

	Pool Course Offered by the Department/ Programme	Name of Course	Course ID	Credits			Theory Marks			Practical Marks			Total Marks	
				T	P	Total	E	I	Total	E	I	Total	total marks	
MINOR COURSES														
1.	Bachelor of Computer Applications	Animation and Graphics Design	240/BCA/MI201	1	1	2	20	5	25	20	5	25	50	
2.	B.Sc.in Physical Sciences - Computer Science	Introduction Data Science	240/CS/MI201	2	0	2	35	15	50	0	0	0	50	
3.	B.T.T.M.	Retail Management	240/BTM/MI201	2	-	2	35	15	50	-	-		50	
4.	Bachelor of Commerce	HUMAN RESOURCE MANAGEMENT	240/COM/MI201	2	-	2	35	15	50	-	-		50	
5.	Bachelor of Commerce	CONSUMER BEHAVIOUR	240/COM/MI202	2	-	2	35	15	50	-	-		50	
6.	B.Sc. in Hospitality and Hotel Administration	Corporate Skills-II	240/HHA/MI201	2	0	2	35	15	50	0	0	0	50	
7.	B.A. in International Culinary Arts	Personality Development- II	240/ICA/MI201	2	0	2	35	15	50	0	0	0	50	
8.	Bachelor of Business Administration	Corporate governance	240/BBA/MIC201	2		2	35	15	50			0	50	
9.	Bachelor of Arts in Culinary Arts	Food Science & Nutrition	240/BACA/MI201	2	-	2	35	15	50	-	-		50	
10.	B.A. Single Major in English	Neoclassical Poetry	240/ENG/MI202	2	0	2	35	15	50			0	50	
11.	B.Sc. Animation & Multimedia	Basic Presentation skills	240/ANI/MI201	1	1	2	20	5	25	20	5	25	50	
12.	B.A. with major in Hindi	राजभाषा एवं राष्ट्रभाषा के रूप में हिंदी	240/HIN/MI202	2		2	35	15	50			0	50	
13.	B.A. Public Administration (Multidisciplinary)	Women Empowerment	240/PAM/MI201	2	0	2	35	15	50	0	0	0	50	

14.	B.A. with major in Political Science	Fundamentals of Political Science-II	240/PS/MI201	2	0	2	35	15	50	0	0	0	50	
15.	Bachelor of Arts/B.Sc. with major in Mathematics	Basic Algebra	240/MAT/MI201	1	1	2	20	5	25	20	5	25	50	
16.	Diploma in Yoga	Yoga Practium-2	243/YOG/MI203	2	2	4	35	15	50	35	15	50	100	
17.	B.A. Multidisciplinary – (Music (V))	Historical view of Indian Music	240/MV/MI201	1	1	2	20	5	25	20	5	25	50	
18.	B.A. Multidisciplinary – (Music(I))	General History and Basic Term of Music	240/MI/MI201	1	1	2	20	5	25	20	5	25	50	
19.	B.A. Psychology	Consumer Behavior	240/PSY/MI201	2	0	2	35	15	50	0	0	0	50	
20.	B.A Multidisciplinary Philosophy	Fundamental of Western Philosophy	240/PHILM/MI201	3	0	3	50	25	75	0	0	0	75	
21.	B.A. Major in History	Environmental History	240/HIS/MI201	2	0	2	35	15	50	0	0	0	50	
22.	B.A. Major in Geography	Urbanization in India	240/GEO/MI201	2	0	2	35	15	50	0	0	0	50	
23.	B.A. Sociology	Urban Sociology	240/SOC/MI201	2	0	2	35	15	50	0	0	0	50	
24.	Physics - B.Sc. Physical Science	Modern Physics	240/PHY/MI201	2	0	2	35	15	50	0	0	0	50	
25.	B.A. with major in Sanskrit	संस्कृत साहित्य में नाट्य एवं रंगमंच	240/SKT/MI202	2		2	35	15	50			0	50	
26.	B.A. with major in Urdu	Urdu ghazal	240/URD/MI202	2		2	35	15	50				50	
27.	Bachelor of Arts (Journalism and Mass Communication)	Videography	240/JMC/MI201	0	2	2				35	15	50	50	
28.	B.Sc. with major in Zoology	Introduction to chordates	240/ZOO/MI201	2	0	2	50	0	50	0	0	0	50	
29.	B.Sc. with major in Botany	Plants for Human Welfare	240/BOT/MI201	2	0	2	50	0	50	0	0	0	50	
30.	B.A with major in Economics	Basics of monetary economics	240/ECO/MI201	2	0	2	35	15	50	0	0	0	50	

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240/BCA/MI201

240/BCA/MI201

Course code	MIC-2			
Category	Minor Course			
Course title	Animation and Graphics Design			
Course ID	240/BCA/MI201			
Scheme and Credits	L	T	P	Credits
	1	0	2	2
Theory Internal	05			
Theory External	20			
Practical Internal	05			
Practical External	20			
Total	50			
Duration of Exam	2 Hrs			

Note: The examiner will set nine questions in total. Question one will have seven parts from all units and the marks of first question will be of 20% of total marks of Question Paper and the remaining eight questions to be set by taking two questions from each attempt FIVE questions in all, selecting one question from every unit apart from the Question Number 1.

Course outcomes

CO1: Have a knowledge of graphics applications and components and devices required to support the applications;

CO2: Develop algorithms for scan converting geometrical primitives such as lines, circles, ellipses, and curves along with algorithms for filling polygons, required for designing real-world applications;

CO3: Design algorithms for carrying out manipulations in pictures using geometric transformations, viewing transformations, and clipping operations;

CO4: Model 3-dimensional objects and apply viewing, visible –surface determination, and shading techniques to the models for achieving realism. The student will also learn to design and develop animation sequences.

Unit – I

Introduction to Computer Graphics and its Components: Overview of Computer Graphics, its functions & elements; Components and Working of Interactive Graphics; Raster Scan and Random Scan systems and Display Processors; Look-up table; Coordinate Systems.

Unit – II

Scan Conversion: Drawing Geometry; Output Primitives; Lines and Pixel Graphics; AntiAliasing; Scan Converting Lines: DDA line drawing algorithms, Bresenham's line Algorithm; Scan Converting Circles: Polynomial method for circle drawing, circle drawing using polar coordinates,

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Bresenham's circle drawing.

Unit – III

Two-Dimensional Transformations: Coordinate and Geometric Transformations; Translation, Rotation, Scaling; Matrix representations and Homogeneous coordinates, Composite transformations, General Pivot Point rotation, General Fixed Point Scaling, Shearing; Reflection ; Reflection about an arbitrary line.

Unit – IV

3-D Graphics & Modeling: Visualization techniques for Realism; 3D Object Representation; Solid Model Representation Schemes; 3D transformations.

Introduction to Animation: Designing of Animation Sequences; Key-Frame Systems; Animation Techniques: Tweening, Morphing.

TEXT / REFERENCE BOOKS

1. Donald Hearn, M. Pauline Baker, Computer Graphics, Pearson Education.
2. J. D. Foley, A. Van Dam, S. K. Feiner and J. F. Hughes, Computer Graphics - Principles and Practice, Pearson Education.
3. Newmann & Sproull, Principles of Interactive Computer Graphics, McGraw Hill.
4. Rogers, David F., Procedural Elements of Computer Graphics, McGraw Hill.
5. Zhigang Xiang, Roy Plastock, Computer Graphics, Tata McGraw Hill.
6. Malay K. Pakhira, Computer Graphics, Multimedia and Animation, PHI

g

Animation and Graphics Design LAB

List of Experiments:

1. Study of Fundamental Graphics Functions.
2. Implementation of Line drawing algorithms: DDA Algorithm, Bresenham's Algorithm
3. Implementation of Circle drawing algorithms: Bresenham's Algorithm, Mid-Point Algorithm.
4. Programs on 2D and 3D transformations
5. Write a program to implement Cohen Sutherland line clipping algorithm
6. Using Flash/Maya perform different operations (rotation, scaling move etc..) on objects
7. Create a Bouncing Ball using Key frame animation and Path animation.
8. Write a program for making Bezier curve.
9. Write a program to study various in build functions for 2D drawing in MAYA software.
10. Write a program to show animation of a ball moving in a helical path.



INTRODUCTION TO DATA SCIENCE

Course code	MIC-2			
Category	Minor Course			
Course title	Introduction to Data Science			
Course ID	240/CS/MT201			
Scheme and Credits	L	T	P	Credits
	2	0	0	2
Theory Internal	15 marks			
Theory External	35 marks			
Total	50 marks			
Duration of Exam	2 Hrs			

Note: The examiner will set nine questions in total. Question one will have seven parts from all units and the marks of first question will be of 20% of total marks of Question Paper and the remaining eight questions to be set by taking two questions from each unit and the marks of each question from Question no. 2 to 9 will be 20% of total marks of Question paper. The students have to attempt five questions in total, the first being compulsory and selecting one from each unit.

COURSE OBJECTIVES: To explore data types, Python fundamentals, special data formats, and advanced data manipulation using NumPy, Pandas, and data visualization tools for effective data analysis and presentation.

UNIT – I

Data Types: Understanding data - Types of data - Data Evaluation - Data Sources - Preparing and Gathering data - Digital Data - Introduction to Big Data - Sources of Big Data - Characteristics of Big Data

UNIT – II

Python fundamentals: Python program execution environment - Statements - Expressions - Flow of Control statements - Functions - Scope of Variables.

UNIT – III

Special Data Formats - List - List Methods - Tuples - Tuple Methods - Arrays - Dictionaries - Sets - Related Methods - String - String Processing Methods

UNIT – IV

Numpy and Pandas - Features of Numpy - Mathematical functions - Statistical functions - nd-Arrays - Features of Pandas - series data structure - data frames - creation and manipulation of data frames, Data Visualization - Matplotlib package - plotting graphs - legends - colors - labels - seaborn - package -plotly and dash packages

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Text Book:

- [1]. Joel grus, "Data Science from Scratch", O'Reilly,2015
- [2]. Mark Lutz, " Programming in Python", O'Reilly,2010

References:

- [1]. Wes Mckinney, "Python for data Analysis", O'Reilly, 2012
- [2]. Shai vaingast,"Beginning Python on visualization, A Press 2014



240/BTM/MI201

240/BTM/MI201

Minor (MIC)/ Vocational Course (VOC)

Syllabus

Name of Subject: Retail Management	Maximum Theory Marks:50 (TE+TI+PE+PI=35+15+0+0)
Course ID: 240/BTM/MI201	Time Allowed: 2 Hours
Credits 2 (L-T-P = 1+1+0)	Minor (MIC)/ Vocational Course (VOC)

Instructions for paper setter: Examiner is requested to set **one compulsory and eight other questions, two from each unit.** The compulsory question should be of 07 marks and should cover entire syllabus. Student should attempt four other questions i.e. one from each unit.

Learning Outcomes: - After completing the course, students will be able:

CO1.To Explain retailing concepts and functions of retailers.

CO2. To analyze the evolution and changes in India's retail sector.

CO3. To apply theories of retail development travel and tourism business.

CO4.To Implement retail store operations and optimize supply chain management in retailing.

Course Content:

Unit 1:
Retailing- Concept, functions of a retailer, Retail as a career. Retail in India- Evolution, changes in the retail sector, Challenges to retail development in India.
Unit 2:
Theories of Retail Development- Theories of retail development, Airport Retailing, Services retailing.
Unit 3:
Understanding the Retail Consumer and Servicing - Need for Studying Consumer Behavior, The Customer Decision-Making process, C R M in Retail.
Unit 4:
Retail store operations; servicing the retail customers; supply chain management in retailing

Suggested Readings


Chairperson
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Gurugram University
Gurugram

- Pradhan, Swapna; Retailing Management; Tata McGraw Hill; New Delhi
- Bajaj, Chetan, Tuli, Rajnish and Srivastava, Nidhi; Retail Management; Oxford University Press; New Delhi
- Berman, Barry & Evans, Joel R.; Retail Management – A Strategic approach; Pearson Education/Prentice Hall of India; New Delhi

Chairperson
Department of Management
Gurugram University
Gurugram


Chairperson
Department of Management
Gurugram University
Gurugram

- Levy, Michael & Weitz , Barton A.; Retailing Management; Tata McGraw Hill; New Delhi

MAPPING MATRIX OF COURSE:

Table: CO's - PO's, and CO's - PSO's Matrix for the Course: Retail Management

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	3	2	1	2	1	1	2	2	2
CO2	2	2	2	2	1	2	2	2	2
CO3	3	2	1	2	1	1	3	2	2
CO4	3	2	1	2	2	1	3	3	3
Average	2.75	2.0	1.25	2.0	1.25	1.25	2.50	2.25	2.25



Chairperson
Department of Management
Gurugram University
Gurugram

240/COM/MIA201

Course Type: Minor Course (MIC)
Offered by Department of Commerce
Semester: 2

Name of Subject: HUMAN RESOURCE MANAGEMENT	Total Marks: 50 (TI + TE + PI + PE = 15 + 35 + - + -)
Course ID:	Time Allowed: 2 Hour
Credits: 2(L-T-P =1-1- -)	Minor Course

Instructions for Paper Setter: The question paper shall be divided into two sections. Section 'A' shall comprise seven short answer type questions from the syllabus carrying one mark each, which shall be compulsory. The answer to each question should not normally exceed 50 words. **Section 'B' shall comprise eight questions of 7 marks each (2 questions from each unit).** The students will be required to attempt four questions from section B by selecting one question from each unit. All questions will carry equal marks. All the questions must be mapped with Course Outcomes (COs) and specified in the question paper against each question. All questions will carry equal marks.

Course Outcomes: - After completing the syllabus, students will be able to:

- CO1:** Understand the concept of human resource management, human resource planning and its functions
- CO2:** Analyse job analysis, recruitment and selection process.
- CO3:** Develop deeper insights regarding training and development of human resources.
- CO4:** Apply the concept of wage and wage incentives in job.

Course Contents:

Unit 1 : Human resource Management: meaning, concepts, evolution and importance of HRM; Human resource planning: objectives and importance of Human Resource Planning
Unit 2: Job Analysis: Process of job analysis. Recruitment and Selection
Unit 3: Human Resource Training and Development: Training process. Methods of manpower training, difference between training and development.
Unit 4: Compensation management for Human Resource: concept of wages and salary, factors affecting development of sound compensation management, types of wages, wage rate system, group incentive plans.

Suggested Readings:

1. Aswathappa, K., Human Resource and Personnel Management, Tata McGraw Hill.
2. Venkatesh, D.N. & Jyothi P., Human Resource Management, Oxford University Press.
3. Bohlander, G. & Snell, S., Human Resource Management, Cengage Learning.
4. Dessler, G., Human Resource Management, Pearson Education.

