

**Year 01 Semester 02 module (CLR module 02)**

**Credits: 2**

Areas covered – Medical Statistics and English language.

	Topic	Learning objectives	Teaching/ Learning activity	Department/ teacher	Duration
1	Introduction to medical statistics	To define and describe the scales of measurements To define the variables To describe the classification of variables	Lecture with exercise	Community Medicine/SDD	02 hours
2	Introduction to descriptive statistics	To define, describe and construct the different methods of data presentation.	Lecture with exercise	Community Medicine/SDD	03 hours
3	Introduction to descriptive statistics, numerical measures	To define, describe and discuss; measure of central tendency, measure of location, measure of variability	Lecture with exercise	Community Medicine/SDD	04 hours
4	Introduction to probability	To define and describe the probability To describe the laws of probability To apply the laws of probability in appropriate situations and calculations	Lecture with exercise	Community Medicine/SDD	01 hour
5	Introduction to normal distribution	To define and describe the normal distribution To describe the Z transformation To apply the normal distribution and the z transformation in calculations		Community Medicine/SDD	03 hours
6	Introduction to inferential statistics and Z distribution	To define and describe the population, sample, sampling variation, standard error of the mean, sampling distribution of mean and the sampling distribution of difference. To use these concepts in calculations To define and describe point and interval estimates. Define and describe hypothesis testing, null, the alternative hypothesis and P value of a significant test. Define and describe one tail and two tail tests		Community Medicine/SDD	04 hours

7	Introduction to t distribution	To define and describe the t distribution To define and describe the pooled , independent t test To define and describe paired dependent t test		Community Medicine/SDD	02 hours
8	Introduction to proportions  Introduction to errors in hypothesis testing	To define and describe the sampling distribution of the proportion To use this concept in estimations and hypothesis testing of proportions To define and describe the errors which can occur in hypothesis testing.		Community Medicine/SDD	02 hours
9	Introduction to non parametric methods	To define and describe Wilcoxon Rank sum test Kruskal Wallis test Spearman correlation test		Community Medicine/SDD	02 hours
10	Introduction to categorical data analysis	To define and describe Goodness of fit tests Test of independence		Community Medicine/SDD	02 hours
11	Introduction to sampling	To describe different probability sampling methods To define non probability sampling methods To describe the concepts in selecting the appropriate sampling methods		Community Medicine/SDD	02 hours
12	Introduction to regression and correlation	To define and describe regression, correlation and use of these concepts in calculations		Community Medicine/SDD	02 hours
13	English Language	To learn reading comprehension skills, contextual reference, rephrasing, relationship between sentences, question forms, 'ing'	Group/pair work	ELTU/Staff of ELTU	07 hours

	clauses, listening and comp., vocabulary building, dictation, group presentation			
	To learn reading comprehension skills, speech, presentations, dictation, verb forms	Group/pair/individual work	ELTU/Staff of ELTU	05 hours
	To learn reading comprehension skills, definition, structure, location, function, composition, active/passive, simple, complex and compound sentences, vocabulary, listening and comp.,  To learn cause and effect phrases and speech	Group/pair and individual work	ELTU/Staff of ELTU	08 hours
	To learn reading comp. skills, comparisons, question and answers, speech- presentation skills and writing.	Group/pair/individual work	ELTU/Staff of ELTU	04 hours

### Evaluation

Examination type	Number of questions	Duration	Credits
Structured questions	04	90 minutes	02
essay type question (English language)	01	30 minutes	
	05	02 hours	