



SNDT Women's University, Mumbai

Bachelor of Commerce in Computer Applications

as per NEP-2020

Syllabus

(w.e.f. 2024-25)

Under graduate Programme
Effective from 2024-25
Terminologies

Abbreviation	Full-form	Remarks	Related to Major and Minor Courses
Major (Core)	Main Discipline		
Major (Elective)	Elective Options		related to the Major Discipline
Minor Stream	Other Disciplines (Inter/ Multidisciplinary) not related to the Major	either from the same Faculty or any other faculty	
OEC	Open Elective Courses/ Generic		Not Related to the Major and Minor
VSEC	Vocational and Skill Enhancement Courses		
VSC	Vocational Skill Courses		Related to the Major and Minor
SEC	Skill Enhancement Courses		Not Related to the Major and Minor
AEC	Ability Enhancement Courses	Communication skills, critical reading, academic writing, etc.	Not Related to the Major and Minor
VEC	Value Education Courses	Understanding India, Environmental science/education, Digital and technological solutions, Health & Wellness, Yoga education, sports, and fitness	Not Related to the Major and Minor

IKS	Indian Knowledge System	I. Generic IKS Course: basic knowledge of the IKS II. Subject Specific IKS Courses: advanced information pertaining to the subject: part of the major credit.	Subject Specific IKS related to Major
VAC	Value-Added Courses		Not Related to the Major and Minor
OJT	On-Job Training (Internship/Apprenticeship)	corresponding to the Major Subject	Related to the Major
FP	Field projects	corresponding to the Major Subject	Related to the Major
CC	Co-curricular Courses	Health and Wellness, Yoga education sports, and fitness, Cultural Activities, NSS/NCC and Fine/ Applied/Visual/ Performing Arts	Not Related to the Major and Minor
CE	Community Engagement and service		Not Related to the Major and Minor
RP	Research Project	corresponding to the Major Subject	Related to the Major

Programme Template:

Programme		Bachelor in Commerce (B.Com)
Parenthesis if any (Specialization)		Computer Applications
Preamble		<p>A Four- Year Bachelor in Commerce (B.Com with Honors) degree programs that include research components. A Bachelor of Commerce (B.Com) degree is an undergraduate degree program. B.Com is the foundation upon which subsequent studies can be constructed. The Four-Year B.COM course will allow students to get an opportunity to experience the full range of holistic and multidisciplinary education. Candidates can pursue B.com with Honours who wish to have in-depth knowledge in the Commerce stream. The honours course is designed to offer knowledge in specialised subjects under the umbrella of commerce stream. This degree Program is divided into 8 semesters. Students will also have wide variety of elective subjects from the baskets created in some of the semesters. It is a flexible degree that builds skills and expertise in one or more areas of business, such as commerce, economics, business law, accountancy, taxation, financing along with research, Specializations and skilled based papers/ subjects offered. This program, B.Com in Computer Applications is designed</p> <ul style="list-style-type: none">- to provide students with a wide range of Sales promotion and Advertising skills which would help stake holders to develop a comprehensive advertising campaign for a real or imaginary product.- to use promotional tools to sell products and services.- It will also provide a platform for students to earn while they learn through Influencer Marketing & Social Media Marketing.
		After completing this programme, Learner will

<p>Programme Specific Outcomes (PSOs)</p> <p><i>Action Verbs demonstrating (Major) discipline-related knowledge acquisition, mastery over cognitive and professional, vocational skills are to be used</i></p> <p><i>e.g. demonstrate sound understanding of., analyse, compare, create, design, etc...</i></p> <p>(minimum 5)</p>	1.	To Avail broad over view of various Mass Media, social media & its implications, Personal Selling, Market Segmentation, Media Planning & Scheduling, Sales Promotion & Public Relations.
	2.	Eligible to appear for different Professional Entrance Examinations like Banking, MPSC, UPSC etc.
	3.	Further move towards research in the field of Advertising.
	4.	Demonstrate Progressive learning of various skills related to social media marketing, creation of sales promotion material and setting up their own business startup.
	5.	Pursue higher studies in Masters in Commerce (M.COM) & Masters in Business Administration (MBA).
	6.	Augmented with the opportunities to explore many career options in various fields like Advertising, Media Planning & Scheduling, Social Media Marketing, PR Agencies, Marketing Departments of various companies.
Eligibility Criteria for Programme		XII or equivalent from any steam with required bridge course (if any)
Intake (For SNTD WU Departments and Conducted Colleges)		# Decided by University

Structure with Course Title – B.Com with Computer Applications (*Options related to our area of study to be provided with “OR” for baskets of different types*)

First Year

SN	Courses	Type of Course	Credits	Marks	Int	Ext					
	Semester I										
10120711	Computer Graphics	Subject 1	4	100	50	50					
10120702	Computer Networking and Internet	Subject 2	2	50	50	-					
10420111	Business Environment OR	OEC	4	100	50	50					
OR	Business Mathematics										
10420112	OR										
OR	Basics of Trade and Commerce										
OR	OR										
10420113	Fundamentals of Accounting-I										
OR	OR										
10420114	Overview of Travel Industry										
OR	OR										
10420115	NGO Management – I										
OR	OR										
10420116	From any other faculty										
10620101	Principles of Management						VSC	2	50	50	-
10720111	Financial Planning						SEC	2	50		50
OR	OR										
10720112	Financial Accounting – I										
OR	OR										

10720113	English for Soft Skill Development					
OR	OR					
10720114	Fundamentals of Computers					
OR	OR					
CHETNA1	Courses from CHETNA					
OR	OR					
SWAYAM1	SWAYAM					
10820111	English for Academic Writing-I (For Students of English medium)					
OR	OR					
10820112	English Language and Literature-I (For Students of English medium)	AEC	2	50	-	50
	https://sntd.ac.in/pdf/academics/syllabus-as-per-nep/aec-syllabus/ug-degree/ability-enhancement-course.pdf					
11051111	Indian Knowledge System/ Generic	IKS Generic	2	50	-	50

10952111	Introduction to Indian Constitution (SNDTWU Syllabus) https://sndt.ac.in/pdf/academics/syllabus-as-per-nep/vec-syllabus/ug-degree/introduction-to-indian-constitution.pdf	VEC	2	50	-	50
114501211 OR 11450221 OR 11450322 OR 11450421	Basics of national service scheme OR National Cadets Corps (NCC) OR Health and Wellness OR Performing arts exploration	CC	2	50	50	-
			22	550	250	300

	Semester II					
20120711	Introduction to Programming and Problem Solving using “C” (Theory)	Subject 1	4	100	50	50
20120712	Introduction to Programming and Problem Solving using “C” (Practical)	Subject 2	2	50	-	50
20420111 OR 20420112 OR 20420113	Environmental Studies OR Business Statistics OR Principles of Marketing OR	OEC	4	100	50	50

OR	Fundamentals of Accounting Paper-II					
20420114	OR					
OR	Island Destinations in India					
20420115	OR					
OR	NGO Governance					
20420116	OR					
OR	Fundamentals of Corporate Social Responsibility in India					
20420117	OR					
OR	Digital Skills					
20420118	OR					
OR	Emotional Intelligence at Workplace					
20420119						
20620101	Micro Economics – I	VSC	2	50	50	
20620102	Human Resource Management	VSC	2	50	50	
20720101	Investment Planning					
OR	OR					
20720102	Financial Accounting - II					
OR	OR					
20720103	Advance Excel	SEC	2	50	50	-
OR	OR					
CHETNA2	Courses from CHETNA					
OR	OR					
SWAYAM2	SWAYAM					

20810111	English for Academic Writing-II					
OR						
20810112	OR English Language and Literature-II (For Students of English medium)	AEC	2	50		50
	https://sndt.ac.in/pdf/academics/syllabus-as-per-nep/aec-syllabus/ug-degree/ability-enhancement-course.pdf					
20920111	Introduction to Environmental Economics					
OR						
20920112	Environmental Awareness	VEC	2	50	-	50
	https://sndt.ac.in/pdf/academics/syllabus-as-per-nep/vec-syllabus/ug-degree/environment-awareness.pdf					
21450121	Volunteerism And National Service Scheme					
21450221	or					
21450323	National Cadet Corps.(NCC)					
	Or					
21450421	YOGA EDUCATION	CC	2	50	50	-
	or					
	FINE ARTS					
	https://sndt.ac.in/nep2020/syllabus-as-per-nep/cc-syllabus					
				550	300	250

Exit with UG Certificate with 04 extra credits of OJT (44 + 04 credits)

SNDTWU Faculty of Commerce in Computer Applications Syllabus w.e.f. 2025-26

Second Year

SN	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester III					
30120711	Advanced Accounting Software	Major (Core)	4	100	50	50
30120712	Audio and Video Editing Software	Major (Core)	4	100	50	50
30120713	Production Planning and Management	Major	2	50		50
30320111/ 30320112/ 30320113/ 30320114	Macro Economics OR Business Law I OR Business Accounting I OR Introduction to Entrepreneurship	Minor Stream	4	100	50	50
30420111/ 30420112/ 30420113/ 30420114/ 30420115/ 30420116/ 30420117/ 30420118/ 30420119/ 30420161/ 30420162	Customer Relationship Management OR Introduction to Advertising OR Introduction to Export Marketing OR Industrial Psychology–Organisational Behaviour OR Marketing Management OR Industrial Statistics OR Basics of Co-operative Management OR Introduction to Treasury & Risk Management OR Principles of Economic Systems and Freedom OR Financial Accounting Insights OR Business Communication	OEC	2	50	-	50
	Modern Indian Languages - Hindi OR	AEC	2	50	50	-

	Marathi OR Gujarati (As per SNTWU syllabus)					
31320701	Field Project in Computer Applications	FP	2	50	50	-
	Sports OR Yoga OR NSS OR NCC OR Performing Arts OR Cultural Activities (as per SNTWU syllabus) Traditional Sports and Fitness (Sports) OR National Cadets Corps (NCC) OR Cultural Activities OR National Service Scheme (NSS) (As per SNTWU syllabus) https://sntd.ac.in/nep2020/syllabus-as-per-nep/cc-syllabus	CC	2	50	50	-
			22	550	300	250

	Semester IV					
40120711	Web Designing	Major (Core)	4	100	50	50
40120712	Scripting Language	Major (Core)	4	100	50	50
40320111/ 40320112/ 40320113/ 40320114	International Economics OR Business Law II OR Business Accounting II OR Business Entrepreneurship	Minor Stream	4	100	50	50
40420111/ 40420112/ 40420113/ 40420114/ 40420115/ 40420116/ 40420117/ 40420118/ 40420119/ 40420161/ 40420162	Business Compliances OR Techniques of Advertising OR Export Marketing Strategies and Procedures OR Industrial Psychology-Workplace Behaviour OR Marketing Research OR Techniques of Sampling and Hypothesis Testing OR Co-operative Management Mechanism OR Investment & Risk Management OR Foundations of Capitalism, Socialism, and Mixed Economies OR Budgetary Control and Recent Trends in Business Accounting OR Business Communication Skills	OEC	2	50	-	50

40720111/ 40720112/ 40720113	Fundamentals of Insurance OR Advertising Skills OR Fundamentals of Investment in Stock Markets	SEC	2	50	-	50
	Modern Indian Languages – Hindi OR Marathi OR Gujarati (As per SNTWU syllabus)	AEC	2	50	-	50
41520701	Community Engagement in Computer Applications	CE	2	50	50	-
	Sports OR Yoga OR NSS OR NCC OR Performing Arts OR Cultural Activities (As per SNTWU syllabus)	CC	2	50	50	-
			22	550	250	300

Exit with UG Diploma with 04 extra credits of OJT (44 + 04 credits)

Third Year

SN	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester V					
50120711	Database Management System	Major (Core)	4	100	50	50
50120712	Introduction to Python Programming	Major (Core)	4	100	50	50
51020111/ 51020112/ 51020113	Vedic Business Ethics OR Indian Economic Thought OR Vedic Accounting	IKS (Major Specific)	2	50	-	50
50220711	Digital Marketing	Major (Elective)	4	100	50	50
50320111/ 50320112/ 50320113/ 50320114	Issues in the Indian Economy OR Business Law III OR Business Accounting III OR Social Entrepreneurship	Minor Stream	4	100	50	50
50620701	Android App Development	VSC	2	50	50	-
51320701	Extension Activities/ Institutional Social Responsibility towards community engagement	FP / CEP	2	50	50	-
			22	550	300	250

