

NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Course Teaching Plan

Annexure IV-H





NAAC A** Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085 3, Institutional Area, Sector-5, Rohini, Delhi-110085

LESSON PLAN

Course Code: MCA- 106

Course Name: Python Programming

LEARNING OBJECTIVES:

In this course, the learners will be able to develop expertise related to:

- 1. Master the fundamentals of writing Python scripts
- 2. Understand decision-making and functions in python
- 3. Interpret Object-oriented programming features in python
- 4. Gain knowledge of data structures in python
- 5. Explore GUI programming and database operations in python

PRE-REQUISITES:

1. Problem Solving Skills

COURSE OUTCOMES (COs):

After completion of this course, the learners will be able to

CO #	Detailed Statement of the CO	BT Level	Mapping to PO#
CO1	Gain knowledge of basic programming with python.	BTL2	PO1,PO2,PO7
CO2	Familiarize with python string handling methods and user defined functions.	BTL2	PO1,PO2,PO4,PO7
CO3	Apply and use the concepts of data structures like lists, tuples, sets and dictionaries.	BTL3	PO1,PO2,PO3,PO4,PO7, PO11
CO4	Inspect file handling and object- oriented programming techniques.	BTL4	PO1,PO2,PO3,PO4,PO5, PO7, PO11
CO5	Evaluate and visualize the data using python libraries.	BTL5	PO2,PO3,PO4,PO5,PO7, PO11
CO6	Develop python applications with database connectivity operations.	BTL6	PO1,PO2,PO3,PO4,PO5,PO6,PO7, PO8,PO9,PO11, PO12

UNIT-I

No. of Hours: 10 Chapter/Book Reference: TB1 [Chapter 5], TB3 [Chapters 1, 2, 3, 4, 5, 6, 15]

Objective: To learn basic programming constructs in Python.

Expected Outcome: Demonstrate knowledge of basic programming constructs in Python.

Learn usage of functions and modules.

Conceptual Introduction: History, Features and Future of Python, Installation, Interactive Shell, Program Structure, Identifiers, Keywords, Escape Sequences, Data-Types, Variables, Assignments, Immutable Variables, Operators and Operands, Precedence of Operators, Type-Conversion Functions, Short-circuit vs. Lazy Evaluation, Input and Output Functions, Comments, Command-Line arguments.





NAAC A** Grade & NBA Accredited MCA Program

3, Institutional Area, Sector-5, Rohini, Delhi-110085

Control Flow: Conditional Statements: if, if-else, if-elif-else, Nested Conditionals, Loops: for, while, break, and continue statements.

Functions: Defining, Calling and Types of Functions, Arguments and Return Values, Formal vs. Actual Arguments, Scope and Lifetime, Keyword Arguments, Default Arguments, Decorators, Iterators and Generators, Recursion.

Modules: Importing Modules, Math and Random Module, Packages and Composition.

Mapping: CO1, CO2

BTL1, BTL2

UNIT-II

No. of Hours: 11

Chapter/Book Reference: TB2 [Chapters 5, 18], TB3[Chapters 3, 10, 11, 13, 14]

Objective: Learning string handling methods, data structures like lists, tuples, sets and dictionaries. Understanding concept of file handling.

Expected Outcome: Illustrate string handling functions. Apply data structure primitives. Inspect file handling.

Syllabus:

String Manipulations: Basic functions of Strings, Subscript Operator, Indexing, Slicing and Immutable Strings.

Data Structures: Lists, Tuples, and Dictionaries, Basic List Operations, List Slicing, List Methods, Cloning Lists, Mutability, Searching and Sorting Lists, Tuples: Tuple Assignment, Tuple as Return Value, Dictionary Literals, Adding and Removing Items, Accessing and Replacing Values, Traversing Dictionaries, Sorting Dictionaries, Dictionary Operations, Sets Operations.

File Handling: Text Files-Writing and Reading Operations, Creating and Reading a Formatted File, Manipulating Files and Directories, Closing Files.

Mapping: CO2, CO3, CO4

BTL2, BTL3, BTL4

UNIT-III

No. of Hours: 12

Chapter/Book Reference: TB3 [Chapters 7,

8, 12,13]

Objective: To learn object oriented programming concepts, threads implementation and exception handling.

Expected Outcome: Understanding concepts of object oriented programming and threads along with exception handling.

Syllabus:





NAAC A++ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Object Oriented Programming: Classes, Objects, Attributes and Methods, Access Specifiers, Constructors, Static Methods, Data Hiding, Inheritance, Polymorphism, Operator Overloading, Abstract Classes.

Threads: Multi-Threading, Life-Cycle of a Thread, Synchronization using Locks and Semaphores.

