

S P Mandali's
**R. A. PODAR COLLEGE OF COMMERCE AND
ECONOMICS (AUTONOMOUS)**
Matunga, Mumbai- 400019

Syllabus
And
Question paper pattern

**Bachelor of Business Administration
(Shipping and Logistics Management)
S.Y.B.B.A Semester III**

Syllabus as per National Education Policy 2020
To be implemented for Academic Year 2024-2025

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**Bachelor of Business Administration
(Shipping & Logistics Management)**

**Syllabus as per National Education policy
2020**

Course Structure
S.Y.B.B.A (Level 5)

(To be implemented from Academic year 2024-2025)

Bachelor of Business Administration (BBA) Programme
Syllabus as per National Education Policy 2020

Course Structure

S.Y.BBA (Level 5)

(To be implemented from Academic Year- 2024-25)

Semester III

No. of courses	Course Code	Semester III	Credits
		Elective Courses (EC)	
1		Discipline Specific Elective (DSE) Courses (Major)	
1. A .a	PUE103201	Multi-mode Transport: Air transport	03
1. A.b	PUE103202	Multi-mode Transport: Road transport	03
1.A.c	PUE103203	Multi-mode Transport: Rail transport	03
2		Discipline Specific Elective (DSE) Courses (Minor)	
2.A. a	PUE203201	Packaging and Labelling	03
3		General Elective/ OE	6 (03)
3.A. a	PUD303201	Digitalization of Money markets	
3.A.b	PUD303202	Blockchain Technology	
3.A.c	PUD303203	Data Visualization using Power BI	
4		Vocational Skill Enhancement Courses (VSC)	
4.A.a	PUE403201	Organization and Financial aspects of Multimodaltransport Operator	03
5		Ability Enhancement Course	
5.A		Linguistic Studies-I	02
5.A.a	PUA503201	Sanskrit	
5.A.b	PUA503202	Marathi	
5.A.c	PUA503203	Hindi	
6		Internship/Field Project / Research Project / Community Engagement	
6.A.a	PUA603201	Foundation of Research Skills (Internship/Field Project/Research Project/Community Engagement)	02
TOTAL		Cumulative Credits	22

Elective Courses (EC) (Major)
Discipline Specific Elective (DSE) Courses
Course Credit-3
1.A.a Multi-mode Transport: Air transport
Semester III

1.Major	
1.A Course I	
1.A.a Multi-mode Transport- Air Transport(Course Credit 3)	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	To enable the learner to understand the nuances of air transport
CObj 2	To ensure that the learner can distinguish between the different types of goods
CObj 3	To understand the relevance of various documents in air transport
CObj 4	To study the different rates applicable to the goods using air transport
Course Outcomes	
COut 1	Ensures the understanding of different documents required in Air transport
COut 2	Enhances the ability of the student to differentiate between different types of goods
COut 3	Learner acquires knowledge of the different rates applicable in Air transport
COut 4	The learner acquires knowledge about the role of agencies in Air transport

Modules at a Glance

Sr. No.	Modules	No. of Lectures
1	Introduction, Industry regulations, Air Cargo agency	15
2	Aircraft, Handling facilities, Air cargo acceptance and cargo booking procedures	15
3	Cargo Automation, Air waybill, Cargo rates and charges	15
Total		45

Syllabus

Sr. No.	Modules / Units
1	Industry regulations, Air Cargo Agency, World geography, Use of guides, Aircraft
	ICAO , IATA - International Air Transport Association FIATA - International Federation of Freight Forwarders Associations The Air Cargo Agency The IATA Air Cargo Agent/Intermediary (current program), The Consolidator Air Cargo Agent's Operations, Air Cargo Agent's Service, Functions Organization of Air Cargo, Agencies Liability World Geography Geography and IATA Three-Letter Codes, IATA Areas and Sub-areas, Time Differences, Calculation of Transportation Time Use of Guides The OAG Cargo Guide and The OAG Flight Guide
2	Aircraft, Handling facilities, Air cargo acceptance and cargo booking procedures
	Aircraft, The Aircraft, Bulk Load Limitations, Unit Load Devices, Determining the Acceptance of Cargo to Carriers, Handling Facilities, Airports, Aircraft Handling Facilities, Cargo Terminal Facilities, Customs Clearance Process Air Cargo Acceptance, Instructions for Carriage, Acceptance based on the Shipper's Letter of Instruction, Acceptance of Special Cargo, Cargo Booking Procedures, How to Make a Cargo Booking and Airlines' Internal Booking Procedures
3	Cargo Automation, Air waybill, Cargo rates and charges
	Cargo Automation Administrative Automation, Physical Handling Automation, Cargo iQ e-Freight and e-AWB including Cargo-XML The Air Waybill Types of Air Waybills and their Function, Completing the Air Waybill and Labeling and Marking Cargo Air Cargo Rates and Charges The Air Cargo Tariff (TACT), IATA Areas and Sub-areas, Chargeable Weight, Currencies, Rates and Charges, General Rules, Minimum Charges, General cargo Rates (GCR), Specific Commodity Rates (SCR), Class Rates, Lower Charge in Higher , Weight Category, Precedence of Rates and Charges, Valuation Charges, Charges , Collect Shipments, Disbursements, Other Charges and Fees, Rating Concept within Europe

Reference books:

- Introduction To The Air Transport System (Hb 2022) by Kalic M , CRC Press
- Air Transport Management: An International Perspective by Dr Lucy Budd and Stephenson, Taylor, and Francis
- Introduction to Air Transport Economics
- (Paperback) | Released: 08 Feb 2018
- By: Ken Fleming (Author) , Thomas Tacker (Author) , Bijan Vasigh (Author)

Teaching Pedagogy

Lectures/tutorials/fieldwork/outreach activities/ project work/ vocational training/viva/seminars / term papers/assignments/presentations/self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.

Allocation of 40 Marks---Internal evaluation

Method of evaluation	Total marks
Assignment/ Quiz/ Case Study/ Report on guest lecture/ activity	20
PowerPoint Presentation Preset criteria	20
TOTAL	40

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempted)	
Q.1	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.2	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.3	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
TOTAL			60	

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

1. Major Course II *

**1.A.b Multi-mode Transport Road Transport (Course Credit 3)
Semester III**

1.Major	
1.A Course II	
1.A.b Multi-mode Transport Road Transport (Course Credit 3)	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	To make the learner aware of International Conventions and National Laws in RoadTransport
CObj 2	To provide an in-depth explanation of the CMR Convention
CObj 3	To help learners explore Geography and Infrastructure in Road Transport
CObj 4	To appraise the learner of challenges and solutions in Road Transportation
Course Outcomes	
COut 1	Ensures easy understanding of the duties and responsibilities of a shipper
COut 2	The learner acquires knowledge of the freight structure
COut 3	Enhances the learner's ability to deal with the issues related to Road transport
COut 4	Learner is abreast with the trends in road transport

Modules at a glance:

Sr. No.	Modules	No. of Lectures
1	Introduction, features, Geography, Documentation	15
2	Freight rate structure, Regulatory framework, challenges and optimization	15
3	Future Trends and Policy Landscape	15
Total		45

