurcation of Statistics and Mathematics departments led to the formation of department of Mathematics as a support subject offered till the second year of BSc under Mumbai University.

In the year 2020 along with the formation of the HSNC University, Mumbai, K.C. College started offering Mathematics till T.Y.B.Sc., 2022-23 being our first T.Y.B.Sc. batch for the B.Sc. Course and the recent 2025-26 batch will be the first batch under NEP.

With the new upcoming technologies including AI there will be lot of demand for the students having knowledge of both Pure and applied Mathematics along with the expertise in soft skills.

So we have framed the syllabus as per the need of time. The students taking admission in First year BSc course from 2025-26 and offering Mathematics Major will get degree in "BSc with Pure and Applied Mathematics" after the completion of the three years of degree course. Further after completing the fourth year as Mathematics Major, the student will get degree in "BSc honors in Pure And Applied Mathematics".

#### NEP 2020 Compliant & Future-Ready

- Integrates both Pure and Applied Mathematics.
- Balanced curriculum with theory + hands-on computation.
- Emphasis on problem-solving, programming, and real-world applications.
- Broad range of career prospects.

#### Tech-Integrated Learning

- Skill Enhancement Course: Mathematical & Software skills for Finance
- Practical labs using Python, Sage Math, GeoGebra
- Courses in Numerical Methods and Probability (Basic skills for Data Science)
- LaTeX for scientific documentation.

#### Core Subjects

- Foundation Courses in the first year (Covering fundamentals of Calculus, Analysis, Differential Equations and Discrete Mathematics)
- Univariate and Multivariable Calculus, Real Analysis
- Linear and Modern Algebra
- Metric Spaces and Number Theory.
- BSc Honours with courses Complex Analysis, Ring Theory, Combinatorics, Integral transforms, Topology, Finite Groups, Finite fields, Graph Theory, advanced Number Theory
- Implementation and visualizations of core concepts with Python & SageMath.

#### Career-Enhancing Skill Courses

- Cryptography (RSA, ElGamal)
- Numerical Simulations & Interpolation
- Advanced problem-solving with Python-based modules (Learn tools like SciPy, NumPy, Matplotlib)

#### Real-World Applications

- Applications in Data Science, AI, Physics, Finance, Engineering, Economics
- Strong foundation for careers in research, teaching, analytics, and software development.

#### Innovative Assessment

- Includes viva, projects, open-book tests, presentations, and practicals
- Self-Learning and practicals form integral parts of evaluation.

#### Enriching Electives

- Mathematical Documentation with LaTeX
- Integration of Swayam Courses.



## Experienced and Dedicated Faculty

1. **Mrs. Usha Gollakota (H.O.D)** (M.Sc., NET, SET, DCST)
2. **Prof. (Dr) Pankit S. Gandhi** (Ph.D., M.Phil, M.Sc., SET, LL.B.)
3. **Mrs. Mrunal Hardikar** (M.Sc., NET, SET, M.Phil)
4. **Mr. Nilesh Bhandarkar** (M.Sc. from IIT Bombay, NET)



## Our Alumni

- **Tarakesh Chadaram** (Deloitte) Associate Analyst (I.T.)
- **Gitika Parson** (M & G Global) Actuarial Manager, (Insurance)
- **Nandini Roy** (Deloitte) Quality Assurance Intern, & pursuing M.Sc. Finance, University of Liverpool, U.K.
- **Aayushi Gala** (M.Sc. Applied Math) University of Birmingham, U.K.
- **Nikhil Lochab** (Sailor in Indian Navy)
- **Dhruv Patil** (Got selected at three best research institutes CMI MSc CS, IISER Pune for M.S. Math and TIFR-CAM(interview round))