



**ABBAA TAAYITAA SAAAYINSII FI
TEEKINOLOOJII OROMIYAA**

**QABIYYEE HOJII
D/T/F/T/BALAQQEE**

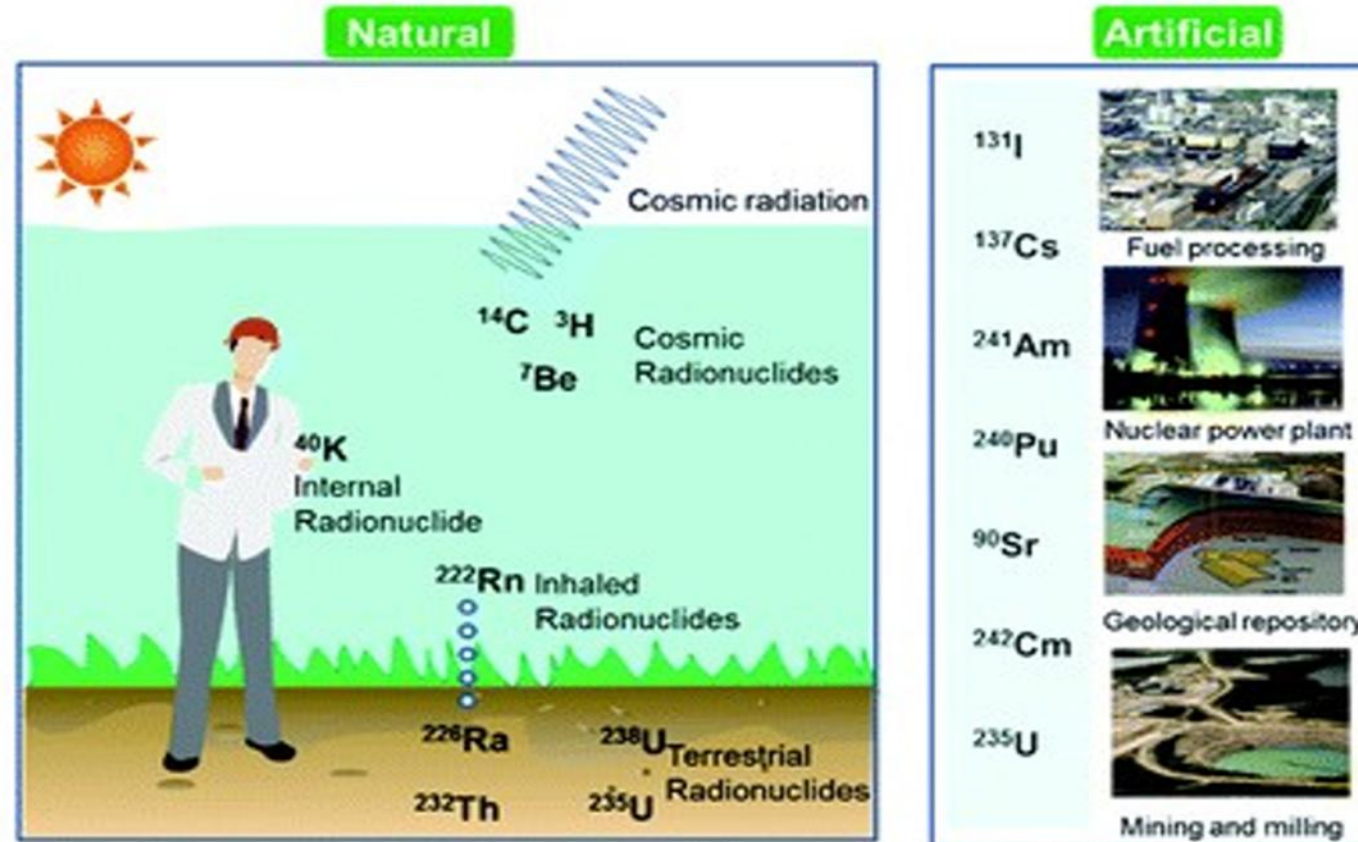


Hojiiwwan Akka Daay. To'annoo fi Itti Fayyadama Teekinoolojii Balaqqeetti Hojjetaman