Exception Handling: Exception Class Hierarchy, Except clause, Try, Finally clause, User-Defined Exceptions, Assertions.

Mapping: CO4 BTL 3

UNIT-IV

No. of Hours: 12

Chapter/Book Reference: TB1 [Chapters 11, 12], TB3 [Chapters 9, 16-23]

Objective: Learn advanced python concepts with map, reduce and filter functions. Understanding numpy and pandas library. Performing data visualization using different types of charts. Performing GUI programming and database connectivity.

Expected Outcome: Evaluate and visualize the data using appropriate python libraries. Develop python applications with database connectivity operations.

Syllabus:

Advanced Python: Lambda and List Comprehensions, Map, Reduce and Filter Functions NumPy Library: Introduction to NumPy, Creation of One-Dimensional Arrays, Reshaping of an Array, Element-wise Operations, Aggregate Operations, Array Indexing, Array Slicing, Insert Row/Columns, Append Row/Columns, Array Manipulation Operations, Multi-Dimensional Arrays.

Pandas Library: Data Preparation and Pre-Processing, Series, Querying a Series, Data-Frames, DataFrame Indexing and Loading, Querying a Data Frame, Indexing Data Frames, Missing Values.

Data Visualisation: Graphs in Python: Bar charts, Pie-charts, Scatter plots, Multiple plots, Subplots, Legends, Changing figure Size, Styling plots using Matplotlib Library.

GUI Programming: Creating User-interface, GUI Widgets with Tkinter, Creating Layouts, Check Box, Radio Buttons, List Box, Menus, Menus Options, Dialog Boxes

Database Access: Database Connectivity Operations: Create, Insert, Select, Delete, Drop, Update, Joins.

Mapping: CO5,CO6 BTL5, BTL6

TEXT BOOKS:

TB1. Budd T A, "Exploring Python", McGraw-Hill Education, 1st Edition, 2011.

TB2. Mark Lutz, "Learning Python", O'Reilly, 4th Edition, 2013.





NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

TB3. Y. Daniel Liang, "Introduction to Programming Using Python", Pearson, 1st Edition, 2013.

REFERENCE BOOKS:

RB1. Kenneth A. Lambert, "The Fundamentals of Python: First Programs", Cengage Learning, 1st Edition, 2011.

RB2. Allen Downey, "Think Python: How to Think Like a Computer Scientist", O'Reilly, 2nd Edition, 2015.

RB3. Reema Thareja, "Python Programming using Problem Solving Approach", Oxford University Press, 1st Edition, 2017.

RB4. Joel Grus, "Data Science from Scratch", O'Reilly, 2nd Edition, 2019. RB5. Tony Gaddis, "Starting out with Python", Pearson, 3rd Edition, 2014





NAAC A** Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Lecture Plan for MCA (Second Semester)

Course Code: MCA-106	
	LTC
Course Name: Python Programming	3 1 4
LEARNING OBJECTIVES:	
In this course, the learners will be able to develop expertise relate	ed to:

- 1. Master the fundamentals of writing Python scripts
- 2. Understand decision-making and functions in python
- 3. Interpret Object-oriented programming features in python
- 4. Gain knowledge of data structures in python
- 5. Explore GUI programming and database operations in python

LECTURE PLAN

S.No	Topics	No. of Sessions(1hr)	CO Mapping	BTL
1.	UNIT-I: (CO1) Conceptual Introduction: History, Features and Future of Python, Installation, Interactive Shell	1	CO1	BTL1
2.	Program Structure, Identifiers, Keywords, Escape Sequences, Data-Types, Variables, Assignments, Immutable Variables,		CO1	BTL1
3.	Operators and Operands, Precedence of Operators, Type-Conversion Functions, Short-circuit vs. Lazy Evaluation	1	CO1	BTL2
4.	Input and Output Functions, Comments, Command-Line arguments.	1	CO1	BTL2
5.	Control Flow: Conditional Statements: if, if- else, if-elif-else, Nested Conditionals	1	CO1	BTL2
6	Loops: for, while, break, and continue statements.	1	CO1	BTL2
7.	(CO2)	1	CO2	BTL2





Jagan Institute of Management Studies Jims NAAC A** Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Robini, Delhi-110085