SN	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester VI					
60120711	Advanced Python Programming	Major (Core)	4	100	50	50
60120712	Artificial Intelligence and Machine Learning	Major (Core)	4	100	50	50
60120713	Data Science	Major (Core)	2	50	-	50
60220711	Software Project	Major (Elective)	4	100	50	50
60320111/ 60320112/ 60320113/ 60320114	Public Finance OR Business Law IV OR Business Accounting IV OR Entrepreneurship and Start-Up management	Minor Stream	4	100	50	50
61220721	Internship/live Project/ Project Assignment-Industry based project (Major Core)	OJT	4	100	50	50
			22	550	250	300

Exit with UG Degree (3-year)

4-Year Degree with Honors

SN	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester VII					
7.H.1	Java Programming	Major (Core)	4	100	50	50
7.H.2	Internet of Things	Major (Core)	4	100	50	50
7.H.3	Web Technology	Major (Core)	4	100	50	50
7.H.4	Organizational Behaviour/ Business Ethics/ Application of Statistical tools in Research/ Digital Marketing/ Economics and Business Environment/ Direct Tax Paper II	Major (Core)	2	50	50	-
7.H.5	Consumer Behaviour	Major (Elective)	4	100	50	50
7.H.6	Research Methodology	Minor Stream (RM)	4	100	50	50
			22	550	300	250
	Semester VIII					
8.H.1	Blockchain	Major (Core)	4	100	50	50
8.H.2	Data Warehousing and Data Mining	Major (Core)	4	100	50	50
8.H.3	Intellectual Property Rights and Cyber Laws	Major (Core)	4	100	50	50
8.H.4	Retail Management/ Digitalization of Business / Economics and Business Policy/ Corporate Auditing	Major (Core)	2	50	-	50
8.H.5	Financial Services related to Marketing	Major (Elective)	4	100	50	50

8.H.6	Internship	OJT	4	100	50	50
			22	550	250	300

4-Year Degree with Research

SN	Courses	Type of Course	Credits	Marks	Int	Ext
	Semester VII					
7.R.1	Java Programming	Major (Core)	4	100	50	50
7.R.2	Web Technology	Major (Core)	4	100	50	50
7.R.3	Organizational Behaviour/ Business Ethics/ Application of Statistical tools in Research/ Digital Marketing/ Economics and Business Environment/ Direct Tax Paper II	Major (Core)	2	50	-	50
7.R.4	Consumer Behavior	Major (Elective)	4	100	50	50
7.R.5	Research Methodology	Minor Stream (RM)	4	100	50	50
7.R.6	Research I	Research Project	4	100	100	-
			22	550	300	250
	Semester VIII					
8.R.1	Data Warehousing and Data Mining	Major (Core)	4	100	50	50
8.R.2	Intellectual Property Rights and Cyber Laws	Major (Core)	4	100	50	50
8.R.3	Retail Management/ Digitalization of Business / Economics and Business Policy/ Corporate Auditing	Major (Core)	2	50	-	50
8.R.4	Financial Services related to Marketing	Major (Elective)	4	100	50	50
8.R.5	Research II	Research Project	8	200	100	100
			22	550	250	300

B.COM IN COMPUTER APPLICATIONS
SEMESTER V
ACADEMIC YEAR: 2026-27

COURSE SYLLABUS

Semester: V

5.1- Major (Core)

Course Title	DATABASE MANAGEMENT SYSTEM
Course Credits	4
Course Outcomes	<p>After going through the course, learners will be able to</p> <ol style="list-style-type: none"> 1. Apply database design methodologies to create databases and verify their structural correctness. 2. Implement relational databases and application software using appropriate database management systems. 3. Use SQL and other database support tools to query, manipulate, and manage data effectively. 4. Apply theoretical concepts of database models and query languages to solve real-world database problems. 5. Implement database security and integrity policies to protect data and maintain consistency. 6. Explain and apply basic principles of data warehousing and prepare data for data analytics applications.
Module 1 (Credit 1) :	Introduction to DBMS
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Define and explain the concepts of data, database, and DBMS, and identify different users of a DBMS. • Differentiate between the file system and DBMS with respect to data storage, security, and efficiency. • Explain and analyze the levels of abstraction, data independence, and DBMS architectures.

	<ul style="list-style-type: none"> • Evaluate the advantages, disadvantages, and applications of DBMS in real-world scenarios.
Content Outline	<ul style="list-style-type: none"> • Introduction to Data, Information, Database and DBMS. • File system vs DBMS • Applications of DBMS • Users of DBMS • DBA and Functions of DBA • Advantages and Disadvantages of DBMS • Types of DBMS • Architectures of DBMS
Module 2 (Credit 1) Conceptual Design	
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Explain the database design process and compare different data models such as E-R, Relational, Network, and Hierarchical models. • Develop conceptual database designs using the E-R model, identifying entities, attributes, relationships, entity sets, and using standard ER symbols. • Apply extended ER features like specialization, generalization, and aggregation through appropriate pictorial representations. • Analyze database constraints and relational structures, and design ER models for real-world case studies.
Content Outline	<ul style="list-style-type: none"> • Overview of DB design process. • Introduction to data models (E-R model, Relational model, Network model, Hierarchical model) • Conceptual design using ER data model (entities, attributes, entity sets, relations, relationship sets) and symbols. • E- R Notation Diagrams with Relationship (one to one , one to many, many to one, many to many)

	<ul style="list-style-type: none"> • Constraints (domain constraints, entity integrity constraints referential integrity constraints and key constraints). • Case Studies on ER model
Module 3 (Credit 1) Structured Query Language (SQL)	
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Explain the principles of relational database design and identify undesirable properties in poorly designed databases. • Understand and apply the concept of normalization to reduce redundancy and improve data integrity. • Differentiate and apply various normal forms (1NF, 2NF, 3NF, and BCNF) using suitable examples. • Identify and analyze different types of keys and determine candidate keys and super keys in a given relational schema.
Content Outline	<ul style="list-style-type: none"> • Introduction to Relational-Database Design • Undesirable properties of a RDB design • Concept of Normalization • Normal Forms 1NF, 2NF, 3NF, BCNF and its Examples. • Keys Concept : Primary Key, Foreign Key, Candidate Keys ,Composite Key, Alternate Key and Super Key.(Find out candidate key and super key with examples)
Module 4 (Credit 1) Relational-Database Design	
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Understand and explain the concept of query languages and the basic structure of SQL commands. • Use and differentiate various SQL command categories such as DDL, DML, DCL, and TCL for database creation and manipulation.

	<ul style="list-style-type: none"> • Write and execute SQL queries using expressions, strings, set operations, aggregate functions, date /time functions, simple and nested queries.
Content Outline	<ul style="list-style-type: none"> • Introduction to query languages • Basic structure and Commands • DDL Commands • DML Commands • DCL Commands • TCL Commands • Forms of a basic SQL query (Expression and strings in SQL) • SQL Operations • Set operations • Aggregate functions • Date, Time functions • Simple queries • Nested queries • Joins in SQL • Views in SQL • Triggers in SQL

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal : 50 Marks

Assignments/ Practicals / Quizzes/ projects/ Report writings/ Flip classroom/ presentations/Class Tests and so on, any of these evaluation methods can be used for the above modules. Minimum three types are required to be used for effective CCE

External : 50 Marks

References:

- Silberschatz, A., Korth, H. F., & Sudarshan, S. (2006). *Database system concepts* (5th ed.). Tata McGraw-Hill Education. ISBN: 9780071289597
- Ramakrishnan, R., & Gehrke, J. (2003). *Database management systems* (3rd ed.). McGraw-Hill Science/Engineering/Math. ISBN: 9780072465631
- Elmasri, R., & Navathe, S. B. (2010). *Fundamentals of database systems* (6th ed.). Pearson Higher Education. ISBN: 9780132144988
- Desai, B. C. (2002). *An introduction to database systems*. Galgotia Publications.
- Bayross, I. (2001). *Oracle: The complete reference*. BPB Publications.
- Widerhold, G. (1983). *Database design*. McGraw-Hill.
- Elmasri, R., & Navathe, S. B. (2010). *Fundamentals of database systems*. Pearson Education.

Course Syllabus

Semester : V

5.2: Major Core

Course Title	Introduction to Python Programming
Course Credits	4 Credits
Course Outcomes	After going through the course, learners will be able to <ol style="list-style-type: none">1. Introduce basic programming concepts using Python.2. Develop problem-solving skills.3. Understand the basic concepts, features, and applications of Python programming.4. Apply Python syntax, control structures, and data structures to develop programs.5. Design modular Python programs using functions, file handling techniques, and exception handling for error-free execution.6. Apply object-oriented programming principles such as classes, objects, inheritance, and polymorphism while developing Python programs.7. Develop and test simple real-world Python applications using structured and object-oriented approaches.
Module 1 (Credit 1)	Introduce basic programming concepts using Python
Learning Outcomes	After learning the module, learners will be able to <ul style="list-style-type: none">• Explain the features and applications of Python.• Write simple Python programs using appropriate syntax.• Construct simple Python programs using variables, data types, operators, and input/output statements.
Content Outline	<ol style="list-style-type: none">1. Introduction to Python2. History, features, and applications of Python3. Python programming environment

	<ol style="list-style-type: none"> 4. Keywords and identifiers 5. Variables and data types 6. Type conversion 7. Operators: arithmetic, relational, logical, assignment 8. Input and output statements 9. Simple Python programs
Module 2 (Credit 1)	Control Structures and Data Structures
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Analyze problem statements and choose appropriate decision-making and looping constructs • Apply Python data structures such as lists, tuples, sets, and dictionaries for storing and manipulating data. • Develop small programs using built-in data structure methods.
Content Outline	<ol style="list-style-type: none"> 1. Decision making: if, if–else, elif, nested if 2. Looping statements: for loop, while loop 3. Loop control statements: break, continue, pass 4. Data structures in Python: <ol style="list-style-type: none"> a. Lists: creation, operations, and methods b. Tuples: features and operations c. Sets: creation and set operations d. Dictionaries: keys, values, and methods 5. Programs using data structures
Module 3 (Credit 1)	Functions, Files, and Exception Handling
Learning Outcomes	After learning the module, learners will be able to

	<ul style="list-style-type: none"> • Design reusable and modular programs using functions and arguments. • Apply file handling techniques to store and retrieve data. • Identify and handle runtime errors using Python exception handling mechanisms.
Content Outline	<ol style="list-style-type: none"> 1. Functions: definition, calling, arguments, return values. 2. Types of arguments: default and keyword arguments. 3. Introduction to modules and packages. 4. File handling: opening, reading, writing, and closing files. 5. Exception handling: types of errors, try, except, else, finally 6. Programs using functions and files.
Module 4 (Credit 1):	Object-Oriented Programming and Applications
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Explain object-oriented programming concepts in Python. • Implement classes, objects, and inheritance in program development. • Develop simple Python-based applications using object-oriented principles.
Content Outline	<ol style="list-style-type: none"> 1. Introduction to object-oriented programming. 2. Classes and objects. 3. Constructors and destructors. 4. Attributes and methods. 5. Inheritance. 6. Polymorphism (conceptual understanding). 7. Development of simple Python applications. 8. Case studies and mini projects.

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal : 50 Marks

SNDTWU Faculty of Commerce in Computer Applications Syllabus w.e.f. Semester I & II 2024-25, Semester III & IV 2025-26; Semester V & VI 2026-27

Assignments/ Practicals / Quizzes/ projects/ Report writings/ Flip classroom/ presentations/Class Tests and so on, any of these evaluation methods can be used for the above modules. Minimum three types are required to be used for effective CCE

External : 50 Marks

References:

- Thareja, R. (2019). *Python programming using problem solving approach*. Oxford University Press.
- Balagurusamy, E. (2017). *Programming with Python*. McGraw-Hill Education.
- Python Software Foundation. (n.d.). *Python documentation*. <https://docs.python.org>
- Downey, A. B. (2016). *Think Python: How to think like a computer scientist* (2nd ed.). Green Tea Press. <https://greenteapress.com/wp/think-python-2e/>
- Lutz, M. (2013). *Learning Python* (5th ed.). O'Reilly Media.

