

Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)

(Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI II Recognized by UGC under 2f & 12B
NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia

CERTIFICATE COURSE IN

LABORATORY SAFETY



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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: **RJBOTC14**

Duration: **30** hours

Credits : **02**

LEARNING OUTCOME

- After completion of the course student will be able to
- Work safely in any laboratory/workplace
- Learn to understand signages and follow all safety precautions
- Learn to safely handle, store, use and dispose waste
- Conduct trainings to ensure safety in laboratories



COURSE CONTENT

Unit I

Introduction, safety training, general lab safety , emergency management, waste management, chemical safety, bio safety, radiation safety, laser safety, compressed gas safety, fume hood safety, personal protective equipment, electrical safety, clean room safety

Unit II

Administrative controls, orientation and training, standard operating procedures safety signs, procedural controls, house keeping, Do's and Don'ts in the laboratory, working alone, unattended operations, access to laboratories, laboratory design, Energy conservation in the laboratories, laboratory security.

Unit III

Personal Protective equipments: Introduction, hazard assessment, eye and face protection, head protection, hand protection, protective clothing, respiratory protection, hearing protection, foot protection

Unit IV

Glass ware, glassware inspection, safe handling and storage, working with glasswares, vacuum and pressure operations, cleaning and drying glasswares, disposal and spill clean up. Chemical safety, chemical exposure and monitoring, chemical storage guidelines, Cryogenic safety, biological safety, Biological safety levels, safety data sheets for infectious. Clean room safety, introduction to waste management, chemical waste disposal, biological waste disposal, glass disposal, emergency procedures, response to incidents and accidents

English

MEDIUM OF INSTRUCTION

EVALUATION

Continuous evaluation theory and practical's (virtual or in Lab), report writing industrial visit virtual or onsite

100 MARKS



PASSING 40

WHO SHOULD DO IT?

Safety First. Safety is your responsibility so any student/staff/ personnel