Syllabus

Sr. No.	Modules / Units
1	Introduction, Features, Geography, Documentation
	<p>Introduction to International Conventions and National Laws- Overview of international conventions governing road transport (e.g., CMR convention), Understanding national laws related to road transport and logistics, Features of the CMR Convention- In-depth exploration of the CMR convention and its significance in road transport, Analysis of carrier rights, duties, and responsibilities under CMR Geography of Land Transport and Infrastructure- Exploration of the Golden Quadrilateral, role in road transportation, Understanding the infrastructure related to common carrier and private carrier under national law Local and International Aspects of Road Transport-Examination of the local and international dimensions of road transport, challenges and opportunities in cross-border road logistics, documentation requirements in road transportation</p>
2	Freight rate structure, Regulatory framework, challenges and optimization
	<p>Freight Rate Structure- Analysis of freight rate structures and pricing mechanisms, Strategies for negotiating and managing freight rates, Settlement of Claims, and Risk Management- Understanding the process of settling claims in road transport, Risk management practices for mitigating potential challenges- Transportation of Dangerous and Hazardous Goods, Regulatory framework for transporting dangerous goods, Safety protocols and compliance measures for handling such cargo Problems with Road Transportation- Exploration of common issues such as customs procedures, uniform taxation policies, and octroi, Strategies for overcoming challenges and improving efficiency, National Highways, ICDs, and Roads, Detailed study of the Indian national highway network, ICDs, and road infrastructure, Practical insights into optimizing routes and utilizing transportation hubs effectively</p>
3	Future Trends and Policy Landscape
	<p>New Logistics Policy- Overview of the evolving logistics policy landscape, Analysis of the impact of new policies on road transport in multimodal logistics, Road Rail Vehicle System- Exploration of integrated road-rail transportation systems, Private Sector Participation and Emerging Technologies- role of the private sector in enhancing road transport, Emerging technologies shaping the future of road logistics, Carrier's Act, 1865, and Legal Aspects, Understanding the historical context and relevance of the Carrier's Act, 1865, Legal aspects and compliance requirements for carriers in modern road logistics</p>

Reference Books :

- Economics of the road transport author: Ravinder
- Management of road freight transport by Nick Poree
- Himachal Road Transport Corporation (HRTC) multipurpose. Vvk subburaj

Teaching Pedagogy

Use of technology, Chalk and Talk method, Role Play, Group discussions, Play learn method, case study analysis, Flip class, Quiz, management games.

Allocation of 40 Marks---Internal evaluation

Method of evaluation	Total marks
Assignment/ Quiz/ Case Study/ Report on guest lecture/ activity	20
PowerPoint Presentation Preset criteria	20
TOTAL	40

Paper pattern for written test of 60 Marks

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempted)	
Q.1	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.2	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.3	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
TOTAL			60	

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

1. Major Course II *

**1.A.c Multi-mode Transport Rail Transport (Course Credit 3)
Semester III**

1.Major	
1.A Course II	
1.A.c Multi-mode Transport Rail Transport (Course Credit 3)	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	To understand the role of the shipper
CObj 2	To understand the concept of rate structure
CObj 3	To understand the means of transportation by rail
CObj 4	To create awareness about the railway's legal framework
Course Outcomes	
COut 1	Learners can appreciate the role of a carrier/shipper
COut 2	Learners have clarity about the rate structure
COut 3	Learner has acquired knowledge about rail transportation
COut 4	Ease in understanding of the legal framework that governs railways

Modules at a glance:

Sr. No.	Module	No. of Lectures
1	Legal Framework and Rail Infrastructure in Multimodal Transportation	15
2	Freight Dynamics and Operations in Rail Multimodal Transport	15
3	Containerized Rail Transport in India and Legal Landscape	15
	Total	45

Syllabus

Sr. No.	Modules / Units
1	Legal Framework and Rail Infrastructure in Multimodal Transportation
	Carrier and Shipper Rights, Duties, and Responsibilities-legal aspects and responsibilities of carriers and shippers , infrastructure prerequisites for efficient rail multimodal transportation, Rail Infrastructure Components-details of rail infrastructure, encompassing tracks, terminals, and handling facilities, Documentation in Rail Multimodal Transport-essential documents integral to rail multimodal transport and verification, Overview of USA Intermodal Transport System- Comparative analysis of the USA system and its applicability to rail multimodal transport
2	Freight Dynamics and Operations in Rail Multimodal Transport
	Freight Rate Structures- Structures governing rail freight rates and factors influencing them, intricacies of freight rate determination, Groupage and Consolidation Services, Load consolidation optimization and enhanced operational efficiency, Unit Loads in Rail Transport, planning and managing unit loads in rail operations, Synergy between Rail and Road Transport, complementary roles of rail and road transport Strategies for seamless integration of rail and road operations , Claims Settlement and Transportation of Hazardous Goods- legal procedures for settling claims in rail transport, safety protocols and regulatory compliance for the transportation of hazardous goods by rail
3	Containerized Rail Transport in India and Legal Landscape
	Evolution of Containerized Rail Transport in India- Explore the historical development of containerized rail transport in India, Assess the role played by the Indian Railways Catering and Tourism Corporation (IRCTC) in fostering container transport, Roles and Functions of Inland Container Depots (ICDs)- functions and responsibilities of Inland Container Depots- Gain practical insights into optimizing container movements through ICDs, Container Corporation of India Limited (CONCOR) and Its Advancements- Survey the operations and contributions of the Container Corporation of India Limited (CONCOR) in containerized rail transport, Analyze the progress made by CONCOR in advancing the industry, Export and Import Procedures at ICDs- Thoroughly investigate the export and import procedures at Inland Container Depots, Examine the protocols for transshipment and transfer of containers in rail multimodal transport, The Railway Act, 1989: Introduction, Features, and Highlights, Gain an overview of The Railway Act, 1989, and its pivotal role in regulating rail transport, Explore the key features and highlights of the act, with a specific focus on its implications for multimodal logistics