Course Syllabus

Semester: V

5.3– IKS (Major Specific)

Course Title	Vedic Business Ethics
Course Credits	02
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Explain the meaning, scope, and philosophical foundations of Vedic Business Ethics within the Indian Knowledge Systems (IKS) framework.2. Apply Vedic ethical principles such as Dharma, Seva, Satya, and Artha to analyze business decisions and practices.3. Evaluate contemporary business practices with reference to sustainability, social responsibility, and ethical governance from a Vedic perspective.4. Demonstrate ethical reasoning and value-based thinking for responsible leadership and management in modern business organizations.
Module 1 (Credit 1) Introduction to Vedic Business Ethics	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to
	<ul style="list-style-type: none">• Define and explain the meaning and scope of Vedic Business Ethics and its relevance in the modern business environment.• Identify and describe the Vedic sources of business ethics and their contribution to ethical thought and practice.• Apply the concepts of Dharma and Seva to ethical decision-making in business, emphasizing righteous conduct and service orientation.• Analyze ethical commerce practices such as fair trade, truthfulness, ethical marketing, and prevention of exploitation using Vedic principles.

<p>Content Outline</p>	<ul style="list-style-type: none"> • Meaning and scope of Vedic Business Ethics • Relevance of Vedic philosophy in modern business environment • Vedic Sources of Business Ethics • Dharma in Business: Concept of Dharma and righteous conduct in business, Ethical decision-making based on Dharma • Seva (Service) as a Guiding Principle: Concept of Seva in Vedic thought, Service orientation towards customers, employees, and society • Ethical Commerce and Fair Trade: Satya (truthfulness) and honesty in trade, Fair pricing, ethical marketing, and responsible competition, Prevention of exploitation and unethical practices.
<p>Module 2 (Credit 1) Application of Vedic Ethics in Modern Business</p>	
<p>Learning Outcomes <i>(Specific related to the module)</i></p>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Explain sustainable business practices from a Vedic perspective, highlighting harmony with nature and responsible use of resources. • Assess the balance between profit and social responsibility using the concepts of Artha, trusteeship, and social welfare. • Examine the role of innovation and knowledge sharing (Vidya) as ethical drivers of collective and organizational growth. • Evaluate corporate governance practices with reference to truthfulness, transparency, accountability, and ethical leadership.
<p>Content Outline</p>	<ul style="list-style-type: none"> • Sustainable Practices from a Vedic Perspective: Harmony with nature and environmental ethics, Responsible use of natural and economic resources, Sustainability as a moral responsibility • Balancing Profit with Social Responsibility: Concept of Artha with ethical restraint, Profit maximization vs social welfare, Trusteeship and wealth with responsibility • Innovation and Knowledge Sharing: Knowledge (Vidya) as a valuable asset in Vedic tradition, Encouraging creativity, learning, and innovation, Ethical sharing of knowledge for collective growth

	<ul style="list-style-type: none"> • Corporate Governance, Transparency, and Knowledge Sharing, Truthfulness (Satya) and accountability in business governance, Ethical leadership and responsible management, Transparency in financial reporting and corporate conduct
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Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – NIL

External – 50 Marks

References:

- Chakraborty, S. K. (1997). *Ethics in management: Vedantic perspectives*. Oxford University Press
- Radhakrishnan, S. (1951). *Indian philosophy* (Vols. 1–2). George Allen & Unwin.
- <https://archive.org/details/indianphilosophy01hnan/mode/2up>
- Chakraborty, S. K. (1999). *Values and ethics for organizations: Theory and practices*. Oxford University Press.
- Bhatia, S. K. (2013). *Business ethics and corporate governance*. Deep & Deep Publications.
- Murthy, C. S. V. (2007). *Business ethics*. Himalaya Publishing House.
- Singh, A. (2021). *Business ethics and Indian value system*. Himalaya Publishing House.
- Ghosh, B. (2006). *Ethics in management and Indian ethos* (2nd ed.). Vikas Publishing House Pvt. Ltd.
- Pandey, M., & Pandey, K. (2024). *Vedic management*. BFC Publications Pvt. Ltd.

Course Syllabus

Semester: V

5.3– IKS (Major Specific)

Course Title	Indian Economic Thought
Course Credits	2
Course Outcomes	After going through the course, learners will be able to <ol style="list-style-type: none">1. Explain the major contributions of Indian economic thinkers across different periods.2. Analyse Indian economic ideas in relation to colonialism, nationalism, and development.3. Compare traditional and modern approaches to growth, welfare, and social justice.4. Apply Indian economic thought to current policy debates and development strategies.
Module 1 (Credit 1) Indian Economic Thought – I	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to <ul style="list-style-type: none">• Summarize the contributions of early and nationalist Indian economic thinkers.• Analyse the economic ideas of 19th and early 20th century reformers and economists
Content Outline	<ul style="list-style-type: none">• Thiruvalluvar-Views on wealth and poverty agriculture, public finance and welfare state.• Kautilya-Concept of welfare state, Principles of taxation and revenue administration, Role of the state in economic regulation• Dadabhai Naoroji-Theory of Drain of Wealth• M. G. Ranade: Views on protection and industrial development
Module 2 (Credit 1) Indian Economic Thought – II	

Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Compare the economic ideas of modern Indian economists. • Critically assess Indian economic thought in the context of contemporary economic challenges.
Content Outline	<ul style="list-style-type: none"> • Mahatma Gandhi-Concept of Swadeshi, Sarvodaya, Theory of Trusteeship. • Dr. B. R. Ambedkar-Views on State Socialism, Role of the state in economic development. • Amartya Sen -Capability Approach, Human development perspective. • Abhijit Banerjee- Poverty and famine, Micro-level approach to development problems.

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – NIL

External – 50 Marks

References:

- **Jhingan, M. L.** (2010). *History of Economic Thought*. Vrinda Publications, Delhi.
- **Datt, R., & Sundaram, K. P. M.** (Latest Edition). *Indian Economy*. S. Chand & Company Ltd., New Delhi.
- **Mishra, S. K., & Puri, V. K.** (Latest Edition). *Indian Economy*. Himalaya Publishing House, Mumbai.
- **Bipan Chandra.** (2009). *Economic History of Modern India*. Orient Blackswan, New Delhi.
- **Naoroji, Dadabhai.** (1901). *Poverty and Un-British Rule in India*. Swan Sonnenschein & Co., London.
- **Ranade, M. G.** (1906). *Essays on Indian Economics*. Thacker & Co., Bombay.

Course Syllabus

Semester: V

5.3– IKS (Major Specific)

Course Title	Vedic Accounting
Course Credits	2
Course Outcomes	After going through the course, learners will be able to
	1: Explain the concept and evolution of Vedic Accounting 2: Apply Vedic principles in bookkeeping and financial planning 3: Compare modern accounting with Vedic accounting philosophy 4: Use ethical accounting practices in business and self-employment
Module 1 (Credit 1)	Foundations of Vedic Accounting
Learning Outcomes	After learning the module, learners will be able to
	1.1 Define the concept and scope of Vedic Accounting 1.2 Identify references to accounting and wealth management in ancient Indian texts 1.3 Explain Purusharthas (Dharma, Artha, Kama, Moksha) in relation to financial 1.4 Describe differences between traditional and modern accounting philosophies 1.5 Explain core Vedic values like Satya, Rita, and Yajna in financial practices 1.6 Interpret ethical responsibilities of accountants using Vedic concepts
Content Outline	Foundations and Principles of Vedic Accounting <ul style="list-style-type: none">• Meaning and scope of Vedic Accounting• Accounting concepts in ancient Indian texts (Vedas, Arthashastra, Smritis)• Concept of Dharma, Artha, Kama, Moksha in financial life• Ethical wealth creation and responsibility of accountants

	<ul style="list-style-type: none"> • Difference between conventional accounting and Vedic accounting • Concept of Rita (Cosmic Order) and financial discipline • Truthfulness (Satya) in accounting records • Concept of Yajna and stakeholder responsibility <p>Activity: Case discussion on ethical vs unethical accounting practices Preparing ethical accounting statements for a small business</p>
Module 2 (Credit 1)	Vedic Accounting in Personal Finance & Entrepreneurship
Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> 2.1 Apply Vedic principles to household budgeting and personal finance planning 2.2 Prepare basic accounting plans for small businesses / women-led enterprises 2.3 Analyse financial decision-making using ethical and sustainable perspectives 2.4 Analyse the relevance of Vedic Accounting in modern corporate governance 2.5 Evaluate ethical dilemmas using Vedic value systems 2.6 Assess the contribution of Vedic Accounting to ESG and sustainable finance
Content Outline	<p>Vedic Accounting in Personal Finance & Entrepreneurship</p> <ul style="list-style-type: none"> • Vedic approach to income, expenditure, saving, and donation (Dana) • Household budgeting through Vedic principles • Accounting practices for women-led MSMEs and SHGs <p>Contemporary Relevance & Applications</p> <ul style="list-style-type: none"> • Vedic Accounting and Corporate Governance • Alignment with ESG and sustainability accounting

	<ul style="list-style-type: none"> • Role of Vedic Accounting in financial inclusion • Case studies from Indian enterprises • Relevance under NEP-2020 & Indian Knowledge Systems (IKS) <p>Activity:</p> <p>Prepare a Vedic-based household or micro-enterprise budget</p> <p>Group presentation on Vedic Accounting in modern organizations</p>
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Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – NIL

External – 50 Marks

References:

- Kautilya. (1992). *The Arthashastra* (L. N. Rangarajan, Trans.). Penguin Books. *(Original work published c. 3rd century BCE)*
- Radhakrishnan, S. (2008). *Indian philosophy* (Vols. 1–2). Oxford University Press. *(Original work published 1923–1927)*
- Iyer, R. N. (1973). *The moral and political thought of Mahatma Gandhi*. Oxford University Press.
- Institute of Chartered Accountants of India. (2019). *Code of ethics*. ICAI Publications.
- University Grants Commission. (2023). *Indian Knowledge Systems (IKS): Guidelines and curriculum framework*. UGC.

Course Syllabus

Semester: VI

5.4 – Major (Elective)

Course Title	Digital Marketing
Course Credit	4
Course Outcome	After going through the course learners will be able to,
	<ol style="list-style-type: none">1. Explain the digital marketing ecosystem and its relevance in modern business.2. Apply basic SEO, content, and social media strategies.3. Design structured digital marketing campaigns.4. Analyze campaign performance using introductory analytics tools.5. Demonstrate employability skills relevant to marketing and digital business environments.
Module 1 (Credit 1)	Introduction to Digital Marketing & Online Branding
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none">• Understand core concepts of digital marketing• Identify various digital channels and their applications• Analyze changing consumer behaviour online
Content Outline	<ol style="list-style-type: none">1. Meaning and Scope of Digital Marketing2. Traditional Marketing vs Digital Marketing3. Digital Marketing Ecosystem & Channels4. Consumer Behaviour in the Digital Age5. Online Branding & Brand Positioning6. Digital Marketing Funnel (Awareness to Conversion)7. Introduction to Digital Marketing Tools & Platforms

Module 2 (Credit 1)		Search Engine Marketing & Content Strategy	
Learning Outcomes	After learning the module, learners will be able to		
	<ul style="list-style-type: none"> • Apply SEO techniques to improve online visibility • Develop effective content strategies • Understand paid vs organic search marketing 		
Content Outline	<ol style="list-style-type: none"> 1. Search Engine Optimization (SEO): On-Page & Off-Page 2. Keyword Research & SEO Tools 3. Search Engine Marketing (SEM) & Google Ads Overview 4. Content Marketing: Blogs, Articles, Videos, Infographics 5. Copywriting Basics for Digital Platforms 6. Website Optimization & Landing Pages 		
Module 3 (Credit 1)		Social Media Marketing & Email Marketing	
Learning Outcomes	After learning the module, learners will be able to		
	<ul style="list-style-type: none"> • Design social media campaigns • Create content for different platforms • Measure engagement and campaign effectiveness 		
Content Outline	<ol style="list-style-type: none"> 1. Social Media Marketing Strategy 2. Platforms: Facebook, Instagram, LinkedIn, X (Twitter), YouTube 3. Social Media Content Planning & Calendars 4. Influencer Marketing Basics 5. Email Marketing Concepts & Campaign Design 6. Tools for Social Media & Email Marketing 7. Social Media Analytics & Engagement Metrics 		
Module 4 (Credit 1)		Digital Advertising, Analytics & Career Applications	
Learning Outcomes	After learning the module, learners will be able to		
	<ul style="list-style-type: none"> • Analyze digital marketing performance using analytics 		

	<ul style="list-style-type: none"> • Understand online advertising strategies • Prepare students for industry and freelancing roles
Content Outline	<ol style="list-style-type: none"> 1. Online Advertising Models (PPC, Display Ads, Video Ads) 2. Google Ads & Social Media Ads (Overview) 3. Web Analytics & Google Analytics Basics 4. Performance Tracking & Reporting 5. Digital Marketing Ethics & Legal Issues 6. Career Opportunities & Freelancing in Digital Marketing 7. Mini Project / Campaign Planning

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal : 50 Marks

Assignments/ Practicals / Quizzes/ projects/ Report writings/ Flip classroom/ presentations/Class Tests and so on, any of these evaluation methods can be used for the above modules. Minimum three types are required to be used for effective CCE

External : 50 Marks

References:

- Mankad, D. J. (2019). *Understanding Digital Marketing*. BPB Publications.
- Gupta, S. (2022). *Digital Marketing* (3rd ed.). McGraw Hill Education.
- Kotler, P., Kartajaya, H., & Setiawan, I. (2017). *Marketing 4.0: Moving from Traditional to Digital*. Wiley
- Swaminathan, T. N., & Kumar, K. (2019). *Digital Marketing: From Fundamentals to Future*. Cengage Learning India.

