



# Symbiosis College of Arts and Commerce

(An Autonomous College Affiliated to University of Pune)

Subject code	Semester	I	II	III	IV	V	VI	M.Com.	I	II	III	IV
Title of Subject (For F.Y. as appeared in the prospectus) (For S.Y. & T.Y. titles can be as per the approval of BOS)		<b>Experiments (Special 6)</b>										
Objectives		<ol style="list-style-type: none"> <li>1. To familiarize the students with the use of elementary statistical techniques,</li> <li>2. To acquaint the students with the basic procedure and design of psychology experiments.</li> <li>3. To encourage students apply the knowledge to day to day life experiences.</li> </ol>										
Detailed syllabus												
Unit	Contents of the syllabus											Number of Lectures
1	<b>1. Title of the topic : ATTENTION (any one)</b> Contents : 1.1 Divided attention 1.2 Span of attention 1.3 Stroop effect											
2	<b>2. Title of the topic : PERCEPTUAL PROCESSES (any two)</b> Contents : 2.1. Illusion 2.2 Depth perception 2.3 Size constancy 2.4. Retinal color zones 2.5 Reaction time											
3	<b>3. Title of the topic : THINKING AND PROBLEM SOLVING (any one)</b> Contents : 3.1 Effect of mental set on problem solving 3.2 Maze learning 3.3 Problems solving- Pyramid puzzle / Wiggly Blocks / Heart-and-Bow puzzle											
4	<b>4. Title of the topic : LEARNING (any two)</b> Contents : 4.1 Bilateral transfer 4.2 Effect of knowledge of results 4.3 Habit interference 4.4 Serial learning 4.5 Concept Formation											
5	<b>5. Title of the topic : MEMORY (any two)</b> Contents : 5.1 Recall and recognition 5.2. Retroactive inhibition 5.3 Proactive inhibition 5.3. Short Term Memory 5.5 Immediate Memory Span											

	Total Number of Lectures
<b>Suggested Reference Books</b>	
<ol style="list-style-type: none"> <li>1. Rajamanickam, M. (2005). Experimental Psychology: with Advanced Experiments, Volume 1 &amp; 2. New Delhi: Concept Publishing Company.</li> <li>2. Mohsin, S. M. (1975). Experiments in psychology. Orient Longman.</li> <li>3. Mohanthy. Experiments in psychology.</li> <li>4. Parameshwaran, E. G. &amp; Rao, B. T. (1968). Manual of experimental psychology. Bombay: Lalvani Publishing House.</li> <li>5. Tinker, M.A. &amp; Russell, W.A. Introduction to methods in experimental psychology. Appleton – Century Crofts.</li> <li>6. Jalota, S. (1962). Experiments in psychology. Asia Publishing House.</li> <li>7. Galloti, K. M. (2004). Cognitive psychology in and out of the laboratory. USA: Thomson Wadsworth.</li> <li>8. Postman, L. &amp; Egan, J.P. (1949), reprint 2009. Experimental psychology: An introduction. ND: Kalyani Publication.</li> <li>9. D’Amato, M.R. (2009). Experimental psychology: Methodology, psychophysics and learning. N.D.: Tata McGraw-Hill.</li> <li>10. Woodworth, R.S. &amp; Schlosberg, H. (reprint 2008, 6th ed.), Experimental Psychology. ND: Oxford &amp; IBH Publishing Co. Pvt. Ltd.</li> <li>11. Desai, B. and Abhyankar, S.C. (2001). Prayogik Manasashastra ani Samshodhan Paddhati. Pune: Narendra Prakashan.</li> <li>12. Anastasi, A. &amp; Urbina, S. (2009). Psychological testing. N.D.: Pearson Education.</li> <li>13. Chadha N.K.(2009),Applied Psychometry,Sage Publication Pvt Ltd.New Delhi.</li> </ol>	
<b>Suggested Journals</b>	
<ol style="list-style-type: none"> <li>1. .Psychological Studies</li> </ol>	
<b>Web sites :</b>	
<ol style="list-style-type: none"> <li>1. . www.apa.com</li> <li>2. .www.sciencedirect.com</li> </ol>	

**A:** Statistics is a part of Practical paper. Teachers should conduct one lecture per week throughout the year for Statistics.

**B:** See the “Guidelines for S6 Paper” for other details.

### **SECTION A: STATISTICS**

#### **Objectives:**

1. To acquaint the students with the basic statistical concepts
2. To train them in solving simple statistical problems.

#### **Topics to be covered:**

Measures of variability:

1. Standard Deviation
2. Quartile Deviation (Q1, Q3 and Q for grouped and ungrouped data)
3. Rank Difference Correlation.

### **SECTION B: TESTS**

#### **GUIDELINES FOR THE CONDUCT OF PRACTICAL**

1. Each batch of students should consist of 12 students.
2. If the number of students exceeds even by 1, a separate batch should be formed for conduct of practical.
3. Each batch will conduct practical twice per week with three lecture periods per session.
4. Total workload per batch will be 6 lecture periods.
5. In addition 1 separate lecture will be held for Statistics per week for the entire class.

6. The concerned teacher should verify the completion of practical journal as well as group testing or project report and issue a completion certificate signed by the head of the department.