

## Structure for BCom Honours (VII & VIII Semester)

Semester	Core (6)	DSE (4)	compulsory (4)	APPRENTICESHIP/COMMUNITY ENGAGEMENT AND SERVICE		BACHELOR'S DEGREE (HONOURS) IN MAIN FACULTY BACHELOR'S DEGREE (RESEARCH) IN MAIN FACULTY
VII	Cost Analysis and Control	Functional Management	Research Methodology	1 FIELD PROJECT/ INTERNSHIP/APPRENTICESHIP (6 CREDITS)	6+4+4+6=20	
VIII	Advance Statistical Analysis		Dissertation	1 FIELD PROJECT/ INTERNSHIP/APPRENTICESHIP (10 CREDITS)	6+4+10=20	

## Structure for B.Com Honours (Research) (VII & VIII Semester)

Semester	Core (6)	DSE (4)	compulsory (4)	APPRENTICESHIP/COMMUNITY ENGAGEMENT AND SERVICE		BACHELOR'S DEGREE (HONOURS) IN MAIN FACULTY BACHELOR'S DEGREE (RESEARCH) IN MAIN FACULTY
VII	Cost Analysis and Control	Functional Management	Research Methodology	RESEARCH PROJECT (6 CREDITS)	6+4+4+6=20	
VIII	Advanced Statistical Analysis		Research Methodology (Subject Specific)	RESEARCH PROJECT (10 CREDITS)	6+4+10=20	



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

## B.com Honours

Session – 2025 - 2026

**SUBJECT: COMMERCE**

**B.com- VII Semester**

**Paper-Major**

**Cost Analysis and Control Major**

CO. No.	Course Outcomes	Cognitive Level
	After completing of this course; the student will be able to -	
Co1	To understand various cost concepts and elements of cost essential for reducing and controlling overall Cost, Inventory Control, and Overheads Accounting	U,A
CO 2	To understand the determination cost of product/service	U
CO 3	To understand the learning about fixed and variable cost and its impact on profit as well as decision-making	U, Analyze
CO 4	To understand the types and preparation of budget	U
Co5	To understand the various standards cost of materials, labor and overheads	U

## Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
Theory	6	40	60	100
Total	6	100		

## Evaluation Scheme

	Marks	
	Internal	External
Theory	3 Internal Exams of 40 Marks (During the Semester) (Best 2 will be taken)	1 External Exams ( At the End of the Semester)



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

## Content of the Course

### Theory

No. of Lectures (in hours per week): 9 Hrs. per week

Total No. of Lectures: 90 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
I	Various cost concepts, Cost center and cost unit, Methods and techniques of Costing, Installation of Costing system, Methods of inventory control, Overheads Accounting	18
इकाई 1	विभिन्न लागत अवधारणाएं, लागत केंद्र एवं ईकाई लागत, ईकाई की पद्धतियां एवं तकनीक, लागत पद्धति की स्थापना, सामग्री नियंत्रण की विधियां, उपरिव्यय लेखांकन।	
Unit 2	Process Accounting Joint product and By-product, Equivalent Production and Inter-Process Profit, Operating Cost	18
इकाई 2	प्रक्रिया लेखांकन, संयुक्त उत्पाद एवं उपोत्पाद, समोत्पादन एवं अंतः प्रक्रिया लाभ परिचालन लागत	
Unit 3	Marginal Costing: Concepts, Break Even Analysis, Uniform costing and inter-firm comparison, Use of Managerial Costing in business decision	18
इकाई 3	सीमांत लागत : अवधारणा, सम विच्छेद विश्लेषण, एकीकृत लागत, एवं अंतः फर्म तुलना, व्यावसायिक निर्दयन में प्रबंधकीय लागत का प्रयोग	
Unit 4	Standard Costing and Variance Analysis, Budgetary Control: Basic Concepts. Preparation of functional budget:	18
इकाई 4	मानक लागत एवं विचरण विश्लेषण बजटरी नियंत्रण : मूल अवधारणाएं, क्रियात्मक बजट की तैयारी,	
Unit 5	Differential cost and control: concept of differential cost, decision making, and different cost, Cost Audit: Objectives and Advantages	18
इकाई 5	विभेदात्मक लागत और नियंत्रण: विभेदात्मक लागत की अवधारणा, निर्णय लेना और विभिन्न लागत, लागत अंकेक्षण: उद्देश्य एवं लाभ।	