Course Syllabus

Semester: V

5.5 -Minor Stream

Course Title	Issues in the Indian Economy
Course Credits	4
Course Outcomes	After going through the course, learners will be able to 1.introduces students to key developmental issues of the Indian economy, including poverty, unemployment, inequality, and human development. 2.Develop an understanding of major agricultural issues, such as productivity trends, agricultural finance, marketing systems, and price policy. 3.Provide insights into industrial and trade-related challenges, including industrial policy, MSME issues, foreign capital, competition policy, and foreign trade policy. 4.Familiarize students with the role of infrastructure and the service sector in India’s economic growth, including PPP, IT policy, and service-sector sustainability.
Module 1 (Credit 1) Development issues in India	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to <ul style="list-style-type: none">● Describe the characteristics of India as a developing economy.● Explain trends and causes of poverty, unemployment, and inequality in India.● Evaluate government measures for poverty alleviation, employment generation, and reducing inequality.● Able to interpret HDI and GDI as indicators of human development.

Content Outline	<ul style="list-style-type: none"> • Concept of Developed and Developing Economy, Characteristic Features of India as a Developing Economy • Poverty Line -Multidimensional Poverty Index (latest NITI Aayog data), urban–rural poverty trends, Government initiatives aimed at reducing poverty • Unemployment in India- Types, patterns, and government employment generation measures • Inequality of Income in India-: Trends in Inequality of Income in India and Measures to Reduce, • Human Development Index and Gender Development Index- Concept, components, India’s status.
Module 2 (Credit 1) Issues in Agriculture	
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Analyses trends in agricultural production and productivity in India. • Explain sources of agricultural finance and their role in supporting farmers. • Identify problems in agricultural marketing and evaluate government measures to improve them. • Assess the importance of agricultural price policy, TPDS, and input subsidies in ensuring food security and farmer welfare.
Content Outline	<ul style="list-style-type: none"> • Trends in Agricultural Production and Productivity and Measures to Increase Productivity • Sources of Agricultural Finance: Institutional and non-institutional • Problems of Agriculture Marketing and Government Measures to improve the system of Agricultural Marketing • Agriculture Price Policy of the Government of India, Targeted Public Distribution System (TPDS) • Subsidy on Agriculture Inputs
Module 3 (Credit 1) Issues in Industry and Foreign Capital	
	<p>After learning the module, learners will be able to</p>

<p>Learning Outcomes <i>(Specific related to the module)</i></p>	<ul style="list-style-type: none"> ● Discuss major features and implications of Industrial Policy since 1991. ● Analyses the role, problems, and policy measures related to MSMEs. ● Differentiate components of foreign capital and evaluate policy measures to attract FDI. ● Assess the functioning of SEZs, and the Competition Act (2002) in shaping industrial and trade development.
<p>Content Outline</p>	<ul style="list-style-type: none"> ●Industrial Policy Since 1991 ●MSME- Role, Problems, Measures. ●Components of Foreign Capital and policy measures to attract FDI. ●Competition Act, 2002 ● Special Economic Zones in India - evaluation
<p>Module 4 (Credit 1) Banking, Infrastructure & Service Sector in India:</p>	
<p>Learning Outcomes <i>(Specific related to the module)</i></p>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> ● Explain the causes of India’s energy crisis and review measures to address it. ● Evaluate the advantages and disadvantages of Public–Private Partnerships in infrastructure development. ● Analyse growth trends, contribution, and drivers of the service sector in India. ● Examine government IT policies and assess the sustainability of service-led growth.
<p>Content Outline</p>	<ul style="list-style-type: none"> ● Structure of the Indian Banking System-Overview of public sector banks, private sector banks, cooperative banks, and regional rural banks ● Challenges in the Indian Banking Sector- Rising NPAs, need for recapitalisation, banking sector mergers, issues in credit flow to priority sectors

	<ul style="list-style-type: none"> • Role of the Reserve Bank of India (RBI)-Functions of the RBI as the central bank, monetary policy tools • Public-Private Partnerships (PPP) in Infrastructure-Meaning and types of PPP; advantages, limitations, and recent examples in India. • Contribution of the service sector to GDP and employment
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Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Module 1: Development Issues in India

Infographic / Poster Presentation – Visual poster on India as a Developing Economy, covering poverty, unemployment, inequality, and HDI/GDI with the latest data.

Module 2: Issues in Agriculture

Group Discussion / Problem-Solving Activity – Discussion on challenges in agricultural productivity, finance, and marketing; groups propose solutions to improve TPDS, price policy, and input subsidies.

Module 3: Issues in Industry and Trade

Case Study Analysis – Impact of Industrial Policy 1991, MSME challenges and measures, FDI case (telecom/automobile/retail), Evaluation of an SEZ in India, A Competition Act (2002) / CCI case

Module 4: Infrastructure and Service Sector

Crossword / Concept Puzzle – Puzzle based on PPP concepts, IT policy, service sector growth, and sustainability; followed by a short reflection.

External – 50 Marks

References:

- Puri, V. K., Misra, S. K., & Garg, B. (2024). *Indian Economy* (42nd ed.). Himalaya Publishing House. ISBN: 978-9358409994 [Sapna Online+1](#)
- Agrawal, A. N., & Agarwal, M. K. (2023). *Indian Economy: Problems of Development and Planning* (44th ed.). New Age International. ISBN: 978-9393159731
- Misra, S. K. & Puri, V. K. *Indian Economy: Its Development and Experience*. Himalaya Publishing House.
- Dutt, Ruddar & Sundaram, K. P. M. *Indian Economy*. S. Chand & Company.
- Uma Kapila (Ed.) *Indian Economy: Performance and Policies*. Academic Foundation.
- Gaurav Datt & Ashwani Mahajan. *Indian Economy*. S. Chand Publishing.
- Debraj Ray. *Development Economics*. Oxford University Press.
- Todaro, Michael & Smith, Stephen. *Economic Development*. Pearson Education.

Course Syllabus

Semester: V

5.5 -Minor Stream

Course Title	Business Law III
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Understand the key provisions of labour, arbitration, and competition laws and their relevance to business operations.2. Analyze legal issues in labour, arbitration, and competition law in business practices under the relevant statutes.3. Apply the provisions of labour, arbitration, and competition laws to practical business situations and case studies.4. Evaluate compliance, penalties, and effectiveness of regulatory authorities and dispute-resolution mechanisms under these laws.
Module 1 (Credit 1)	Occupational Safety, Health and Working Conditions Code, 2020
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none">• Understand the definitions and the key features of the OSH Code, 2020.• Analyze the statutory health, safety, and welfare obligations imposed on employers and employees.• Apply the legal provisions relating to special protections for women workers in business and industrial workplaces.• Evaluate the penalties, offences, and business implications of the OSH Code in ensuring legal compliance and workplace safety.
Content Outline	<ul style="list-style-type: none">• Definitions of employer, employee, contract labour and wages• Salient features of OSH code 2020• Benefits of the OSH Code• Duties of employer and employee Sec 6• Health, safety and welfare provisions.• Working hours and leave• Special provisions for women workers

	<ul style="list-style-type: none"> • Penalties and offences
Module 2 (Credit 1):	Industrial Relations Code, 2020
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Understand the introduction, applicability, and objectives of the Industrial Relations Code, 2020. • Analyze the procedures for settlement of industrial disputes, including the powers and duties of authorities. • Apply the legal provisions relating to strikes, lock-outs, layoff, retrenchment, and closure in business organizations. • Evaluate the offences, penalties, and business impact of the Code on industrial harmony and compliance
Content Outline	<ul style="list-style-type: none"> • Introduction and applicability of the code • Procedure for settlement of industrial disputes • Procedure, powers and duties of authorities • Strikes and lock-outs • Layoff, Retrenchment and closure special provisions • Offences and penalties
Module 3 (Credit 1):	Arbitration and Conciliation Act, 1996 (As amended up to 2021)
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Understand the concept of arbitration and conciliation under the Arbitration and Conciliation Act, 1996 (as amended up to 2021). • Analyze the powers and duties of arbitrators in dispute resolution. • Apply the process of conciliation to resolve disputes in industrial and commercial contexts. • Evaluate the effectiveness of arbitration and conciliation mechanisms as alternative dispute resolution methods under the Act.
Content Outline	<ul style="list-style-type: none"> • Concept of arbitration and conciliation • Definition and importance of arbitration • Powers and duties of the arbitrator

	<ul style="list-style-type: none"> • Process of conciliation and appointment of conciliators • Overview of major amendments to the Arbitration and Conciliation Act, 1996: amendments 2015, 2019, and 2021
Module 4 (Credit 1)	Competition Act, 2002 (As amendment up to 2023)
Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Understand the concept, objectives, and scheme of the Competition Act, 2002. • Analyze anti-competitive agreements, dominant position, and unfair pricing practices. • Apply the provisions of the Act to cases involving agreements and abuse of dominance. • Evaluate penalties, remedies, and the powers and functions of the CCI.
Content Outline	<ul style="list-style-type: none"> • Concept of competition and market regulation • Objectives, scope, and scheme of the Competition Act. • Differences between Horizontal and Vertical agreements • Abuse of dominant position • Unfair or discriminatory pricing • Penalties for contravention, remedies and modifications • Regulation of Combinations (Section 5 & 6) • Competition Commission of India (CCI): Powers, functions, and duties of CCI

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Sr. No	Activities	Marks
1	Project Report on any factory Occupational safety, Health and Working conditions.	15
2	Group Discussion/ Seminars/ Workshops/ Any other innovative methods: Industrial Relations Code, 2020	15
3	Presentations/ Case Study: Competition Act, 2002	10

4	Quiz/ Debate: Arbitration and Conciliation Act, 1996	10
	Total 50 Marks	50

External – 50 Marks

References:

- Bare Act. (2026). The occupational safety, health and working conditions code, 2020.
- Ghuge, S. (2025). Labour law and industrial relations – I. Himalaya Publishing House.
- Kapoor, N. D. (2022). Elements of mercantile law (36th ed.). Sultan Chand & Sons.
- Malik, S. B. (2017). Commentary on the arbitration and conciliation act. Universal Law Publishing.
- Singh, A. (2024). Law of arbitration and conciliation (S. Bindal, Rev.; 12th ed.). Eastern Book Company.
- Sinha, R. (2024). Arbitration in Indian & comparative jurisdictions. Commercial Law Publishers.
- Srivastava, S. C. (2020). Industrial relations and labour laws (6th ed.). Vikas Publishing House.

