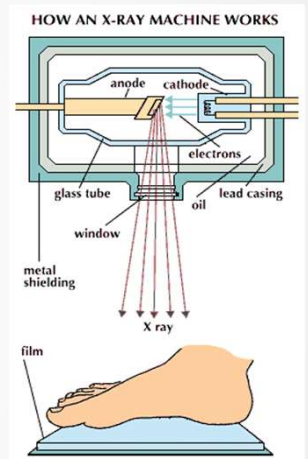


## X-Rays

- ❑ **X-rays** are a type of radiation called electromagnetic waves. **X-ray** imaging creates pictures of the inside of your body. The images show the parts of your body in different shades of black and white. This is because different tissues absorb different amounts of radiation.
- ❑ X rays are the ionizing electromagnetic radiation emitted from a highly evacuated high-voltage tube. Inner orbital electrons in the target anode are stimulated to emit x-radiation via bombardment by a stream of electrons from a heated cathode.
- ❑ X-ray technology was discovered in 1895.
- ❑ In many languages, X-radiation is referred to as **Röntgen radiation**, after the German scientist Wilhelm Conrad Röntgen, who discovered it on November 8, 1895.



The first x-ray image obtained was of the hands of Wilhelm Roentgen's wife, taken on 22nd December, 1895

## Uses:

- ❑ Based on the energy of the radiations, x-rays have wide range of uses like in the medical field, industrial work places, security purposes etc.
- ❑ Used in X-Ray scanners.
- ❑ X-Ray crystallography.
- ❑ Industrial radiography and CT scanning.
- ❑ X-Rays has an immense role in the medical field – diagnostic as well as therapeutic.

## Limitation of the conventional X-ray

- ❑ Requires long time to expose the Patient with high dose.
- ❑ Requires long time to Develop the film.
- ❑ It's hard to recycle the film.
- ❑ Low in image quality.



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TAE Assessment Sheet for FY Btech

SR.NO	ROLL NO	DIVISION	NAME OF THE STUDENT	TAE NO	POSTER/PRESENTATION
	1A69	A	Soham Yugraj Tiwari		2POSTER
	2A70	A	Amaan Ayyub Nalband		2POSTER
	3A71	A	Shravan Vijaypratap Singh		2POSTER
	4A72	A	Pratik Rajesh Jade		2POSTER
Rubrics For Assessment					
CATEGORY	Contents	Presentation	Spelling and pronunciation	Oral Presentation	TOTAL
MARKS	2	1	1	1	5
			Teacher sign (With name and date)		