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

*Reaccredited 'A+ 'Grade by NAAC(CGPA:3.68/4.00)*

*College with Potential for Excellence by UGC*

*DST-FIST Supported & STAR College Scheme by DBT*

## References

### Text Books:

- “Cost Accounting: Theory and Practice” by Banerjee,,PHI

### Reference Books:

- “Cost Accounting” by Dr Sanjay Mehta / Pro. Mukesh Bramhabhdatta ,Devi Ahilya Prakashan
- “Cost Accounting” by Dr. S.P Gupta And Dr. K.L Gupta ,Sahitya Bhawan Publications
- “Cost Accounting” by Jawaharlal,McGraw Hill Education.
- Advanced Cost Accounting by Jain and Narang,Kalyani Publishers.

1. **Web Links:** <https://www.icsi.edu/media/website/CostAndManagementAccounting.pdf>
2. <https://www.slideshare.net/ramusakha/cost-analysis-and-control>
3. <https://mu.ac.in/wp-content/uploads/2022/06/Advanced-Cost-Accounting.pdf>
4. <https://mu.ac.in/wp-content/uploads/2021/03/M.Com-Cost-Management-Accounting.pdf>
5. [https://oms.bdu.ac.in/ec/admin/contents/387\\_P16MC42\\_2020051812424179.pdf](https://oms.bdu.ac.in/ec/admin/contents/387_P16MC42_2020051812424179.pdf)
6. <https://hpuniv.ac.in/hpuniv/upload/uploadfiles/files/32.pdf>
7. [https://www.portcity.edu.bd/files/636444804364870777\\_CostManagementAccounting&Control.pdf](https://www.portcity.edu.bd/files/636444804364870777_CostManagementAccounting&Control.pdf)

<https://mdu.ac.in/UpFiles/UpPdfFiles/2020/Jan/Advanced%20Cost%20Accounting-Final.pdf>



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00) College with

Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Session – 2025 – 2026

**SUBJECT: COMMERCE**

**B.COM - VII Semester**

**Paper- Discipline Specific Elective II**

**FUNCTIONAL MANAGEMENT**

CO. No.	Course Outcomes	Cognitive Level
	After completing of this course; the student will be able to -	
CO1	To develop a basic understanding of, the utility and working system of functional management in the Indian Scenario	U
CO2	To learn and gain a comprehensive understanding of financial management, financial planning, and capitalization.	U
CO3	To acquire knowledge about various concepts of marketing management, marketing mix, advertising management, sales promotion, and modern marketing concepts.	K
CO4	To learn the process of recruitment, selection, and training of employees	EV
CO 5	To learn and develop their skills and knowledge of personnel management, manpower planning, sources of recruitment, selection, training and development, and formulation of effective personnel management methods	EV
CO6	To know about the concept of production management, production planning, and the process of new product development	K

## Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
<b>Theory</b>	4	40	60	<b>100</b>
<b>Total</b>	<b>4</b>	<b>100</b>		

## Evaluation Scheme

	Marks	
	Internal	External
<b>Theory</b>	3 Internal Exams of 40 Marks (During the semester) (Best 2 will be taken)	1 External Exams ( At the End of the semester)