Course Syllabus

Semester: V

5.5 -Minor Stream

Course Title	Business Accounting III
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1.Understand Accounting for Not Profit Organizations.2.Understand Piecemeal Distribution of Cash.3.Understand the concepts of Issue of Debentures.4.Understand concepts of Human Resource Accounting and Auditing.
Module 1 (Credit 1)	Accounting for Not Profit Organization
Learning Outcomes (Specific related to the module)	After learning the module, learners will be able to
	<ul style="list-style-type: none">● Understand the meaning and features of Not for Profit Concerns● Know the meaning of Receipts and Payments Account● Understand the meaning of Income and Expenditure Account and its difference from Profit and Loss Account● Understand the difference between Profit and Not for profit Organizations● Learn to acquire the skills for preparing Income and Expenditure Account and Balance Sheet of Not for Profit Concern
Content Outline	Theory : Introduction, Meaning of Not for Profit Concern, Features of Not for Profit Concern. Problems on : Preparation of Income and Expenditure Account.
Module 2 (Credit 1)	Piecemeal Distribution of Cash

Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module)	<ul style="list-style-type: none"> • Understand the concept of piecemeal distribution of cash in partnership dissolution. • Apply the method to calculate safe payments and distribute cash among partners. • Solve basic accounting problems related to gradual realization of assets and partner settlement.
Content Outline	<ul style="list-style-type: none"> • Theory : Concept and Need of piecemeal distribution of cash, Method of Distribution – order of payments and calculation of safe payments. • Problems on : Simple Sums using Proportionate Capital Method
Module 3 (Credit 1)	Issue of Debentures
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module)	<ul style="list-style-type: none"> • state the meaning of debenture and explain the difference between debentures and shares; • describe various types of debentures; • record the journal entries for the issue of debentures at par, at a discount and at premium; • explain the concept of debentures issued for consideration other than cash and the accounting thereof;
Content Outline	<ul style="list-style-type: none"> • Theory : Introduction, Meaning of Debentures, Distinction between Shares and Debentures, Types of Debentures, Issue of Debentures. • Problems on : Basic Level Journal entries for issue of debentures.
Module 4 (Credit 1)	Human Resource Accounting and Auditing
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module)	<ul style="list-style-type: none"> • Describe the Human Resource Accounting Practices in India and explain the process and approaches of Human Resources Accounting and Audit. • Illustrate the significance of Human Resource Auditing as a Tool of Human Resource Valuation.

	<ul style="list-style-type: none"> • Describe and illustrate the concepts related to human resource accounting.
Content Outline	<ul style="list-style-type: none"> • Human Resource Accounting: An Overview Meaning, Need and Objectives of HR Accounting, Advantages and Limitations of Human Resource Accounting, Reporting of Human Resource Accounting at National Levels. Methods and Human Resource Accounting Practices in India Methods of Human Resource Accounting: 1. Cost of Production Approach i. Historical Cost Model ii. Replacement Cost Model iii. Opportunity Cost • Human Resource Audit: An Overview Human Resource Audit - Meaning, Features, Objectives of HR Audit Benefits and limitations of HR Audit Need and Significance of HR Audit, Process of HR Audit, Approaches of HR Audit, Principles of Effective HR Auditing, Role of HR Auditor, Methods of conducting HR Audit Interview, Workshop, Observation, Questionnaire., Components of HR Audit.

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE):

Internal –50 Marks

Sr. No.	Assignments / Activities
1	Project Report
2	Group Discussion / Case Study Analysis
3	Presentations/Seminars/Workshop
4	Quiz/Debate/Any other innovative methods
	Total – 50 Marks

External –50 Marks

References:

- Hanif, M., & Mukherjee, A. (2024). *Financial accounting* (6th ed.). McGraw Hill.
- Saeed, M., & Kulshreshtha, D. K. (2024). *Human resource accounting*. Anmol Publications.

- Tulsian, P. C. (2022). *Financial accounting*. Pearson Education.
- Ainapure, V. (2024). *Advanced accounting*. Manan Prakashan.
- Choudhary, A. (2024). *Corporate accounting*. Sheth Publishers.
- Gupta, R. L., & Radhaswamy, M. (2014). *Advanced accountancy* (11th ed.). Sultan Chand & Sons.
- Kishnadwala, J. (2024). *Financial accountancy & management*. Vipul Prakashan.
- Shukla, M. C., & Grewal, T. S. (2023).

Course Syllabus
Semester: V
5.5 – Minor Stream

Course Title	Social Entrepreneurship
Course Credits	4
Course Outcomes	After going through the course, learners will be able to 1. Understand social entrepreneurship. 2. Identify social problems and opportunities. 3. Know social enterprise models and strategies. 4. Use innovation and measure social impact.
Module 1 (Credit 1) - Introduction to Social Entrepreneurship	
Learning Outcomes (Specific related to the module)	After learning the module, learners will be able to <ul style="list-style-type: none"> • Define social entrepreneurship. • Explain characteristics of social entrepreneurs. • Differentiate social and commercial entrepreneurship.
Content Outline	<ul style="list-style-type: none"> • Meaning and concept of social entrepreneurship • Nature and characteristics of social entrepreneurs • Difference between social and commercial entrepreneurship • Role of social entrepreneurs in society • Need and importance of social entrepreneurship
Module 2 (Credit 1) Social Problems and Entrepreneurial Opportunities	
Learning Outcomes (Specific related to the module)	After learning the module, learners will be able to <ul style="list-style-type: none"> • Identify major social, economic, and environmental problems. • Analyze social issues for entrepreneurial solutions. • Recognize opportunities in underserved communities.
Content Outline	<ul style="list-style-type: none"> • Meaning of social, economic, and environmental problems • Major societal problems: poverty, unemployment, lack of education & gender inequality and women empowerment

	<ul style="list-style-type: none"> • Identification of social problems suitable for entrepreneurial solutions • Opportunities for social entrepreneurship in underserved communities • Social entrepreneurship and community development
Module 3 (Credit 1) Social Enterprise Models and Strategies	
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module)	<ul style="list-style-type: none"> • Identify types of social enterprises. • Explain major social enterprise business models. • Understand financial and social sustainability of enterprises.
Content Outline	<ul style="list-style-type: none"> • Types of social enterprises • Business models for social enterprises - Fee-for-Service Model, Cross-Subsidy Model, Market-Linkage Model, Employment-Based Model & Hybrid Revenue Model • Value proposition and stakeholders • Financial and social viability for Social Enterprises
Module 4 (Credit 1) Innovation, Technology, and Social Impact	
Learning Outcomes	After learning the module, learners will be able to
(Specific related to the module)	<ul style="list-style-type: none"> • Explain the role of innovation in social entrepreneurship. • Use technology and digital platforms for social solutions. • Measure and scale social impact.
Content Outline	<ul style="list-style-type: none"> • Role of innovation in social entrepreneurship • Use of technology and digital platforms • Measuring and evaluating social impact • Scaling social impact - replication and expansion

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Sr. No	Activities	Marks
1	Assignment on Concept and role of social entrepreneurship	10
2	Group Discussion / Case Study Analysis on Identification of social problems suitable for social entrepreneurship	15
3	Project Report on Analysis of business models of social enterprises	15

4	PPT Presentations/Seminars/Workshop Role of innovation and technology in social enterprises	10
	Total – 50 Marks	50

External – 50 Marks

References –

- Bansal, R. (2011). I have a dream: The inspiring stories of 20 social entrepreneurs who found new ways to solve old problems. Westland.
- Bhatia, A. (2025). Social entrepreneurship: A catalyst for change. Imperial Publications.
- Bornstein, D. (2007). How to change the world: Social entrepreneurs and the power of new ideas. Oxford University Press.
- Bornstein, D., & Davis, S. (2010). Social entrepreneurship: What everyone needs to know. Oxford University Press.
- Kickul, J. R., & Lyons, T. S. (2020). Understanding social entrepreneurship: The relentless pursuit of mission in an ever-changing world (3rd ed.). Rout ledge.
- Pandey, N., & Sahay, A. (2021). Social entrepreneurship in India. Palgrave Macmillan.
- Prahalad, C. K. (2004). The fortune at the bottom of the pyramid: Eradicating poverty through profits. Wharton School Publishing.
- Ragavan, S. (2023). Social entrepreneurship. REST Publisher.
- Shukla, M. (2020). Social entrepreneurship in India: Quarter idealism and a pound of pragmatism. Sage Publications.
- Yunus, M. (2010). Building social business: The new kind of capitalism that serves humanity's most

Course Syllabus

Semester: V

5.6 – Major (VSC)

Course Title	Android App Development
Course Credits	2
Course Outcomes	After completing this course, students will be able to:
	<ol style="list-style-type: none">1. Students will be able to explain the fundamental concepts of mobile application development.2. Students will be able to describe the architecture, features, and components of the Android platform.3. Students will be able to analyze the scope and applications of Android-based mobile solutions in real-world scenarios.
Module 1	Fundamentals of Android
Learning Outcomes	After learning this module, learners will be able to
	<ul style="list-style-type: none">• Understand the fundamentals of mobile application development and explain the architecture, features, and components of the Android operating system.• Describe the Android project structure, activity lifecycle, and basic UI layouts and widgets used in Android applications.
Content Outline	<ol style="list-style-type: none">1. Introduction to Mobile Application Development2. Android OS overview & features3. Android Architecture:<ol style="list-style-type: none">a. Linux Kernelb. Librariesc. Android Runtimed. Application Framework4. Android Versions & SDK & AVD5. Android Studio overview6. Android Project Structure

	<ol style="list-style-type: none"> 7. Activity & Activity Lifecycle 8. Views & ViewGroups 9. Layouts: <ol style="list-style-type: none"> a. Linear Layout b. Relative Layout c. Constraint Layout 10. Basic UI Widgets: <ol style="list-style-type: none"> a. TextView b. EditText c. Button d. ImageView
Module 2	Application Development & Data Management
Learning Outcomes	After completing this module, learners will be able to
	<ul style="list-style-type: none"> • Understand Android application components, activity navigation, intents, and fragments. • Design simple Android applications with basic UI, develop multi-activity apps, pass data using intents, and manage data using SharedPreferences and SQLite.
Content Outline	<ol style="list-style-type: none"> 1. Android Application Components (Overview) 2. Activities and Activity Navigation 3. Intents: <ol style="list-style-type: none"> a. Explicit Intent b. Implicit Intent 4. Multiple Activity Applications 5. Introduction to Fragments 6. Data Management in Android: <ol style="list-style-type: none"> a. SharedPreferences b. SQLite Database (Basic concepts) 7. Android Permissions 8. Android Notifications

	<p>9. PRACTICAL:</p> <ol style="list-style-type: none"> a. Hello World Android Application. b. Design a basic user interface using layouts and UI widgets such as TextView, EditText, Button, and ImageView. c. Develop a multi-activity application using Explicit Intent. d. Pass data between activities using Intent.
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Activities towards Comprehensive Continuous Evaluation (CCE)

Internal : 50 Marks

Assignments/ Practicals / Quizzes/ projects/ Report writings/ Flip classroom/ presentations/Class Tests and so on, any of these evaluation methods can be used for the above modules. Minimum three types are required to be used for effective CCE

References:

1. Horton, J. (2019). *Android programming with Kotlin for beginners*. Packt Publishing.
2. Sills, B., Stewart, C., Marsicano, K., & Gardner, B. (2021). *Android programming: The Big Nerd Ranch guide* (4th ed.). Big Nerd Ranch Guides.
3. Sommerhoff, P. (2019). *Kotlin for Android app development*. Packt Publishing.
4. Griffiths, D., & Griffiths, D. (2017). *Head first Android development*. O'Reilly Media.
5. Burton, M. (2015). *Android app development for dummies* (2nd ed.). Wiley Publishing.
6. Kodeco Team. (2022). *Android fundamentals by tutorials*. Kodeco.
7. Phillips, B., Stewart, C., & Marsicano, K. (2018). *Android Studio development essentials: Kotlin edition*. Big Nerd Ranch Guides.
8. Mednieks, Z., Dornin, L., Meike, G. B., & Nakamura, M. (2012). *Exploring Android*. CommonsWare.
9. Burton, M. (2017). *Android app development for dummies* (3rd ed.). Wiley Publishing.

COURSE SYLLABUS

SEMESTER: V

5.7 FP

Course Title	Field projects in Computer Application
Course Credits	4
Course Outcomes	After going through the course, learners will be able to <ol style="list-style-type: none">1. Apply theoretical knowledge of computer applications to real-world problems.2. Design and implement practical, community-oriented software solutions.3. Develop project management, teamwork, and problem-solving skills.4. Analyze, document, and present field project outcomes effectively.
Module 1 (Credit 1)	Project Planning & Development
Learning Outcomes	After learning the module, learners will be able to Students will be able to: <ul style="list-style-type: none">• Identify real-life problems in communities• Prepare simple project proposals• Design and develop basic applications
Content Outline	<ul style="list-style-type: none">• Problem identification and requirement analysis• Project planning (objectives, scope, timeline)• Basics of web application development• Introduction to database design• Simple application development (school, small business, etc.)
Module 2 (Credit 1)	Implementation, Analysis & Presentation
Learning Outcomes	After learning the module, learners will be able to <ul style="list-style-type: none">• Implement and test basic applications• Analyze project data• Present project work effectively

Content Outline	<ul style="list-style-type: none"> • Basic testing and deployment • Introduction to data analysis • Project evaluation techniques • Report writing and documentation • Project presentation and viva preparation
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Rubrics for Evaluation of Field Project Work

Sr. No	Type of Evaluation	Criteria for Evaluation	Marks Obtained	Total
1.	Field Project Work (25) Internal Assessment (To be filled by Internal Examiner)	A) Field Project Work (15)		
		1) Conceptual Framework (5)		
		2) Relevance (5)		
		3) Methodology (5)		
		B) Skills (10)		
		1) Analytical (3)		
		2) Problem Solving (3)		
		3) Professional Judgement (4)		
2.	Project Report Presentation and Viva (25) Internal Assessment (To be filled by Internal Examiner)	A) Project Report (15)		
		1) Content (4)		
		2) Analysis and Interpretation of the data (7)		
		3) Presentation and Layout of the Report (4)		
		B) Presentation (5)		
		C) Project Viva (5)		
		Total		

**B.COM IN COMPUTER APPLICATIONS
SEMESTER VI**

ACADEMIC YEAR: 2026-27

Course Syllabus

Semester: VI

6.1– Major (Core)

Course Title	Advanced Python Programming
Course Credits	4 Credits
Course Outcomes	After going through the course, learners will be able to <ul style="list-style-type: none">• Explain advanced Python programming concepts and their applications in software development.• Apply advanced data handling techniques and functional programming features in Python.• Develop Python programs using database connectivity, regular expressions, and multithreading.• Design applications using graphical user interfaces and web-based Python frameworks.• Develop and deploy small-scale Python applications following best programming practices.
Module 1 (Credit 1):	Advanced Python Programming Concepts
Learning Outcomes	After learning the module, learners will be able to <ul style="list-style-type: none">• Apply advanced Python language features lambda functions, comprehensions, and decorators for efficient programming.• Use Apply functional programming concepts for concise and efficient python code.• Use generators and iterators to optimize memory usage.
Content Outline	<ol style="list-style-type: none">1. Review of core Python concepts2. Lambda functions

	<ol style="list-style-type: none"> 3. Map, filter, and reduce functions 4. List, dictionary, and set comprehensions 5. Iterators and generators 6. Decorators 7. Python coding standards and best practices
Module 2 (Credit 1):	Regular Expressions and Database Connectivity.
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Use regular expressions for pattern matching and text processing. • Perform pattern matching and data validation using the module. • Connect Python programs with databases. • Perform basic CRUD operations using Python and relational databases.
Content Outline	<ol style="list-style-type: none"> 1. Introduction to regular expressions. 2. Regular expression syntax and functions. 3. Pattern matching using re module. 4. Introduction to databases. 5. Python database connectivity (SQLite/MySQL). 6. CRUD operations using Python. 7. Programs using database connectivity.
Module 3 (Credit 1):	Multithreading and Networking in python.
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Implement multithreading concepts in Python. • Develop simple client-server applications using python network based programming.
Content Outline	<ol style="list-style-type: none"> 1. Introduction to processes and threads 2. Multithreading concepts. 3. Thread lifecycle.

	<ol style="list-style-type: none"> 4. Thread synchronization. 5. Introduction to networking. 6. Socket programming basics. 7. Client-server communication using Python
Module 4 (Credit 1):	GUI Programming and Web Applications Development
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Design graphical user interfaces using Python GUI libraries. • Handle user events and layout management in GUI applications. • Apply the architecture of Python web frameworks. • Create basic web applications using Python frameworks. • Integrate frontend and backend logic in Python-based applications.
Content Outline	<ol style="list-style-type: none"> 1. Introduction to GUI programming. 2. Tkinter widgets and layouts. 3. Event handling. 4. Building simple GUI applications. 5. Introduction to web frameworks. 6. Overview of Flask/Django. 7. Developing simple Python-based web applications. 8. Mini project / case study.

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal : 50 Marks

Assignments/ Practicals / Quizzes/ projects/ Report writings/ Flip classroom/ presentations/Class Tests and so on, any of these evaluation methods can be used for the above modules. Minimum three types are required to be used for effective CCE

External : 50 Marks

References:

- Thareja, R. (2019). *Python programming using problem solving approach*. Oxford University Press.
- Balagurusamy, E. (2017). *Programming with Python*. McGraw-Hill Education.
- Lutz, M. (2013). *Learning Python* (5th ed.). O'Reilly Media.
- Barry, P. (2016). *Head first Python* (2nd ed.). O'Reilly Media.
- Phillips, D. (2018). *Python 3 object-oriented programming* (3rd ed.). Packt Publishing.
- Python Software Foundation. (n.d.). *Python documentation*. <https://docs.python.org>

Course Syllabus

Semester: VI

6.2– Major Core

Course Title	Artificial Intelligence and Machine Learning
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Understand AI and ML concepts and their applications2. Apply machine learning algorithms to solve problems3. Evaluate and improve model performance4. Understand deep learning and NLP basics5. Use AI in business decision-making
Module 1 (Credit 1)	AI Foundations and Applications
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to
	<ul style="list-style-type: none">● Explain the concept, scope and evolution of AI● Differentiate between AI, ML and Data Science● Identify real-world applications of AI in business● Understand intelligent agents and their working● Apply basic problem-solving techniques in AI● Recognize ethical and social issues in AI
Content Outline	<ul style="list-style-type: none">● Introduction to Artificial Intelligence● AI vs ML vs Data Science● AI applications (banking, marketing, e-commerce)● Intelligent agents● Search techniques (BFS, DFS, heuristic)● Ethics in AI
Module 2 (Credit 1)	Machine Learning Basics
Learning Outcomes	After learning the module, learners will be able to

Module 4 (Credit 1)		Deep Learning, NLP & Applications	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to		
	<ul style="list-style-type: none"> ● Understand neural networks and deep learning basics ● Explain NLP techniques ● Identify AI applications in various industries ● Understand ethical issues and future trends in AI 		
Content Outline	<ul style="list-style-type: none"> ● Artificial Neural Networks (ANN) ● Deep Learning and DNN ● Backpropagation (intro) ● NLP (tokenization, stemming, TF-IDF) ● AI applications (finance, marketing, HR, retail) ● Ethics, privacy and future of AI 		

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Sr. No	Activities	Marks
1	Project Report / Test	15
2	Group Discussion / Case Study Analysis	15
3	PPT Presentations/Seminars/Workshop/ Any other innovative methods	10
4	Quiz/Debate	10
	Total – 50 Marks	50

External – 50 Marks

References:

1. Pierson, L. (2017). *AI for dummies*. John Wiley & Sons.
2. Theobald, O. (2017). *Machine learning for absolute beginners*. Scatterplot Press.
3. Brownlee, J. (2016). *Machine learning for beginners*. Machine Learning Mastery.
4. Grus, J. (2019). *Introduction to data science*. O'Reilly Media.

5. Brownlee, J. (n.d.). *Deep Learning for Beginners*. (Note: exact publication details not widely published online — may be self-published or available through Machine Learning Mastery.)
6. Géron, A. (2019). *Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow* (2nd ed.). O'Reilly Media.

Course Syllabus

Semester: VI

6.3 – Major (Core)

Course Title	Data Science
Course Credits	2 Credits
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Understand basic concepts and scope of Data Science.2. Identify types of data and sources used in real-world applications.3. Perform basic data exploration and visualization.4. Explain introductory machine learning concepts.
Module 1 (Credit 1)	Basics of Data Science and Data Handling
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none">• Explain fundamental concepts of Data Science• Identify basic data types and sources• Understand data quality issues• Perform simple data exploration tasks
Content Outline	<ol style="list-style-type: none">1. Introduction to Data Science:<ol style="list-style-type: none">a. Concept, meaning, and scopeb. Applications in business, healthcare, and education2. Data Science vs Data Analytics vs Artificial Intelligence3. Data types:<ol style="list-style-type: none">a. Structured and unstructured data4. Data sources:<ol style="list-style-type: none">a. Primary and secondary data5. Basics of data quality:<ol style="list-style-type: none">a. Missing values

	<ul style="list-style-type: none"> b. Noise and outliers <p>6. Introduction to data handling using Python:</p> <ul style="list-style-type: none"> a. Overview of NumPy and Pandas <p>7. Basic Exploratory Data Analysis (EDA):</p> <ul style="list-style-type: none"> a. Dataset understanding b. Simple descriptive statistics
Module 2 (Credit 1)	Data Visualization and Introduction to Machine Learning
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Visualize data using basic graphs • Interpret visualized data • Explain fundamental machine learning concepts • Identify simple evaluation measures
Content Outline	<ol style="list-style-type: none"> 1. Data visualization: <ul style="list-style-type: none"> a) Importance of visualization b) Basic charts: bar, line, and histogram c) Introduction to Matplotlib 2. Introduction to Machine Learning: <ul style="list-style-type: none"> a) Concept and need b) Traditional programming vs Machine Learning 3. Types of Machine Learning: <ul style="list-style-type: none"> a) Supervised and unsupervised learning 4. Overview of basic techniques: <ul style="list-style-type: none"> a) Linear regression (concept only) b) Classification (concept only) c) Clustering (K-means concept) 5. Basic model evaluation: <ul style="list-style-type: none"> a) Accuracy and error (introductory idea)

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal : 50 Marks

Assignments/ Practicals / Quizzes/ projects/ Report writings/ Flip classroom/ presentations/Class Tests and so on, any of these evaluation methods can be used for the above modules. Minimum three types are required to be used for effective CCE

Reference Books :

1. General Data Science & Foundations

Dhar, V. (2013). *Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking*. O'Reilly Media.

2. Python for Data Handling & Basics

McKinney, W. (2017). *Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython* (2nd ed.). O'Reilly Media.

3. Data Visualization

VanderPlas, J. (2016). *Python Data Science Handbook: Essential Tools for Working with Data*. O'Reilly Media.

4. Introductory Machine Learning Concepts

Alpaydin, E. (2020). *Introduction to Machine Learning* (4th ed.). MIT Press.

