



SUBJECT: Xray Film / Image processing Techniques

including Dark Room Techniques.

YEAR: 2023-2027

UNIT: 1

TOPIC: XRAY FILM CONSTRUCTION

X-Ray Film Construction

Photography Radiology Medical Imaging

Base

Polyester Film

Properties: Flexibility, dimensional stability, toughness

Adhesive Layer

Bonds emulsion to base

Ensures even coating

Emulsion Layer (Double-coated)

Silver Halide Crystals (AgBr, AgI)

Light-sensitive component

Size and distribution affect image sharpness and speed

Gelatin

Suspends silver halide crystals

Provides mechanical strength

Two Layers for Increased Sensitivity

Protective Layer

Prevents scratching and abrasion

Reduces contamination