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

## Content of the Course

### Theory

No. of Lectures (in hours per week): 6 Hrs. per week

Total No. of Lectures: 60 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
Unit 1	<b>Functional Management:</b> Concept, nature, objectives, functions, and scope of Functional Management. Need, utility, and working system and Present Scenario of functional management in Indian Industries. <b>Strategic Management:</b> Meaning, Need, Importance, Process and Role of C.E.O	15
इकाई 1	कार्यात्मक प्रबंधन: कार्यात्मक प्रबंधन की अवधारणा, प्रकृति, उद्देश्य, कार्य और दायरा। भारतीय उद्योगों में कार्यात्मक प्रबंधन की आवश्यकता, उपयोगिता एवं कार्य प्रणाली एवं वर्तमान परिदृश्य। रणनीतिक प्रबंधन: सी.ई.ओ. का अर्थ, आवश्यकता, महत्व, प्रक्रिया और भूमिका	
Unit 2	<b>Financial Management:</b> Financial Management concept, nature and objectives functions of Financial Manager, Financial Planning, characteristics of a sound financial plan, capitalization, source of capital, fixed capital, and working capital.	15
इकाई 2	वित्तीय प्रबंधन: वित्तीय प्रबंधन की अवधारणा, प्रकृति और उद्देश्य, वित्तीय प्रबंधक के कार्य, वित्तीय नियोजन, एक सुदृढ़ वित्तीय योजना की विशेषताएं, पूंजीकरण, पूंजी का स्रोत, निश्चित पूंजी और कार्यशील पूंजी।	
Unit 3	<b>Marketing Management:</b> Concept nature and scope of marketing management. Functions of marketing management . Marketing Mix . Advertisement Management -meaning objectives functions and scope media of advertising, selection of an advertising media. Sales promotion Meaning Importance, Limitation, and Methods of sales promotion.	10



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

इकाई 3	विपणन प्रबंधन: विपणन प्रबंधन की अवधारणा प्रकृति और दायरा। विपणन प्रबंधन के कार्य. विपणन मिश्रण । विज्ञापन प्रबंधन का अर्थ उद्देश्य, कार्य और विज्ञापन का दायरा विज्ञापन मीडिया, मीडिया का चयन। बिक्री संवर्धन अर्थ, महत्व, सीमा और बिक्री संवर्धन के तरीके।	
Unit 4	Personnel Management: Concept, Functions scope and importance. Manpower planning -concept and significance, sources of recruitment of employees, recruitment policy, selection procedure, importance of employees training, methods of training.	10
इकाई 4	कार्मिक प्रबंधन: अवधारणा, कार्य का दायरा और महत्व। जनशक्ति नियोजन - अवधारणा और महत्व, कर्मचारियों की भर्ती के स्रोत, भर्ती नीति, चयन प्रक्रिया, कर्मचारियों के प्रशिक्षण का महत्व, प्रशिक्षण के तरीके।	
Unit 5	Production Management: Concept importance scope and functions, Types of the production system, concept of production planning, objectives, elements and steps, procedure of production control , process of new product development, concept of product diversification, standardization, simplification, and specialization.	10
इकाई 5	उत्पादन प्रबंधन: अवधारणा महत्व कार्यक्षेत्र और कार्य, उत्पादन प्रणाली के प्रकार, उत्पादन योजना की अवधारणा, उद्देश्य, तत्व और चरण ,उत्पादन नियंत्रण की प्रक्रिया, नए उत्पाद विकास की प्रक्रिया, उत्पाद विविधीकरण की अवधारणा, मानकीकरण,	

## Text Book:

- Organizational Behavior by Aswathappa. K, Himalaya publication house, Nagpur.
- Organizational Behavior by Stephen P.Robbins, Judge, Publication Pearson



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

*Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)*

*College with Potential for Excellence by UGC*

*DST-FIST Supported & STAR College Scheme by DBT*

- Organizational Behavior by V.G. Kundalkar, New Age Publishers
- Organizational Behavior by Amandeep & Rao, Sultan Chand & Sons
- Organizational Behavior by M. N. Mishra, Vikas Publishing House
- Organizational Behavior by Dr. Yogita Gupta, Dr. Veto Dey, Walnut Publication
- Management and Organizational Behavior by Dr. S.C. Saksena, Dr. Gaurav Sankalp, MC Graw Hill