Reference Books:

- Changing Tracks – Reinventing the Spirit of Indian Railways by Author: V. Nilakant
- The Penguin Book of Indian Railway Stories by Author: Ruskin Bond
- Indian Railways – The Weaving of a National Tapestry by Bibek Debroy, Sanjay Chadha, Vidya Krishnamurthi

Teaching Pedagogy

Lectures/tutorials/fieldwork/outreach activities/ project work/ vocational training/viva/seminars/term papers/assignments/presentations/self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.

Allocation of 40 Marks---Internal evaluation

Method of evaluation	Total marks
Assignment/ Quiz/ Case Study/ Report on guest lecture/ activity	20
PowerPoint Presentation Preset criteria	20
TOTAL	40

Paper pattern for written test of 60 Marks

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempted)	
Q.1	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.2	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.3	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
TOTAL			60	

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

1. Minor Course I[#]

**2.A.a Packaging, Marking, and Labelling of Hazardous/Dangerous Cargo (Course Credit 3)
Semester III**

2. Minor	
2.A Course I	
2.A.a Packaging, Marking, and Labelling of Hazardous/Dangerous Cargo (Course Credit 3)	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	Learn the fundamental functions of packaging,
CObj 2	Identify the responsibilities of freight forwarders in the packaging and marking goods.
CObj 3	Understand and apply guidelines for selecting appropriate packaging materials based on the nature of the cargo.
CObj 4	Grasp the classifications, handling, and storage regulations for dangerous goods as per IMO and UN standards
Course Outcomes	
COut 1	The learner understands the concepts related to the types of packaging used by the industry
COut 2	The learner is able to comprehend the importance of labelling and marking.
COut 3	The learner is aware of the classification of dangerous goods
COut 4	The learner knows about the role of the statutory bodies related to shipping and logistics and awareness about the contributions of the Indian Institute of Packaging

Modules at a glance:

Sr. No.	Module	No. of Lectures
1	Introduction to packaging, marking	15
2	Dangerous goods – Handling & Regulations	15
3	Documentation and Labeling	15
	Total	45

Syllabus

Sr.No	Modules / Units
1	Introduction to packaging, marking & labeling
	Packing, marking and special cargos Basic functions of packaging Freight forwarders responsibility for packaging and marking Guidelines on choice of packaging Information required for packaging Types of packaging for break-bulk cargo Packing principles related to cargo in containers Marking and labelling- Purpose of marking and labelling Standard shipping Marks Information Marks Cargo handling instructions Dangerous/hazardous cargo Simpler shipping Marks
2	Dangerous goods – Handling & Regulations
	IMO classification of dangerous goods, handling and storage of dangerous goods UN classification of dangerous goods, Convention for transport of dangerous goods. IMO/IMCO IMDG-CODE Guidelines for land transport of dangerous goods. Precautions during land transportation of dangerous goods.
3	Documentation and Labeling
	Specifications for „caution labeling“ of hazardous substances Guidelines for the transport of dangerous goods, documentation, packaging, and hazards of dangerous goods. Guidelines for transport of dangerous goods through combined freight, International Convention and standing of dangerous goods by road tanker vehicle, Indian Institute of packaging

Reference Books/ Links:

- Freight Forwarding and Multi-Modal Transport Contracts" by David Glass.
- "Handbook of Package Engineering" by Joseph F. Hanlon.
- "Dangerous Goods Regulations" by International Air Transport Association (IATA).
- "Hazardous Materials: Regulations, Response, and Site Operations" by Robert Burke.
- Emergency response guidebook

Teaching Pedagogy

Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva / seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.

