SYLLABI OF COURSES FOR DIPLOMA PROGRAMME IN MEDICAL ELECTRONICS, LEVEL IV & V 26

			4199	9 - BIOS'	TATISTI						
	Cal Jula D	Progressive		Examination Schedule (Marks)							
Teaching Schedule P.		Credits	Assessment		Theory		Practical Ex.			Total	
Lectures	Practical	Creana S	25 25	25	3brs -		100			150	
13 2	2	Source	1-1-		Theory	Test	Total	TW	PR	Gr Tota	
Pre-requisite Nil		MFX	UI S	Semester			-	100	100	200	

Rationale: The science of statistics has a definite place in the skill sets of Medical Electronics. Technician knowledge of statistical methods opens up new paths of experimental procedures knowledge of Bio statistics will help the student to understand and interpret the facts and findings of medical research.

COURSE CONTENTS	Hrs	Mks
COURSE CONTENTS	8	12
I. INTRODUCTION: Meaning of statistics; limitations in statistics; medical statistics: application & uses of Bio statistics as a science. Common statistical terms: variable, constant, observation, observatorial unit, Data, population, sampling unit, sample parameter, and statistic. Notation for population & sample value.	16	25
2. SOURCES & PRESENTATION OF DATA: Sources for collection of medical statistics namely, experiments, surveys, records methods of presentation: Tabulation; frequency distribution drawings for quantitative and qualitative date	10	16
3. MEASURES OF CENTRAL TENDENCY:	8	10
 MEASURES OF LOCATION: Percentiles, graphic method and Arithmetic method. Application & uses of percentile. 	14	25
5. VARIABILITY & IT'S MEASURES Types of variability Biological real and experimental. Measures of variability of individual observation; range interquartile range, mean deviation, standard		
demotion 6. DESIGNING AND METHODOLOGY OF AN EXPERIMENT OR A STUDY: Steps and methodology, format for presentation for any research work.	8	12
Steps und methodor-87	64	10

medical survey and prepare a format for presentation.

REFERENCE BOOKS

1. Methods in Biostatistics -Dr. B. K. Mahajan.

HUMAN RESOURCE, & CURPICULUM DEVELOPMENT CELL, DIRECTORATE OF TECHNICAL EDN, GOA.VL-XVI