## **Web links:**

1. <https://highereducation.mp.gov.in/?page=PksmdiOxN60x1PVLqTx74w%3D%3D&orgid=109>
  2. <https://vou.ac.in/slm/bba/BBA-204-Organizational%20Bchavior BBA.pdf>
  3. <https://2012books.jardbucket.org/pdfs/an-introduction-to-organizational-behavior-v1.1.pdf>
  4. <https://www.himpub.com/documents/Chapter1031.pdf>
  5. <https://sist.sathvabama.ac.in/sist/coursematerial/uploads/SBAA1306.pdf>
  6. <https://www.sscasc.in/wp-content/uploads/downloads/BBM/Organizational-Behaviour.pdf>
  7. <https://librarymymgacsgcom.files.wordpress.com/2020/08/au-m.com-organizational-behaviour.pdf>
  8. [https://backup.pondiuni.edu.in/storage/dde/dde ug pg books/Organisational%20Behav iour.pdf](https://backup.pondiuni.edu.in/storage/dde/dde%20ug%20pg%20books/Organisational%20Behaviour.pdf)
  9. [https://www.tmv.edu.in/pdf/Distance education/BCA%20Books/BCA%20VI%20SEM/B CA-629%20OB.pdf](https://www.tmv.edu.in/pdf/Distance%20education/BCA%20Books/BCA%20VI%20SEM/B%20CA-629%20OB.pdf)
  10. [https://ddccutkal.ac.in/Syllabus/MCOM/Organisational Behaviour.pdf](https://ddccutkal.ac.in/Syllabus/MCOM/Organisational%20Behaviour.pdf)
-





# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00) College  
with Potential for Excellence by UGC  
DST-FIST Supported & STAR College Scheme by DBT

Session – 2025 -2026

## SUBJECT: COMMERCE

### B. Com- VII Semester

#### Paper- Compulsory Paper Subject – Research

CO. No.	Course Outcomes <b>Methodology</b>	Cognitive Level
	After completing this course, the student will be able to -	
CO1	Understand various kinds of research, the objectives of doing research, the research process, research designs, and sampling.	UN
CO 2	Identify and discuss the issues and concepts salient to the research process.	AP
CO 3	Recognize the complex issues inherent in selecting a research problem, selecting an appropriate research design, and implementing a research project.	AN
CO 4	Discuss the concepts and procedures of sampling collection.	AP
CO 5	Aware of hypothesis testing procedures.	UN

### Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
<b>Theory</b>	6	40	60	<b>100</b>
<b>Total</b>	<b>6</b>			

### Evaluation Scheme

	Marks	
	Internal	External
<b>Theory</b>	3 Internal Exams of 20 Marks (During the Semester) ( Best 2 will be taken)	1 External Exams (At the End of the Semester)





# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

## Content of the Course

### Theory

No. of Lectures (in hours per week): 9 Classes per week

Total No. of Lectures: 90 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
I	<b>Introduction of Research Methodology:</b> Meaning of research, Objectives of research, Motivation in research, Types of research, Research approaches, Significance of research, Research and scientific method, Research process, Criteria of good research, Problems faced by researchers.	18
I	<b>अनुसंधान पद्धति का परिचय:</b> शोध का अर्थ, शोध के उद्देश्य, शोध में प्रेरणा, शोध के प्रकार, शोध दृष्टिकोण, शोध का महत्व, शोध और वैज्ञानिक विधि, शोध प्रक्रिया, अच्छे शोध के मानदंड, शोधकर्ताओं के सामने आने वाली समस्याएं ।	
II	<b>Identification and Formulation of Research Problem:</b> Definition, Objectives of research problem, Selection of problem, Identification of problem, Necessity and techniques of defining research problem, Formulation of research problem, Experimental research design.	18
II	<b>अनुसंधान समस्या की पहचान और निरूपण:</b> परिभाषा, शोध समस्या के उद्देश्य, समस्या का चयन, समस्या की पहचान, शोध समस्या को परिभाषित करने की आवश्यकता एवं तकनीक, शोध समस्या का निरूपण, प्रायोगिक शोध अभिकल्प।	
III	<b>Review of Literature:</b> Searching for the existing literature, Need and significance, Reviewing the selected literature, Developing a theoretical framework, Developing a conceptual framework, Writing about the literature reviewed.	18





# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

III	<p><b>साहित्य की समीक्षा:</b></p> <p>उपलब्ध साहित्य की खोज, आवश्यकता और महत्व, चयनित साहित्य की समीक्षा, एक सैद्धांतिक ढांचा विकसित करना, एक वैचारिक ढांचा विकसित करना, समीक्षा किए गए साहित्य के बारे में लिखना।</p>	
IV	<p><b>Research and Sampling Design:</b></p> <p><i>Research Design:</i> Meaning, Need and features of good research design, Important concepts relating to research design, Types of research designs, Basic principles of experimental designs, and Developing a research plan.</p> <p><i>Sampling Design:</i> Implications of a sample design, Steps in sampling design, Criteria of Selecting a Sampling Procedure, Characteristics of ideal sample design, Different types of Sample Designs, Selection of random sample, Random sample from an infinite Universe, Complex random sampling designs, Sampling V/s non-sampling error.</p>	18





# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

IV	<p><b>अनुसंधान और नमूनाकरण डिजाइन:</b></p> <p>अनुसंधान डिजाइन:</p> <p>अच्छे अनुसंधान डिजाइन का अर्थ, आवश्यकता और विशेषताएं, अनुसंधान डिजाइन से संबंधित महत्वपूर्ण अवधारणाएं, अनुसंधान डिजाइन के प्रकार, प्रयोगात्मक डिजाइन के बुनियादी सिद्धांत, एक अनुसंधान योजना विकसित करना।</p> <p>नमूना डिजाइन:</p> <p>एक नमूना डिजाइन के निहितार्थ, नमूना डिजाइन में कदम, एक नमूना प्रक्रिया का चयन करने का मानदंड, आदर्श नमूना डिजाइन की विशेषताएं, विभिन्न प्रकार के नमूना डिजाइन, यादृच्छिक नमूने का चयन, एक अनंत ब्रह्मांड से यादृच्छिक नमूना, जटिल यादृच्छिक नमूना डिजाइन, नमूनाकरण V/s अ-नमूनाकरण त्रुटि है।</p>	
V	<p><b>Testing of Hypotheses and Analysis of Data:</b></p> <p>Introduction to hypothesis, Basic concepts concerning testing of hypotheses, Procedure for hypothesis testing, Flow diagram for hypothesis testing, Measuring the power of a hypothesis test, Tests of hypotheses, Important parametric tests, Univariate and bivariate analysis of data, Analysis of variance, Parametric and non-parametric test.</p>	18
V	<p><b>परिकल्पनाओं का परीक्षण और डेटा का विश्लेषण:</b></p> <p>परिकल्पना का परिचय, परिकल्पनाओं के परीक्षण से संबंधित बुनियादी अवधारणाएँ, परिकल्पना परीक्षण की प्रक्रिया, परिकल्पना परीक्षण के लिए प्रवाह आरेख, परिकल्पना परीक्षण की शक्ति को मापना, परिकल्पनाओं का परीक्षण, महत्वपूर्ण पैरामीट्रिक परीक्षण, डेटा का यूनीवेरिएट और बाइवेरिएट विश्लेषण, विचरण का विश्लेषण, पैरामीट्रिक और गैर-पैरामीट्रिक परीक्षण।</p>	





# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

*Reaccredited 'A++' Grade by NAAC(CGPA:3.58/4.00)*

*College with Potential for Excellence by UGC*

*DST-FIST Supported & STAR College Scheme by DBT*

## References

### Reference Books:

1. Ranjit Kumar: Research Methodology, Sage Publications Pvt. Ltd, Fourth edition, 2014.
2. Uwe Flick: Introducing Research Methodology, Sage Publications India Private Limited, Second edition, 2017.
3. R. Panneerselvam: Research Methodology, PHI Learning Pvt. Ltd., 2014.
4. Dr.Priti R. Majhi, Dr. Prafull K.Khatua: Research methodology (Concepts, methods, Techniques & SPSS), Himalaya Publishing House, 2013.
5. David DeMatteo, Geoffrey R. Marczyk, David Festinger: Essentials of Research Design & Methodology, Wiley Publication, 2005.
6. Kumar: Research Methodology, Pearson, 2005.

### Web Links:

<https://www.eshiksha.mp.gov.in/mpdhe>

[https://ugcmoocs.inflibnet.ac.in/index.php/courses/view\\_ug/330](https://ugcmoocs.inflibnet.ac.in/index.php/courses/view_ug/330)



**B.COM HONOURS**  
**VIII SEMESTER**



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00) College

with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

**Session – 2025 - 2026**

**SUBJECT: COMMERCE**

**B.com- VIII Semester**

**Paper-Major**

**ADVANCE STATICAL ANALYSIS**

CO. No.	Course Outcomes	Cognitive Level
	After completing of this course ; the student will be able to -	U, A
Co1	To develop an understanding of the theory of probability, rules of probability and probability distributions.	K
CO 2	To comprehend the decision-making process under uncertainty using statistical tools.	U
CO 3	To become aware of the concepts in sampling, sampling distributions and estimation.	U, Analyze
CO 4	To understand the meaning and process of hypothesis testing including one-sample and two-sample tests.	U
Co5	To appreciate the importance and application of non-parametric tests in hypothesis testing	An
Co6	To apply correlation and regression analysis including both simple and multiple correlation and regression in real-life case situations using available software packages.	Ap

## Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
<b>Theory</b>	6	40	60	<b>100</b>
<b>Total</b>	<b>6</b>	<b>100</b>		

## Evaluation Scheme

	Marks	
	Internal	External
<b>Theory</b>	3 Internal Exams of 40 Marks (During the Semester) (Best 2 will be taken)	1 External Exams ( At the End of the Semester)



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

## Content of the Course

### Theory

No. of Lectures (in hours per week): 9 Hrs. per week

Total No. of Lectures: 90 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
<b>Unit 1</b>	<b>Theory of Probability and Probability Distributions:</b> Approaches to calculation of probability. Marginal, joint and conditional probabilities; Probability rules; Bayes' theorem; Expected value and standard deviation of a probability distribution; Standard probability distributions - Binomial, Poisson, and Normal.	18
इकाई 1	संभाव्यता का सिद्धांत और संभाव्यता वितरण: संभाव्यता की गणना के दृष्टिकोण। सीमांत, संयुक्त और सशर्त संभावनाएँ; संभाव्यता नियम; बेयस प्रमेय; संभाव्यता वितरण का अपेक्षित मान और मानक विचलन; मानक संभाव्यता वितरण - द्विपद, पॉइसन और सामान्य	
<b>Unit 2</b>	<b>Statistical Decision Theory:</b> Decision-making process. Payoff and Regret tables. Decision rules under risk and uncertainty; Expected value approach and EVPI; Marginal analysis; Decision-tree analysis	18
इकाई 2	निर्णय-वृक्ष विश्लेषण। सांख्यिकीय निर्णय सिद्धांत: निर्णय लेने की प्रक्रिया। भुगतान और पछतावा तालिकाएँ। जोखिम और अनिश्चितता के तहत निर्णय नियम; अपेक्षित मूल्य दृष्टिकोण और EVPI; सीमांत विश्लेषण	
<b>Unit 3</b>	<b>Sampling Distributions and Estimation:</b> Sampling concepts; Types of sampling techniques; Sampling distribution of means and proportions; Central Limit Theorem. Point and interval estimation; Properties of a good estimator; Confidence intervals for	18
इकाई 3	नमूना वितरण और अनुमान: नमूना अवधारणाएँ, नमूना तकनीक के प्रकार; माध्य और अनुपात का नमूना वितरण; केंद्रीय सीमा प्रमेय। बिंदु और अंतराल अनुमान; एक अच्छे अनुमानक के गुण; माध्य के लिए विश्वास अंतराल; अनुपात के लिए विश्वास अंतराल; नमूना आकार निर्धारण	





# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Unit 4	<b>Hypothesis Testing:</b> Steps of hypothesis testing. One and two-tailed tests. Type I and type II Errors; Power of a test; Calculation and use of p-value. One Sample Tests: Means and proportions. <i>Two-sample Tests:</i> Tests for difference between means independent samples; Small samples; Dependent samples: Testing of difference	18
इकाई 4	परिकल्पना परीक्षण: परिकल्पना परीक्षण के चरण। एक और दो-पूंछ वाले परीक्षण। टाइप-I और टाइप-II त्रुटियाँ; परीक्षण की शक्ति; पी-मान की गणना और उपयोग। एक नमूना परीक्षण: माध्य और अनुपात। दो-नमूना परीक्षण: माध्य के बीच अंतर के लिए परीक्षण - स्वतंत्र नमूने; छोटे नमूने; आश्रित नमूने; अनुपातों के बीच अंतर का परीक्षण।	
Unit 5	<b>Analysis of Variance and Non-Parametric Tests:</b> F-test of equality of variances; One-factor ANOVA; Chi-square test for Independence and for Goodness-of-fit. Sign test, One-sample runs test	18
इकाई 5	विचरण और गैर-पैरामीट्रिक परीक्षणों का विश्लेषण: विचरण की समानता का एफ-परीक्षण; एक-कारक एनोवा; स्वतंत्रता और गुडनेस ऑफ फिट के लिए काई-स्क्वायर परीक्षण। साइन टेस्ट, वन-सैंपल रन टेस्ट।	

## References

### Text Books:

- Statistical Methods, by SP Gupta, Sultan Chand & sons

### Reference Books:

- Business Statistics, by Gupta & Gupta, Himalaya Publication House
- Advanced statistical Analysis, by Dr. Agrawal, Ramesh book depot



HONOURS WITH  
RESEARCH  
SUBJECT SPECIFIC  
RESEARCH  
METHODOLOGY



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00) College with  
Potential for Excellence by UGC  
DST-FIST Supported & STAR College Scheme by DBT

**Session – 2025 – 2026**  
**SUBJECT: COMMERCE**  
**B.com- VIII Semester**  
**Paper- Subject Specific**  
**Research Methodology**

CO. No.	Course Outcomes	Cognitive Level
	After completing of this course; the student will be able to -	
Co1	To understand and select an appropriate research design for their research work	UN
CO 2	To understand the steps (research process) of conducting good research and to understand the concept of Hypothesis	UN
CO 3	To describe the concept and methods of Sampling	AP
CO 4	To identify various methods of collecting Primary and secondary data	AN
Co5	To analyze the collected data through various test and software	AN

## Credit and Marking Scheme

	Credits	Marks		Total Marks
		Internal	External	
Theory	4	40	60	100
Total	4	100		

## Evaluation Scheme

	Marks	
	Internal	External
Theory	3 Internal Exams of 40 Marks (During the Semester) (Best 2 will be taken)	1 External Exams ( At the End of the Semester)



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+ 'Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

## Content of the Course

### Theory

No. of Lectures (in hours per week): 6 Hrs. per week

Total No. of Lectures: 60 Hrs.

