



Certification Course in **NEURORADIOLOGY**

(Course Duration - 2 months)



The Royal College
of Radiologists

Introduction

The Certification Course in Neuroradiology is a 2-month online course, featuring e-learning material co-authored by **E-integrity, NHS UK**, and the **Royal College of Radiologists** for doctors seeking to build expertise in Neuroradiology. This program, with 14 modules and 14 chapters, covers in-depth exploration of neuroradiology fundamentals, covering MRI sequences for brain pathologies, procedural insights into Radiculogram, myelogram, spinal imaging techniques, and CT angiography, alongside comprehensive topics such as trauma, stroke, neurovascular anatomy, and advanced diagnostic skills for neurological conditions, offering a comprehensive approach to neuroradiology.



About OC Academy

OC Academy is India's leading online upskilling platform for doctors. In collaboration with 35+ global institutes and 20+ hospitals, OC Academy curates industry-specific short term and long term courses, fostering a community for medical upskilling. Our online programs, designed to meet the evolving demands of the medical field, prioritise quality, accessibility and flexibility. OC Academy envisions a future where healthcare professionals in India have unparalleled access to transformative education, driving excellence in patient care.

Certificate

Upon completing the programme, you will receive a “certificate of completion”.



Teaching Methodology

Experience dynamic learning with content modules within the e-learning materials curated by expert doctors from internationally acclaimed institutions. Exploring concurrent topics and chapters at one's own pace, with guidance from the latest insights of industry professionals, ensures a comprehensive understanding of the specialty.

- **Interactive training:** The teaching methodology prioritises interactivity, with reading material authored by practising clinicians featuring content to enhance learning.
- **Global relevance for clinical trainees:** Designed to benefit clinical trainees worldwide, this program utilises scenario-based learning to improve skills in neuroradiology.
- **Practical scenario-based learning:** Participants engage in virtual ward simulations, practising history reviews, examinations, management planning, and outcome assessments for improving skills in neuroradiology.
- **Convenient online accessibility:** This certification course allows studying from anywhere, facilitating quality e-learning material co-authored by prestigious institutions like the Royal College and NHS UK.





COURSE CURRICULUM



Certification Course in Neuroradiology

- Module 1 | Brain: Imaging Techniques and Work Practices
- Module 2 | Brain: Neuroanatomy and Congenital Abnormalities
- Module 3 | Brain: Stroke
- Module 4 | Brain: Subarachnoid Haemorrhage and Vascular
- Module 5 | Brain: Primary and Secondary Neoplasms
- Module 6 | Brain: Infection and Inflammation
- Module 7 | Brain: Demyelination and Neurodegenerative
- Module 8 | Brain: Trauma of the Brain
- Module 9 | Brain: By Symptom
- Module 10 | Spine: Techniques, Anatomy and Degenerative Changes
- Module 11 | Spine: Neoplasms
- Module 12 | Spine: Vascular
- Module 13 | Spine: Spinal Trauma
- Module 14 | Spine: Infection and Inflammation of the Spine

Curriculum Overview

Module 1 | Brain: Imaging Techniques and Work Practices

Module 1 provides an overview of essential brain imaging techniques, from plain skull radiographs and MRI to advanced angiography and ultrasound, emphasising practical approaches and case-based studies for accurate diagnosis and effective neuroradiology practices

Module 2 | Brain: Neuroanatomy and Congenital Abnormalities

Module 2 covers the essential aspects of neuroanatomy, focusing on brain and spinal imaging, congenital malformations, neurovascular anatomy, and functional neuroanatomy, providing a comprehensive understanding of craniospinal structures and their abnormalities.

Module 3 | Brain: Stroke

Module 3 provides comprehensive insights into stroke, covering neurovascular ultrasound, basic and unusual stroke causes, stroke mimics, primary intracerebral haemorrhage (ICH), secondary prevention strategies, and white matter abnormalities in older adults.

Module 4 | Brain: Subarachnoid Haemorrhage and Vascular

Module 4 covers the diagnosis, imaging techniques, treatment, and prevention of subarachnoid haemorrhage, including detailed discussions on intra-arterial cerebral angiography, CTA, MRA, cerebral arteriovenous malformations, and cerebral venous diseases.

Module 5 | Brain: Primary and Secondary Neoplasms

Module 5 provides an overview of various brain tumours, including primary types like gliomas, choroid plexus tumours, medulloblastomas, and tumours of the pituitary and hypothalamus, as well as secondary issues such as meningiomas, vestibular schwannomas, intracranial metastases, central nervous system lymphoma, and radiation injury, emphasising their characteristic imaging features and differential diagnosis.

Module 6 | Brain: Infection and Inflammation

Module 6 covers various infections affecting the brain, including brain abscesses, parenchymal infections (congenital, bacterial, tubercular, fungal, parasitic, viral, and opportunistic), and infections of the brain's external spaces like epidural and subdural abscesses.

Module 7 | Brain: Demyelination and Neurodegenerative

Module 7 covers imaging techniques for diagnosing brain demyelination and neurodegenerative disorders, including dementia, Parkinson's disease and similar disorders, multiple sclerosis and its mimics, and degenerative brain conditions related to alcohol use and Korsakoff's syndrome.

Module 8 | Brain: Trauma of the Brain

Module 8 covers the essentials of brain trauma, including diagnosis with plain skull radiographs, understanding basic and diffuse brain injuries, recognizing complications like skull fractures and coma, and performing emergency CT brain interpretation.

Module 9 | Brain: By Symptom

Module 9 covers the clinical presentations, diagnosis, and management of various neurological conditions including Hydrocephalus, Psychiatric Disorders (Schizophrenia and Depression), Headaches, Epilepsy, and Visual Failure.

Module 10 | Spine: Techniques, Anatomy and Degenerative Changes

Module 10 provides a comprehensive overview of spinal anatomy, imaging techniques, and the diagnosis and management of degenerative spinal conditions.

Module 11 | Spine: Neoplasms

Module 11 focuses on spinal neoplasms, covering primary tumours of the spinal cord, extramedullary tumours, and secondary tumours affecting the spine.

Module 12 | Spine: Vascular

Module 12 explores spinal vascular anomalies, focusing on their identification, classification, and management strategies.

Module 13 | Spine: Spinal Trauma

Module 13 delves into spinal trauma, covering both its acute impact and long-term consequences on the spinal cord.

Module 14 | Spine: Infection and Inflammation of the Spine

Module 14 covers spinal infections, focusing on their causes, symptoms, and treatments to address inflammation and infection affecting the spine.



Course Fees



Course Name

Certification Course
in Neuroradiology



Duration

2 Months



Certification

Certificate of
completion



Price

Rs.11000
+ GST

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Why take this course?



Fast-track career growth



Convenient online learning



Comprehensive learning
with expert-led curriculum



OC Academy (Accelerate Your Career in Medicine)

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