

CORE COURSE XII – BIOSTATISTICS

Objective : To equip the students with the relevant aspects of Bio - Statistics

Unit - I - Statistics:

Mean, Median, Mode, Standard Deviation, Normal Distribution.

Unit - II Bio Statistics :

Definition & scope – Birth & Death Registration – Functions & uses - record keeping. Methodologies; efficiency, barriers – essential health data with special reference to demography of population dynamic

Unit III Fertility related statistics

Birth rate, General fertility rate, general material fertility rate, age specific fertility rate, age specific material fertility rate, child - women ratio – marriage rate, pregnancy rate, abortion rate.

Unit IV

Measurement of mortality rate, Death rate, crude death rate, specific death rates, case fatality rate, proportional mortality rate, standardized mortality rate, infant mortality rates, maternal mortality rate, foetal death. Measurement of morbidity Incidence rates, prevalence rates.

Unit V Hospital Statistics:

Outpatient statistics - daily average outpatient attendance, average out patient attendance etc. Inpatient statistics – Bed occupancy rate, bed turn over rate. Hospital morbidity mortality - gross & net death rate, Institutional death rate, anesthesia death rate, post operative death rate, MMR, IMR

Text Books :-

S.No	AUTHOR	TITLE	PUBLICATION
1.	D.N.Eihance / Veena Eihance, B.M.Agarwal	Fundamentals Statistics	Of Kitab Mahal
2.	Richard I.Levin David S.Rubin	Statistics Management	For T.M.Publication

Reference Books:

1.	Mendel Hall.W	Introduction Probability Statistics (7 th Ed)	To And T.M.Publication
2.	P.S.S.Sundar G.Jesudian & J.Richards	Rao An Introduction Biostatistics	To ----