Maximum Marks: 60

Units	Topics	No. of Lectures
I	Introduction to Research Definition, Nature, Scope, and Significance. Types of Research. Characteristics of good research. Qualities of Researcher, Introduction to review of literature.	15
इकाई 1	अनुसंधान की परिभाषा, प्रकृति, कार्यक्षेत्र और महत्व का परिचय। अनुसंधान के प्रकार. एक अच्छे शोध के लक्षण. शोधकर्ता के गुण, साहित्य की समीक्षा का परिचय।	
Unit 2	Research Process, Defining Research Problem, Components of Research Problem. Title Formulation, Hypothesis, Types of Hypothesis Research Design - Exploratory, Descriptive and Experimental Research Designs.	15
इकाई 2	अनुसंधान प्रक्रिया ,अनुसंधान समस्या की परिभाषा , अनुसंधान समस्या के घटक। शीर्षक निर्माण, परिकल्पना, परिकल्पना के प्रकार ,अनुसंधान डिजाइन - खोजपूर्ण, वर्णनात्मक और प्रायोगिक अनुसंधान डिजाइन।	
Unit 3	Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of Good Sample Design, Sampling Errors, Sampling Methods	10
इकाई 3	नमूना डिजाइन, नमूना प्रक्रिया चुनने का मानदंड, अच्छे नमूना डिजाइन की विशेषताएं, नमूना त्रुटियाँ, नमूना विधियाँ	



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+' Grade by NAAC(CGPA:3.68/4.00)

College with Potential for Excellence by UGC

DST-FIST Supported & STAR College Scheme by DBT

Unit 4	Measurement and Scaling, Methods of Collection of Primary and Secondary Data. Process of Questionnaire Design; Processing of Data - Editing, Coding, Classification and Tabulation.	10
इकाई 4	मापन और स्केलिंग, प्राथमिक और माध्यमिक डेटा के संग्रह के तरीके। प्रश्नावली डिजाइन की प्रक्रिया; डेटा का प्रसंस्करण - संपादन, कोडिंग, वर्गीकरण और सारणीकरण।	
Unit 5	Analysis and Report Writing - Hypothesis testing, One way and Two way ANOVA; Chi Square Test. Introduction to Non-Parametric Tests.: Report Writing. Essentials, Structure/Layout, Presentation of Result, Ethical Norms in Research, Plagiarism	10
इकाई 5	विश्लेषण और रिपोर्ट लेखन - परिकल्पना परीक्षण, एक तरफ़ा और दो तरफ़ा एनोवा; ची - वर्ग परीक्षण। गैर पैरामीट्रिक परीक्षणों का परिचय: रिपोर्ट लेखन। अनिवार्यताएं, संरचना/लेआउट, परिणाम की प्रस्तुति, अनुसंधान में नैतिक मानदंड, साहित्यिक चोरी।	

## Text Book:

- Research methodology by Dr. Priti R. Majhi, Dr. Prafull (Concepts, methods, Techniques & SPSS)- Himalaya publishing house

## Reference Book:

- Research Methodology by Panneerselvam R. Prentice Hall Pub
- Essentials of research design & Methodology by Geoffrey R. Marczyk, Wiley Pub.
- Research Methodology by Kumar, Pearson Pub.
- Fundamental of Research Methodology and statistics by Yogesh Singh New AGE Pub.

## Web links:

<https://www.eshiksha.mp.gov.in/>

<https://www.drnishikantjha.com/papersCollection/Research%20Methodology%20.pdf>

[https://ddceutkal.ac.in/Syllabus/MCOM/Research\\_Methodology.pdf](https://ddceutkal.ac.in/Syllabus/MCOM/Research_Methodology.pdf)<https://sde.uoc>



# ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

*Reaccredited 'A+ 'Grade by NAAC(CGPA:3.68/4.00)*

*College with Potential for Excellence by UGC*

*DST-FIST Supported & STAR College Scheme by DBT*

[.ac.in/sites/default/files/sde\\_videos/MCM3C13.pdf](#)

<https://dhsgsu.edu.in/images/Reading-Material/Commerce/Econtent/RM-SELF-LEARNING.pdf>

---