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Mapping Matrix: CO-PO and CO-PSO Mapping for the Course- Human Resource Management

COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3
CO1	3	2	1	1	1	1	2	2	2
CO2	2	2	2	1	2	1	2	2	1
CO3	3	2	2	1	2	2	2	2	1
CO4	3	2	2	1	2	2	2	2	1
Average	2.75	2	1.75	1	1.75	1.5	2	2	1.25

240/COM/MI202

240/COM/MI202

COURSE TYPE : MINOR COURSE (MIC)
Offered by Department of Commerce
Semester: 2

Name of Subject: CONSUMER BEHAVIOUR	Total Marks: 50 (TI + TE + PI + PE = 15 + 35 + - + -)
Course ID : 240/COM/MI202	Time Allowed: 2 Hour
Credits 2(L-T-P =1-1--)	Minor Course

Instructions for Paper Setter: The question paper shall be divided into two sections. Section 'A' shall comprise seven short answer type questions from the syllabus carrying one mark each, which shall be compulsory. The answer to each question should not normally exceed 50 words. **Section 'B' shall comprise eight questions of 7 marks each (2 questions from each unit).** The students will be required to attempt four questions from section B by selecting one question from each unit. All questions will carry equal marks. All the questions must be mapped with Course Outcomes (COs) and specified in the question paper against each question. All questions will carry equal marks.

Course Outcomes: - After completing the course, the students will be able to

CO1: to understand the conceptual framework of Consumer behaviour

CO2: Analyse the individual behavior in reflections of consumers' needs and motivation,

CO3: Develop awareness of group influences in buying decision.

CO4: Apply theoretical knowledge to practical consumer problems.

Course Contents:

Unit I: Consumer Behaviour – concepts; nature, scope of consumer behaviour; Types of consumer behaviour ; Market segmentation and consumer research. The Buying Process: Roles in consumer decision making. Levels of consumer decision making; Buyer decision making process: Purchase process and post purchase behaviour
Unit II: : Individual Influences on Buying Behaviour; Consumer as an individual; Theories of personality; personality and market segmentation; consumer perception; consumer needs and motivation
Unit III: ; Communication and consumer behaviour. Reference group influence in buying decisions; opinion leadership.
Unit IV Culture and Consumer Behaviour: Core culture and sub cultures. Role of culture in consumer buying behaviour. Profile of Indian consumers; Behavioural patterns of Indian consumers; Reasons for growth of consumerism in India Consumer protection in India.

Suggested Readings

1. Hawkins, Best and Coney: Consumer Behaviour, Tata McGraw Hill, New Delhi .
2. Schiffman, L.G. and Kanuk, L.L.: Consumer Behaviour, Prentice Hall of India,
3. Laudon, David L and Bitta Albert J Della: Consumer Behaviour, Tata McGraw Hill, New.
4. Mowen. John C: Consumer Behaviour, Macmillan, New York

Mapping Matrix: CO-PO and CO-PSO Mapping for the Course- Consumer Behaviour

COs	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	1	1	1	1
CO2	2	1	1	1	2	1	1	1	1
CO3	1	1	1	1	2	1	1	1	2
CO4	1	1	1	1	1	1	1	1	1
Average	1.25	1	1	1	1.75	1	1	1	1.25

240/HHA/MI201

Corporate Skills - II

L	T	P	Credits	TI	TE	PI	PE	Time Allowed
1	1	-	2	15	35	-	-	__ Hours

Type of Course: - Minor Course

Core Course (CC)	Minor Course (MIC) including Vocational Courses (VOC)	Multidisciplinary Course (MDC)	Ability Enhancement Course (AEC)	Skill Enhancement Courses (SEC)	Value Addition Courses (VAC)	Internship
	√					

Introduction to the Course:

Hospitality professionals need to be skilled at building relationships and managing conflicts. Learners should learn to establish rapport with guests, work collaboratively with colleagues, and navigate difficult conversations with diplomacy and tact. This module provides learners with comprehensive knowledge of business communication, problem-solving mindset, and interview skills. It engages them in various communication exercises and encourages the application of effective communication strategies.

Course Outcome: - After completing the course learners will be able to:

CO1. Demonstrate presenting themselves confidently and effectively during job interviews through practical techniques and personalized feedback. Practice elements of professionalism in preparation for joining the workforce.

CO2. Practice communicating effectively (verbally and written) and present themselves professionally.

CO3. Understand the basics of Customer Centricity.

Detailed Syllabus:**Unit-I**

Advance Interview Skills- Interview process, preparation for interview - organization research, SOAR stories, personal statement, interview practice.

Unit-II

Advanced level of business communication- Application of 7Cs of business communication in email writing, listening skills and barriers to listening, techniques to improve listening, application of 7Cs of business communication in verbal communication - extempore and group discussion.

Unit-III

Basics of customer service - Changes in the hospitality space over time and its implications, importance of customer orientation for every employee, concept of lifetime value of a customer, concept of share of wallet, customer definition, kinds of customers, customer experience definition, what comprises excellent customer service, organization's service level, buying process, managing irate customers, incident management and escalations.

TEXTBOOK

- Kumar, S. (2019), Communication Skills a Workbook: Oxford University Press

OTHER RECOMMENDED TEXTS

- Devendra, A. (2015), Soft Skills for Hospitality, Oxford University Press
- Bolles, R. N. (2015), The 2008 what color is your parachute? - A Practical Manual for Job-Hunters and Career-Changers. Berkeley, Ten Speed Press.
- Mukherjee, H.S (2013), Business Communication Connecting at Work, Oxford University Press

Final Assessment (FA)

Theory Internal (TI)	15%
Theory External (TE)	35%
Final Assessment (FA) = (TI+TE)	50%

Theory Internal (TI): The (TI) will be done through in-class continuous assessment/in-class test/operational exam/ coursework/presentation/journal & assignment.

Theory External (TE): The (TE) will be done through the end-term theory exam.

The question paper pattern for the end-term examination will be **35 Marks** and will follow the following pattern:

Question 1	Questions No. One (1) will have five (5) MCQs (All Compulsory).	5*1=5 marks
Question 2	Questions No. Two (2) will have six (6) brief answer questions/ options. (The learner has to answer five (5) out of the six (6)).	5*2=10 marks
Question 3	Question No. Three (3) will have three (3) descriptive questions/ options. (The learner has to answer two (2) out of the three (3)).	2*5= 10 marks
Question 4	Question No. Four (4) will have Two (2) descriptive questions/ options. (The learner can answer one (1) out of the Two (2)).	1*10=10 marks
	Total Marks	35 marks

Mapping Matrix of Course

Table 1: CO-PO Matrix for the Course

COURSE OUTCOMES	PO1	PO2	PO3	PO4
CO1	3	3	2	2
CO2	3	3	2	2
CO3	2	2	2	2
Average	2.66	2.66	2	2

Table 2: CO-PSO Matrix for the Course

CO	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2
CO2	3	3	2	2
CO3	2	2	2	2
Average	2.66	2.66	2	2

Personality Development – II

L	T	P	Credits	TI	TE	PI	PE	Time Allowed
1	1	-	2	15	35	-	-	Hours

Type of Course: - Minor Course

Core Course (CC)	Minor Course (MIC) including Vocational Courses (VOC)	Multidisciplinary Course (MDC)	Ability Enhancement Course (AEC)	Skill Enhancement Courses (SEC)	Value Addition Courses (VAC)	Internship
	√					

Introduction to the Course:

Hospitality professionals need to be skilled at building relationships and managing conflicts. Learners should learn to establish rapport with guests, work collaboratively with colleagues, and navigate difficult conversations with diplomacy and tact. This module provides learners with comprehensive knowledge of business communication, problem-solving mindset, and interview skills. It engages them in various communication exercises and encourages the application of effective communication strategies.

Course Outcome: - After completing the course learners will be able to:

- CO1. Demonstrate presenting themselves confidently and effectively during job interviews through practical techniques and personalized feedback.
- CO2. Practice elements of professionalism in preparation for joining the workforce.
- CO3. Practice communicating effectively (verbally and written) and present themselves professionally.
- CO4. Understand the basics of Customer Centricity.

Detailed Syllabus:

Unit-I

Advance Interview Skills- Interview process, preparation for interview - organization research, SOAR stories, personal statement, interview practice.

Unit-II

Advanced level of business communication- Application of 7Cs of business communication in email writing, listening skills and barriers to listening, techniques to improve listening, application of 7Cs of business communication in verbal communication - extempore and group discussion.

Unit-III

Basics of customer service - Changes in the hospitality space over time and its implications, importance of customer orientation for every employee, concept of lifetime value of a customer, concept of share of wallet, customer definition, kinds of customers, customer experience definition, what comprises excellent customer service, organization's service level, buying process, managing irate customers, incident management and escalations.

TEXTBOOK

- Kumar, S. (2019), Communication Skills a Workbook: Oxford University Press

OTHER RECOMMENDED TEXTS

- Devendra, A. (2015), Soft Skills for Hospitality, Oxford University Press
- Bolles, R. N. (2015), The 2008 what color is your parachute? - A Practical Manual for Job-Hunters and Career-Changers. Berkeley, Ten Speed Press.
- Mukherjee, H.S (2013), Business Communication Connecting at Work, Oxford University Press

Final Assessment (FA)

Theory Internal (TI)	15%
Theory External (TE)	35%
Final Assessment (FA) = (TI+TE)	50%

Theory Internal (TI): The (TI) will be done through in-class continuous assessment/in-class test/operation exam/ coursework/presentation/journal & assignment.

Theory External (TE): The (TE) will be done through the end-term theory exam.

The question paper pattern for the end-term examination will be **35 Marks** and will follow the following pattern:

Question 1	Questions No. One (1) will have five (5) MCQs (All Compulsory).	5*1=5 marks
Question 2	Questions No. Two (2) will have six (6) brief answer questions/ options. (The learner has to answer five (5) out of the six (6)).	5*2=10 marks
Question 3	Question No. Three (3) will have three (3) descriptive questions/ options. (The learner has to answer two (2) out of the three (3)).	2*5= 10 marks
Question 4	Question No. Four (4) will have Two (2) descriptive questions/ options. (The learner can answer one (1) out of the Two (2)).	1*10=10 marks
	Total Marks	35 marks

Note: - The duration of all the end-term theory examinations shall be ** hours.

Mapping Matrix of Course

Table 1: CO-PO Matrix for the Course

COURSE OUTCOMES	PO1	PO2	PO3	PO4
CO1	3	3	2	2
CO2	3	3	2	2
CO3	2	2	2	2
Average	2.66	2.66	2	2

Table 2: CO-PSO Matrix for the Course

CO	PSO1	PSO2	PSO3	PSO4
CO1	3	3	2	2
CO2	3	3	2	2
CO3	2	2	2	2
Average	2.66	2.66	2	2

BACHELOR OF BUSINESS ADMINISTRATION
SEMESTER 2

Name of Subject: Corporate Governance	Maximum Theory Marks: 50 (TE+TI+PE+PI=35+15+0+0)
Course Code:	Time Allowed: 2 Hrs
Credits 2 (L-T-P =2-0-0)	Core Course MIC/VOC

Instructions for Paper Setter: The question paper shall be divided into two sections. Section 'A' shall comprise seven short answer type questions from the syllabus carrying two marks each, which shall be compulsory. The answer to each question should not normally exceed 100 words. Section 'B' shall comprise eight questions of fourteen marks each (2 questions from each unit). The students will be required to attempt four questions by selecting one question from each unit. All questions will carry equal marks

Course Outcomes: - After completing the course, students will be able:

CO1: To knowledge on governance which ensure ethics in corporate management.

CO2: To provide an understanding on legal enforcement for management of corporate health in the interest of shareholder & public.

CO3: To understand corporate social responsibilities.

CO4: To analyze the corporate governance in India.

COURSE CONTENTS:

UNIT 1: Corporate Governance Corporate governance – meaning – objectives – need - importance – principles – corporate governance and organisation success.

UNIT 2: Levels of Governance Structure Corporate governance and role, responsibilities and powers - Board of Directors, Corporate Management Committee and Divisional Management Committee.

UNIT 3: Corporate Governance Forums CII code on corporate governance – features - Various Corporate Governance forums – CACG, OECD, ICGN AND NFCG.

UNIT 4: Corporate Social Responsibility, definition, nature, principles, Corporate social reporting - Objectives of Corporate Social Reporting.

SUGGESTED READINGS:

1. Dr. Neeru Vasishth and Dr. Namita Rajput - Corporate Governance values and ethics, Taxmann Publications Pvt Ltd, New Delhi.
2. S.Sanakaran – International Business & Environment, Margham Publication, Chennai.
3. Dr.S.S. Khanka – Business Ethics and Corporate Governance, S.Chand Publication.
4. Sundar.K, Business Ethics and Value, Vijay Nichole Prints, Chennai.
5. Taxmann - Corporate Governance, Indian Institute of Corporate Affairs

MAPPING MATRIX OF COURSE: 243BBAMIC4

Table 1: CO-PO & CO-PSO Matrix for the Course: Corporate Governance

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2
CO1	2	1	2	1	2	2	1	2	2
CO2	3	2	2	2	3	2	2	3	2
CO3	3	3	3	3	3	2	2	3	3
CO4	3	2	2	2	3	2	2	3	3
Average	2.75	2.0	2.25	2.0	2.75	2.00	1.75	2.75	2.50


 Chairperson
 Department of Management
 Gurugram University
 Gurugram

Semester II**Food Science & Nutrition ()**

L	T	P	L	T	P	Credits	MARKS				
(Hrs)			Credits				TI	TE	PI	PE	Total
1	1	-	1	1	-	2	15	35	-	-	50

Course Description:

This course is designed to enable students to understand the basic concepts of nutrition and the nutrients present in different foods. It enables the students to understand the reaction of food to cooking and the resultant taste and texture. The students also identify common food allergens and study their effects to safeguard consumer health.

Course Objectives:

The objective of this course is to:

- CO1 To Apply knowledge of food groups and nutrients while planning menus.
- CO2 To Understand the effect of cooking on food – high & low temperatures
- CO3 To Understand food through taste and textures
- CO4 To Identify common food allergens to safeguard consumer health

Units (Theory):**Unit I: Nutrition - Introduction to Food Science & Nutrition**

- Discuss the types of Nutrients and their importance in daily diet
- Macro Nutrients – Carbohydrates, Proteins, Fats, Water
- Micronutrients – Vitamins & Minerals
- Food Groups, Food Pyramid, My plate

Unit II: Foundations of Nutrition

- Food Energy - Energy Expenditure and Basal Metabolism
- Define the characteristics and general dietary guidelines of a balanced Diet
- Recommended Dietary Allowance
- Introduction to Food Composition Tables
- Calculation of Energy values of a few recipes

Unit III: Basic Food Science

- Understanding food – texture & taste
- Effect of heat on food
- Effect of low temperatures on food

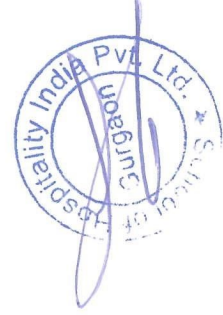
Unit IV: Food Allergens

- Define Food Allergy - symptoms and factors affecting food allergies.
- Discuss types of food allergies – IgE mediated, non-IgE mediated, Mixed
- Identify eight most common allergens – Milk, Wheat, Egg, Peanut, Shellfish, Fish, Tree nuts, Soybeans.

**Suggested Readings:**

- MUDAMBI S.R. & RAJAGOPALA M.V (2015), Fundamentals of Foods, Nutrition & Diet Therapy, ISBN 978-81-224-3349-4
- SURI SUKHNEET & MALHOTRA ANKITA; Food Science Nutrition and Safety, Pearson

CO	P01	P02	P03	P04	P05	P06	P07	P08	PS01	PS02	PS03
CO 1	1	-	2	-	-	3	-	-	1	-	-
CO 2	1	-	2	-	-	3	-	-	1	-	2
CO 3	-	-	1	2	-	3	-	-	1	2	-



240/ENG/MIS02

Course Code – 240/ENG/MIS02

Neoclassical Poetry 240/ENG/MIS02

Maximum Marks: 50
Theory: 35
Internal Assessment: 15

Course Objectives:

CO	Description
CO-1	Explore the key characteristics of Neoclassical Poetry.
CO-2	Understand the historical and cultural context of the Neoclassical Period.
CO-3	Apply various critical approaches to interpret Neoclassical poetry, producing well-supported analysis that consider historical, literary, and theoretical perspectives.

Course Outcomes:

CO	Description
CO-1	Identify the defining features of Neoclassical poetry, including its emphasis on order, reason, and adherence to classical forms and conventions.
CO-2	Contextualize Neoclassical poetry within the broader historical and cultural developments of the 17th and 18th centuries.
CO-3	Engage in discussions that demonstrate a nuanced understanding of Neoclassical poetry's themes, techniques, and contributions to literary tradition.

Unit I

John Dryden: "A Song for St. Cecilia's Day"

Alexander Pope: "Essay on Man, Book I" (First 50 lines only)

Unit II

Samuel Johnson: "Vanity of Human Wishes"

Jonathan Swift's: "A Modest Proposal"

Suggested Readings:

The Cambridge Companion to British Poetry, 1660–1800 edited by Thomas N. Corns.

Neoclassical Poetics and the Literary Imagination by John Sitter.

The Oxford Handbook of British Poetry, 1660–1800 edited by David Fairer and Christine Gerrard.

Poetry and the Politics of the Neoclassical Period by Peter J. Smith.

Instructions to the Paper-Setter and students:

- All questions are compulsory to attempt.
- Question no. 1 will be short answer type question covering all Units. The students have to attempt any 3 out of 5 short notes. (3×5=15 marks)
- Question no. 2 will be an Essay type question based on Unit I. The students have to attempt any 1 out of 2 questions. (10 marks)
- Question no. 3 will be an Essay type question based on Unit II. The students have to attempt any 1 out of 2 questions. (10 marks)

240/ANI/MI201

240/ANI/MI201

**Minor Course from the department for pool of the Courses
in the University**
(These courses are offered by each department for students
of other departments/same department to gain a broader
understanding beyond the major discipline)

Semester 2

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
MIC-2	Basic Presentation skills		1	0	2	1	0	1	2	05	20	05	20	50

Name of Subject: Basic Presentation skills	Maximum Theory marks: 25 (05+20)
	Maximum Practical Marks: 25 (05+20)

Instructions for External Examiner: This question paper shall be divided in two sections. The examiner is requested to set section A as compulsory question containing 8 marks and from the entire syllabus (can be either objective or subjective). Section B will be in choice from two of the questions from each unit. These questions will be of 6 marks each. The students will be required to attempt one question from each unit. All questions from each unit will carry equal marks.

Objectives: To equip students with essential presentation skills, enabling them to effectively communicate ideas and information to diverse audiences using various techniques and tools.

Course Outcomes:

By the end of this course, students will be able to:

- Understand the principles of effective presentations.
- Develop and organize presentation content.
- Utilize visual aids and presentation software effectively.
- Deliver presentations confidently and engagingly.

COURSE CONTENTS:

Unit 1: Foundations of Effective Presentations

- 1.1 Importance of presentation skills in professional and academic settings
- 1.2 Understanding your audience: tailoring content and style
- 1.3 Principles of effective communication: clarity, conciseness, and coherence
- 1.4 Structuring a presentation: introduction, body, and conclusion

Unit 2: Presentation Delivery and Practice

- 2.1 Techniques for confident public speaking: voice modulation, body language, and eye contact
- 2.2 Managing presentation anxiety and building self-confidence
- 2.3 Using visual aids and multimedia effectively
- 2.4 Handling audience questions and feedback

Suggested Readings:

- "Presentation Zen: Simple Ideas on Presentation Design and Delivery" by Garr Reynolds
- "The Exceptional Presenter: A Proven Formula to Open Up! and Own the Room" by Timothy J. Koegel
- "Talk Like TED: The 9 Public-Speaking Secrets of the World's Top Minds" by Carmine Gallo

- | |
|--------------------------------------------------------------------------------|
| 1.1 Importance of presentation skills in professional and academic settings |
| 1.2 Understanding your audience: tailoring content and style |
| 1.3 Principles of effective communication: clarity, conciseness, and coherence |
| 1.4 Structuring a presentation: introduction, body, and conclusion |

Unit 2: Presentation Delivery and Practice

- | |
|------------------------------------------------------------------------------------------------|
| 2.1 Techniques for confident public speaking: voice modulation, body language, and eye contact |
| 2.2 Managing presentation anxiety and building self-confidence |
| 2.3 Using visual aids and multimedia effectively |
| 2.4 Handling audience questions and feedback |

Suggested Readings:

- "Presentation Zen: Simple Ideas on Presentation Design and Delivery" by Garr Reynolds
- "The Exceptional Presenter: A Proven Formula to Open Up! and Own the Room" by Timothy J. Koegel
- "Talk Like TED: The 9 Public-Speaking Secrets of the World's Top Minds" by Carmine Gallo

सेमेस्टर- 2

MIC2-राजभाषा और राष्ट्रभाषा के रूप में हिंदी

अधिकतम अंक:50

लिखित परीक्षा:35

आंतरिक निर्धारण:15

Course ID-

पाठ्यक्रम उद्देश्य :

भाषा की समझ विकसित करना: छात्रों में राजभाषा की गहन समझ विकसित करना ताकि वे सरकारी और प्रशासनिक कार्यों में इसका प्रभावी उपयोग कर सकें।

भाषाई दक्षता: विद्यार्थियों को राजभाषा में लिखने, पढ़ने, बोलने और सुनने की दक्षता प्रदान करना।

सांस्कृतिक जागरूकता: राजभाषा के माध्यम से सांस्कृतिक धरोहर और परंपराओं के प्रति जागरूकता बढ़ाना।

इकाई 1

- राजभाषा एवम राष्ट्रभाषा से तात्पर्य
- राष्ट्रभाषा का महत्व, परिभाषा, एवम स्वरूप
- राजभाषा का महत्व, परिभाषा, एवम स्वरूप
- राजभाषा और राष्ट्रभाषा में अंतर

इकाई 2

- राजभाषा के रूप में हिंदी
- राजभाषा के रूप में हिंदी का विकास
- राजभाषा का वर्गीकरण
- राजभाषा के रूप में हिंदी की संवैधानिक स्थिति
- राजभाषा अनुच्छेद

इकाई 3

- राष्ट्रभाषा के रूप में हिंदी
- राष्ट्रभाषा के रूप में हिंदी का विकास
- राष्ट्रभाषा का वर्गीकरण
- राष्ट्रभाषा के रूप में हिंदी की संवैधानिक स्थिति
- राष्ट्रभाषा अनुच्छेद
- राजभाषा एवम राष्ट्रभाषा के सहयोग में हिंदी की प्रमुख संस्थाएं

राजभाषा पर संदर्भ पुस्तकें:

राजभाषा हिंदी और उसका स्वरूप - डॉ. हजारीप्रसाद द्विवेदी

भारतीय संविधान में हिंदी - डॉ. रघुवीर सहाय

हिंदी राजभाषा: समस्याएं और समाधान - डॉ. वासुदेव नन्दन प्रसाद

हिंदी का संवैधानिक विकास"- डॉ. किशोरी लाल शर्मा

राजभाषा हिंदी: सिद्धांत और व्यवहार - डॉ. हरिशंकर मिश्र

राष्ट्रभाषा पर संदर्भ पुस्तकें:

राष्ट्रभाषा हिंदी: स्वरूप और विकास- डॉ. नामवर सिंह

हिंदी भाषा और साहित्य का इतिहास - डॉ. गणेश प्रसाद द्विवेदी

हिंदी साहित्य का आधुनिक काल - डॉ. रामविलास शर्मा

राष्ट्रभाषा हिंदी का विकास - डॉ. हरिवंशराय बच्चन

हिंदी की राष्ट्रभाषा की भूमिका- डॉ. धर्मवीर भारती

निर्देश:

1) खंड क में से कुल 2 प्रश्न दिए जाएंगे जिनमें से परीक्षार्थी को कोई एक प्रश्न करना

होगा। यह प्रश्न 10 अंक का होगा। $10 \times 1 = 10$

2) खंड ख में से कुल 2 प्रश्न दिए जाएंगे जिनमें से परीक्षार्थी को कोई एक प्रश्न करना

होगा। यह प्रश्न 10 अंक का होगा। $10 \times 1 = 10$

3) खंड ग में से कुल 2 प्रश्न दिए जाएंगे जिनमें से परीक्षार्थी को कोई एक प्रश्न करना

होगा। यह प्रश्न 10 अंक का होगा। $10 \times 1 = 10$

4) पाठ्यक्रम में से 5 अनिवार्य वस्तुनिष्ठ प्रश्न पूछे जाएंगे। सभी प्रश्न अनिवार्य होंगे।

सम्पूर्ण प्रश्न 5 अंको का होगा।

MINOR COURSE
Semester 2
MIC- 2 Women Empowerment

MIC- 2 Women Empowerment(Credits-02)
Course ID-

Maximum Marks: 50
Theory Examination: 35
Theory Internal Assessment: 15
Examination Time: 3 hrs

Course Outcomes:

After the successful Completion of this course, the learners will be able to:

CO 1- The theoretical concepts and meaning of women empowerment in terms of socio-cultural constitutional, political and administrative scenario.

CO 2- To understand the rationale and implication of women empowerment strategies.

CO 3- To acquaint with knowledge gap theoretical discourse and grass roots realities provided in the society.

CO 4-To have the capacity building and critical understanding of the learners to overcome with impediments that comes in the way of women empowerment process and performance.

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3x5=15 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the two units (10 marks each).

Unit-I: Concept and strategies of Women Empowerment

- (a) Empowerment: Concept, Meaning and Rationale.
- (b) Constitutional Provisions pertaining to Women Empowerment.
- (c) Role of NGOs and Civil Society Organizations in Women Empowerment.
- (d) Programmes and Schemes for Women Empowerment .

Unit-II: Historical and Constitutional Status

- (a) Women Empowerment; A Historical Perspective.
- (b) Women Reservation in the Local Self Governance Institutions.
- (c) Sexual Harassment of women at work place Act, 2011
- (d) Domestic Violence Act, 2005.
- (e) Administrative Machinery for Women Empowerment at Central, State and Local levels.

Suggested Readings

1. Kate Grantham, Gillian Dowie, Arjan de Haan (2021), Women's Economic Empowerment: Insights from Africa and South Asia, Routledge, UK
2. Garg, Subhash (2016), Women Empowerment and inclusive growth, RBSA, Jaipur
3. Yadav, Hridai, R (2015), Women Empowerment, Vol. I and II, Rawat, Jaipur.
4. Bharati Ray (2005), Women of India, Sage Publications.

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5. Building Women's Capacities, Sage Publications, 2001.
6. Daniel, W., Crowell (2006), The Sewa Movement and Rural Development, Sage Publication.
7. Geetanjali Misra & Radhika Chandiramani (2005), Sexuality, Gender and Rights, Sage Publications.
8. Goel, Aruna (2004), Organisation and Structure of Women Development and Empowerment, Deep & Deep Publications, New Delhi.
9. Handbook of Gender and Women's Studies, Sage Publications, 2006.
10. Malavika Karlekar and Leela Kasturi (2003), Indian Journal of Gender Studies, Sage Publications.
11. Marthaalter Chen (1998), Widows in India, Sage Publications.
12. Navnita Chadha Behera (2006), Gender, Conflict and Migration, Sage Publications.
13. Neera Burra, Joy Deshmukh-Ranadive and Ranjani K Murthy (2005), Micro-Credit, Poverty and Empowerment, Sage Publications.
14. Rinki Bhattacharya (2006), JANANI-Mothers, Daughters, Motherhood, Sage Publications.
15. Rinki Bhattacharya (2004), Behind Closed Doors, Sage Publications.
16. Sharmila Rege (2003), Sociology of Gender, University of Pune, Sage Publications.
17. Rinki Bhattacharya (2004), Behind Closed Doors, Sage Publications.
18. Savitri Goonesckere (2004), Violence, Law and Women's Rights in South Asia, Sage Publications.
19. Sakuntala Narasimhan (1999), Empowering Women, Sage Publications.
20. Sangeetha Purushothaman (1998), The Empowerment of Women in India, Sage Publications

Semester 2

MIC 2 Fundamentals of Political Science II

MIC 2 Fundamentals of Political Science II (Credits 02)

Maximum Marks: 50

Course ID:

Theory Internal Assessment: 15

Examination Time: 3 hrs

Course outcomes:

It will make students able to:

- Understand the functioning of fundamental institutions of democracy regimes like legislature, the executive and its bureaucracy law and judicial system, elections and pressure groups.
- Understand and critically assess presidential, Semi presidential and parliamentary systems.

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3x5=15 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the two units (10 marks each).

Unit 1

Institutions: Executive, Legislature, Judiciary

Types of Government: Unitary and Federal, Parliamentary and Presidential.

Unit 2

Political Parties, Pressure Groups, Bureaucracy.

Regimes: Democracy, monarchy, Totalitarianism.

Readings

1. The Dynamics of Diplomacy, Jean Robert Leguey- Feilleux, Published by (VIVA) Vinod Vasishtha for viva Books Private Ltd., 4732/23 Ansari Road, New Delhi 110002, Printed by Anand Sons, Delhi-100092, First Edition-2010.
2. The game of Diplomacy- Richard Sharp, Published in Great Britain by Arthur Barker Ltd. London, 1928
3. Diplomacy for the 21st Century, Naunihal Singh, Naurang Rai Mittal Publications (New Delhi) First Edition-2002.
4. Conduct of the New Diplomacy: James H. Cannon, Harper & Row, New York, Evanston and London, Copy right-1964.
5. Modern Diplomacy: Pivotalities and Perspectives, G.V.G. Krishnanmurthy, Marinder Sagar, Sagar Publications, New Delhi-110001, 1980.
6. Theory and Practice of Diplomacy: Dr. Harish Chander Sharma, College Book Depot, Jaipur, New Delhi.



240/MAT/MIS201

Session: 2024-25	
Part A- Introduction	
Subject	Mathematics
Semester	II
Name of the Course	Basic Algebra
Course Code	MIC-2
Course ID	240/MAT/MIS201
Course Type: (CC/ MIC/ MDC/VOC/ AEC/ VAC/SEC)	MIC
Pre-requisite for the course (if any)	Mathematics as a subject at 4.0 level (Class XII)
Course Learning Outcomes(CLOs)	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. Have procedural knowledge, cognitive and technical skills of solving problems based on Cayley-Hamilton theorem. 2. Understand consistency of homogeneous and non-homogeneous system of linear equations. 3. Have knowledge about Jacobians and their basic properties. 4. Gain knowledge gradient for scalar point function, divergence and curl operators for vector point function.

	Theory	Practical	Total
Credits	1	1	2
Contact Hours	1	2	3
Internal Assessment Marks	5	5	10

End term Examination Marks	20	20	40
Examination Time	2 Hours	2 Hours	Max. Marks:50

Part B - Contents of the Course

Instructions for Paper- Setter: The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking Course Learning Outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will contain 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question.

Unit	Topics	Contact Hours
I	Matrix, Characteristic equation of a matrix. Cayley-Hamilton theorem and its use in finding the inverse of a matrix.	4
II	Applications of matrices to a system of linear (both homogeneous and non-homogeneous) equations.	4
III	Jacobians, Properties of Jacobians	4
IV	Scalar and vector product of three vectors, Gradient of a scalar point function, Divergence and curl of vector point function.	4
Practical		

<p>The practical component of the course has two parts:</p> <p>A) Problem Solving- Questions related to the practical applications based on following problems will be worked out and record of those will be maintained in the Practical Note Book:</p> <ol style="list-style-type: none"> 1. Problems of finding inverse of a matrix using Cayley-Hamilton theorem. 2. Problems to find the minimal polynomial of a matrix. 3. Problems to check the consistency of a system of linear equations. 4. Problems to check dependence of functions based on Jacobian. 5. Problems to find divergence and curl of vector point function <p>B) The following practicals will be worked out using MAXIMA Software and their record will be maintained in the Practical Notebook:</p> <ol style="list-style-type: none"> 1. To compute inverse of a square matrix. 2. To solve system of linear equations. 3. To find Jacobian. 4. To find scalar product of three vectors. 	<p>30</p>
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Suggested Evaluation Methods

<p>Internal Assessment:</p> <p>➤ Theory 5</p> <ul style="list-style-type: none"> ● Class Participation: 2 ● Mid-Term Exam: 3 <p>➤ Practicum 5</p> <ul style="list-style-type: none"> ● Seminar/Demonstration/Viva-voce/Lab records etc.: 5 	<p>End Term Examination:</p> <p style="text-align: center;">Theory 20 Written Examination</p> <p style="text-align: center;">Practicum 20 Lab record, viva- voce, write up and execution of the program</p>
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Part C - Learning

<p>Recommended Books:</p> <ol style="list-style-type: none"> 1. Stephen H. Friedberg Arnold J. Insel Lawrence E. (2022). <i>Linear Algebra</i> (5th edition). Prentice Hall of India Pvt. Ltd. 2. Seymour Lipschutz and Marc Lars Lipson (2013). <i>Linear Algebra</i>. (4th Edition) Schaum's Outline Series, McGraw-Hill. 3. K. B. Dutta (2004). <i>Matrix and Linear Algebra</i>. Prentice Hall of India Pvt. Ltd. 4. Hall and S.R. H.S. Knight (2023). <i>Higher Algebra</i> (7th edition). Arihant Publications. 5. Leonard Eugene Dickson (2009). <i>First Course in the Theory of Equations</i>. The Project Gutenberg

EBook (<http://www.gutenberg.org/ebooks/29785>).

6. Murray R. Spiegel, Vector Analysis, Schaum Publishing Company, New York.

7. T.M. Apostol, Mathematical Analysis, Narosa Publishing House, New Delhi, 1985



243/YOG/MI203

29

243/YOG/MI203

SEMESTER-2
Minor Vocational course
Yoga Practicum-2

Course Code: 243/YOG/MI203	Credits:4
TI: 15 TE: 35	PI: 15 PE: 35

Instruction for External Examination: This question paper shall be divided in two sections. Examiner is requested to set section A as compulsory question containing 11 marks and from the entire syllabus (can be either subjective or objective). Section B will be in choice from two question from first 3 unit. The student will be required to attempt one question from each unit, these question in section B will be of 8 marks.

Objective: To prepare students who may wish to pursue teaching or therapeutic applications of yoga by providing foundational skills in guiding others through yoga practices.

- To foster an understanding of the ethical responsibilities of a yoga practitioner or teacher

Outcome: Following the completion of this course, students shall be able to

- Understand the principle and practice of Yogic practices.
- encourage self-reflection and introspection through consistent yoga practice, leading to greater self-awareness and emotional resilience.
- explore the connection between mind, body, and spirit, fostering a holistic understanding of oneself.

UNIT-1: HYMNS AND SHATKARMA

- 1.1 Recitation of Selected Slokas of Bhagwat Geeta
- 1.2 Recitation of Suryastakama
- 1.3 Shatkarma Agnisar
- 1.4 Kapalbhata (Seetkrama and Vyutkrama)

UNIT-2: YOGIC SURYANAMASKAR AND YOGASANA

- 2.1 Forward bending Asana
- 2.2 Backward bending Asana
- 2.3 Hand & Leg Balancing asana
- 2.4 Twisting Asana, Suryanamaskar

UNIT-3: BANDHA, PRANAYAMA AND DHYANA

- 3.1 Bandha
- 3.2 Pranayama of Hatha Yoga
- 3.3 Yoga Nidra
- 3.4 Ajapa Dharana, Cyclic Meditation

UNIT- 4: CONTINUOUS EVALUATION BY THE TEACHERS

Suggested Books

- Joshi, K.S.: YogicPranayama, OrientalPaperback, NewDelhi.
Nagendra, H.R: Mind sound resonance technique, Swami Vivekanand Yoga Prakashan, 2002, Bangaore.
Swami Niranjanananda Saraswati: Asana Pranayama Mudra Bandha; Bihar school of Yoga publications; Munger, 2001
Swami Satyananda: Yoganidra, YogaPublicationTrust, Munger, 1998
Swami Dharendra Bhramhachari: Yogasana Vijnana, Dharendra Yoga Publications, New Delhi, 1966
Pran aur Pranayam by Swami Nirjanand Saraswati
Swami Swatmaram:- Hatha yoga Pradipika

21/1/25

Introduction:

Name of the programme : B.A. MULTIDISCIPLINARY – (MUSIC(V))

Semester: IInd

Course Title: Historical View of Indian Music

Course Type: Minor

Course ID – 240/MV/MIS201

Course learning Outcomes: After completing this course, the learner will be able to:

1. Elaborate about Indian Classical Music
2. Demonstrate about terms of music
3. Demonstrate about the Ragas and talas
4. Differentiate between filmy and classical music.
5. Perform the Ragas and Talas.

Course title	Nature of the course	Total Credits	Components			Eligibility Criteria / Prerequisites
			L	T	P	
Historical View of Indian Music	CC-Minor	2	1	0	1	Class XII Pass

Maximum Marks: 50 (25+25)

Time: 3 Hours (Theory)

Internal Assessment Marks: 10 (5+5)

6 Hours (Practical)

End Term Exam Marks: 40 (20+20)

Content**Instructions:**

Question 1 is compulsory comprising of five sub parts spread over entire syllabus one mark for each sub part, to be answered in 15-20 words. There will be eight long questions, 2 from each units the candidate has to answer three long questions, at least one question from each unit all questions carry equal marks.

Unit-I (4 Hours)

1. Complete knowledge of the ragas and Drut Khayal in each raga with alap and taans-
(i) Yaman (ii) Kafi
2. Brief history of Indian Music in Medieval Period.

Unit-II (4 Hours)

1. Classification of Indian Music Instruments.
2. Role of media in development of Indian Classical Music.

Unit-III (4 Hours)

1. Define the following terms:
Aaroha, Avaroha, Sargam, alap, That, Jati, ragas
2. Describe in details about the ek taal and kehrava along with Thah and dugun.
3. Write in details about the khayal gayan shailli.

Unit-IV: (3 Hours)

1. Relationship between filmi and classical music.
2. Write in details for the following personalities:
 - (i) Pt. Bhim Sain Joshi
 - (ii) Ustad Allaudin Khan

Unit-V: (30 Hours)

1. Ability to demonstrate the taal by hand or on tabla: Ektaal , Kehrawa.
2. Students are expected to play one Drut Khayal from the Rag Yaman and Raga Kafi.

Internal Assessment: 10 (5+5)

Theory:

- Class Participation
- Seminar / Presentation / assignment / quiz / class test etc.
- Mid-Term Exam;

Practicum:

- Class Participation
- Seminar / Demonstration / VIVA-VOCE etc.
- Mid Term Exam

End Term Examination :- 40(20+20)

References:

- Kramik Pustak Mallika-Part-II, Pt. V.N. Bhatkhande
- Bhatkhande Sangeet Shastra – Pt. V.N. Bhatkhande
- Sangeet Bodh- Sharad Chandra Pranjpayee
- Hamare Sangeet Ratna- Laxmi Narayan Garg
- Raag Parichay Part (1-2)- Harish Chand Srivastav
- Bharat ke Sangeetkar – Laxmi Narayan Garg
- Sangeet Visharad- Basant
- Shastriya Sangeet ka Vikas- Dr. Amita Sharma
- Aakashvani aur sangeet- Prof. Suchismita Sharma

Introduction:

Name of the programme – B.A. MULTIDISCIPLINARY – (MUSIC(I))

Semester: 2nd

Course Title: General History and Basic Terms of Music

Course Type: Minor

Course ID - 240/MI/MI201

Course learning Outcomes: After completing this course, the learner will be able to:

1. Elaborate about Indian Classical Music
2. Demonstrate about terms of music
3. Demonstrate about the Ragas and talas
4. Differentiate between filmy and classical music.
5. Perform the Ragas and Talas.

Course title	Nature of the course	Total Credits	Components			Eligibility Criteria / Prerequisites
			L	T	P	
General History and Basic Terms of Music	CC-Minor	2	1	0	1	Class XII Pass

Maximum Marks: 50 (25+25)

Time: 3 Hours (Theory)

Internal Assessment Marks: 10 (5+5)

6 Hours (Practicals)

End Term Exam Marks: 40 (20+20)

Content

Instructions:

Question 1 is compulsory comprising of five sub parts spread over entire syllabus one mark for each sub part, to be answered in 15-20 words. There will be eight long questions, 2 from each units the candidate has to answer three long questions, at least one question from each unit all questions carry equal marks.

Unit-I (4 Hours)

1. Complete knowledge of the ragas and Maseetkhani and Razakhani gats, in each raag with alap and toras-
 - i. Bhairav ii. Yaman
2. Brief history of Indian Music from Mugal period to Modren Period.

Unit-II (4 Hours)

1. Classification of Indian Music Instruments.
2. Role of media in development of Indian Classical Music.

Unit-III (4 Hours)

1. Define the following terms:
 - i. Aaroha, Avaroha, Sargam, alap, That, Jati, ragas
2. Describe in details about the ek taal and kehrava along with Thah and dugun.
3. Write in details about the khayal gayan shaili.

Unit-IV: (3 Hours)

1. Relationship between filmi and classical music.
2. Write in details for the following personalities:
 - Pt. Bhim Sain Joshi
 - Ustad Allaadin Khan

Unit-V: (30 Hours)

1. Ability to demonstrate the taal by hand or on tabla: Ektaal , Kehrawa
2. Students are expected to play one Razakhani Gat from the Rag Yaman and rag bhairav

Internal Assessment: 10 (5+5)

Theory:

- Class Participation
- Seminar / Presentation / assignment / quiz / class test etc.
- Mid-Term Exam;

Practicum:

- Class Participation
 - Seminar / Demonstration / VIVA-VOCE etc.
 - Mid Term Exam
- End Term Examination :- 40(20+20)

References:

Kramik Pustak Mallika-Part-II, Pt. V.N. Bhatkhande
Bhatkhande Sangeet Shastra – Pt. V.N. Bhatkhande
Sangeet Bodh- Sharad Chandra Pranjpayee
Hamare Sangeet Ratna- Laxmi Narayan Garg
Raag Parichay Part (1-2)- Harish Chand Srivastav
Bharat ke Sangeetkar – Laxmi Narayan Garg
Sangeet Visharad- Basant
Shastriya Sangeet ka Vikas- Dr. Amita Sharma
Aakashvani aur sangeet- Prof. Suchismita Sharma

MIC-2 Consumer Behaviour (Credits 02)

Maximum Marks: 50
Theory Examination: 35
Internal Assessment: 15
Examination Time: 3 hrs

Course Outcomes:

- Students will gain an understanding of the key concepts in consumer behavior and marketing management.
- Students will learn about various factors affecting psychological processes involved in consumer behavior.
- Students will be able to analyze the decision-making processes of consumers.
- Students will develop critical thinking skills by analyzing consumer behavior case studies and real-world scenarios.

Instructions:

The students will be required to attempt four questions in all. Question No. I will be compulsory comprising of 5 short answer type questions of 1 mark each and will cover the entire syllabus $1 \times 5 = 5$ marks. In addition to it, Question Nos. II to VII will consist of long answer (essay type) questions, two Questions from each Unit with internal choice carrying 10 marks each i.e. $3 \times 10 = 30$ marks thus making it the total weight age to 35 marks. Three questions to be attempted. One from each unit.