	3, Institutional Area, Sector-5, Rol	nini, Delhi-110085		
	Functions: Defining, Calling and Types of Functions	f		
8.	Arguments and Return Values, Formal vs Actual Arguments	1	CO2	BTL2
9.	Scope and Lifetime, Keyword Arguments, Default Arguments, Decorators, Iterators and Generators, Recursion.	1	CO2	BTL2
10.	Modules: Importing Modules, Math and Random Module, Packages and Composition. CO2		BTL2	
11.	UNIT – II (CO2) String Manipulations: Basic functions of Strings, Subscript Operator	1	CO2	BTL2
12.	Indexing, Slicing and Immutable Strings.	1	CO2	BTL2
13.	Data Structures: (CO3) Lists, Tuples, and Dictionaries	1	CO3	BTL3
14.	Basic List Operations, List Slicing, List Methods, Cloning Lists.	1	CO3	BTL3
15.	Mutability, Searching and Sorting Lists	1	CO3	BTL3
16.	Tuples: Tuple Assignment, Tuple as Return Value, Dictionary Literals, Adding and Removing Items, Accessing and Replacing Values	1	CO3	BTL3
17.	Traversing Dictionaries, Sorting Dictionaries, Dictionary Operations	1	CO3	BTL3
8.	Sets Operations.	1	CO3	BTL3
.9.	File Handling: (CO4) Text Files-Writing and Reading Operations	1	CO4	BTL4
0.	Creating and Reading a Formatted File, Manipulating	1	CO4	BTL4
1.	Files and Directories, Closing Files.	1	CO4	BTL4
2.	UNIT-III (CO4) Object Oriented Programming: Classes, Objects	1	CO4	BTL4





Jagan Institute of Management Studies Jims NAAC A** Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

3, Institutional Area, Sector-5, Rohini,	Delhi-11008	5	
	1	CO4	BTL4
	1	CO4	BTL4
Data Hiding, Inheritance	1	CO4	BTL4
Polymorphism	1	CO4	BTL4
Operator Overloading, Abstract Classes.	1	CO4	BTL4
Threads: Multi-Threading	1	COA	BTL4
Life-Cycle of a Thread			BTL4
Synchronization using Locks and Semaphores.	1	CO4	BTL4
Exception Handling: Exception Class Hierarchy	1	CO4	BTL4
Except clause, Try, Finally clause	1	CO4	BTL4
User-Defined Exceptions, Assertions.	1	CO4	BTL4
4. Advanced Python: Lambda and List Comprehensions		CO5	BTL5
Map, Reduce and Filter Functions	1	CO5	BTL5
NumPy Library: Introduction to NumPy, Creation of One-Dimensional Arrays	1	CO5	BTL5
Reshaping of an Array, Element-wise Operations,	1	CO5	BTL5
Aggregate Operations, Array Indexing, Array Slicing,	1	CO5	BTL5
Insert Row/Columns, Append Row/Columns	1	CO5	BTL5
Array Manipulation Operations, Multi- Dimensional Arrays.	1	CO5	BTL5
	Operator Overloading, Abstract Classes. Threads: Multi-Threading Life-Cycle of a Thread Synchronization using Locks and Semaphores. Exception Handling: Exception Class Hierarchy Except clause, Try, Finally clause User-Defined Exceptions, Assertions. UNIT -IV (CO5) Advanced Python: Lambda and List Comprehensions Map, Reduce and Filter Functions NumPy Library: Introduction to NumPy, Creation of One-Dimensional Arrays Reshaping of an Array, Element-wise Operations, Aggregate Operations, Array Indexing, Array Slicing, Insert Row/Columns, Append Row/Columns Array Manipulation Operations, Multi-	Constructors, Static Methods Data Hiding, Inheritance Polymorphism Operator Overloading, Abstract Classes. 1 Threads: Multi-Threading Life-Cycle of a Thread Synchronization using Locks and Semaphores. Exception Handling: Exception Class Hierarchy Except clause, Try, Finally clause 1 User-Defined Exceptions, Assertions. 1 UNIT –IV (COS) Advanced Python: Lambda and List Comprehensions Map, Reduce and Filter Functions 1 NumPy Library: Introduction to NumPy, Creation of One-Dimensional Arrays Reshaping of an Array, Element-wise Operations, Aggregate Operations, Array Indexing, Array Slicing, Insert Row/Columns, Append Row/Columns 1 Array Manipulation Operations, Multi-	Constructors, Static Methods Data Hiding, Inheritance Polymorphism 1 CO4 Polymorphism 1 CO4 Operator Overloading, Abstract Classes. 1 CO4 Threads: Multi-Threading 1 CO4 Life-Cycle of a Thread Synchronization using Locks and Semaphores. Exception Handling: Exception Class Hierarchy Except clause, Try, Finally clause 1 CO4 User-Defined Exceptions, Assertions. 1 CO4 UNIT -IV (CO5) Advanced Python: Lambda and List Comprehensions Map, Reduce and Filter Functions 1 CO5 NumPy Library: Introduction to NumPy, Creation of One-Dimensional Arrays Reshaping of an Array, Element-wise Operations, Array Indexing, Array Slicing, Insert Row/Columns, Append Row/Columns Agree Manipulation Operations, Multi-Dimensional Arrays.





NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

	-, marting rives, Sector-3, Roni	ni, Deini-110085		
41.	Array Manipulation Operations, Multi- Dimensional Arrays.	1	CO5	BTL5
42.	DataFrame Indexing and Loading, Querying a Data Frame, Indexing Data Frames, Missing Values.	1	CO5	BTL5
43.	Data Visualisation: (CO5) Graphs in Python: Bar charts, Pie-charts, Scatter plots, Multiple plots, Subplots, Legends, Changing figure Size, Styling plots using Matplotlib Library.	1	CO5	BTL5
44.	GUI Programming: Creating User-interface, GUI Widgets with Tkinter, Creating Layouts, Check Box, Radio Buttons, List Box, Menus, Menus Options, Dialog Boxes	1	CO5	BTL5
45.	Database Access: (CO6) Database Connectivity Operations: Create, Insert, Select, Delete, Drop, Update, Joins.	1	CO6	BTL6
	TOTAL SESSIONS(1 hr)	45		
		The second secon		





NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Lesson Plan

BCA Sem II: Data Structures using C

Class No.	Unit	Topic
7		Assignment 1 to be announced
1		Introduction to Data Structures, Impacts
2		Introduction to Data Structures, Importance of DS, Algorithm Writing, Data Structures, Classification and Operations of Data Structures.
3		Introduction to Algorithms, Attribute B.
		Introduction to Algorithms- Attributes, Design Techniques, Time Space Trade Off
4		Arrays: Single Dimension
5		Two-Dimension and Introduction to Multi Dimensions
6		Memory Representation, Address Calculation
27		Sparse Matrices- Types, Representation.
8	1 _	Linear and Binary Search
9	Unit	Sorting: Selection Sort, Bubble Sort
10	5	Insertion Sort, Merge Sort
11		Elementary Comparison of Soarching and Control
12		Elementary Comparison of Searching and Sorting Algorithms Hashing: Hash Table.
13		Hash Functions and Collision Resolution
14		Class Test and Assignment Submission
		Tutorial 1
		Tutorial 2
		A CONTRACT OF THE CONTRACT OF
		Class Test and Group Project 1 will be announced Assignment 2 to be announced
15		Dynamic memory allocation
16	- K	Comparison of Statio and D
17		Comparison of Static and Dynamic memory Introduction to linked lists
.8		Creation of Linked List
.9		
0.0		Basic operations on Linked List-Traversal
1		Basic operations on Linked List-Insertion and Deletion
2	Ē	Basic operations on Linked List- reversing and merging of lists Two way lists
3	Unit II	Revisiting Two way List
4	_	Use of headers and circular list
		Tutorial 3
		Tutorial 4
		Class Test and Group Project 2 will be announced
5	UNIT	Assignment 3 to be announced
_	3	Stack concept and theory, Stack on array
7		Primitive operations on Stack and multi stack Stack using Linked List
3		
9		Polish Notations; Evaluation of postfix expression
		Conversion from infix to postfix



Jagan Institute of Management Studies juns NAAC A** Grade & NBA Accredited MCA Program

20		3, Institutional Area, Sector-5, Rohini, Delhi-110085
30		Queue - Introduction and primitive operations on queues:
31	_	Queue using a Linked List
32		D-queues
33		Circular Queue
34		Priority queues
35		Class Test/ Assignment Submission
		Tutorial 5
		Tutorial 6
		Assignment 4 to be announced
36	Unit	Graph Concept
37	4	Graph representation- Matrix representation
38		Graph representation using linked list
39		Introduction to Trees: Tree Terminology
40		Binary Tree and Binary Search Tree
41		BST basic operations: creation of BST insertion deletion
42		BST basic operations: Recursive Traversal of tree
43		BST basic operations: insertion and deletion
44		AVL Tree
45		Heap Tree
46		m-way tree and B-tree
		Class Test and Group Project 2 allocation
		Revision / Tutorial
		Revision / Tutorial





NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Lesson Plan

BCA 106T: Data Structures and Algorithms

<u>Unit</u>	Topics	<u>Text /</u> Ref Book	<u>Objective</u>	Target	Outcome
1	Linear Data Structures- Static: Introduction to Algorithms- Attributes, Design Techniques, Time Space Trade Off, Data Structures, Classification and Operations of Data Structures. Arrays: Single Dimension, Two-Dimension and Introduction to Multi Dimensions, Memory Representation, Address Calculation, Sparse Matrices- Types, Representation. Searching and Sorting: Linear and Binary Search, Selection Sort, Bubble	Text / Ref Book TB1 [Chapters 1, 4, 9], TB2 [Chapters 1, 6, 7], TB3 [Chapters 1, 2,6,10]	To introduce the	CO 1, CO 3	Outcome Students are well aware or data structures and algorithms and their importance ir real life projects/
	Sort, Insertion Sort, Merge Sort, Elementary Comparison of Searching and Sorting Algorithms. Hashing: Hash Table, Hash Functions, and Collision Resolution.				
	Linear Data Structures- Dynamic Introduction: Dynamic Memory Allocation, Dynamic Memory versus Static Memory Allocation. Linked List Types: Singly Linked List, Doubly Linked List, Header Linked List, Circular Linked List. Dperations: Creation, Insertion, Deletion, Modification, Searching, Forting, Reversing, and	3]	To introduce dynamic memory allocation, concept of linked list and its types with operations.	CO2	Students are aware of dynamic memory allocation and practical usage of static and dynamic representation of data

Rohini, Sector-5, Delhi-85



Jagan Institute of Management Studies Jims NAAC A** Grade & NBA Accredited MCA Program

	3, Institution	onal Area, Sect	or-5, Rohini, Delhi-11008	5	
	weiging.				
3	Abstract Data Types: Stacks: Introduction, Static and Dynamic Implementation, Operations, Applications- Evaluation and Conversion between Polish and Reverse Polish Notations. Queues: Introduction, Static and Dynamic Implementation, Operations, Types- Linear Queue, Circular Queue, Doubly Ended Queue, Priority Queue.	TB1 [Chapter 6], TB2 [Chapters 2, 4], TB3 [Chapters 4, 5]	To introduce students with abstract data types, stacks and queues.	CO 1, CO2, CO4	Students will be well-versed with concept of stacks, polish notations and queues and a real life application of algebric equations.
4	Non-Linear Data Structures: Introduction to Graphs: Notations & Terminologies, Representation of Graphs- Adjacency Matrix, Incidence Matrix and Linked Representation. Trees: Notations & Terminologies, Memory Representation, Binary Trees Types- Complete, Full, Strict, Expression Binary Tree, Tree Traversals (Recursive), Binary Search Tree and Basic Operations Introduction and Creation (Excluding Implementation): AVL Tree, Heap Tree, M- Way Tree, and B Tree.	TB1 [Chapters 7, 8], TB2 [Chapters 5, 8], TB3 [Chapters 7, 8]	To introduce nonlinear data structures like graphs and trees along with their real-life usage.	CO1, CO2, CO4	Students will be aware of non-linear data structures like trees and graphs and their practical application areas.





NAAC A** Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Lesson Plan

Subject: Corporate Governance

Subject Code: BBA 206 Class: BBA IV Semester

Teaching Pedagogy:

The teaching approach will include interactive lectures, case studies, role-playing, debates, and real-life corporate examples to help students understand the principles and applications of corporate governance.

Unit	Unit I: Corporate Governance				
Duration	14 Hours				
Objective	To develop an understanding of corporate governance, its significance principles, and application in modern businesses.				
Learning Outcomes	By the end of this unit, students will be able to:				
	Define corporate governance and explain its importance in today's busines world.				
	Analyze the principles of corporate governance and their implementation is different business structures.				
	Understand various models and theories of corporate governance used in global and Indian contexts.				
	Discuss the role of management, institutional investors, and regulatory bodies in ensuring corporate governance.				
Unit	Unit II: Human Values in Business				
Duration	14 hours				
Objective	To introduce the concept of human values and their relevance in business decision-making.				
Learning Outcomes	By the end of this unit, students will be able to:				
	Understand the meaning and significance of human values in business and corporate life.				
	Identify the process of value formation through socialization.				
	Differentiate between various types of values — social, aesthetic, organizational, and spiritual.				
	Explain the concept of value crisis and its impact on decision-making.				
	Understand the difference between knowledge and wisdom, and their role in ethical leadership.				
	Explore the concept of Karma and different types of Karma (Karma Yoga, Nishkam Karma, and Sakam Karma) and their relevance in business.				



NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Unit	Unit III: Business Ethics
Duration	14 hours
Objective	To develop an understanding of business ethics and its application in corporate decision-making.
Learning Outcomes	By the end of this unit, students will be able to:
	Define business ethics and explain its significance in corporate and organizational contexts.
	Understand the approaches and frameworks for ethical decision-making.
	Discuss ethical theories – Normative and Descriptive Ethics.
	Explain the ethos of Vedanta in management and its application in business.
	Identify the role of regulatory agencies in corporate ethics.
	Learn how organizations set standards for ethical behavior and assess ethical performance.
Unit	Unit IV: Ethical and Moral Issues in Business
Duration	14 hours
Objective	To analyze various ethical and moral dilemmas in different functional areas of business.
Learning Outcomes	By the end of this unit, students will be able to:
	Discuss ethical issues in Finance, HR, and Marketing.
	Understand whistle-blowing and its impact on corporate culture.
	Analyze the ethical challenges related to truth in marketing, advertising manipulation, and coercion.
	Understand the concept of trade secrets, insider trading, and corporate disclosure.

Suggested Readings: (All latest editions to be referred)

- 1. Fernando AC, Business Ethics, Pearson Education
- 2. Balachandran V, Corporate Governance, Ethics and Social Responsibility, PHI 3. Mandal SK, Ethics in Business and Corporate Governance, Mc Graw Hill Education
- 3. Mandal, S., Ethics in Business and Corporate Governance, Mc Graw Hill Education Company
- 4. Kumar, S., Corporate Governance. Oxford, England: Oxford University Press,
- 5. Sherlekar, S. A., Ethics in Management, Himalya Publishing House.



NAAC A** Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Lecture Plan

Corporate Governance, Ethics & Social Responsibility of Business BBA206

Lecture No	Topic to be Covered	Remarks	Teaching Pedagogy	
	Unit 1: Corporate Governan	ce		
1	Corporate Governance, Meaning, significance	CO1, BTL1, BTL2	Lecture with examples, Discussion or current governance practices	
2	Principles of Corporate Governance	CO1, BTL1, BTL2	Conceptual lecture, Interactive Q&A	
3	Management and corporate governance	CO1, BTL1, BTL2	Conceptual lecture, Interactive Q&A	
4	Theories of corporate governance	CO1, BTL1, BTL2	Conceptual lecture, Interactive Q&A	
5	Theories of corporate governance	CO1, BTL1, BTL2	Conceptual lecture, Interactive Q&A	
6	Model of corporate governance	CO1, BTL1, BTL2	Diagram-based explanation, Group activity to create governance models	
7	Whistle blowing, Class Action	CO1, BTL1, BTL2	Conceptual lecture, Interactive Q&A	
8	Role of Institutional Investors, Codes and Standards on Corporate Governance	CO4, BTL1, BTL2	Conceptual lecture, Interactive Q&A	
9	(CSR) & Corporate Philanthropy	CO4, BTL1, BTL2	Videos and documentaries, Brainstorming session	
10	Strategic Planning and Corporate Social Responsibility	CO1, BTL1	Conceptual lecture, Interactive Q&A	
11	Relationship of CSR with Corporate Sustainability	CO1, BTL1	Presentation by students, Interactive discussions	
12	Consumer Protection Act	CO1, BTL1, BTL2	Presentation by students, Interactive discussions	
13	Revision	CO1, BTL1	Recap through group presentations	
14	Class Test		Written test	
	Unit 2: Human Values			
	Meaning and Formation of Values and Human Values	CO2, BTL1, BTL2	Lecture with examples, Interactive discussion	
6	Socialization	CO2, BTL1, BTL2	Lecture with examples, Interactive discussion	



NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

17	Types of Values	CÓ2, BTL1	Lecture with examples, Interactive discussion	
18	Social Values, Aesthetic Values	CO2, BTL1, BTL2	Lecture with examples, Interactive discussion	
19	Organisational Values,	CO2, BTL1, BTL2	Lecture with examples, Video	
20	Spiritual Values, Value Crisis	CO2, BTL1, BTL2	Lecture with examples, Interactive discussion	
21	concept of knowledge and wisdom	CO2, BTL1, BTL2	Lecture with examples, Interactive discussion	
22	wisdom-based management	CO2, BTL1, BTL2	Lecture with examples, Interactive discussion	
23	Concept of Karma and its kinds:	CO2, BTL1, BTL2	Lecture with stories, Small group	
24	Karma Yoga	CO2, BTL1, BTL2	discussions Lecture with examples, Interactive discussion	
25	Nishkam Karma, Sakam Karma.	CO2, BTL1, BTL2	Case-based discussion, Scenario planning	
26	Revision		Mind-mapping exercise, Group quiz	
27	Class Test		Written test	
	Unit 3: Business Ethics			
28	Concept and significance of Business Ethics in Organizational	CO3, BTL1,2,3	Lecture with examples, Interactive discussion	
29	Approaches and Practices governing Ethical Decision Making	CO3, BTL1,2,3	Lecture with examples, Interactive discussion	
30	Approaches and Practices governing Ethical Decision Making	CO3, BTL1,2,3	Lecture with examples, Interactive discussion	
1	Codes of Ethics	CO3, BTL1, BTL2	Examples of codes, Activity: Drafting codes	
2	Normative and descriptive ethical theories	CO3, BTL1,2	Lecture with examples, Interactive discussion	
3	Normative and descriptive ethical theories	CO3, BTL1,2	Lecture with examples, Interactive discussion	
1	Ethos of Vedanta in management	CO3, BTL1, BTL2	Lecture with examples Interactive	
5	Role of various agencies in ensuring ethics in corporation	CO3, BTL1,2,3	discussion Lecture with examples, Intractive active activ	



NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

36	Setting standards of ethical behaviour;	CO3, BTL1,2,3	Lecture with examples, Interactive	
37	Assessing ethical performance	CO3, BTL1,2	discussion Lecture with examples, Interactive	
38	Revision		discussion Mind-mapping exercise	
39	Class Test		Written test	
	Unit 4: Ethical and Moral Issues in E	Business:	·····tten test	
40	Introduction to Ethical and Moral Issues in Business	CO4, BTL1,2	Lecture, Class discussion	
41	Implications of moral issues in different functional areas of business (finance, HR, and marketing).	CO4, BTL1,2,3,4	Case study analysis	
42	Whistle blowing; Marketing truth and advertising	CO4, BTL1,2,3,4	Case study	
43	Manipulation and coercion	CO4, BTL1,2,3	Group presentations, Research assignments	
44	Allocation of moral responsibility in advertising	CO4, BTL1,2	Lecture, Class discussion	
45	Trade secrets, corporate disclosure Insider trading,	CO4, BTL1,2,3	Lecture, Class discussion	
46	Equal employment opportunity, affirmative action	CO4, BTL1,2	Lecture, Class discussion	
17	Preferential hiring; Consumerism; Environmental protection,	CO4, BTL1,2,3	Lecture, Class discussion	
18	Revision		Mind-mapping exercise	
19	Class Test		Written test	





NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085 LECTURE PLAN

Paper	Paper Code	CENA		
	- uper code	SEM	Paper Title	Credit
Elective	BA ECO (Hons) – 309	V	Applied Econometrics	
			. Applied Economietrics	05

Objective:

To provide students with essential econometric skills and knowledge that are directly applicable to their research endeavours, enhancing their ability to conduct meaningful and impactful studies.

Lecture no	UNIT-1 (K-Variable regression) - CO1	Pedagogy used
1	o Introduction (BTL 1: Remembering)	Classroom Lectures: Explanation of
2	CLRM Assumptions (BTL 2: Understanding)	fundamental concepts like CLRM
3	Partial Regression Coefficient (BTL 3:	coefficients.
4	Applying)	 Interactive Problem-Solving: Use real-world data for hypothesis
5	Multiple Linear Regression (BTL 4:	testing. • Hands-on Software Practice: In-
6	Analysing)	class exercises using R-Studio for
7	o Practice Questions (BTL 3: Applying)	regression analysis to reinforce concepts.
	 Practice Questions (BTL 3: Applying) 	 Conducted quiz to reinforce key concepts (copy attached)
	UNIT 2: Regression Diagnostics - CO 2	,
	AUTOCORRELATION	Problem-Based Learning: Use case
3	Meaning and Causes –(BTL 2: Understanding)	studies and real data to explain the
)	Consequences –(BTL 2: Understanding)	detection methods for
10	Method of Detection- (BTL 3: Applying)	autocorrelation, multicollinearity, and heteroskedasticity.
11	Method of Detection - (BTL 3: Applying)	Class Discussions: Interactive Q&A sessions to help students.
.2	Remedial Measures - (BTL 3: Applying)	understand regression diagnostics
	MULTICOLLINEARITY	 concepts. Lab Exercises: Detection and
3		remedial measures can be taught



Jagan Institute of Management Studies Junes NAAC A** Grade & NBA Accredited MCA Program