Course Syllabus

Semester: VI

6.4:Major (Elective)

Course Title	Software Project
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Identify real-life problems and propose software-based solutions2. Apply SDLC phases in software development3. Design efficient system architecture and databases4. Develop, test, and deploy software applications5. Prepare technical documentation and present project work effectively
Module 1 (Credit 1)	Project Identification & Planning
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none">• Students will be able to define software project requirements, objectives, and scope.• Students will be able to plan a software project by preparing timelines, resources, and basic documentation.
Content Outline	<ol style="list-style-type: none">1. Introduction to Software Projects2. Problem identification and feasibility study3. Project selection (individual/group)4. Software Requirement Specification (SRS)5. Project planning and scheduling (Gantt chart)
Module 2 (Credit 1)	System Analysis & Design
Learning Outcomes	After learning the module, learners will be able to

	<ul style="list-style-type: none"> • Students will be able to design a complete system model using appropriate modeling techniques and tools. • Students will be able to represent system requirements through structured diagrams such as UML, DFDs, or flowcharts.
Content Outline	<ol style="list-style-type: none"> 1. Functional and non-functional requirements 2. Use case diagrams and UML overview 3. Data Flow Diagrams (DFD) 4. Database design (ER diagrams, normalization) 5. User Interface (UI) design principles
Module 3 (Credit 1)	Implementation & Testing
Learning Outcomes	<ul style="list-style-type: none"> • Students will be able to implement a working software system using appropriate programming tools and technologies. • Students will be able to test and validate the software system to ensure functionality, correctness, and reliability.
Content Outline	<ol style="list-style-type: none"> 1. Selection of tools, technologies, and platforms 2. Coding standards and best practices 3. Frontend and backend integration 4. Unit testing and system testing 5. Debugging and performance optimization
Module 4 (Credit 1)	Deployment, Documentation & Presentation
Learning Outcomes	<ul style="list-style-type: none"> • Students will be able to deploy a software project and prepare clear technical documentation. • Students will be able to present their project professionally, demonstrating functionality, design, and outcomes.
Content Outline	<ol style="list-style-type: none"> 1. Deployment strategies 2. User manual and technical documentation 3. Project report writing, Presentatio, and Viva 4. Presentation skills and project demonstration 5. Ethical issues and plagiarism awareness

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Sr. No	Activities	Marks
1	Project Report / Test	15
2	Group Discussion / Case Study Analysis	15
3	PPT Presentations/Seminars/Workshop/ Any other innovative methods	10
4	Quiz/Debate	10
	Total – 50 Marks	50

External – 50 Marks

References:

1. Pressman, R. S. (2014). *Software engineering: A practitioner's approach* (8th ed.). McGraw-Hill Education.
2. Sommerville, I. (2016). *Software engineering* (10th ed.). Pearson.
3. IEEE. (n.d.). *IEEE software project documentation standards*. IEEE.
4. Various authors. (n.d.). *Online resources and open-source documentation*

Course Syllabus

Semester: VI

6.5 -Minor Stream

Course Title	Public Finance
Course Credits	4
Course Outcomes	After going through the course, learners will be able to 1. Provide learners with a foundational understanding of the meaning, scope, and functions of public finance. 2. Develop knowledge of public revenue, taxation principles, tax incidence, and major tax reforms in India. 3. Explain the nature, growth, effects, and management of public expenditure and public debt. 4. Enable learners to understand Centre–State financial relations, including sharing of resources and the role of constitutional bodies.
Module 1 (Credit 1) Meaning & Scope of Public Finance	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to <ul style="list-style-type: none">• Define public finance and describe its scope and objectives.• Explain the Principle of Maximum Social Advantage.• Distinguish between public goods and merit goods.• Interpret the structure of the government budget and deficit concepts.
Content Outline	<ul style="list-style-type: none">• Definition and concept of public finance-Concept and scope of public finance, Role of government in economic activities.• Objectives of public finance: allocation, distribution, stabilization• Principle of Maximum Social Advantage (Dalton)-Concept, Conditions for achieving maximum welfare.• Public Goods and Merit Characteristics of public goods, Nature and importance of merit goods.• Budget—meaning, objectives, structure of budget; Deficit concepts

Module 2 (Credit 1) Public Revenue	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to
	<ul style="list-style-type: none"> ● Differentiate between tax and non-tax revenue. ● Explain the canons and classification of taxes. ● Analyse shifting and incidence of taxation, including elasticity. ● Describe the effects of taxation and the significance of GST.
Content Outline	<ul style="list-style-type: none"> ● Types of Public Revenue-Tax and Non-Tax Revenue ● Canons and Classification of Taxes-Canons of taxation, Classification of taxes—Direct, Indirect, Proportional, Progressive, Regressive ● Shifting and Incidence of Taxation—Impact and Incidence, Factors influencing incidence, Role of elasticity of demand and supply ● Effects of taxation- production, distribution, and consumption ● Tax reforms in India—GST: meaning, features, and significance
Module 3 (Credit 1) Public Expenditure and Public Debt	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to
	<ul style="list-style-type: none"> ● Classify public expenditure and explain reasons for its growth. ● Evaluate the economic and social effects of public expenditure. ● Distinguish between internal and external public debt. ● Describe the burden of public debt and methods of repayment.
Content Outline	<ul style="list-style-type: none"> ● Classification and Growth of Public Expenditure: Classification of public expenditure, Causes of increasing public expenditure ● Effects of Public Expenditure: Production, Distribution, Consumption, Economic Growth, Economic Stability ● Classification of Public Debt: Internal Debt and External Debt ● Burden of Public Debt-Burden of internal debt, Burden of external debt ● Methods of Repayment of Public Debt-Techniques and approaches used for debt repayment

Module 4 (Credit 1) Centre–State Financial Relations	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to <ul style="list-style-type: none"> • Explain the constitutional division of powers between Centre and States. • Describe how financial resources are shared between governments. • Explain the role and functions of the Finance Commission. • Discuss major issues in Centre–State financial relations, including imbalances and GST Council coordination.
Content Outline	<ul style="list-style-type: none"> • Constitutional Division of Powers-Union, State, and Concurrent Lists, Sharing of tax revenue between the Centre and States. • Finance Commission-Constitutional role, Basic functions: recommending tax devolution and grants. • Grants-in-Aid-Financial support from the Centre to States to meet special needs and reduce regional imbalances. • Issues in Centre–State Financial Relations-Vertical and horizontal imbalances, dependence on Central transfers, and the coordinating role of the GST Council.

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Module 1: Meaning & Scope of Public Finance

Activity: Infographic / Concept Poster– Students will prepare a visual infographic or poster

- Meaning and scope of public finance
- Structure of the budget and key deficit concepts

Module 2: Public Revenue

Activity: Taxation-Based Group Discussion / Problem-Solving Exercise

- Groups will discuss and present solutions on:

- Designing an equitable tax system using canons of taxation
- Distinguishing direct, indirect, proportional, progressive, and regressive taxes

Module 3: Public Expenditure and Public Debt

Activity: Case Study Analysis– Students analyse a short case covering:

- Growth of public expenditure and its causes
- Effects of government spending on economic and social development
- Methods used or recommended for debt repayment

Module 4: Centre–State Financial Relations

Activity: Short Analytical Assignment

- How the Constitution divides financial powers between the Centre and States
- How the Finance Commission distributes revenue
- Grants-in-Aid and their role in reducing regional imbalances

External – 50 Marks

References:

- Mishra, S. K., & Puri, V. K. (2008). Indian economy. Himalaya Publishing House.
- Dutt, R., & Sundaram, K. P. M. (2007). Indian economy. S. Chand & Company Ltd.
- Agrawal, A. N. (2006). Indian economy: Problems of development and planning. New Age International Publishers.
- Tandon, B. N. (Year not specified). Indian economy. Tata McGraw-Hill. (Note: Insert specific edition/year if available.)
- India Infrastructure Report 2007/2008. (2008). India infrastructure report. Oxford University Press.
- Jetli, K. N., & Sethi, V. (2008). Infrastructure development in India: Post-liberalisation initiatives and challenges. New Century Publications.
- Dewett, K. K., Verma, J. D., & Agrawal, A. N. (2005). Indian economy. S. Chand & Company Ltd.

- Kapila, U. (Ed.). (2011). Indian economy since independence. Academic Foundation.
- Sahu, R., & Rodricyes, K. (2010). Indian economy: Problems. Himalaya Publishing House.
(Replace with exact year if you have updated edition).

Course Syllabus

Semester: VI

6.5 -Minor Stream

Course Title	Business Law IV
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Understand the legal framework governing business activities and the regulatory mechanisms affecting business organizations.2. Analyze the legal framework of business laws in India, including GST provisions and their impact on business operations and compliance.3. Apply the provisions of the Information Technology Act, 2000 in business practices, including compliance with cyber law regulations.4. Evaluate the legal framework governing e-contracts in e-commerce including compliance, issues and their impact on electronic business transactions.
Module 1 (Credit 1):	Right to Information Act, 2005
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none">• Understand the meaning, objectives, scope, and applicability of the Right to Information Act, 2005.• Analyze the provisions relating to proactive disclosure, exemptions under RTI, and the role of transparency in governance.• Apply the RTI application procedure, including filing requests, time limits, and appeal mechanisms.• Evaluate the powers and functions of the Central and State Information Commissions in ensuring accountability.
Content Outline	<ul style="list-style-type: none">• Introduction of RTI Act 2005 Meaning. Objectives• Scope and applicability• Proactive disclosure (section 9)• RTI Application Procedure• Exemptions under RTI

	<ul style="list-style-type: none"> • Central, State Information commission powers and functions • Appeals and penalties • Role of RTI in governance
Module 2 (Credit 1): Goods and Services Tax (GST), 2017	
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Understand the concept of Goods and Services Tax (GST) in India, and the role of the GST Council. • Apply GST provisions in business, including registration and supply determination. • Analyze the GST framework, including CGST and SGST, and its impact on indirect taxation. • Evaluate the GST Council's effectiveness in promoting uniformity, transparency, and ease of business.
Content Outline	<ul style="list-style-type: none"> • Introduction to GST and Meaning of GST • Need of GST in India • Features and structure of GST in India • Registration Procedure under GST • Nature, Place, Value of supply • Features of CGST & SGST • Role and function of GST council
Module 3 (Credit 1): Information Technology Act, 2000	
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Understand the concept of Information Technology Act, electronic governance framework, and secure electronic records. • Apply the concepts of digital signatures, and use of digital signatures in electronic transactions. • Analyze the regulatory framework and duties of Certifying Authorities. • Evaluate cyber offences under the Information Technology Act.
Content Outline	<ul style="list-style-type: none"> • Introduction to Information Technology Act 2000 • Digital/Electronic signature meaning and definition and functions

	<p>IT Act 2000, Section 3</p> <ul style="list-style-type: none"> • Electronic Governance section 4 to 10 • Digital signature certificate Sec. 35 to 39 • Protection of personal information (Section 43-A) • Protection of personal information - Crime and Punishment.
Module 4 (Credit 1)	E-Contracts (E-Transactions / E-Commerce)
Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Understand the legal framework of e-contracts in e-commerce. • Apply and execution of e-contracts in electronic transactions. • Analyze and examine the legal issues involved in e-contracts such as validity, jurisdiction, security, and enforceability. • Evaluate legal and compliance challenges in e-contracts, and the effectiveness of existing e-commerce laws.
Content Outline	<ul style="list-style-type: none"> • E-Commerce: Meaning, definition and characteristics, significance, nature, elements of e-commerce, various kinds of e-commerce • E-Contracts: Meaning and definition, formation and legality and recognition of e-contract, legal issues involved in e-contracts. • E-Records: Attribution, Acknowledgement and dispatch of e-records

Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Sr. No	Activities	Marks
1	Project Report on Information Technology Act, 2000	15
2	Group Discussion/ Seminars/ Workshops/ Any other innovative methods: Goods and Services Tax (GST) Act, 2017	15
3	Presentations/ Case Study: E-Contracts	10
4	Quiz/ Debate: Right to Information Act 2005	10
	Total 50 Marks	50

External – 50 Marks

References:

- Chakraborty, R. (2025). *Commentary on the Right to Information Act, 2005* (3rd ed.). Kamal Publishers.
- Acharya, N. K. (2025). *Commentary on the Right to Information Act, 2005*. Bharat Publishers.
- Sharma, P. (2021). *E-Commerce Law in India: Issues and Challenges*. Taxmann Publications.
- Singhania, V. (2021). *GST Law & Practice*. Taxmann Publications.
- Goyal, S. (2021). *GST in India: Law, Practice & Compliance*. Universal Law Publishing.
- Goel, S. (2020). *Information Technology Law and Practice*. Bharat Law House.
- Gupta, S. (2020). *E-Contracts and Online Transactions: Law and Practice*. Universal Law Publishing.
- Sharma, R. (2018). *Information Technology Act 2000 with Amendments*. Universal Law Publishing.
- Rai, M. (2018). *Electronic Contracts and Digital Signatures: Legal Perspectives*. Eastern Book Company.

