



# SNS COLLEGE OF TECHNOLOGY

*(An Autonomous Institution)*

*Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai*

*Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &*

*Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)*

**COIMBATORE-641 035, TAMIL NADU**



## Department of Biomedical Engineering

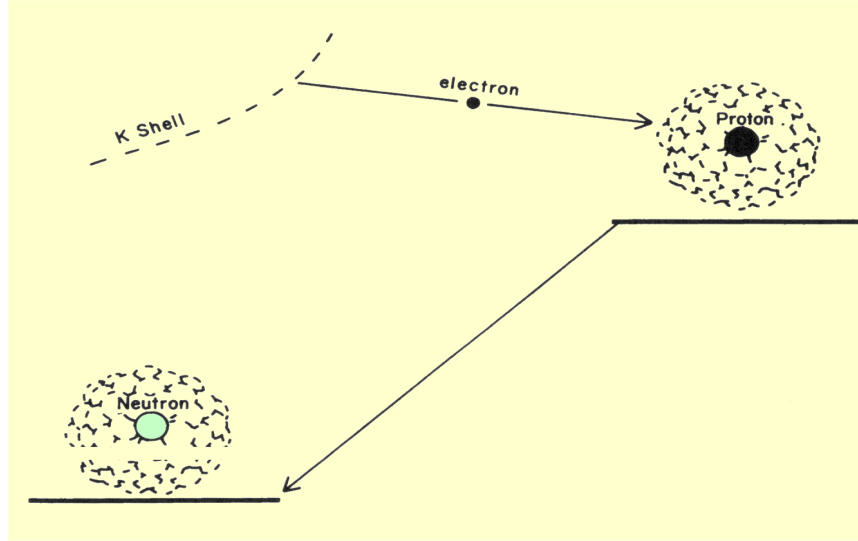
**Course Code & Name: 19BME301 & Medical Physics**

**III Year : V Semester**

**Unit I – RADIATION AND RADIOACTIVE DECAY**



# Electron Capture (isobaric transition)

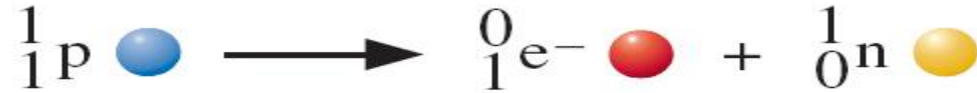


- A nucleus can also relieve a low neutron-proton ratio by capturing and absorbing an electron from a shell.
- This results in the reduction of the atomic number by one unit. Since the mass number does not change, electron capture is an isobaric transition.



## Electron capture

The decay of an unstable nucleus by capture of an electron from an inner orbital of the atom. Electron capture is equivalent to a proton converting to a neutron.





## electron capture:

