

**Course Code:MCC102A**  
**Course Title:Environmental Studies**

**Lecture No: 15**

**Title: Nuclear pollution and Noise Pollution**

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# **Lecture-15**

## **Intended Learning Outcomes**

**At the end of this lecture, students will be able to**

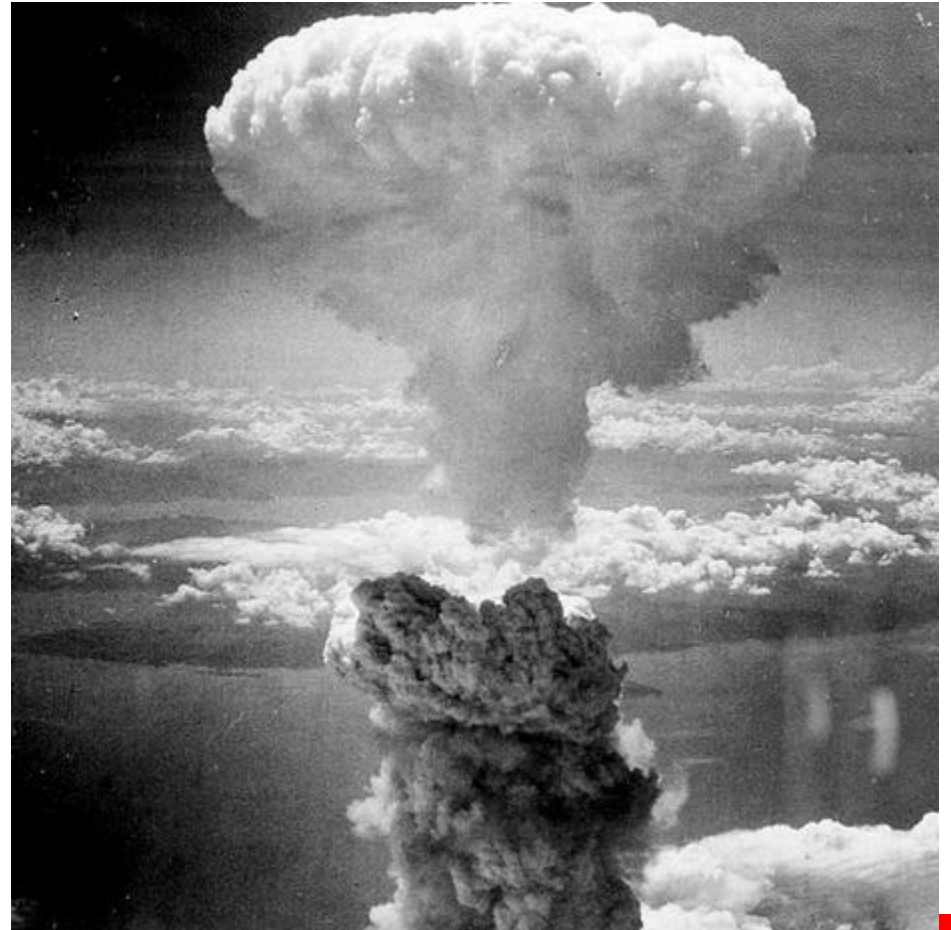
- Define Nuclear pollution and Noise Pollution
- Describe different sources of noise pollution
- Discuss effects of noise pollution
- Illustrate the preventive measures of Noise pollution



# Nuclear pollution

Nuclear waste pollution is pollution created by mishandling and inappropriate storage of spent nuclear fuel rods

- It causes blood and bone cancer
- It disrupts normal functioning of thyroid, and consequently produces abnormal growth and metabolism



# Noise Pollution

The term noise is applied to the sound that cause irritation on hearing of healthy human being.

## Sources

- Transport noise- Originates from road traffic (vehicular), air craft and rail traffic.
- Industrial noise- It produced by presses; punch and stamp machine, pneumatic drills, milling machines, cutter and routers, dust extractors. etc.
- Domestic noise- It is generated from domestic appliance like washing machines, spin dryers, food mixer, sink waste grinder and vacuum cleaner.



# Noise Pollution

- Supersonic plane is very noisy, and some believe its **sonic booms** harm the environment



- In addition to adversely impacting urban air quality, heavy automobile traffic creates seemingly unbearable noise pollution





# Noise Pollution

- Animals such as whales use water to communicate with one another over great distances.
- Human-generated noises in the ocean, such as engine noises by boats, may interfere with animal communication



# Effects Of Noise Pollution

- Hearing damage from noise exposure
- Pathological and Physiological disorders
- The impact of noise may cause permanent hearing loss due to the exposure to noise levels exceeding 90 dB



# Effects Of Noise Pollution

## Tinnitus

- Persistent sound in one or both ears.
- Tinnitus is often experienced as a high-pitched hiss, ring, buzz, or roar.
- It is usually continuous, but it may pulsate, and the beats may coincide with the heartbeat.





# Effects Of Noise Pollution

## Tinnitus

Noise intensity	Health hazards
80	Annoyance
90	Hearing damage
95	Very annoying
110	Stimulation of reception in skin
120	Pain threshold
130	Nausea,vomiting
140	Pain in ear
150	Burning of skin
160	Rupture of tymphonic membrane
180	Permanent damage



# Preventive Measures

- Even after noise is generated, steps can be taken to reduce human exposure to it.
- At homes or in offices, insulation of walls and double-glazing of windows
- Sound proof walls along highways can shield nearby neighborhoods from traffic noise.
- Individuals - with earplugs or ear protectors,



# Summary

- Nuclear waste pollution is pollution created by mishandling and inappropriate storage of spent nuclear fuel rods
- The term noise is applied to the sound that cause irritation on hearing of healthy human being
- Transport noise , Industrial noise , Domestic noise are different sources of noise pollution