Course Syllabus

Semester: VI

6.5 -Minor Stream

Course Title	Business Accounting IV
Course Credits	4
Course Outcomes	After going through the course, learners will be able to 1. Understand transactions under Foreign Currency. 2. Understand the concepts of Insurance Claim for Loss of Stock. 3. Understand the fundamentals of Redemption of Debentures. 4. Understand Accounting in a Computerized Environment.
Module 1 (Credit 1)	Foreign Currency Transactions
Learning Outcomes (Specific related to the module)	After learning the module, learners will be able to <ul style="list-style-type: none">● Understand foreign currency transactions related to purchase and sale of goods, services, assets, and loans.● Identify and apply appropriate exchange rates for recognition, settlement, and reporting of transactions.● Compute exchange rate differences arising from monetary and non-monetary items.● Record and explain the accounting treatment of exchange gains and losses as per AS 11 / Ind AS 21.● Analyze the impact of exchange rate fluctuations on profit or loss and financial statements.
Content Outline	<ul style="list-style-type: none">● Theory : Foreign Currency in relation to purchase and sale of goods, services and assets and loan and credit transactions.● Problems on : Computation and treatment of exchange rate differences
Module 2 (Credit 1)	Insurance Claim for Loss of Stock

Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Understand & Compute the amount of claim for loss of Stock
Content Outline	<ul style="list-style-type: none"> • Theory : Meaning, Need and Advantages of Fire Insurance-Special terminologies in Fire Insurance Claims Insurer/Insurance Company, Insured/Policyholder, Premium, Salvage, Insurance Policy, Sum Assured, Under Insurance, Average Clause, Claim. • Problems on : Simple Sums on Ascertainment of Fire Insurance Claim (Excluding abnormal line of goods).
Module 3 (Credit 1) Redemption of Debentures	
Learning Outcomes (Specific related to the module)	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Understand the concept of debentures and explain the provisions of Section 71 (1) and (4) of the Companies Act, 2013 relating to their issue and redemption. • Explain the creation, investment, and utilization of Debenture Redemption Reserve (DRR) as per the Companies Act, 2013 and the Companies (Share Capital and Debentures) Rules, 2014. • Apply appropriate methods for writing off discount or loss on issue of debentures. • Analyze and account for different methods of redemption of debentures—by lump sum, by instalments, and by conversion
Content Outline	<ul style="list-style-type: none"> • Theory : Introduction : Provisions of Section 71 (1) and (4) of the Companies Act, 2013, Creation and investment of DRR including The Companies (Share Capital and Debentures) Rules, 2014, the methods of writing-off discount/loss on issue of debentures; Terms of issue of debentures • Problems on: Methods of redemption of debentures: By payment in lump sum and by payment in instalments

	(excluding from by purchase in open market), Conversion. (basic Questions on journal entries)
Module 4 (Credit 1)	Accounting in Computerized Environment
Learning Outcomes (Specific related to the module)	After learning the module, learners will be able to <ul style="list-style-type: none"> • Understand the computerized Accounting and its components • Understand features, importance and limitations of computerized accounting system • Learn application of computerized accounting statements • Learn various accounting packages
Content Outline	<ul style="list-style-type: none"> • Concept of Computerized Accounting system (CAS) • Features of computerized Accounting System. • Importance of Computerized Accounting System. • Components of Computerized Accounting System. • Comparison between manual accounting process and Computerized accounting process. • Sourcing of Accounting Software: Legal Vs. Pirated Accounting Software

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE):

Internal –50 Marks

Sr. No.	Assignments / Activities
1	Project Report
1	Group Discussion / Case Study Analysis
2	Presentations/Seminars/Workshop
3	Quiz/Debate/Any other innovative methods
	Total – 50 Marks

External –50 Marks

References:

- Hanif, M., & Mukherjee, A. (2024). *Financial accounting* (6th ed.). McGraw Hill.

- Tulsian, P. C. (2022). *Financial accounting*. Pearson Education.
- Ainapure, V. (2024). *Advanced accounting*. Manan Prakashan.
- Choudhary, A. (2024). *Corporate accounting*. Sheth Publishers.
- Gupta, R. L., & Radhaswamy, M. (2014). *Advanced accountancy* (11th ed.). Sultan Chand & Sons.
- Kishnadwala, J. (2024). *Financial accountancy & management*. Vipul Prakashan.
- Shukla, M. C., & Grewal, T. S. (2023).

Course Syllabus

Semester: VI

6.5 – Minor Stream

Course Title	Entrepreneurship and Start-up Management
Course Credits	04
Course Outcomes	<p>After going through the course, learners will be able to</p> <ol style="list-style-type: none">1. Develop an understanding of Entrepreneurship Development among the students.2. Get acquainted with various central and state government policies towards developing and promoting various business enterprises in the country.3. Identify challenges and prospects faced by women entrepreneurs.4. Understand the Startup process from Idea generation to Business Development.5. Identify the dimensions and resources required to establish a start-up.6. Analyse the Business environment and develop a strategic Business Plan.7. Get motivated to undertake new business venture and approach for Angel Funding and Venture Capital Funding.
Module 1 (Credit 1)	Fundamentals of Entrepreneurship Management
Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none">• Define Entrepreneurship and identify the characteristics of entrepreneurship.• Differentiate between various types of Entrepreneurs.• Identify the Social Entrepreneurship in socio-economic development.• Understand the evolution of the concept of Entrepreneurship.• Examine and analyse the qualities for Entrepreneurship.
Content Outline	<ul style="list-style-type: none">• Concept and Nature of Entrepreneurship Concept, characteristics & types of Entrepreneur. Characteristics, need & types of Entrepreneurship.

	<p>Social Entrepreneurship – Definition, Importance and social responsibilities.</p> <ul style="list-style-type: none"> • Theories of Entrepreneurship: <p>Theory of Innovation by Schumpeter</p> <p>Theory of High achievement by McClelland</p> <p>Theory of Profit by Knight</p> <p>Theory of Social Change by Everett Hagen</p> • Entrepreneurship Management <p>Qualities and Skills for Entrepreneurship</p>
Module 2 (Credit 1)	Entrepreneurship Development
Learning Outcomes	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Explore and avail the schemes of Entrepreneurship Development Institutions. • Identify the institutions supporting business enterprises. • Explore the support of Central and State level institutions. • Analyse the role of women entrepreneur in economic development.
Content Outline	<ul style="list-style-type: none"> • Entrepreneurship Development Institutions: <p>Entrepreneurship Development Institute of India (EDII).</p> <p>National Institute of Entrepreneurship and Small Business Development (NIESBUD).</p> <p>National Entrepreneurship Development Board (NEDB)</p> • Institutional support: <p>District Industries Centres (DICs)</p> <p>Industrial Development Corporation (IDC)</p> <p>Small Scale Industries Development Corporations (SSIDCs)</p> • Women Entrepreneurship: <p>Significance, Challenges and Schemes for Women Entrepreneurship.</p>

	Self Help Groups (SHGs), Self Help Entrepreneurs (SHE).
Module 3 (Credit 1) Startup Entrepreneurship and Startup Ecosystem	
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Define Start-ups and explore the start-up ecosystem. • Undertake Business Environment Analysis. • Analyse the competitive Business Environment and Identify competitive advantages. • Develop Start up Proposals for new venture launch.
Content Outline	<ul style="list-style-type: none"> • Introduction to Startup Entrepreneurship- Meaning and Definition, Startup Ecosystem. Startup Lifecycle • Processes of Business Environment Analysis – Political, Governmental, Stakeholder, Technological, Macroeconomic, Socio-demographic, Competitive and Competitor Analysis. • Developing Startup Proposals.
Module 4 (Credit 1) Startup Project planning and development.	
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none"> • Design Start-up Project Plan and Carry out feasibility study. • Understand the formalities and procedure of registration of a business. • Identify the new venture expansion strategies and venture capitalist companies. • Study and Examine the startup Success Stories.
Content Outline	<ul style="list-style-type: none"> • Project Planning- Feasibility study - Formalities and procedures in registration of a business - Regulatory norms and legal aspects - Format and presentation of report – Marketing strategies. • Preparing for the new venture launch - New venture expansion strategies - Venture Capital and Angel Investment. • Startup Success Stories.

Assignments/Activities towards Comprehensive Continuous Evaluation (CCE)

Internal – 50 Marks

Sr. No	Activities	Marks
1	Project Report	15
2	Group Discussion/ Seminars/ Workshops/ Any other innovative methods	15
3	Presentations/ Case Study	10
4	Quiz/ Debate	10
	Total 50 Marks	50

External – 50 Marks

References:

- Ashok Soota and S.R. Gopalan, Entrepreneurship Simplified, from Idea to IPO, Portfolio-Penguin Random House, India.
- Chris Guilbeau, The \$100 Start-ups, Macmillan Publishers Limited.
- Ducker Peter: Innovation and Entrepreneurship. Butterworth-Heinemann, revised (2007).
- Holt. David: Entrepreneurship: New Venture Creation. Phi learning, 1st Edition (2009).
- Howard Frederick, Allan O'Connor, & Donald F. Kuratko, Entrepreneurship: Theory, Process and Practice, 4th Edition, Cengage Learning, 2016.
- Khanka S S, Entrepreneurship Development, S Chand Publication, 9th Edition, (2007).
- Madhukar Shukla, Social Entrepreneurship in India, 1st Edition, SAGE Publications India Pvt Ltd., 2020.
- Poornima M. Charantimath, Entrepreneurship Development and Small Business Enterprises, 3rd Edition, Pearson Education, 2018.
- Reena Poddar, Sarika Gadhawe, Competitive Advantage, An Introduction, The ICFAI University Press.
- Vasant Desai, Entrepreneurship Management, 1st Edition, Himalaya Publishing House, 2013.
- Vijaykumar Thota, Santhi Vedula, Fundamental for New Entrepreneurs- in the context of Indian MSME's, Himalaya Publishing House.
- Steven Fisher, Ja-nae' Duane, The Startup Equation -A Visual Guidebook for Building Your Startup, Indian Edition, Mc Graw Hill Education India Pvt. Ltd.

Course Syllabus

Semester: VI

6.6: On-Job Training

Course Title	Internship
Course Credits	4
Course Outcomes	After going through the course, learners will be able to
	<ol style="list-style-type: none">1. Get exposure to work on the field related to finance, banking, Human Resource Management, Accounting, teaching and research.2. Bridge the gap between classroom teaching and practical work life.3. Make the students aware about work ethics and work discipline and punctuality.4. Develop the passion for professional Life or Excellence.5. Be Placed in banking, teaching, office management and research fields.
Module 1 (Credit 1)	
Learning Outcomes	After learning the module, learners will be able to
	<ul style="list-style-type: none">● Plan and set the goal of internship● Identify the agency for Internship
Content Outline	<ul style="list-style-type: none">● Plan and goal of internship with Faculty coordinator● Identify Agency of Internship● Completion of Pre internship documentation
Module 2 (Credit 1)	
Learning Outcomes <i>(Specific related to the module)</i>	After learning the module, learners will be able to
	<ul style="list-style-type: none">● Create awareness among students about ownership of their own professional life in terms of time management, productivity, efficiency, accountability and work life balance.● Promote the students in different fields like in banking, finance, marketing, and accounting.

Content Outline	<ul style="list-style-type: none"> • Placement for Internship • Actual undertaking work Experience at Internship agency • Keeping up to date weekly report • Updating field visit Report
Module 3 (Credit 1)	
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Take real work experience from academia to Industry • Develop self-confidence and self-esteem.
Content Outline	<ul style="list-style-type: none"> • Actual undertaking of work experience at Internship agency • Keeping up to date weekly report • Preparation of field visit Report
Module 4 (Credit 1)	
Learning Outcomes <i>(Specific related to the module)</i>	<p>After learning the module, learners will be able to</p> <ul style="list-style-type: none"> • Get Internship completion certificate from Internship Agency • Find source for job placement in areas of banking, finance, marketing, accounting and etc.
Content Outline	<ul style="list-style-type: none"> • Final report of the internship • Submission of Post Internship Documentation • Presentation and Viva • Tools: Rubrics for internship work, rubrics for presentation (viva) • Summative (External) assessment (100 marks)

Duration: 120 Hours

Assignments/ Reports:

Sr. No	Activities
1	Plan and goal of internship
2	Reports of Weekly activities
3	Field Visit Report (If any)
4	Report of internship

Summative (External) assessment (100 marks)

Sr. No	Type of Evaluation	Criteria for Evaluation	Marks	Marks
1	External Assessment	The Mentor of the Agency will assess the Intern on the Following Criteria's:		
		A) Work Quality		
		1) Punctuality (5)	5	
		2) Sincerity (5)	5	
		3) Initiative (5)	5	
		4) Commitment (5)	5	
		5) Attitude (5)	5	25
		B) Skills		
		1) Communication (5)	5	
		2) Documentation (5)	5	
		3) Reporting (5)	5	
		4) Professionalism (5)	5	
				5) Adaptability (5)
2	External Assessment	Internship Report Weekly Activities Report Internship Report Presentation and Internship Viva Voce (Joint Assessment by Internal and External Examiner)	50	50
		Total		100