UNIT-1

CONSUMER BEHAVIOR: Concept and need for studying consumer behavior, Understanding the Diversity of consumer behavior,

The value of consumer research, Application: consumer behavior and marketing management

UNIT-II

PERCEPTION AND CONSUMER BEHAVIOUR: Meaning of perception & related terms, External and internal factors,

The perceptual process & factors responsible for perceptual distortion, Application: consumer imagery.

UNIT-III

CONSUMER DECISION PROCESS: Situational Influences, Consumer Decision Process and Problem Recognition,

Information Search, Alternative Evaluation and Purchase, Social influence on consumer behavior

Suggested Reference Books:

1. Consumer Behavior – Building Marketing Strategy, tenth edition. Hawkins, Mothersbaugh, Best; McGraw-Hill, 2007. ISBN-10: 0-07-310137-0
2. Curtis P Haugtvedt -Curtis P Haugtvedt- Handbook of Consumer Psychology, Psychology Press
3. Barrie Gunter- The Psychology of Consumer Profiling in a Digital Age. Routledge

References:

1. Dessler, G. (2009). A framework for human resource management, 5th ed. Pearson/Prentice

Hall Publishing.

2. Rao, V.S.P. (2005). Human resource management: Text and cases, 2nd ed. Excel books.
3. Nick& James, T. W. (2012). Effective training - systems, strategies and practices. Pearson.
4. Bhatia, S.B. K. (2009). Training and development: concepts and practice. New Delhi: Deep and Deep publication private limited.
5. Noe. R. (2012). Employee training and development. New York: McGraw-Hill Education



MIC-2:- Fundamental of Western Philosophy
Credits:- 02

Maximum Marks:-50
Internal Assessment Marks:-15
End Term Exam Marks:-35
Time:-2hrs.

Course Learning Outcomes(CLO):

- After completing this course, the learner will be able to:
- 202.1. Learn about the nature and definition of Western Philosophy.
 - 202.2. Learn about the Branches Of Western Philosophy.
 - 202.3. Learn about the basic concepts Of western Philosophy
 - 202.4. Learn about the methods of Western Philosophy.

Instructions for Paper-Setter

The paper-setter is requested to set Nine questions in all i.e., One Compulsory Objective Type Question (7x1) without any choice, equitably distributed over the whole syllabi and Two Questions from Each Unit equitably spread over the concerned unit. The examinees will have to attempt Five questions in all, selecting one question from each unit. All questions carry equal marks.

Unit I

Introduction to Philosophy;
 Branches of Philosophy (Metaphysics, Epistemology and Axiology),
 Features Of Philosophy

Unit II

Socrates
 Method; Plato's theory Of Knowledge ;
 Plato's theory of Ideas

Unit III

Aristotle : Four Causes
 Descartes : Method Of Doubt
 Spinoza : Substance

Unit IV

Leibnitz: Meaning , Nature and Types Of Monads ; Characteristics Of Monads
 Locke : Refutation Of Innate Ideas ; Empiricism

Recommended Books/e-resources/LMS:

- B.N.Singh: Paschatya Darshan ki Ruprekha, Published by Students Friends And Company ,Varansi
 Daya Krishna: Paschatya Darshan ka Itihas, Bhag I&II. Published by Rajasthan Hindi Granth Academy ,Jaipur 1987
 Jagdish Sahay Srivastava: Paschatya Darshan ki Darshnik Parvitiyan, Published by Abhivyakti Prakashan ,January ,2017
 Haridya Narayana Mishra: Paschatya Darshan ka Itihas avm Samsyayen,
 W.T.Stace: A Critical History of Greek Philosophy, Khoshla Publishing House,Delhi
 W.K.Wright: A History of Modern Philosophy MacMillan Company ,New York ,1947
 Yacub Mashih: Paschtya Darshan ka Smikshatmak Itihas, Motilal Banarsi Dass,Delhi ,1994 Y.Mashih : Western Philosophy ,Motilal Banarsi Dass ,Delhi

Semester-2:**MIC-2: Environmental History**

Maximum Marks:50
Theory Exam: 35
Internal Assessment: 15
Time: 2 Hours

Instructions for Paper-Setter:

1. Nine questions shall be set in all, two questions from each Unit I-IV and Question No 1, that is, Compulsory Question, by taking COs into consideration. Each question shall carry 07 marks.
2. The Compulsory Question shall consist of *seven* short answer type questions of 01 marks each which shall be spread over the whole syllabus.
3. The candidate shall be required to attempt *five* questions in all selecting one each question from Unit I-IV and the Compulsory Question.

Course Outcomes (COs):

After completing this course, the learner will be able to:

CLD-1: Learn the importance and scope of the study of environmental issues.

CLD-2: Grasp the concept of Environmental History and the issues related to it in the context of India.

CLD-3: Understand the growth of environmental and ecological consciousness in Indian society and culture from ancient times upto the medieval period.

CLD-4: Acquaint with the growth of environmental and ecological consciousness in Indian society and culture during the colonial times.

Unit – I

Towards Environmental Studies: Importance and Scope of the Study of Environmental Issues; Our Environmental Understanding and Importance of Environment for Humans; The Three Realms of Earth: Lithosphere, Hydrosphere & Atmosphere; Eco-Pathway in Ecological System; Concept of Sustainability

Unit II

Environmental History and the Related Issues: Concept of Environmental History; Environmental Degradation in Human History and its Effects; Geography of India: Natural and Man-made Resources; Social Issues in India and Concept of Environmental Ethics

Unit III

Environmental and Ecological Consciousness in Pre-Colonial India: Concept of Nature and Environmental Consciousness in Indian Culture; Early History: Vedic, Buddhist and Jain Environmental Ethics; Concept of Nature and Environmental Consciousness in Medieval Indian Socio-Religious Traditions; Exploitation of Natural Resources for Development during the Sultanate and Mughal Period

Unit IV

Colonial Intervention and Environmental Change: British Colonialism, Process of Colonialization and Nature – British Approach towards Environmental Issues; Over Exploitation of Natural Resources; Technological Development, Industrialization and its Impact on Land Use, Agriculture and Forests; Agricultural and Forest Acts; Public Engineering: Colonial Projects

Recommended Books/e-resources/links

Agrawal, Anil (ed.), *The State of India's Environment*, The Second Citizen Report, Delhi, 1985.

Agrawal, Arun and Kalyanakrishnan Sivaramakrishnan (eds.), *Social Nature, Resources, Representations and Rule in India*, Delhi: OUP, 2000.

Ahsan, Mohd., *Forest and Wild Life Management in Ancient India*, Times, Paryavaran Gyan Yagya Samiti, Lucknow.

Arnold, David and Ramachandra Guha, eds., *Nature, Culture and Imperialism: Essays on the Environmental History of South Asia*, New Delhi: OUP, 1995.

Baviskar, Amita Z. (ed.), *Contested Grounds: Essays on Nature, Culture and Power*, New Delhi, 2008

----- (ed.), *Contested Waterscapes*, Delhi: OUP, 2008.

Chokar, Kiran B., *Understanding Environment*, Sage Publication, 2004.

Chauhan, G.C., *Some Aspects of Early Indian Society*, Red Lead Press, Pittsburg, U.S.A., 2012.

Cunningham, William P. & Barbara Woodworth, *Environmental Science*, Sakigo, USA, 1990

Grove, Richard, *Green Imperialism*, Delhi: OUP, 1998.

-----, Vinita Damodaran and Satpal Sangwan, (eds.) *Nature and the Orient: The Environmental History of South and Southeast Asia*, Delhi: OUP, 1998.

- Guha, Ramachandra, *The Unquiet Woods*, Delhi: OUP, 1989, 2000, revised edition.
- Guha, Ramachandra and Madhav Gadgil, *The Fissured Land: An Ecological History of India*, Delhi: OJP, 1992.
- Guha, Sumit, *Environment and Ethnicity in India, 1200- 1991*, Cambridge: Cambridge University Press, 1999.
- Jain, Pankaj, *Dharma and Ecology in Hindu Communities*, Ashgate, 2011.
- Misra, S.P. (ed.), *Essential Environmental Studies*, Ane Books, New Delhi, 2008
- Nair, Janaki, *The Promise of a Metropolis*, Delhi: OUP, 2007.
- Oidium, E.P. *Fundamentals of Ecology*, W.B. Philadelphia Pennsylvania USA-1959.
- Sarma, P.D., *Ecology and Environment*, Rastogi Publications, Meerut, 1990
- Fajan, S Ravi, *Modernizing Nature*, Delhi: Orient Black Swan, 2008.
- Pangarajan, Mahesh, *India's Wildlife History: An Introduction*, Delhi: Prakashan Association
- Rangarajan, Mahesh (ed.), *Environmental Issues in India*, Pearson, New Delhi, 2006.
- and K. Sivaramakrishnan ed, *India's Environmental History*, Volumes I and II, Ranikhet: Permanent Black, 2011.
- Arupjyoti Saikia, *Forests and the Ecological History of Assam*, Delhi: OUP, 2011.
- Worster (ed.), *The End of Earth: Perspective of Modern Environmental History*, New York, 1988.

240/GEO/MI201

11

Gurugram University Gurugram, Haryana (India)

Minor Course from the department for pool of the Courses in the University

(These courses are offered by each department for students of other departments/same department to gain a broader understanding beyond the major discipline)

(As per NEP 2020 w.e.f session 2024-25)

Course Title: Urbanization in India -Semester-2

Paper Code:

Credit: 02 (1+1+0) L+T+P Hrs/Week	Total Marks	50 Marks
Time: 3 Hours	End Semester Exam:	35 Marks
Note: (i) Minor Course from the department for pool of the Courses in the University is offered by each department for students of other departments/same department to gain a broader understanding beyond the major discipline. (ii) The Question one of paper is compulsory. Question one of paper will contain Multiple Choice Questions (MCQ)/Objective type/Terms of seven marks (even MCQ/ Objective type/Terms of one mark each). (iii) The question paper will have four units. Two questions will contain from each unit of the syllabus. Candidates are required to attempt one question from each unit. These questions will be of Seven marks each.	Internal Assessment:	15 Marks
	Attendance	05 Marks
	Sessional Examination	10 Marks

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Learning/Course Objectives: To understand the underlying concept of modern problems & apply environmental concepts to resolve human problems. The foundational concepts of the relationship between humans and their surroundings will be addressed in the course on basic current topics. To get greater knowledge about concepts pertaining to people and the environment & understand processes and events that occurs in a certain region to comprehend people reaction in their environment.

Learning/Course Outcomes: CO-1: To understanding about pattern and processes of urbanization. CO-2: To Acquaintance with contemporary urban infrastructure issues .CO-3: To r Augmentation of knowledge about urban social issues .CO-4: Awareness about urban governance issues .CO-5: To make geography a more interdisciplinary and trans-disciplinary field of study to understand the contemporary issues are important for long-term development and growth.

UNIT-I

Urbanization in India: History & Processes of urbanization: Socio-cultural, political, economic and geographical processes. Patterns of urbanization: level of urbanization, criteria of measurement and spatial patterns of urbanization in India, Recent trends of urbanization in India.

UNIT-II

Urban housing, Urban transport, Urban crime and delinquency, Water crisis and water management, Urban sanitation & Solid waste management, Urban Forest.

UNIT-III

Urban poverty: measures of poverty, status, causes and policies. Slums: current status, causes and policies.

Marginalization of poor in urban space. Squeezing of urban social space.

UNIT-IV

Role of urbanization in economic and social change. National urbanization policy. Urban regions of India: case studies of metropolitan regions of Delhi, Mumbai, Kolkata, Chennai. Bangalore and Hyderabad

Recommended Readings:

- Ahluwalia, I.J., Kanbur, R. and Mohanty, P.K. (2014) Urbanization in India: Challenges, Opportunities and the Way Forward, SAGE India, New Delhi.
- Alam, SM and Khan, W. (1972) Metropolitan Hyderabad and its Region: A Strategy for Development, Asia Publishing House, Bombay.
- Baccock, Blair. 2002. Making Sense of Cities: A Geographical Survey. Arnold, London, □ Bala, Raj. 1986. Urbanisation in India, Rawat Publishers, Jaipur.
- Barsal, S.C. 2008. Urban Geography (Hindi Edition), Meenakshi Prakashan, Meerut
- Barsal, S.C. 2010. Urban Geography. Meenakshi Prakashan, Meerut □ Beall, Jo and Sean Fox. 2009. Cities and Development. Routledge, London.
- Carter, Harold (1995), The Study of Urban Geography. 4th edn, Arnold, London
- Fyfe, N. R. and Kenny, J. T. (2005). The Urban Geography Reader. London, UK: Routledge.
- Knox, P. L., and McCarthy, L. (2005). Urbanization: An Introduction to Urban Geography. New York, USA: Pearson Prentice Hall.
- Pacigne, M. (2009). Urban Geography: A Global Perspective. UK Taylor and Francis.
- Ramachandran, R., (1989). Urbanisation and Urban Systems of India. New delhi, India: Oxford University Press.
- Singh, R.B., (Ed.) (2015). Urban development, challenges, risks and resilience in Asian megacities. Japan: Advances in Geographical and Environmental Studies, Springer
- Kaplan, D. H., Wheeler, J. O. and Holloway, S. R. (2008). Urban Geography. NY, USA: John Wiley.
- Knox, P. L., and Pinch, S. (2006). Urban Social Geography: An Introduction, NY, USA: Prentice-Hall.
- Kuncu, A. (1992) Urban Development and Urban Research in India, Khanna Publication
- Nargia, S. (1976) Delhi Metropolitan Region: A study in Settlement Geography, Rajesh Publication.
- Ramachandran, R. 1989. Urbanisation and Urban Systems in India. Oxford, New Delhi.
- Singh, K. and F. Steinberg. eds. 1987. Urban India in Crisis. New Age International, New Delhi
- Sassen, S. (2001). The Global City: New York, London and Tokyo. USA: Princeton University Press.
- Sharma, A.K. and Mishra, B.D.(2018) Urbanization in India: Issues and Challenges, Ane Publication, New Delhi.
- Sharma, Springer. V.R. and Chadrakanta. (2019). Making Cities Resilient. Delhi, India:

Semester-2

MIC-2:- Urban Sociology
Credit-2

Maximum Marks –50
Theory – 35
Internal Assessment – 15
Time – 2 hours

The students will be required to attempt three questions in all. Question No. I will be compulsory comprising of 8 short answer type questions of 3 marks each and will cover the entire syllabus. The answer should be in 100-200 words. The students are required to attempt five short answer type questions out of 8, i.e., $5 \times 3 = 15$ marks. In addition to it, Question Nos. II to V will consist of long answer (essay type) questions, two Questions from each Unit with internal choice carrying 10 marks each i.e. $2 \times 10 = 20$ marks thus making it the total weight age to 35 marks. Two questions to be attempted. One from each unit.