14	3, Institutional Area Sector-5 Pobini	, Delhi-110085
15	Introduction and Causes— (BTL 2: Understanding)	using R programming in la sessions.
16	Consequences— (BTL 2: Understanding)	563310113,
17	Method of Detection- (BTL 3: Applying)	
18	Method of Detection- (BTL 3: Applying)	
10	Test- (BTL 3: Applying)	
19	Remedial Measures- (BTL 3: Applying)	
20	MULTICOLLINEARITY	
21	Meaning and Causes—(BTL 2: Understanding)	
22	Consequences-(BTL 2: Understanding)	
TO SECOND	Method of Detection- (BTL 3: Applying)	
23	Method of Detection- (BTL 3: Applying)	
24	Remedial Measures- (BTL 3: Applying)	
	Practice Question- (BTL 3: Applying)	
	UNIT-3 (Panel Data)	
25	Introduction &Features-(BTL 2:	Interactive Lectures: Use slides
26	Understanding)	and real examples to introduce
27	Pooled OLS model- (BTL 3: Applying)	panel data and explain models like Pooled OLS, LSDV.
28	Pooled OLS model- (BTL 3: Applying)	Group Work: Encourage students to work in teams to and.
29	Within and Between Estimators- (BTL 3: Applying)	to work in teams to analyse panel data using R-Studio.
30	LSDV model- (BTL 4: Analysing)	 Quizzes and Tests: Regular tests and quizzes to check
31	LSDV Model- (BTL 4: Analysing)	understanding of panel data
32	Fixed Effect model(BTL 4: Analysing)	concepts like the Hausman test.
33	Random Effect- (BTL 4: Analysing)	
34	Hausman Test- (BTL 4: Analysing)	
	Test- (BTL 3: Applying)	
	UNIT-4 (Time Series)	
5	Introduction–(BTL 2: Understanding)	





Jagan Institute of Management Studies jims NAAC A'* Grade & NBA Accredited MCA Program

3, Institutional Area, Sector-5, Rohini, D	elhi-110085
Concept of Stationarity—(BTL 2: Understanding) Understanding)	 Simulation and Data Visualization: Use time-series plots to show stationarity and unit root problems.
	Lab-Based Learning: Perform ADF tests and build ARMA models Using Bin Int. Using Bin
Augmented Dickey Fuller Test(BTL 3: Applying)	 using R in lab sessions. Research Papers: Apply timeseries analysis on financial or
	economic data, helping students to link theory with real-world
	applications.
ARMA model(BTL4: Analysing)	
R-Programming lab (BTL 3: Applying, BTL4: Analysing)	 Hands-On Learning: Conduct R-Studio lab sessions for data analysis, model building, and testing. Guided Practice: Provide datasets and step-by-step guidance for performing econometric analysis using R.
	Concept of Stationarity—(BTL 2: Understanding) Concept of Stationarity—(BTL 2: Understanding) Problem of Unit Root(BTL 3: Applying) Augmented Dickey Fuller Test(BTL 3: Applying) Augmented Dickey Fuller Test(BTL 3: Applying) Auto-Regressive Model(BTL4: Analysing) Application AR Model(BTL4: Analysing) MA model(BTL4: Analysing) ARMA model(BTL4: Analysing) R-Programming lab (BTL 3: Applying, BTL4:





NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

Lesson Plan

		ECO (Hons) gh Indraprastha University	
Paper	Paper Code	Paper Title	Credit
Core	BA ECO (hons) – 309	Applied Econometrics	05
lumber of L	(V - Semester) ecture Hours / Week		0.4
Total Number of Lecture Hours			04 48

Teaching Pedagogy and Delivery Mechanism:

- Hands-on Learning with Software: Use R-Studio to work on real-world data, helping students see how econometrics applies to actual problems.
- Flipped Classroom: Share videos or readings before class so students can spend class time solving problems and discussing ideas.
- **Simulations and Visuals**: Show data visualizations and run simulations to make complex ideas easier to understand.

Recommended Readings:

- Wooldridge, J. M. (2022). Introductory econometrics: A modern approach (7th ed.).
 Cengage Learning.
- Stock, J. H., & Watson, M. W. (2020). Introduction to econometrics (4th ed.). Pearson.
- Gujarati, D. N., & Porter, D. C. (2022). Essentials of econometrics (6th ed.). McGraw Hill.
- Dougherty, C. (2021). Introduction to econometrics (5th ed.). Oxford University Press.

Teaching Outline

UNITS	CONTENTS	SESSIONS
UNIT-1 K variable regression CO-1	 Introduction OLS Parameter Estimation Properties Parameter Estimation Partial Regression Coefficients Hypothesis Testing – Individual and Joint Practice questions 	SESSIONS 1 – 7
UNIT-2 Diagnostic Check	 Heteroscedastic Autocorrelation Multicollinearity Test 	8 – 24
UNIT 3 – Panel Data	Introduction to Panel Data	25-34 of Ma



Jagan Institute of Management Studies Jims NAAC A⁺⁺ Grade & NBA Accredited MCA Program 3, Institutional Area, Sector-5, Rohini, Delhi-110085

	Within and Between	2085
	Estimators	
	LSDV Model	
	Random Effect	
	Fixed effect	
	Hausman Test	
UNIT-4 Time series Analysis	• Introduction	35-44
Time Series Analysis	Stationary Data	•
	Problem od Unit Root	
	Dickey Fuller Test	
5	AR models	
R-studio Lab	LAB SESSIONS	45-48

