

SHAPE OF THE POLY ATOMIC MOLECULES

SR.S.SAHAYA LEENUS

ASST. PROF .OF CHEMISTRY

The molecule have two bond pair alone
then the shape is linear



The two bond pair and unpaired electron

–bend shape



Two bond pair and one unshared pair –
bend or “v” shape

eg: NO_2^- ,

Two bond pair and two unshared pair

– bend

Eg: H_2O

Three bond pair alone – planar triangular



Three bond pair and one unshared pair –
Pyramidal



Three bond pair and two unshared pair – “T”
shaped



Four bond pair alone –tetra hedral

Eg: CH_4

four bond pair and one unshared pair –
trigonal bi pyramidal

Eg: XeO_2F_2

four bond pair and two unshared pair-
square plannar

Eg: ICl_4^-

Five bond pair alone – trigonal bi pyramidal



five bond pair and one unshared pair – square pyramidal



five bond pair and two unshared pair – pentagonal planar



Six bond pair alone – octahedral

Six bond pair and one unshared pair –
distorted octahedral

Eg: XeF_6