- Daayirektoreetiin To'annoo fi Itti Fayyadama Teekinoolojii Balaqqee Caaseeffama Abbaa Taayitaa Saayinsii fi Teekinoolojii Oromiyaati dame ce'umsaa Teekinoolojii keessaa isaa tokkoo yemmu ta'u garee lama kan of jalati qabuu fi garee tokkoffaan To'annoo fi Duuka bu'iinsa Balaqqee fi garee lamaffaaPn Itti fayyadama teekinoolojii Balaqqeeti.
- Hojii ijoon labsiidhan kallattin daayirektoreetii kanaaf kenname “Hojiiwwan himmoota balaqqee(radiation) naannicha keessatti gaggeeffamu ol'aantummaadhaan ni to'ata; hojii irra oolmaa isaas ni hordofa” kana ka'umsa gochuudhan hojiiwwan daayirektoreetii kanaa: -
 - ❖ Dhimma Balaqqee irratti hawaasa garaagaraf hubannoo laata;
 - ❖ Qo'annoo fi Qorannoo madden balaqqee irratti gaggeessun bu'aa irratti hunda'uun kallatti ka'a;
 - ❖ Meeshaalee madda balaqqee/ balaqqee maddisiisan qaamni itti fayyadamuu barbaade dursa heyyama fi ulaagaa barbaachisaa ta'ee guutachuu isaa mirkaneessa;
 - ❖ Inispeekshinii meeshaalee namtolchee madda balaqqee/ balaqqee maddisiisan irratti gaggeessun, bu'aa isaa irratti hunda'uun tarkaanfii sirreffama ni fudhata;
 - ❖ Meeshaalee madda balaqqee ta'an kan tajaajila isaanii xumuran akkaata itti dhabamsiifamanii, iddoo ka'aman fi itti to'ataman irratti ni hojjeta.

Balaqqee(Radiation)

Radiation is the emission of energy either by means of electromagnetic waves or particles. It is all around us.



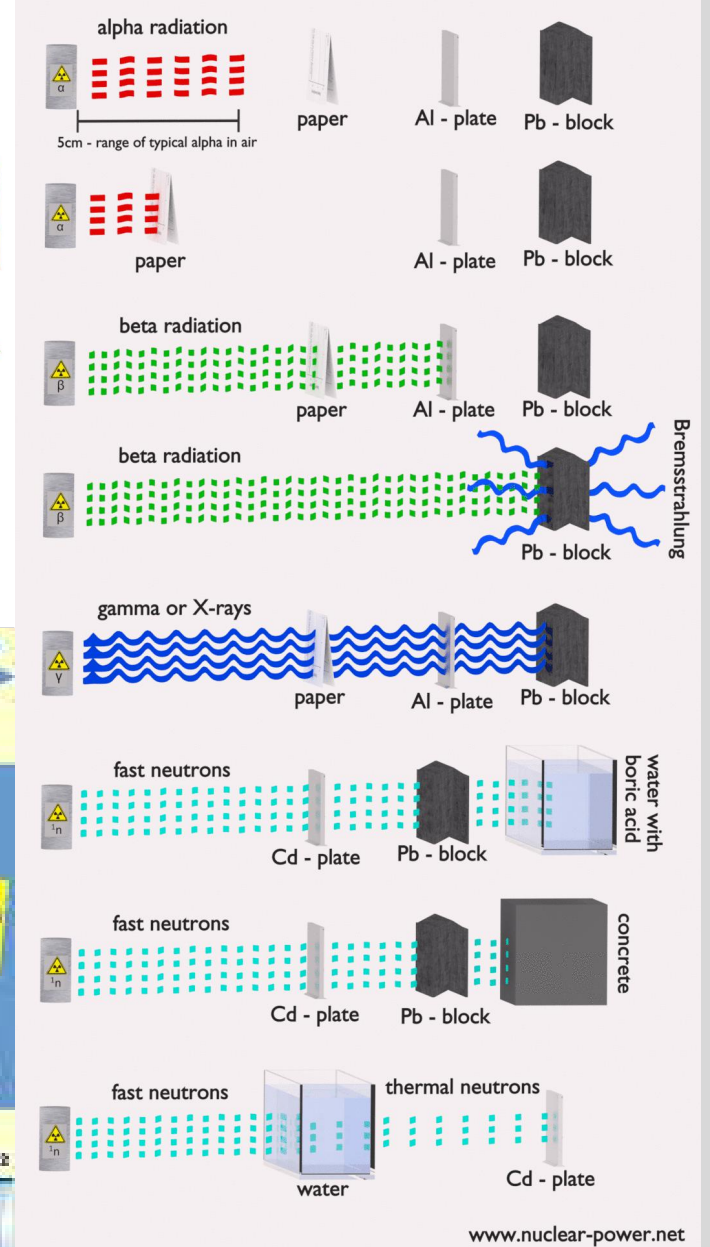
Electromagnetic Spectrum

Non-Ionizing

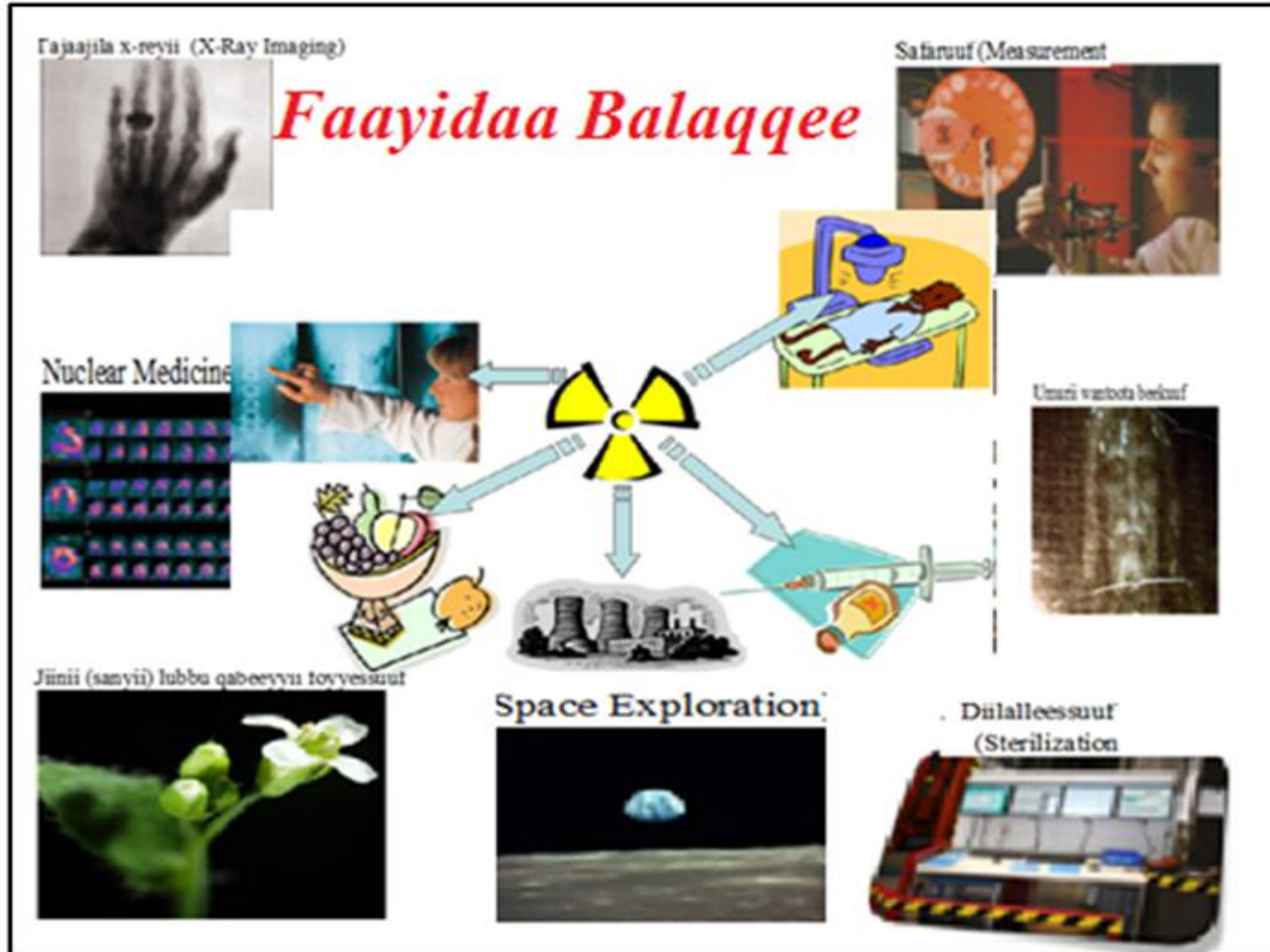
Ionizing

Low Frequency

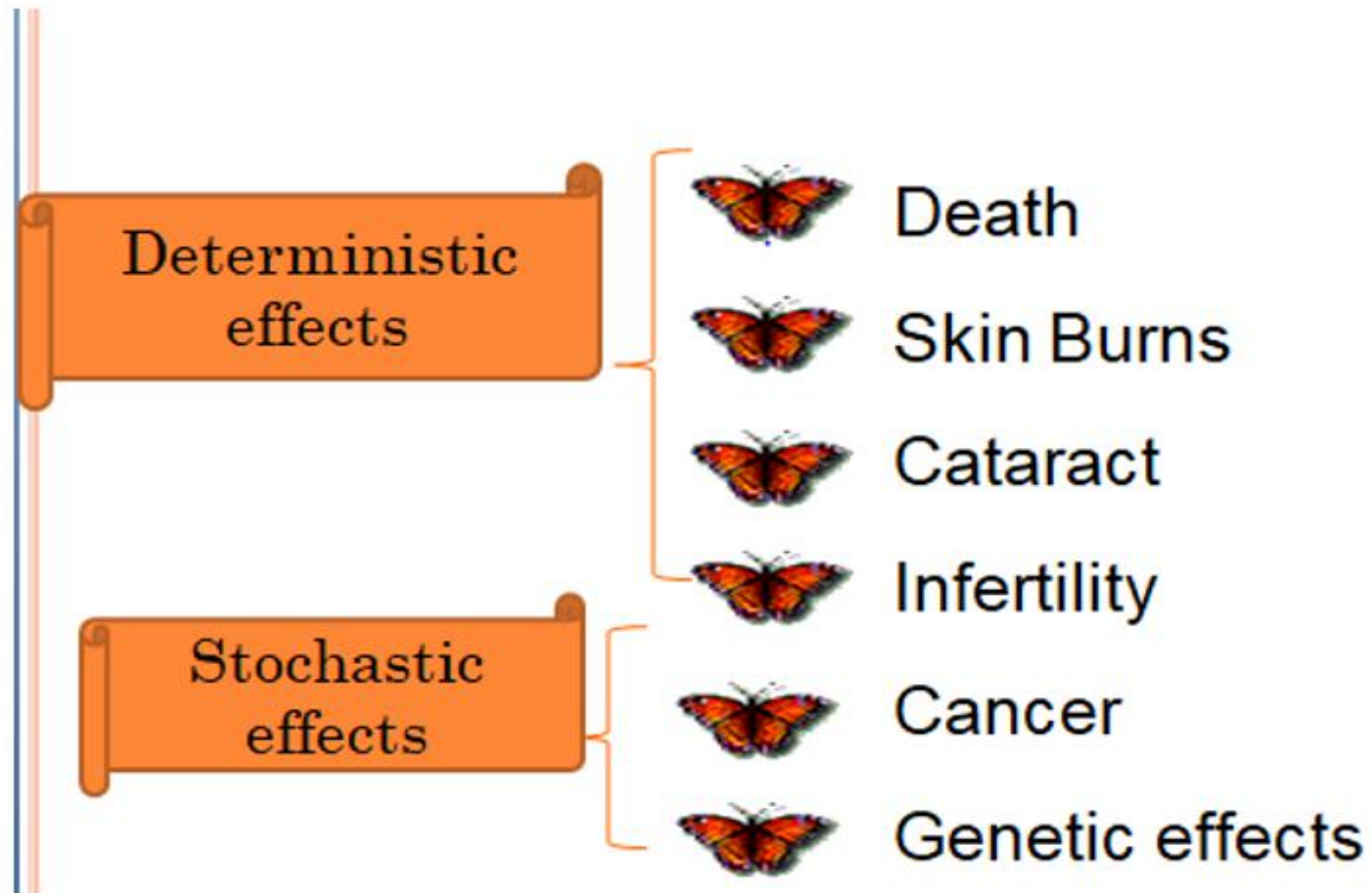
High Frequency



Faayidaa Balaqqee (Uses of Radiation)



Types & Biological Effects of Radiation



The Effects of Radiation Depends on:

- p¹ Type of radiation
- p² Amount of exposure
- p³ Rate of Exposure
- p⁴ Area of body irradiated
- p⁵ Individual Biological Variability



1. Basic system of Radiation protection /ICRP



Justification



Optimization and



Dose limitation



2. Practical means of Radiation Protection



Time



Distance and



Shielding

