

Laser Radiation Safety Course

Centre for Radiation and Nuclear Science (CRPNS) will be conducting a General Course on Laser Safety. This course is designed for those who have little or no knowledge of Laser Safety but need to know its fundamental principles in the course of their work.

The course is conducted in 7 sessions (i.e. 6 lectures and 1 written test), 2 hour per session and the course fee is \$500 plus GST per participant. Certificate will only be awarded upon successfully passing the written test which comprised of 50 multiple choice questions.

Syllabus:

- 1 Differences between Ionising radiation & Non-Ionising radiation
Characteristics, Sources, Types, Biological effects**
- 2 Laser Radiation & Safety**
 - a Physical Characteristics for Laser Radiation**
 - b Sources for Laser Radiation and Types of Lasing Systems**
 - c Classification of Laser Devices
How laser systems are classified and Classes of Laser Systems**
 - d Laser Applications:**
 - i Industrial applications & Examples**
 - ii Medical applications & Examples**
 - iii Research applications & Examples**
 - e Laser Radiation Hazards and its Exposure Limits
Ocular & Skin Exposure to Laser Radiation, and Exposure Limits**
 - f Laser Radiation Safety guides**
- 3 Radiation Protection Act & Radiation Protection (Non-Ionising Radiation)
Regulations**
 - a Ultraviolet sunlamps**
 - b Microwave ovens**
 - c Medical and Industrial Ultrasound Apparatus**
 - d Magnetic Resonance Imaging (MRI) apparatus**
 - e Entertainment Lasers**
 - f High Power Lasers**
- 4 Various Types of NIR Licences Issued by CRPNS Licences N1, N2, N3, N4a, N4b**

Should you have any further enquiry, please contact:

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