

Summary

Semester	Credits	Marks
Semester 1	16	400
Semester 2	16	400
Total	32	800

Semester I

Course No.	Course Title	Course Credit	Total Marks
CBRNS: 1.1	Conceptual Understanding of CBRN (Chemical, Biological, Radiological, Nuclear)	4	100
CBRNS: 1.2	National Security and CBRN	4	100
CBRNS: 1.3	CBRN: Safety and Security	4	100
CBRNS: 1.4	Practical Component and Research Methodology	4	100

Semester II

Course No.	Course Title	Course Credit	Total Marks
CBRNS: 2.1	International and Indian CBRN Preparedness	4	100
CBRNS: 2.2	CBRN Incident Response and Risk Mitigation	4	100
CBRNS: 2.3	CBRN Terrorism and Counter Terrorism	4	100
CBRNS: 2.4	Dissertation	4	100

Post Graduate Diploma in CBRN (Chemical, Biological, Radiological, Nuclear) & National Security



Welcome to the
**Department of Defence
& Strategic Studies
Savitribai Phule Pune University**



Post Graduate Diploma in CBRN (Chemical, Biological, Radiological, Nuclear) & National Security

Contact Details

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Post Graduate Diploma in **CBRN** (Chemical, Biological, Radiological, Nuclear) & National Security

Features and Scope of the course:

The Post Graduate Diploma in CBRN (Chemical, Biological, Radiological, Nuclear) & National Security is designed to enhance knowledge and understanding of CBRN and its security and risk mitigation measures. Chemical, Biological, Radiological and Nuclear (CBRN) security is a matter of grave concern for many nations today. CBRN emergencies occur as a result of occupational exposure, fires, explosions, the release of toxicants and warfare, caused either by ignorance, negligence, incompetence, accident, or malicious intention. Owing to the global increase in terrorist activity and the procurement of weapons of mass destruction by anti-state organizations, it has become highly essential for governments, armed forces and civilians to be involved in strategic recognition, preparation, and prevention of CBRN threats.

Thus, there is a need to understand these threats and prevent their occurrence with the best means at our disposal. The course will focus on educating and training all concerned stakeholders in terms of CBRN risks and threats as well as emphasize the need to adopt risk mitigation measures.

Objectives of the course:

- Develop a basic conceptual understanding of Chemical, Biological, Radiological and Nuclear (CBRN) agents, threats and doctrines.
- Focus on the conceptual framework of national security in the context of CBRN.
- To understand the safety and security against CBRN threats.
- To acquaint students with the basic concepts of research methodology and help them develop the spirit of scientific inquiry.
- To understand the efforts of international agencies while dealing with CBRN issues with a particular focus on India.
- Examine and strategize the risk mitigation of CBRN materials and agents with regards to incident responses.
- Provide a historical overview of CBRN terrorism, contemporary threat perception and counter CBRN terrorism strategy.

Structure of the Course:

- The Post Graduate Diploma in CBRN (Chemical, Biological, Radiological, Nuclear) & National Security allows an in-depth study of broader perspective of internal and regional security challenges that manifest in the form of CBRN terrorism.
- The course has 32 credits, divided into two semesters, over one year.



Course Description and Evaluation:

- Post Graduate Diploma in CBRN (Chemical, Biological, Radiological, Nuclear) & National Security [CBRNS] is a full-time program.
- Medium of instruction is English (Students would however, be permitted to write their examination in Marathi, as an option).
- For assessment, the department will follow the choice-based credit system (CBCS).
- Continuous evaluation system through internal assessment (50%) - assignments, dissertation, term papers and seminars.
- External assessment -end semester examination (50%).

Method of Teaching:

- Utilize a variety of instructional methods- classroom interactions, tutorials, study of classical texts, case method, debates, field visits, the open book method, round table discussion panels, online learning, problem-based learning, simulation, problem formulation, database searches, comparative studies, preparation of monograph, oral presentations, tutoring, text analysis, problem solving, library work and discussions.
- Special lectures by eminent scholars
- Conduct seminars, webinars and discussion panels

Career Prospects:

- The course will be beneficial to students and professionals. It will help individuals in pursuing their academic and career goals.
- Prepare for careers in CBRN response teams.
- Prepare for careers in government and corporate sectors.
- Prepare for careers in non-profit organizations including Think tanks and research oriented institutes.

For more information, visit:

- (<http://ddss.unipune.ac.in/index.aspx>)
- (<http://campus.unipune.ac.in>)

Hurry

limited seats only

Eligibility : **Graduate in any discipline**

Duration : **One Year (Two Semesters)**