Allocation of 40 Marks---Internal evaluation

Method of evaluation	Total marks
Assignment/ Quiz/ Case Study/ Report on guest lecture/ activity	20
PowerPoint Presentation Preset criteria	20
TOTAL	40

Paper pattern for written test of 60 Marks

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempted)	
Q.1	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.2	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.3	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
TOTAL			60	

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)
3. General /Open Electives
General Electives (GE)/ Open Elective (OE)
3.A.a Digitalization of Money Markets (3 Credits)
Semester III**

3. General /Open Electives	
General Electives (GE)/ Open Elective (OE)	
3.A.a Digitalization of Money Markets	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	To enable learners to gain insights into the evolution of financial systems the impact of technology on money markets, and the role of digital currencies.
CObj 2	To understand practical applications and critical analysis of digitalization trends shaping Financial Landscapes.
CObj 3	To enable learners, to understand the concepts and the role of digital currencies.
Course Outcomes	
COut 1	The learner understands the basics of digitalization in finance.
COut 2	The learner understands the relationship between Fintech and its Impact.
COut 3	Learner develops skills to evaluate digital currencies and Blockchain Technology.
COut 4	There is awareness of the Regulatory framework and its challenges.
COut 5	The learner learns about Big Data and Analytics in Money markets.
COut 6	The learner is familiar with the digital concepts of money markets.
COut 7	There is better understanding of the framework of money market digitalization.
COut 8	The learner is aware of the tools and methodology involved in digitalization concepts.
COut 9	There is greater level of financial literacy.
COut 10	The learner is able to take informed investment decisions

Modules at a Glance

Digitalization of Money Markets		
Sr. No.	Modules	No. of Lectures
1	Foundations of Digital Money Markets	15
2	Digital Currencies and Blockchain Technology	15
3	Applications and Future Trends	15
Total No. of Lectures:		45

Syllabus :

Sr. No.	Modules
1	Foundation of Digital Money Markets
	<ul style="list-style-type: none"> • Introduction to Money Markets • Basics of Digitalization in Finance • Historical Perspective on Money Markets • Fintech and its Impact
2	Digital Currencies and Blockchain Technology
	<ul style="list-style-type: none"> • Cryptocurrencies: Bitcoin, Ethereum, and beyond • Blockchain Technology and Distributed Ledger • Central Bank Digital Currencies (CBDCs) • Regulatory Frameworks and Challenges
3.	Applications and future trends
	<ul style="list-style-type: none"> • Digital Payment Systems • Smart Contracts and Decentralized Finance (DeFi) • Big Data and Analytics in Money Markets • Future Trends in Digital Money Markets

References Books:

- Digital Gold: Bitcoin and the Inside Story of the Misfits and Millionaires Trying to Reinvent Money" by Nathaniel Popper
- "The Age of Cryptocurrency: How Bitcoin and Digital Money are Challenging the Global Economic Order" by Paul Vigna and Michael J. Casey
- "Blockchain Basics: A Non-Technical Introduction in 25 Steps" by Daniel Drescher
- "The Basics of Bitcoins and Blockchains" by Antony Lewis

