



# SYMBIOSIS COLLEGE OF ARTS & COMMERCE

An Autonomous College | Under Savitribai Phule Pune University

Reaccredited 'A+' with 3.51 CGPA For Third Cycle By NAAC | College with Potential for Excellence

## UG/PG (Revised Curriculum under NEP w.e.f. June 2023)

PROGRAM	BA	BA(Hon)	B.Com	B.Com(Hon)	M.Com	MA - Eng	MA- Eco	MA- Psy
Tick ✓					✓			

SEMESTER	1	2	3	4	5	6	7	8
Tick ✓	✓							

SPECIALIZATIONS									
BA	Eco	Eng	Psy	Gen					
Tick ✓									
BCOM	Costing	Banking	Entrep	MKT	Fin & Acc	Mgt Acc	HRM	Bus Analytics	Gen
Tick ✓									

<b>Name of Board of Studies</b>	Commerce
<b>Name of the Department</b>	Commerce
<b>Name of Head of Department</b>	Dr.H.M.Soman
<b>Title of the Course</b>	Introduction to Cloud and Big data
<b>Course Code</b>	
<b>Type of Course (New / Revised)</b>	New
<b>Nature of Course (Maj/Min/AEC/SEC/VEC/VSC)</b>	
<b>Number of Credits</b>	4
<b>Name of the Faculty</b>	Ms.Aishwarya Kalayanshetty and Mrs.Tripti Sharma
<b>Date of Approval by BoS</b>	June 3 <sup>rd</sup> 2023
<b>Date of Implementation</b>	June 2023

Course Outcomes
1. Explain the basics of Big Data for Business
2. Describe and list basic of statistical tools used in Big Data
3. Apply Big data in various industries and functions within

**4. Building an interactive dashboard using PowerBi**

<b>DETAILS OF SYLLABUS</b>		
<b>UNIT NUMBER</b>	<b>DETAILS</b>	<b>NUMBER OF LECTURES</b>
1	<b>1. Introduction to Big Data in Business</b> <ul style="list-style-type: none"> <li>• What is Big Data?</li> <li>• How does Big Data drive various aspects of life?</li> <li>• Types of Data- Internal and External sources of data</li> <li>• Challenges of Big Data.</li> <li>• Elements of Big Data Environment</li> </ul>	<b>06</b>
2	<b>Role of Big Data in Business- Internal and External Context</b> <ul style="list-style-type: none"> <li>• Big Data- A strategic management tool</li> <li>• Brief discussion of the Big Data in various sectors of the industries               <ul style="list-style-type: none"> <li>• Manufacturing</li> <li>• Service                   <ul style="list-style-type: none"> <li>i. Healthcare</li> <li>ii. Retail</li> <li>iii. Financial services</li> <li>iv. Hospitality</li> </ul> </li> </ul> </li> <li>• Big data in various functions of the management               <ul style="list-style-type: none"> <li>• HR</li> <li>• Marketing</li> <li>• Finance</li> <li>• Operations</li> </ul> </li> </ul>	<b>20</b>
3	<b>Data Analytics software and their functions</b> <ul style="list-style-type: none"> <li>• Software used for Data analytics</li> <li>• Basic functions of Power Bi</li> <li>• Traditional tools (SQL, SPSS) Vs. Modern tools (Tableau, PowerBi)</li> </ul>	<b>4</b>
4	<b>Statistical Modelling for Big Data</b> <ul style="list-style-type: none"> <li>• Probability</li> <li>• Measures of central tendency</li> <li>• Normal Distribution</li> <li>• Hypothesis testing</li> </ul>	<b>30</b>
5	<b>Practical- Using Power Bi</b> Goal- Be able to prepare an interactive Sales dashboard	
6	Assignment: Presentation, Preparing dashboard, Article review and case study	

Reference List
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| <ol style="list-style-type: none"><li>1. "Big Data: A Revolution That Will Transform How We Live, Work, and Think" by Viktor Mayer-Schönberger.</li><li>2. Too Big to Ignore: The Business Case for Big Data"</li></ol> |
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Principal  
Symbiosis College of  
Arts & Commerce, Pune-4.

Name and Sign of Head

**Examination Pattern**

Total: 100 marks

Internal – 50 Marks

External- 50 marks

**Format of the Question Paper**

Q.1 Short notes

Q.2 objectives

Q.3 short answers/case studies

Q.4 Long answers

## **Examination Pattern**

Internal

External

## **Format of the Question Paper**

Q.1

Q.2

Q.3

Q.4