Course Outcomes:

- Students will gain understanding about Concept and issues of urban society.
- Students will learn about urban social structure and impact of urbanization.

Unit-I

Concepts & Issues: Meaning and Scope of Urban Sociology, Characteristics of Urban and Rural Community, Rural-Urban Contrast.

Unit-II

Urban Social Structure: Family, Religion, Urbanization – Meaning and its factors; Social Consequences & Impact of Urbanization

Readings :

- Ashish, Boss (1974), Studies in India's Urbanisation: 1901-1971, New Delhi: Tata Mc-Graw-Hill.
 D'Souza, Alfred (1978), The Indian City : Poverty, Ecology and Urban Development, Manohar Publications, New Delhi.
 Gore, M.S. (1990), Urbanisation and Family Change, Bombay: Popular Prakashan.
 Gandhi, Raj (1981), Urban Sociology in India, International Journal Contemporary Sociology, Vol.18, Nos. & 4, 1981.46
 Harry, Gold (1982), The Sociology of Urban Life, Prentice Hall.
 Oommen, T.K. (1967), "The Rural Urban Continuum Re-examined in the Indian Context", Sociologia Ruralis, Vol.7 No.1.
 Ram Chandran, R. (1991), Urbanisation and Urban System in India. OUP Delhi.
 Saberwal, Satish (ed) (1976), The Mobile Men : Limits to Social Mobility in Urban Punjab, Vikas, Delhi.
 Saberwal, Satish (ed) (1978), Process and Institution in Urban India: Sociological Studies, Delhi: Vikas.
 Saunders, Peter (1981), Social Theory and The Urban Question, Hutchisonson
 Quinn, J.A. (1967), Urban Sociology, Ch.14 Eurasia, Delhi.
 Rao, M.S.A. (ed.) (1974), Urban Sociology in India. Delhi: Orient Longman.

Definition, importance, properties and applications of Chemical Potential, Enthalpy, Gibbs function and Helmholtz function, Behavior of Real Gases, Deviations from the Ideal Gas Equation. The Virial Equation, Critical Constants, Boyle Temperature, Van-der Waal's Equation of State for Real Gases, Values of Critical Constants

References:

1. A Treatise on Heat: Meghnad Saha and B.N. Srivastava, Indian Press
2. Thermal Physics: S. Garg, R. Bansal and Ghosh, Tata McGraw-Hill
3. Concepts in Thermal Physics: S.J. Blundell and K.M. Blundell, Oxford University Press
4. Heat and Thermodynamics: An Intermediate Textbook by M. W. Zemansky and R. Dittman, McGraw-Hill

240/PHY/P/MIS201

Semester-II

Minor Course(s)

Course ID -
Modern Physics

Max. Marks: 35

Credit 2 (30 Hrs)

Internal Assessment: 15

Time: 3 hrs

*Note: The paper setter is to set **Nine** questions. Question no. 1 (compulsory based on the entire syllabus) will consist of short answer type questions. The rest of the **eight** questions will be set uniformly, with two questions from each unit selected. A student is required to attempt **five** questions, selecting one from each unit along with compulsory question no 1. The question paper shall contain 20 % numerical problems in the relevant papers.*

<p>Course Objective: This course aims to introduce students to the foundational concepts of quantum mechanics. It covers the quantum theory of light, wave-particle duality, the Heisenberg uncertainty principle, and the Schrödinger equation. Students will gain an understanding of particles' behaviour at the quantum level and learn to apply quantum mechanical principles to solve problems.</p>	<p>Course Outcome: Upon successfully completing this course, students will be able to understand the quantum theory of light, describe wave-particle duality and the Heisenberg uncertainty principle, solve the Schrödinger equation for simple systems and interpret wave functions in terms of probabilities and normalization.</p>
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Unit-I

Blackbody Radiation (observations and models), Planck's proposition and quantum theory of light, Photoelectric effect, X-rays, X-ray production, Compton scattering, Pair Production, De Broglie Waves, Davisson-Germer experiment. Wave description of particles by wave packets. Group and Phase velocities and the relation between them. Two-Slit experiment with electrons, Probability, Wave amplitude and wave functions, Rutherford Model, Hydrogen spectra and Bohr model of atom.

Unit-II

Practicals

Position measurement- gamma-ray microscope thought experiment; Wave-particle duality, Heisenberg uncertainty principle (Uncertainty relations involving Canonical pair of variables, Estimating minimum energy of a confined particle using uncertainty principle; Energy-time uncertainty principle application to virtual particles and range of interaction. Two slit interference experiment with photons, atoms and particles; linear superposition principle as a consequence.

Unit-III

Matter waves and wave amplitude; Schrodinger equation for non-relativistic particles; Momentum and Energy operators; stationary states; physical interpretation of a wave function, probabilities and normalization; Probability and probability current densities in one dimension.

Unit-IV

Solution of Schrodinger equation for one-dimensional problems: One dimensional infinitely rigid box- energy eigenvalues and eigenfunctions, normalization; Quantum dot as an example; Quantum mechanical scattering and tunnelling in one dimension-across a step potential & rectangular potential barrier.

Reference Books:

1. Concepts of Modern Physics, Arthur Beiser, 2002, McGraw-Hill.
2. Introduction to Modern Physics, Rich Meyer, Kennard, Coop, 2002, Tata McGraw Hill
3. Modern Physics, Kenneth S. Krane, JOHN WILEY & SONS, INC.

P. Singh

240/SKT/MI 202

Minor Course**Semester 2****संस्कृत साहित्य में नाट्य एवं रंगमंच**

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
MIC-2	संस्कृत साहित्य में नाट्य एवं रंगमंच		1	1		1	1		2	15	35			50

पाठ्यक्रम विवरण:

यह पाठ्यक्रम संस्कृत साहित्य में नाट्य और रंगमंच के ऐतिहासिक, सांस्कृतिक, और साहित्यिक आयामों की गहरी समझ प्रदान करने के उद्देश्य से तैयार किया गया है। इसमें संस्कृत नाट्यशास्त्र, नाटकों की रचनात्मकता, और रंगमंच की कला की अध्ययन पर विशेष ध्यान दिया जाएगा। छात्रों को प्राचीन संस्कृत नाटकों के संरचना, शिल्प, और प्रदर्शन की प्रक्रिया से परिचित कराया जाएगा, साथ ही उनके सामाजिक, धार्मिक और सांस्कृतिक संदर्भों का भी विश्लेषण किया जाएगा।

पाठ्यक्रम का उद्देश्य

- संस्कृत नाट्यशास्त्र और उसकी मुख्य अवधारणाओं जैसे रस, भाव, अभिनय और मंच संचालन को समझना।
- कालिदास, भवभूति, भास, शूद्रक आदि जैसे प्रमुख संस्कृत नाटककारों और उनके नाटकों का अध्ययन।
- नाटक के विभिन्न घटकों जैसे अभिनय, मंच सज्जा, संगीत, नृत्य, और संवाद की गहरी समझ विकसित करना।
- संस्कृत नाटकों के साहित्यिक और सांस्कृतिक परिप्रेक्ष्य में उनका महत्व और उनका समाज पर प्रभाव।
- प्राचीन संस्कृत नाटकों और आधुनिक रंगमंच की तुलना करना और समझना कि कैसे समय के साथ नाटक और रंगमंच का विकास हुआ।

Signature

पाठ्यक्रम के परिणाम: इस पाठ्यक्रम को सफलतापूर्वक पूरा करने के बाद छात्र निम्नलिखित परिणाम प्राप्त करेंगे:

- छात्र भरत मुनि द्वारा रचित नाट्यशास्त्र के सिद्धांतों और नाटक की उत्पत्ति, विकास तथा संरचना को समझ सकेंगे।
- छात्र रंगमंच के रूप, रंग ग्रह, मंडपनिवेश, चित्रकर्म, स्तम्भस्थापना, रंगशीर्ष, और दारुकर्म के महत्व और उनकी भूमिका को समझ सकेंगे।
- छात्र अभिनय के विभिन्न प्रकारों का ज्ञान प्राप्त करेंगे, जैसे कि आंगिक (शारीरिक अभिनय), सात्विक (भावनात्मक अभिनय), वाचिक (बोलचाल या संवाद आधारित अभिनय), और आहार्य (पोशाक और सजावट आधारित अभिनय)।
- छात्र रंगमंच पर आधारित नाटकों के प्रदर्शन का मूल्यांकन कर पाएंगे और यह समझ सकेंगे कि कैसे मंच पर कला के विभिन्न घटक (जैसे अभिनय, संवाद, मंच सजावट) एक साथ मिलकर एक प्रभावशाली प्रदर्शन तैयार करते हैं।
- छात्र प्राचीन भारतीय रंगमंच की सांस्कृतिक और धार्मिक पृष्ठभूमि का गहन विश्लेषण करेंगे और समझेंगे कि नाट्यशास्त्र और अभिनय के सिद्धांत भारतीय समाज के विभिन्न पहलुओं से कैसे जुड़े हैं।

पाठ्यक्रम:

इकाई 1. भरत मुनि एवं नाट्य शास्त्र का परिचय , नाटक की उत्पत्ति , विकास एवं स्वरूप

इकाई 2. रंगमंच का स्वरूप, रंग ग्रह , मंडपनिवेश ,चित्रकर्म स्तम्भस्थापना , रंगशीर्ष , दारुकर्म

इकाई 3 - अभिनय का सामान्य परिचय -अभिनय के प्रकार- आंगिक, सात्विक ,वाचिक ,आहार्य

दिशा-निर्देश:

- वस्तुनिष्ठ प्रश्न सभी इकाइयों से 5 वस्तुनिष्ठ प्रश्न अनिवार्य होंगे। (कुल अंक: 10)
- इकाई 1 से 3: इकाई 1 से 3 में से 2 प्रश्नों का उत्तर लिखें। (कुल अंक: 10)
- इकाई 2 से 4:इकाई 2 से 4 में से 2 टिप्पणी लिखें। (कुल अंक: 7)
- इकाई 3 से 4:इकाई 3 से 4 में से 2 प्रश्नों का उत्तर लिखें। (कुल अंक: 8)

संदर्भ - ग्रंथ :

- नाट्यशास्त्रम् - व्या० श्री सत्यार्थ प्रकाश शर्मा, चौखंबा सुरभारती प्रकाशन
- नाट्यशास्त्र (प्रथम, द्वितीय एवं तृतीय भाग) श्री बाबूलाल शुक्ला शास्त्री, चौखंबा संस्कृत संस्थान

George Pina

MIC-2

Urdu Ghazal

Max Marks: 35

اردو غزل

Objective:

- اس کورس کی تدریس کا مقصد یہ ہے کہ:
- ۱۔ غزل کی صنفی حیثیت سے روشناس کرانا۔
 - ۲۔ غزل کی عربی فارسی روایات سے واقف کرانا۔
 - ۳۔ غزل کی عالم گیر مقبولیت سے روشناس کرانا۔

Course Outcome:

- اس کورس کی مکمل تدریس کے بعد طلباء اس قبل ہو جائیں گے کہ:
- ۱۔ غزل نے ہندوستان کی جنگ آزادی میں عوامی سطح پر لوگوں کے درمیان ہم آہنگی اور اتحاد اور اتفاق پیدا کرنے میں اہم کردار ادا کیا ہے لہذا طلباء کو ان کے حقائق سے روشناس کراتے ہوئے غزل کے تاریخی کردار سے واقف ہو جائیں گے۔
 - ۲۔ غزل کی مقبولیت کے اسباب جان سکیں گے۔
 - ۳۔ غزل کے سیاسی، سماجی پس منظر کے ساتھ اس کے عہد بہ عہد ارتقاء سے واقفیت ہو جائے گی۔

unit-1

غزل کے آغاز سے قبل کا سماجی اور سیاسی پس منظر

unit-2

اردو غزل کا باقاعدہ آغاز

unit-3

ترقی پسند عہد اور غزل کا ارتقاء

unit-4

جدید غزل

کتب برائے مطالعہ

- ۱۔ اردو غزل کا تاریخی ارتقاء، غلام عاسی رشید
- ۲۔ اکیسویں صدی میں اردو غزل، ڈاکٹر منصور حشتر
- ۳۔ اردو شاعری کا تنقیدی مطالعہ، سنیل نگار

Instructions to the Paper-Setter and Students:

All questions are compulsory to attempt.

Unit-1 There will be two questions of which one is to be opted of 7 marks.

Unit-2 There will be two questions of which one is to be opted 8 marks.

Unit-3 There will be two questions of which one is to be opted 10 marks.

Unit-4 There will be two questions of which one is to be opted 10 marks.

Q47

240/JMC/MI201

240/JMC/MI201

Paper - Videography

Name of Subject:	Videography	Maximum Marks: 50 (35+ 15)
Subject Code: MIC-2	240/JMC/MI201	

Objective:

1. To aware students about Videographic techniques.
2. To aware students about basics of Visual Language.
3. To Develop understanding about Video Camera working.

Course Outcomes:

1. Students will be able to get knowledge of videography.
2. Students will be able to come to know about visual language.
3. Students will understand about Video Camera working.

COURSE CONTENTS:

Exercises and Practices :

Parts of Video Camera, Handling of Video Camera, Shots and Angles, Filming, Editing, Video Production.

