

THE ICAI UNIVERSITY JAIPUR  
IBS Business School  
Course Handout  
MBA  
First Semester: 2015 – 2016

Course Code/No.	Course title	L	P	U
SLRM 501	Quantitative Methods	3	0	3

**1. Instructor-in-charge:** Prof. Amit Bhati  
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**2. Scope & Objective of the course:**

To equip students with the essential concepts, tools and techniques necessary for robust managerial decision making.

**3. (a) Textbook(s):**

T1	Statistics for Management, Levin/Rubin/Rastogi/Siddiqui, by Pearson, 7 <sup>th</sup> Edition
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**(b) Reference book(s):**

R1	Quantitative Methods, IUP
R2	Quantitative Techniques for Management Decisions 2 <sup>nd</sup> e, Srivastava, U K <i>et al.</i> New Age International
R3	Quantitative Methods for Business 9 <sup>th</sup> e, Anderson, David R <i>et al.</i> South-Western Educational Publishing
R4	Quantitative Analysis for Management 10 <sup>th</sup> e, Barry, Render <i>et al.</i> Prentice Hall of India

**(c) Other readings:**

**Financial daily** The Economic Times, Business Standards etc.

(e-copy of finance news papers can be read from the respective websites)

Finance Magazines: Business India, Business World, Business Today etc.

**4. Lecture-wise plan**

<b>Lecture/ Session Nos.</b>	<b>Learning Objectives</b>	<b>Topics to be covered</b>	<b>Reference (Chapter/Sec./ Page Nos. (of Text/ Ref. Books)</b>
1-4	To understand the different scales of measurement, to know the objectives of averaging.	Scales of Measurement, Review of central tendencies dispersion.	T1: Ch.3/Pg. 73-135
5-7	To understand the concept of probability, random variables, covariance and probability distributions	Probability and Probability Distributions	T1: Ch.4/Pg.153-196
8-10	To understand the concept of sampling, their types, advantages and errors.	Sampling and Sampling Distributions	T1: Ch.6/277-318
11-12	To know the theory of estimation, to understand the point and interval estimates.	Estimation	T1: Ch.7/327-36
13-17	To understand the objective of hypothesis and test its validity.	Testing of Hypotheses	T1: Ch. 8-9/379-463
18-20	To study the Chi-Square test as a test of independence.	Chi-Square	T1: Ch.11/531-596
21-24	To test the significance of differences among the sample mean using the techniques of Analysis of Variance.	Analysis of Variance	R1: Ch.16/411-419
25-30	To understand the concepts of correlation and regression between variables.	Bivariate analysis	R1: Ch.12/330-339
31-33	To identify and determine the pattern of changes in the data collected over regular intervals of time by time series analysis.	Time Series Analysis	R1: Ch.14/369-387
34-37	To understand the objectives of decision theory, its significance and implications.	Decision Trees	R1: Ch.9/252-269

**COURSE HANDOUT – QM**  
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38-40	To analyse the underlying concepts of Linear Programming, Methods and applications.	Linear Programming, Transportation and Assignment problems	R1: Ch.4/98-121

**5. Evaluation Scheme:**

Component	Duration (hr/min)	Weightage (%)	Course coverage/ Syllabus	Date	Remarks
Individual Assignment	--	7	Based on the topic related to pre-Mid-Sem syllabus	Announcement date: 08 July 2015 Submission date: 15 July 2015	Library/web research followed by Viva.
Test –I	30 min	8	1-12 sessions	15 July 2015	MCQ, Problems & theories
Class Participation (Academic Interaction)	Continuous	2			Evaluated by the instructor in the middle of the semester
Regularity in class (Attendance)	Continuous	3			Evaluated by the instructor
Mid Semester Examination	90 min	20	Session 1 – 20	28 July 2015	Closed book written Examination
Individual Assignment	--	7	Based on the post Mid-Sem syllabus	Announcement date: 24 Aug. 2015 Submission date: 31 Aug. 2015	Library/web research followed by Viva.
Test-II	30 min	8	21-32 sessions	02 Sep. 2015	MCQs, Numerical Problems & theories
Class Participation (Academic Interaction)	continuous	2			Evaluated by the instructor at the end of the semester
Regularity in class (Attendance)	continuous	3			Evaluated by the instructor
End Semester Examination	03 hrs	40	Lecture nos. 1-40, entire course	16 Sep. 2015	Closed book written Examination
	<b>TOTAL</b>	<b>100</b>			

6. **Chamber Consultation Hours:** Every Monday between 5.00 pm to 6.00 pm.

7. **Make-up Policy:** Make up tests will be allowed to the students only in case of genuine circumstances. However, there has to be a Prior and proper intimation to the undersigned.

Date: **06 May 2015**

**Prof. Amit Bhati**  
**(Instructor-in-charge)**