BBAI501 HUMAN VALUES AND PROFESSIONAL ETHICS

SUBJECT CODE	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
		THEORY			PRACTICAL		L	T	P	CREDITS
		END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
BBAI501	Human Values and Professional Ethics	60	20	20	-	-	4	-	-	4

Legends: **L** - Lecture; **T** - Tutorial/Teacher Guided Student Activity; **P** – Practical;   **C** - Credit;
*Teacher Assessment shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Objectives

The objective of the course is to disseminate the theory and practice of moral code of conduct and familiarize the students with the concepts of "right" and "good" in individual, social and professional context

Course Outcomes

1. Help the learners to determine what action or life is best to do or live.
2. Right conduct and good life.
3. To equip students with understanding of the ethical philosophies, principles, models that directly and indirectly affect business.

COURSE CONTENT

Unit I: Human Value

1. Definition, Essence, Features and Sources
2. Sources and Classification
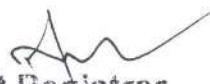3. Hierarchy of Values
4. Values Across Culture

Unit II: Morality

1. Definition, Moral Behaviour and Systems
2. Characteristics of Moral Standards
3. Values Vs Ethics Vs Morality
4. Impression Formation and Management

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Unit III: Leadership in Indian Ethical Perspective.

1. Leadership, Characteristics
2. Leadership in Business (Styles), Types of Leadership (Scriptural, Political, Business and Charismatic)
3. Leadership Behaviour, Leadership Transformation in terms of Shastras (Upanihads, Smritis and Manu-smriti).

Unit IV: Human Behavior – Indian Thoughts

1. Business Ethics its meaning and definition
2. Types, Objectives, Sources, Relevance in Business organisations.
3. Theories of Ethics, Codes of Ethics

Unit V: Globalization and Ethics

1. Sources of Indian Ethos & its impact on human behavior
2. Corporate Citizenship and Social Responsibility – Concept (in Business),
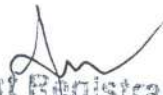3. Work Ethics and factors affecting work Ethics.

Suggested Readings

1. Beteille, Andre (1991). *Society and Politics in India*. Athlone Press:New Jersey.
2. Chakraborty, S. K. (1999). *Values and Ethics for Organizations*. oxford university press
3. Fernando, A.C. (2009). *Business Ethics - An Indian Perspective* .India: Pearson Education: India
4. Fleddermann, Charles D. (2012). *Engineering Ethics*. New Jersey: Pearson Education / Prentice Hall.
5. Boatright, John R (2012). *Ethics and the Conduct of Business.*Pearson. Education: New Delhi.
6. Crane, Andrew and Matten, Dirk (2015). *Business Ethics*. Oxford University Press Inc:New York.
7. Murthy, C.S.V. (2016). Business *Ethics – Text and Cases*. Himalaya Publishing House Pvt. Ltd:Mumbai
8. Naagrajan, R.R (2016). *Professional Ethics and Human Values*. New Age International Publications:New Delhi.

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context.

2. Learn various theoretical issues related to an open economy.

Syllabus:

UNIT I Consumption Function

Income   Relationship, Propensities to Consume and the Fundamental Psychological Law of Consumption; Implications of Keynesian Consumption Function; Factors Influencing Consumption Function.

UNIT II Demand for Money

Demand for Money for Liquidity Preference- Transactions Demand for Money- Precautionary Motive-Speculative Demand for Money- Aggregate demand for Money: Keynes's View- Demand for Money and Keynesian Liquidity preference Theory.

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BATCH 2019-2022

UNIT III   IS-LM Curves

Nature and Shape of IS and LM curves; Interaction of IS and LM curves and Determination of Employment, Output, Prices and Investment; Changes in IS and LM curves and their Implications for Equilibrium

UNIT IV Financial Markets and Reforms

Features of Financial Markets, Functions of Financial Markets, Banks and Financial Markets, Major Financial Sector Reforms in India, Lessons from the Global Financial Crisis and the Policy Response in India

UNIT V Analysis of Business Cycles

Phases of Business Cycles, Features of Business Cycles, Theories of Business Cycles-Hicks, Sun-spot Theory, Keynes, Samuelson Model of Business Cycle.