240/ZOO/MI201

ZOOLOGY: SEMESTER-2								
Course Type	Course Code	Name of the Course	Credit	Contact Hour s/ Week	Internal Assessment marks	End Term Marks	Max. Marks	Exam Duration
		Introduction to Chordates	1	1	5	20	25	3 hrs.
		Practical	1	2	5	20	25	4 hrs.
Level of the course: 100-199								
Pre-requisite for the course (if any): NA								
Course Learning Outcomes (CLO)								
6. Student will be able to describe unique characters of Protochordates								
7. Student will be able to describe unique characters of Pisces								
8. Student will be able to describe unique characters of Amphibians & Reptiles								
9. Student will be able to describe unique characters of Birds & Mammals								
10. Students will be capable of identifying the characters and classification of Chordates								
Instructions for Paper-Setter								
3. Nine questions will be set in all. All questions will carry equal marks.								
4. Question No. 1, which will be short answer type covering the entire syllabus, will be compulsory. The remaining eight questions will be set unit wise selecting two questions from each Unit I to IV. The candidate will be required to attempt question No. 1 and four more questions selecting one question from each unit.								
UNIT	TOPICS							CONTACT HOURS
I	Chordates: Salient features of chordates; Principles of classification; Origin and evolutionary tree of chordates Protochordates: Urochordata & Cephalochordates: Systematic position, distribution, ecology and affinities							4
II	Cyclostomata: General characters. Ecological significance of cyclostomes Pisces: General characters and classification up to classes with examples emphasizing their biodiversity, Scales & Fins							4
II I	Amphibia: General Characters and Classification upto class level; Parental Care in Amphibia Reptilia: General Characters and Classification upto classes, Poisonous apparatus in snakes							4
IV	Aves: General Characters and classifications upto class level. Flight/Aerial adaptation in birds. Mammals: General Characters and classification up to class; Adaptive radiations of mammals.							3
V Practical	1. Classification upto orders, habit, habitats, external characters and economic importance (if any): • Protochordata: <i>Molgula</i> , <i>Hetryllus</i> , <i>Pyrosoma</i> , <i>Doliolum</i> , <i>Olikopleura</i> , and <i>Amphioxus</i> . • Cyclostomata: <i>Myxine</i> , <i>Petromyzon</i> and <i>Ammocoetus larva</i> . • Chondrichthyes: <i>Zygaena</i> , <i>Pristis</i> , <i>Narcine</i> (electric ray), <i>Trygon</i> , <i>Rhinobatus</i> , <i>Raja</i> and <i>Chimaera</i> . • Osteichthyes: <i>Acipenser</i> , <i>Lepidosteus</i> , <i>Muraena</i> , <i>Mystus</i> , <i>Catla</i> , <i>Hippocampus</i> , <i>Syngnathus</i> , <i>Exocoetus</i> , <i>Anabas</i> , <i>Diodon</i> , <i>Ostracion</i> , <i>Tetradon</i> , <i>Echinus</i> , <i>Lophius</i> , <i>Solea</i> and <i>Polypterus</i> . Any of the Lung Fishes. • Amphibia: <i>Necturus</i> , <i>Proteus</i> , <i>Amphiuma</i> , <i>Salamandra</i> , <i>Amblystoma</i> , <i>Axolotl larva</i> , <i>Alytes</i> , <i>Bufo</i> , <i>Rana</i> . • Reptilia: <i>Hemidactylus</i> , <i>Calotes</i> , <i>Draco</i> , <i>Varanus</i> , <i>Phrynosoma</i> , <i>Chamaeleon</i> , <i>Typhlops</i> , <i>Python</i> , <i>Eryx</i> , <i>Ptyas</i> , <i>Bungarus</i> , <i>Naja</i> , <i>Hydrus</i> , <i>Viper</i> , <i>Crocodilus</i> , <i>Gavialis</i> , <i>Chelone</i> (Turtle) and <i>Testudo</i> (Tortoise). • Aves: <i>Casuaris</i> , <i>Arden</i> , <i>Anas</i> , <i>Milvus</i> , <i>Pavo</i> , <i>Eudynamis</i> , <i>Tyto</i> , <i>Alcedo</i> , <i>Halcyon</i> • Mammalia: <i>Ornithorhynchus</i> , <i>Echidna</i> , <i>Didelphis</i> , <i>Macropus</i> , <i>Loris</i> , <i>Macaque</i> , <i>Hystrix</i> , <i>Funambulus</i> , <i>Felix</i> , <i>Panthera</i> , <i>Canis</i> , <i>Herpestes</i> , <i>Capra</i> , <i>Pteropus</i> . 2. Study of the skeleton of <i>Scoliodon</i> , <i>Labeo</i> , <i>Rana</i> (Frog), <i>Varanus</i> , Pigeon or Gallus and <i>Oryctolagus</i> /rat. Palates of birds, skulls of dog & rabbit. 3. Study of the following prepared slides: Tornaria larva, T.S. <i>Amphioxus</i> (through different regions). <i>Oikopleura</i> . Histology of rat (compound tissues), different types of scales. UG POOL OF MINOR COURSES W.E.F 2024-25 4. Make permanent stained preparations of the following: <i>Salpa</i> , Spicules, and Pharynx							30
								49

24.01.25

S. B. Wome

of <i>Herdmania</i> , <i>Amphioxus</i> , Cycloid scales Field Visit to National Park, Zoological museum or Zoo.	
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Learning Resources

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| <ol style="list-style-type: none">1. R.L.Kotpal. Modern Textbook of Zoology2. E.L. Jordan and Verma. Chordate Zoology.3. Barrington, E.J.W. The Biology of Hemichordata and Protochordata. Oliver and Boyd, Edinburgh.4. Walters. H.E. and Sayles, L.D. Biology of vertebrates. MacMillan & Co., New York.5. Kent, C.G. Comparative anatomy of vertebrates.6. S.S. Lal. Practical Zoology Vertebrate. |
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Sandhya
29.01.25

S.S. Lal
29.01.25

240/BOT/MI201

Minor Course

Session:2024-25			
Part A- Introduction			
Subject	BOTANY		
Semester	2nd		
Name of the Course	Plants for Human Welfare		
Course Code	240/BOT/MI201		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	MIC-2		
Level of the course (As per Annexure-I)			
Pre-requisite for the course(if any)			
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. Students will acquire a foundational understanding of plant diversity. 2. Students will develop a conceptual grasp of plants utilized for human welfare. 3. Students will gain knowledge about the origins of certain cultivated plants. 4. Students will acquire a conceptual understanding of the utilization of fruits, nuts, and other plant components for human welfare. 5. Students will acquire the knowledge about the economic valuable plants and their products. 		
	Theory	Practical	Total
	1	1	2
Contact Hours	1	2	3
THEORY			
Max. Marks: 50 Internal Assessment Marks: 15 End Term Exam Marks: 35		Time:3 Hours	
PRACTICAL			
Max. Marks: 20 InternalAssessmentMarks:05 End Term Exam Marks: 15		Time:4 Hours	
Part B-Contents of the Course			

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Instructions for Paper-Setter


1. Nine questions will be set in all. All questions will carry equal marks.
2. Question No.1 will be short answer type covering the entire syllabus and will be compulsory. The remaining eight questions will be set unit wise selecting two questions from each unit. The candidate will be required to attempt question No. 1 and four more questions selecting one question from each unit.

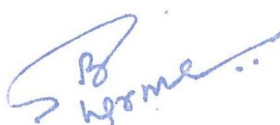
Unit	Topics	Contact Hours
I	Level of plant diversity, agrobiodiversity. Values and uses of Biodiversity.	3
II	Role of plants in relation to Human Welfare; Economic and ecological Importance of agro and social forestry. Ornamental plants of India.	4
III	Origin of Cultivated Plants Morphology and economic importance of: Food plants-Cereals (Rice, Wheat and Maize). Pulses - Gram, Arhar and Pea.	4
IV	Fruits and nuts: Important fruit crops and their commercial importance. Spices and condiments. Wood and its uses.	4
V*	<ul style="list-style-type: none">• Identification and study of some important medicinal plants.• Identification and study of some common ornamental plants.• Identification and study of some important cereals.• Identification and study of some important pulses.• Identification and study of some important spice yielding plants.• Study of different types of woods.• Study of different fruit types.	30

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Singh, V., Pande, P.C., Jain, D.K. 2018. Economic Botany, Rastogi Publications.
- Kocchar, S.L. 2016. Economic Botany: A Comprehensive Study, 5Ed, Cambridge India.
- Wickens, G.E. 2001. Economic Botany: Principles and Practices, Springer.
- Singh, V., Pande, P.C., Jain, D.K. 2018. Economic Botany, Rastogi Publications.
- Daubenmire, R.F. Plants & Environment (2nd Edn.,) John Wiley & Sons., New York 22
- Odum E.P. 2005. Fundamentals of Ecology (5th Edn.,) Saunders & Co., Philadelphia
- S. SundarRajan-2007. College Botany Vol-V, Part1: Taxonomy and Economic Botany Himalaya Publishing House.
- SusilKumar Mukharjee-2004. College Botany Vol-III. New Central Book agency, London


29.01.25



240/ECO/MI201

240/ECO/MI201

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BA. WITH MAJOR IN ECONOMICS (MIC)

SEMESTER II

Course Code	Course Title	Course ID	L	T	P	L	T	P	Credits	MARKS				
			(Hrs)			Credits				TI	TE	PI	PE	Total
One from Pool	Basics of Monetary Economics		1	1	-	1	1	-	2	15	35	-	-	50

Session 2024-2025			
Part-A Introduction			
Subject	Economics		
Semester	II		
Name of the Course	Basics of Monetary Economics		
Course Code			
Course Type: (CC/MCC/MDC/CCM/ESEC/VOC/DSE/PC/AEC/VAC)	MIC		
Course Learning Outcomes (CLO)	<p>On completion of this course, the learner will:</p> <ol style="list-style-type: none"> 1. Have knowledge of the evolution of money 2. Have understanding of the concept of money and its functions 3. Have comprehension of concepts of demand for money and supply of money and their significance in the economic system 4. Have understanding of the monetary policy and how it is used in the economic system to achieve the required objectives. 5. Have comprehension of the process of credit creation 		
Credits	Theory	Tutorial	Total
	01	1	02
Contact Hours	01	1	02
Max. Marks: 50 Internal Assessment Marks: 15 End Term Exam Marks: 35	Time: 2 Hrs		



Part-B Instructions for Paper Setters

1. Five Questions will be set in all and students will be required to attempt 3 questions.
2. Question No. 1 will be compulsory and will consist of 5 short answer type questions of 3 marks spread over the entire syllabus (3x5=15 marks).
3. For the remaining four questions, students will attempt 1 out of 2 questions from each of the two units (10 marks each)

Unit	Topics
I	Barter Exchange, Problem of Barter Exchange, Evolution of Money, Definition of Money, Functions and Significance of Money; Concept of Demand and Supply of Money. Quantity Theory of Money: Fisher's and Cambridge Equation.
I.	Monetary Policy: Meaning, Instruments, Objectives. Monetary Policy and Economic Stabilization, Monetary Policy and Economic Development. Credit Creation and Credit Control.

Part-C Learning Resources

Recommended Books/E-Resources/LMS:

- * Baye, Jansen (Latest edition) : Money Banking and Financial Markets. An Economics Approach. AITBS Publishers and Distributors, New Delhi
- * Croushere Dean (2007) : Money and Banking A(Policy Oriented Approach) Houghton Mifflin Company, New York.
- * Dennis, Geoffrey EJ (Latest edition) : Monetary Economics Longman Group Limited, London and New York
- * Eatwel, John and Taylor Lance (Latest edition) : International Capital Markets. System ni Transition, Oxford University Press, New Delhi
- * Fabozzi Frank J, ModiglianiFranco: Institutions and Instruments (Third Edition) Prentice Hal of India Pvt. Ltd., New Delhi
- * Fabozzi Frank J Modigliani Franco, : Foundation of Financial Markets and Jones Frank J.,
- * Howells, Peter and Barin Keith (2002) : The Economics of Money, Banking and Finance - A European Text Prentice Hall, Pearson Education Ltd.
- * Khan, MY (Latest edition) : Indian Financial System Tata McGraw Hill, New Delhi
- * Khanna, Perminder (Latest edition) : Advanced Study ni Money and Banking : Theory and Policy, Relevance ni the Indian Economy Atlantic Publishers, New Delhi
- * Economic Survey (Govt. of India): (Various Issues)

Scha

240/BCA/MI201

240/BCA/MI201

Course code	SEC-2			
Category	Skill Enhancement Course			
Course title	Basic Statistical Tools			
Course ID				
Scheme and Credits	L	T	P	Credits
	3	-	-	3
Theory Internal	25			
Theory External	50			
Total	75			
Duration of Exam	3 Hrs			

Note: The examiner will set nine questions in total. Question one will have seven parts from all units and the marks of first question will be of 20% of total marks of Question Paper and the remaining eight questions to be set by taking two questions from each attempt FIVE questions in all, selecting one question from every unit apart from the Question Number 1.

Course Outcome:

CO1: Students will demonstrate a thorough understanding of primary and secondary data, classification of data, and various measures of central tendency (mean, median, mode, geometric mean, harmonic mean) and dispersion (range, quartile deviation, mean deviation, standard deviation, variance).

CO2: Students will achieve a deep comprehension of basic and advanced probability concepts, including the definitions of probability (mathematical, statistical, axiomatic), properties of events (mutually exclusive, exhaustive, independent), and conditional probability.

CO3: Students will acquire the ability to define and analyze random variables (discrete and continuous), including functions of random variables and their probability distributions (mass function, density function).

CO4: Students will validate proficiency in calculating mathematical expectation of functions of random variables, raw and central moments, and covariance.

Unit-I

Descriptive Statistics: Concept of primary and secondary data, Classification of data, Measures of central tendency (Arithmetic mean, median, mode, geometric mean and harmonic mean) with simple applications, Absolute and relative measures of dispersion (range, quartile deviation, mean deviation, standard deviation and variance) with simple applications. Importance of moments.

Unit-II

Probability: Basic concepts of probability, deterministic and random experiments, trial, outcome, sample space, event, operations of events, mutually exclusive and exhaustive events, Mathematical, Statistical and Axiomatic definitions of probability, their merits and demerits. Properties of probability based on axiomatic definition. Conditional probability and independence of events, Addition and multiplication theorems for 'n' events, Bayes' theorem.

Unit-III

Random Variables: Definition of random variable, discrete and continuous random variables, functions of random variables, probability mass function and probability density function with illustrations. Distribution function and its properties, Transformation of onedimensional random variable (simple 1-1 functions only).

Unit-IV

Mathematical Expectation: Mathematical expectation of a function of a random variable, Raw and central moments, covariance using mathematical expectation with examples, Addition and multiplication theorems of expectation. Chebyshev's inequalities and applications. Definitions of moment generating function (m.g.f), characteristic function (c.f).

Text and Reference Books:

1. "Fundamentals of Mathematical Statistics" by S.C. Gupta and V.K. Kapoor
2. "An Introduction to Probability Theory and Its Applications" by William Feller
3. "Probability and Random Processes" by Geoffrey Grimmett and David Stirzaker
4. "Probability and Statistics with Applications: A Problem Solving Text" by Leonard A. Asimow and Mark M. Maxwell
5. "Statistics for Business and Economics" by Paul Newbold, William L. Carlson, and Betty Thorne

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COURSE DETAILS:

Course Title	Bioinorganic Chemistry	
Semester	Semester-2	
Course Code	MIC-2	
Course ID	240/CHE/MIG01	
Total Credits	02 (Lecture: 02, Tutorial: 0, Practical: 0)	
Total Marks	50	
Marks Distribution	Theory External: 35 Practical External: --	Theory Internal: 15 Practical Internal: --

COURSE CURRICULUM DELIVERY WEEKLY DISTRIBUTION:

Total Hours per Week: 2	
Lectures (L) Hours per Week: 2	Practical (P) Hours per Week: --

COURSE OBJECTIVES:

- To understand the definition, scope, and historical development of bioinorganic chemistry.
- To analyze the structure and function of various important proteins
- To comprehend the role and functioning of the sodium-potassium pump in biological systems.
- To investigate the applications of metals in medicine, including metal-based drugs and diagnostic agents.

