ST. JOSEPH'S FIRST GRADE COLLEGE, HASSAN
(Affiliated to the University of Mysore)

LESSON PLAN 2018-2019

Quantitative Techniques II (4 Hours per week)
CLASS : VI SEM B.COM

Prepared by:

Pradeep Kumar V

Objectives of the Subject: *T*o introduce the students about basic mathematics and their application in Business .

UNIT/ SESSION/ HOURS (TIME REQUIRED)	TOPICS FOR STUDENT PREPARATION (INPUT)	PROCEDURE (PROCESS)	LEARNING OUTCOME (OUTPUT)	ASSESSMENT
MODULE 1: **Set theory** **12 Hr.**	Set- theory-types and operations of set application of venn diagram to represent problems on sets.	Lecture Discussion Problems solving	To understand Concepts set theory and business application of it	Descriptive Test, MCQ
MODULE 2: **Permutations and combination 12 Hrs.**	Permutation and combination: principles of counting, factorial. Combination - application problems using permutation and combination formula	Lecture Discussion Problems solving	To understand what is permutation and combination and their particle problems, even in competitive exams	Descriptive Test, MCQ
1st CIA				

MODULE 3: **Probability** **10 Hrs.**	Probability – meaning and definition various terminology used in probability application to business	Lecture Discussion Problems solving.	To know probability problem in real business world	Descriptive Test, MCQ
		2nd CIA		
MODULE 4: **Theoretical** **distribution** **12 Hrs.**	Theoretical distribution-binominal Poisson and normal Distribution and their application to business	Lecture Discussion Problems solving	To understand Theoretical distribution- binominal Poisson and normal Distribution and their application to business	Descriptive Test, MCQ
MODULE 5: **Sampling** **14 Hrs.**	Sampling – Introduction – objective – principles – census versus sample enumeration limitation – errors types of sampling how to judge reliability of sample.	Lecture Discussion Problems solving	To understand Sampling and their application to business	Descriptive Test, MCQ
		3rd CIA		

MODULE WISE LESSON PLAN

HOUR WISE LESSON PLAN

Subject: **Quantitative Techniques I**

Lecture Hours: 60 Hrs.

Sl. No.	Unit & Objectives	No. of LH	Methodology/ Instructional Techniques	Evaluation
Module 1.	**Set theory**	**12**		**Question & Answer, Tests**
1.	Introduction	2	Lecture and Illustrations.	
2.	Types and operation of set	3	Lecture and Illustrations.	
3.	Application problems	3	Lecture and Illustrations.	
4.	Venn diagram	2	Lecture and Illustrations.	
6.	Revision	2	Lecture and Illustrations.	
	1st CIA			
Module 2.	**Permutations and combination**	**12**		**Question & Answer, Tests**
1.	Introduction and meaning	2	Lecture and Illustrations.	
2.	Linear and circular permutation	3	Lecture and Illustrations..	
3.	Combination problems	3	Lecture and Illustrations.	

4.	Application problems on permutation and combination	3	Lecture and Illustrations.	
5.	Revision	1	Questions/ Viva	
Module 3.	**Probability**	**10**		**Question & Answer, Tests**
1.	Introduction and meaning	2	Lecture and Illustrations.	
2.	Various terminology	2	Lecture and Illustrations.	
3.	Application of probability theory to business	4	Lecture and Illustrations.	
5.	Revision	2	Questions/ Viva	
	2nd CIA			
Module 4.	**Theoretical distribution**	**12**		**Question & Answer, Tests**
1.	Introduction and meaning	2	Lecture and Illustrations.	
2.	Binominal Poisson and normal Distribution	2	Lecture and Illustrations.	
3.	Their application to business	6	Lecture and Illustrations.	
4.	Revision	2	Questions/ Viva	
Module 5.	**Sampling**	**14**		**Question & Answer, Tests**
1.	Introduction and meaning	2	Lecture and Illustrations.	
2.	Objective – principles – census	2	Lecture and Illustrations.	
3.	census versus sample enumeration	3	Lecture and Illustrations.	
4.	Errors types of sampling	3	Lecture and	

				Illustrations.	
5.	How to judge reliability of sample	2	Lecture and Illustrations.	
6.	Revision	2	Questions/ Viva	
	3rd CIA			

References:

1. **Dr. B H Suresh and Mahadevaswamy G.H, Quantitative Techniques, Nithya Publication, Mysore.**

2. **P.R Vittal: Business Mathematics**

3. **V.K Kapoor : Introductory to Business Mathematics**

4. **R.S Agarwal : Quantitative aptitude**

5. **R. H Dareshwar : Commercial Arithmetic's.**

Thanking You,

Yours Faithfully,

Pradeep Kumar V