Text Book:

1. H .L Ahuja(2016). *Principles of Macroeconomics*, S. Chand Publication; New Delhi.

Reference Books:

2. N. Gregory Mankiw (2010): *Macroeconomics*, 7th edition, Cengage Learning India Private Limited, New Delhi
3. Richard T. Froyen (2005): *Macroeconomics*, 2nd Edition, Pearson Education Asia, New Delhi.
4. Errol D Souza (2009): *Macroeconomics*, Pearson Education Asia, New Delhi.

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Name of the Program: B. Sc. (Plain)

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSMA 403	DC	Analytical Geometry of three dimensions	60	20	20	-	-	3	1	-	4

Course Objective

To introduce the students with the Fundamentals of the Analytical Geometry of three dimensions.

Course Outcomes

After the successful completion of this course students will be able to

1. *understand and solve problems of the straight lines in 3D.*

2. *solve the problems of the planes.*

3. *know the solution of the problems of the spheres.*

4. *understand and apply the concepts of the algebra of the Right circular cone.*

Course Content:

UNIT – I

Rectangular Cartesian co-ordinates: Distance between two points. Division of a line segment in a given ratio. Direction cosines and direction ratios of a straight line. Projection of a line segment on another line. Angle between two straight lines.

UNIT – II

Equation of a Plane: General form. Intercept and Normal form. Angle between two planes. Signed distance of a point from a plane. Bisectors of angles between two intersecting planes.

UNIT – III

Equations of Straight line: General and symmetric form. Distance of a point from a line. Coplanarity of two straight lines. Shortest distance between two skew-lines.

UNIT – IV

Sphere and its tangent plane.

UNIT – V

Right circular cone.

Texts:

1. Co-ordinate Geometry – S. L. Loney.

2. Co-ordinate Geometry of Three Dimensions – Robert J. T. Bell.

3. Elementary Treatise on Conic sections – C. Smith.

4. Solid Analytic Geometry – C. smith.

5. Higher Geometry – Efimov.

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSST404	DC	**Sampling Techniques**	60	20	20	50	-	3	1	2	6

Course Objective

To introduce the students with the Fundamentals of the Sampling Techniques

Course Outcomes

After the successful completion of this course students will be able to:

1. understand and apply the basics of the simple random sampling.
2. solve the problems of the stratified random sampling.
3. apply the techniques to systematic sampling.
4. apply the ratio and regression method of estimation in sampling.
5. know how to apply cluster sampling.

Course Content:

UNIT I

Concept of population and sample, complete enumeration versus sampling, sampling and non-sampling errors. Types of sampling: non-probability and probability sampling, basic principle of sample survey, simple random sampling with and without replacement, definition and procedure of selecting a sample, estimates of: population mean, total and proportion, variances of these estimates, estimates of their variances and sample size determination.

UNIT II

Stratified random sampling: Technique, estimates of population mean and total, variances of these estimates, proportional and optimum allocations and their comparison with SRS.Practical difficulties in allocation, estimation of gain in precision, post stratification and its performance.

UNIT III

Systematic Sampling: Technique, estimates of population mean and total, variances of these estimates ($N = n \times k$). Comparison of systematic sampling with SRS and stratified sampling in the presence of linear trend and corrections.

UNIT IV

Introduction to Ratio and regression methods of estimation, first approximation to the population mean and total (for SRS of large size), variances of these estimates and estimates of these variances, variances in terms of correlation coefficient for regression method of estimation and their comparison with SRS.