COURSE OUTCOMES:

By the end of the course, students will have a comprehensive understanding of:

- The fundamental principles of bioinorganic chemistry.
- The roles of metal ions in biological systems.
- The structure and function of key bioinorganic molecules.
- The applications of bioinorganic chemistry in medicine.

DETAILED CONTENT OF COURSE:

Theory Syllabus: Total Contact Hours: 30

Unit	Topics	Contact Hours
I	Fundamentals of Bioinorganic Chemistry Overview and History: Definition and scope of bioinorganic chemistry, Historical development and key discoveries. Biological Roles of Metal Ions: Essential and trace metal ions in biology; Coordination chemistry of metal ions in biological systems	8

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II	Oxygen Transport and Storage Proteins Hemoglobin and Myoglobin: Structure and function of hemoglobin and myoglobin, Oxygen binding and transport mechanisms; Other Oxygen Carriers: Hemocyanin and hemerythrin, Comparative analysis of oxygen carriers	8
III	Transport and Storage Proteins Ferritin, Transferrin and Ceruloplasmin-Structure and Functioning; Cytochrome- Structure and Functioning, Role and Functioning of Sodium Potassium Pump	7
IV	Medicinal Bioinorganic Chemistry and Applications Metals in Medicine: Metal-based drugs (cisplatin, ruthenium complexes), Diagnostic agents (MRI contrast agents, radiopharmaceuticals); Toxicity and Chelation Therapy: Toxic effects of metal ions, Chelation therapy for metal poisoning.	7

COURSE EVALUATION METHODS

Theory Exams: Total Marks: 50 (External: 35 + Internal: 15)

Internal Assessment: 15 Marks	<ul style="list-style-type: none"> • Class Participation: NIL • Seminar/Presentation/ Assignment: 05 Marks • Mid Term Exam: 10 Marks
External Assessment: 35 Marks (03 Hours)	<ul style="list-style-type: none"> • End Term Exam: 35 Marks

Instruction for End Term Theory Exam:

The Examiner is requested to set nine questions in total, selecting two questions from each section. Question-1 will be a compulsory question consisting short answer type questions covering all the units of the syllabus. All questions should carry equal marks. Log table and non-programmable calculator is allowed.

RECOMMENDED BOOKS

1. Purcell, K.F & Kotz, J.C. Inorganic Chemistry W.B. Saunders Co, 1977.
2. Huheey, J.E., Inorganic Chemistry, Prentice Hall, 1993.
3. Lippard, S.J. & Berg, J.M. Principles of Bioinorganic Chemistry Panima Publishing Company 1994.
4. Cotton, F.A. & Wilkinson, G, Advanced Inorganic Chemistry. Wiley-VCH, 1999
5. Basolo, F, and Pearson, R.C., Mechanisms of Inorganic Chemistry, John Wiley & Sons, NY, 1967.
6. Greenwood, N.N. & Earnshaw A., Chemistry of the Elements, Butterworth-Heinemann, 1997.
7. B.R. Puri, L.R. Sharma, K.C. Kalia, Principles of Inorganic Chemistry, Vishal Publishing CO.

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242/JMC/MI 201

MA Integrated (JMC)
SEMESTER - 2

Name of Course: Basics of Camera		Maximum Theory marks: 50 (15+35)
Subject Code:	Course ID:	Maximum Practical marks: 50 (15+35)

Instructions for paper setter: This question paper shall be divided in two sections. Examiner is requested to set section A as compulsory question containing 7 marks and from the entire syllabus (can be either objective or subjective). Section B will be in choice from two of the questions from each unit. The students will be required to attempt one question from each unit. All questions from each unit will carry equal marks.

Note: The Practical will be conducted on the basis of theory.

Course objectives: Operate a digital video camera. Ability to apply camera techniques in several situations. Create treatments and storyboards to shoot basic video sequences. Identify story elements as they script, produce, light, direct, and edit a short documentary movie. Apply concepts of photographic composition and creative expression to pictures. A.1 understanding of the software editing process Planning ahead and creating an idea

Course Outcomes:

1. Students will understand the basic components and functioning of various types of cameras.
2. They will be able to operate a camera effectively, utilizing appropriate shooting techniques and camera angles.
3. Students will be able to develop basic photography skills and techniques
4. They will gain knowledge of advanced techniques, including video formats, composition, storyboarding, and post-production basics.

COURSE CONTENTS:

Unit 1: Introduction to Camera
1.1 Basics of Camera
1.2 Components of Camera
1.3 Functioning of Camera
1.4 Different Types of Cameras
Unit 2: Techniques of Camera
2.1 Camera Control and Shooting Techniques
2.2 Camera Angles, Shots, and Movements
2.3 Importance of Lighting
2.4 Lighting Techniques and Equipment
Unit 3: Developing Photography Skills
3.1 Mastering Exposure
3.2 Mastering Focus and Depth of Field
3.3 Day and Night Time Photography
3.4 Shooting in Different Environments
Unit 4: Advance Techniques and Application
4.1 Understanding Video Formats and Resolutions
4.2 Basics of Composition and Framing

4.3 Storyboarding and Planning a Shoot
4.4 Post-Production Basics: Editing and Software Overview

Suggested Readings:

1. Understanding Exposure: How to Shoot Great Photographs with Any Camera by Bryan Peterson
2. Digital Photography: A Basic Manual by Henry Horenstein
3. The Complete Guide to Digital Photography by Michael Freeman
4. Adobe Premiere Pro Classroom in a Book (2024 release)" by the Adobe Creative Team

MA Development Studies (Integrated)
SEMESTER – 2

Name of Subject: Writing for Development News											
Subject Code: MIC-02						Course ID: <i>242/JMC/MI202</i>					
Credits				Hours			Marks				
Total Credits	L	T	P	L	T	P	TI	TE	PI	PE	Total Marks
4	2	-	4	2	-	2	15	35	15	35	100

Instructions for paper setter: Examiner is requested to set one compulsory and eight other questions, two from each unit. The compulsory question should be of 7 marks and should cover entire syllabus. Student should attempt four other questions i.e. one from each unit.

Objective: This course is designed to provide students with a strong foundation in the principles and techniques of writing news stories with a focus on development issues. Students will learn how to structure and write different types of news stories, gather reliable sources, and communicate effectively through images and multimedia formats. By the end of this course, students will understand the process of news writing, including the ethical considerations necessary when reporting on development topics. The goal is to enable students to produce clear, accurate, and engaging content across various media platforms.

Course Outcomes:

By the end of the course, students will be able to:

1. Understand the elements and structure of news and apply them in writing development news.
2. Use news values and gathering techniques to produce effective news stories.
3. Write captions, cutlines, and present numerical data to complement images in development reporting.
4. Craft development news stories tailored for different media formats, including print, broadcast, and digital platforms.

Course Content:

Unit 1: Basics of Development News Writing

- 1.1 News: Definition and Element
- 1.2 News Values and Value Matrix
- 1.3 Structure of News: Inverted Pyramid, Hourglass and Diamond News
- 1.4 Types of News Stories (Hard vs Soft)

Unit 2: Process of News

- 2.1 Principal of News: 5W and 1H
- 2.2 News Sources and News Gathering
- 2.3 Headline, Lead and Summaries
- 2.4 Typographical Style and Stylebooks (Comparison of Prominent Newspapers)

Unit 3: Writing for Images

- 3.1 Steps of Caption Writing and Types of Captions

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- 3.2 Outline Writing
- 3.3 Numerical Data Presentation of News
- 3.4 Writing for Audio Image Slide Shows

Unit 4: Writing for Development Issues

- 4.1 Understanding Development News and its Importance
- 4.2 Key Development Topics in News Writing
- 4.3 Structure of Development News (Headline, Lead, Nut Graph, Body Quotes)
- 4.4 Writing for Different Mediums (Print, Broadcasting and Digital)

Suggested Readings:

1. News Writing by George A. Hough
2. Creative Writing: A Beginner's Manual by Neira Anjana Dev, Anuradha Marwah, and Swati Pal
3. News Reporting and Editing by Jan R. Hakemulder, Ray Ac De
4. The News Writers Handbook by M. L. Stein and Susan F. Peterno
5. Basic Source Material for News Writing by M. K. Joseph

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MIC-2:- Fundamental of Western Philosophy**Credits:- 02****Maximum Marks:-50****Internal Assessment Marks:-15****End Term Exam Marks:-35****Time:-2hrs.****Course Learning Outcomes(CLO):**

After completing this course, the learner will be able to:

- 202.1. Learn about the nature and definition of Western Philosophy.
- 202.2. Learn about the Branches Of Western Philosophy.
- 202.3. Learn about the basic concepts Of western Philosophy
- 202.4. Learn about the methods of Western Philosophy.

Instructions for Paper-Setter

The paper-setter is requested to set Nine questions in all i.e., One Compulsory Objective Type Question (7x1) without any choice, equitably distributed over the whole syllabi and Two Questions from Each Unit equitably spread over the concerned unit. The examinees will have to attempt Five questions in all, selecting one question from each unit. All questions carry equal marks.

Unit I

Introduction to Philosophy;
Branches of Philosophy (Metaphysics, Epistemology and Axiology),
Features Of Philosophy

Unit II

Socrates
Method; Plato's theory Of
Knowledge ;
Plato's theory of Ideas

Unit III

Aristotle : Four Causes
Descartes : Method Of Doubt
Spinoza : Substance


Unit IV

Leibnitz: Meaning , Nature and Types Of Monads ; Characteristics Of Monads
Locke : Refutation Of Innate Ideas ; Empiricism

Recommended Books/e-resources/LMS:

- B.N.Singh: Paschatya Darshan ki Ruprekha, Published by Students Friends And Company ,Varansi
Daya Krishna: Paschatya Darshan ka Itihas, Bhag I&II. Published by Rajasthan Hindi Granth Academy ,Jaipur 1987
Jagdish Sahay Srivastava: Paschatya Darshan ki Darshnik Parvitiyan, Published by Abhivyakti Prakashan ,January ,2017
Haridya Narayana Mishra: Paschatya Darshan ka Itihas avm Samsyayen,
W.T.Stace: A Critical History of Greek Philosophy, Khoshla Publishing House,Delhi
W.K.Wright: A History of Modern Philosophy MacMillan Company ,New York ,1947

Yacub Mashih: Paschtya Darshan ka Smikshatmak Itihas, Motilal Banarsi Dass, Delhi, 1994
Y. Mashih : Western Philosophy
, Motilal Banarsi Dass, Delhi


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Semester II**Front Office Operations ()**

L	T	P	L	T	P	Credits	MARKS				
(Hrs)			Credits				TI	TE	PI	PE	Total
-	-	4	-	-	2	2	-	-	15	35	50

Course Description:

This course provides an in-depth understanding of the roles and responsibilities of a hotel front office, which is the central hub for guest interaction and service delivery. Students will learn about the operational challenges, management practices, and customer service strategies essential for the successful operation of hotel front desks.

Course Objectives:

The objective of this course is to

- CO1 To Understand Front Office Operations and its importance in hospitality.
- CO2 To Develop the ability to collaborate effectively with other departments to enhance teamwork and operational efficiency.
- CO3 To Apply innovative strategies for enhancing guest service excellence in front office operations.
- CO4 To Comprehend the impact of technology in front office operations.

Units (Practical):**Unit I: Introduction to Front Office**

- Front Office: Sections and Functions
- Roles and Responsibilities
- Organizational Chart
- Introduction to Guest Cycle

Unit II: Reservations

- Type, Sources, and Modes of Reservation
- Meal Plans, Types of Room Rates
- Understanding Cancellation, Amendment and Overbooking
- Reservation Phraseology and Telephone Etiquette
- Rate Plan & Package Design
- Technology in Front Office

Unit III: The Pre-arrival and Check-in Process

- Pre-Arrival Process
- Registration: Importance and Records
- Check-in Process, Managing Room Positions, Upselling, and Upgrading
- Primary Positions & Duties of Bell Desk and Concierge
- Left Luggage and Room Change Procedure

Unit IV: Check Out Process and Service Recovery

- Check Out Process
- Modes of Settlement
- Process of Early Departure and Late Checkout
- Service Recovery and Feedback Mechanisms

Name of Subject: CORPORATE ACCOUNTING	Maximum Theory Marks: 100 (70+ 30)
Course Code:242MIDSC2	Time Allowed: 3 Hrs
Credits 4	Discipline Specific Course

Instructions for Paper Setter: The question paper shall be divided into two sections. **Section 'A'** shall comprise seven short answer type questions from the whole of the syllabus carrying two marks each, which shall be compulsory. The answer to each question should not exceed 100 words normally. **Section 'B'** shall comprise 8 questions (2 questions from each unit). **All the questions need to be mapped with Course Outcomes (COs) and need to be specified in the question paper against each question.** The students will be required to attempt four questions by selecting one question from each unit. All questions will carry equal marks.

Course Outcomes: - After completing the course students will be able to:

CO1: Understand the basic concepts about company, shares and debentures;

CO2: Learn how to record issue and redemption of shares and debentures;

CO3: Apply valuation methods to determine the value of goodwill and shares, demonstrating the ability to analyze and assess their significance and applications in business valuation.

CO4: Analyze and interpret statutory provisions outlined in Schedule VI of the Companies Act regarding the preparation of a company's final accounts.

COURSE CONTENTS:

Unit 1: Accounting for share capital transaction: Issue of share, forfeiture and surrender of shares, redemption of preference shares, buy-back of shares	10 Lectures
Unit 2: Debentures: Issue of debentures, methods of redemption of debentures; underwriting of shares and debentures;	10 Lectures
Unit 3: Valuation of goodwill: Meaning, uses and methods, Valuation of Shares: Meaning, uses and methods	10 Lectures
Unit 4: Statutory provision regarding preparation of company's final accounts, preparation of profit and loss account and balance sheet of company as per the requirement of Schedule VI of the companies act; acquisition of business and profit prior to incorporation Merger and Acquisition: Accounting Procedure and Valuation	10 Lectures

SUGGESTED READINGS:

1. Sehgal, Ashok & Sehgal, Deepak, Advanced Accounting Vol. II, Taxmann, New Delhi
2. Mukherjee & Hanif, Corporate Accounting, Tata McGraw Hill, New Delhi
3. Arulanandam & Raman, Corporate Accounting, Himalaya Publishing House, New Delhi
4. Monga, J.R., Corporate Accounting, Margin Paper Bank, New Delhi
5. Maheshwari, S.N., Advanced Accounting, Vikas Publications



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