

AY 2024 Onwards



Hindi Vidya Prachar Samiti's

R. J. COLLEGE
of Arts, Science & Commerce
(Empowered Autonomous College)

Affiliated to UNIVERSITY OF MUMBAI

(Also known as Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS, SCIENCE & COMMERCE)

Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B
NAAC Re-Accredited 'A GRADE' with CGPA 3.10

Knowledge is all Ambrosia



**CERTIFICATE
COURSE IN**

**FORENSIC
BOTANY**



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Opposite Railway Station, Ghatkopar (W),
Mumbai 400 086, Maharashtra, INDIA.



ABOUT US

Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community. Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai. The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with "JAAGAR JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.

Course Code: **RJBOTVAC19**

Duration: **30 hours**

Credits : **02**

On completion of the course the student will be able to

- Learn the role of study of plants in criminal investigations.
- Identify plant sources in forensic.
- Collect and preserve botanical evidences of crime and analyze classic and DNA based Botany cases.
- Document plant evidence at the crime scene



LEARNING OUTCOME

**COURSE
CONTENT**

Unit I Introduction to Forensic Sciences. Use of Limnology, Plant anatomy, Palynology, fiber examination, phytoconstituents as evidences in Forensic Sciences.

Unit II Poisonous Plants: *Abrus precatorius*, *Argemone mexicana*, *Nerium indicum*, *Thevetia nerifolia*, *Datura innoxia*, *Semincarpus anacardium*, *Strychnos nux vomica*, *Ricinus communis*.

Unit III Collection and Preservation of Botanical evidences: Outdoor Crime Scenes consideration, Analysis of Samples, DNA analysis and DNA typing.

Unit IV Case studies Plant based evidences used for Crime detection.
Visit to Forensic Lab Mumbai

References:

1. Hall D W and Byrd J (2012) Forensic Botany : A Practical guide. Wiley Blackwell Edition.
2. Cyle H M (2004) Forensic Botany: Principles and Applications to Criminal Casework. CRC Press.

ASSESSMENT



Continuous evaluation through quiz/questions based on case studies/group discussions

MEDIUM OF INSTRUCTION English

100 MARKS  **PASSING 40%**

ATTENDANCE 75%

WHO SHOULD DO IT?

Any Learner from any faculty who has passed HSC or Equivalence examination