UNIT V

Cluster sampling (equal clusters only) estimation of population mean and its variance, comparison (with and without randomly formed clusters). Relative efficiency of cluster sampling with SRS in terms of intra class correlation. Concept of sub sampling

SUGGESTED READING:

1. Cochran W.G. (1984): Sampling Techniques(3rd Ed.), Wiley Eastern.
2. Sukhatme,P.V., Sukhatme,B.V. Sukhatme,S. Asok,C.(1984). Sampling Theories of Survey With Application, IOWA State University Press and Indian Society of Agricultural Statistics
3. Murthy M.N. (1977): Sampling Theory & Statistical Methods, Statistical Pub. Society, Calcutta.
4. Des Raj and Chandhok P. (1998): Sample Survey Theory, Narosa Publishing House.
5. Goon A.M., Gupta M.K. and Dasgupta B. (2001): Fundamentals of Statistics (Vol.2), World Press.
6. Guide to current Indian Official Statistics, Central Statistical Office, GOI, New Delhi.

List of Practical

1. To select a SRS with and without replacement.

2. For a population of size 5, estimate population mean, population mean square and population variance. Enumerate all possible samples of size 2 by WR and WOR and establish all properties relative to SRS.

3. For SRSWOR, estimate mean, standard error, the sample size

4. Stratified Sampling: allocation of sample to strata by proportional and Neyman's methods Compare the efficiencies of above two methods relative to SRS

5. Estimation of gain in precision in stratified sampling.

6. Comparison of systematic sampling with stratified sampling and SRS in the presence of a linear trend.

7. Ratio and Regression estimation: Calculate the population mean or total of the population. Calculate mean squares. Compare the efficiencies of ratio and regression estimators relative to SRS.

8. Cluster sampling: estimation of mean or total, variance of the estimate, estimate of intra-class correlation coefficient, efficiency as compared to SRS.

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
BSMA 405	DC	**Modern Algebra**	60	20	20	-	-	3	1	-	4

Course Objective

To introduce the students with the Fundamentals of the Modern Algebra

Course Outcomes

After the successful completion of this course students will be able to:

1. *understand and solve problems of the classical set theory.*
2. *solve the problems of the group theory.*
3. *apply the techniques of the ring and field theories.*
4. *solve the problems of the vector space.*
5. *understand and apply the concepts of the algebra of matrices.*

Course Content:

UNIT – I

Basic concept: Sets, Sub-sets, Equality of sets, Operations on sets: Union, intersection and complement. Verification of the laws of Algebra of sets and De Morgan's Laws. Cartesian product of two sets. Mappings, One-One and onto mappings. Composition of Mappings– concept only, Identity and Inverse mappings. Binary Operations in a set. Identity element. Inverse element.

UNIT – II

Introduction of Group Theory: Definition and examples taken from various branches (examples from number system, roots of unity, 2 x 2 real matrices, non-singular real matrices of a fixed order). Elementary properties using definition of Group. Definition and examples of sub-group – Statement of necessary and sufficient condition – its applications.

UNIT – III
Definitions and examples of (i) Ring, (ii) Field, (iii) Sub-ring, (iv) Subfield.

UNIT – IV

Concept of Vector space over a Field: Examples, Concepts of Linear combinations, Linear dependence and independence of a finite set of vectors, Sup-space. Concepts of generators and basis of a finite-dimensional vector space. Problems on formation of basis of a vector space (No proof required).

UNIT – V

Real Quadratic Form involving not more than three variables – Problems only. Characteristic equation of a square matrix of order not more than three – determination of Eigen Values and Eigen Vectors – Problems only. Statement and illustration of Cayley-Hamilton Theorem.

Texts:
1. Modern Algebra – Surjeet Singh & Zameruddin.

2. First Course in Abstract Algebra – Fraleigh.

3. Topics in Algebra – Hernstein.

4. Test book of algebra – Leadership Project Committee (University of Bombay).

5. Elements of Abstract Algebra – Sharma, Gokhroo, saini (Jaipur Publishing House, S.M.S. Highway, Jaipur - 3).

6. Abstract Algebra – N. P. Chaudhuri (Tata Mc.Graw Hill).

7. Linear Algebra – Hadley