Digitalization of Money Markets

**Question Paper Pattern (Academic Year:
2024-25)**

Internal Examination & Semester End Examination – 40 Marks

B] Internals-20 Marks

Method of evaluation	Total marks
Practical Work	20
Assignment	20
TOTAL	40

C] Semester End Examination (SEE)- 60 Marks

Maximum Marks:60

Duration: 2 Hours

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempted)
Q-1	Answer the following: Any 4		
	A. Theory/Concept-based question	5	20
	B. Theory/Concept-based question	5	
	C. Theory/Concept-based question	5	
	D. Theory/Concept-based question	5	
	E. Theory/Concept-based question	5	
Q-2	Answer the following: Any 4		
	A. Theory/Concept-based question	5	20
	B. Theory/Concept-based question	5	
	C. Theory/Concept-based question	5	
	D. Theory/Concept-based question	5	
	E. Theory/Concept-based question	5	
Q-3	Answer the following: Any 4		
	A. Theory/Concept-based question	5	20
	B. Theory/Concept-based question	5	
	C. Theory/Concept-based question	5	
	D. Theory/Concept-based question	5	
	E. Theory/Concept-based question	5	
	Total		60

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

3. General /Open Electives

General Electives (GE)/ Open Elective (OE)

3.A,b Blockchain Technology (3 Credits)

Semester III

3. General /Open Electives	
General Electives (GE)/ Open Elective (OE)	
3.A,b Blockchain Technology	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	To understand core concepts and technologies underlying blockchain technology
CObj 2	gain in-depth knowledge of cryptocurrencies, their fundamentals, and the surrounding ecosystem
CObj 3	To explore the diverse applications of blockchain technology across various sectors
Course Outcomes	
COut 1	Acquire knowledge of Fundamentals of Block chain and its different components
COut 2	Understand the role of cryptocurrencies and working of wallets
COut 3	Understand Role and how to implement Block chain in various sectors

Modules at a Glance:

Sr.No.	Modules	No. of Lectures
1	Block chain fundamentals	15
2	Cryptocurrency	15
3	Block chain Applications	15
	Total	45

Syllabus :

Unit No.	Modules
1.	Block chain Fundamentals
	Distributed Ledger Technology (DLT): Concept of DLT, its advantages over centralized databases, use of DLT in block chain Demystifying Block chain: Define Block chain, its core components (blocks, hash functions, consensus mechanisms), and the chain structure. Security and Transparency: Encryption and immutability inherent in block chain, Data security and transparent record-keeping. Consensus Mechanisms: Compare popular consensus mechanisms like PoW, PoS, and their impact on performance and energy consumption. DApps: Decentralized Applications, Ethereum dApps, Advantages and Disadvantages.
2	Cryptocurrency
	Introduction: History of Cryptocurrency, Types of Cryptocurrencies based on their purpose, consensus mechanisms, and unique features Understanding Cryptography and Mining: Cryptographic basis, Public Key, Private Key, Digital signatures, Mining process for securing transactions Wallets and Cryptocurrency Exchanges: Different types of cryptocurrency wallets (hot, cold, hardware) and explore centralized and decentralized exchanges for buying, selling, and trading digital assets Smart Contracts and DeFi Applications: Smart contracts for decentralized finance (DeFi), Applications like lending, borrowing, and trading on block chain platforms.
3.	Block chain Applications
	Financial Applications: Role of block chain in revolutionizing areas like cryptocurrencies, digital payments, and secure financial transactions. Supply Chain Management: Block chain to track and verify the provenance of goods, enhance transparency, and combat counterfeiting in supply chains. Healthcare and Identity Management: Block chain to secure patient data, facilitate medical record sharing, and enable secure digital identities.

Reference Books:

- Elisa Bertino, Hai Jiang, Kuan-Ching Li, Xiaofeng Chen, “*Essentials of Block chain Technology*”, CRC Press, 2019
- E. Golden Julie, J. Jesu Vedha Nayahi, Noor Zaman Jhanjhi, “*Block chain Technology Fundamentals, Applications, and Case Studies*”, CRC Press, 2020
- Quinn DuPont, “*Cryptocurrencies and Blockchains*”, Polity Press, 2019
- Anita Ravani, Sashi Edupuganti, Jeannette Pugh, Sooraj Sushama, “*Applications of Block chain Technology An Industry Focus*”, CRC Press, 2024

Teaching Pedagogy

Lectures/tutorials/fieldwork/outreach activities/ project work/ vocational training/viva/seminars/term papers/assignments/presentations/self-study/case studies etc. or a combination of some of these. Sessions shall be interactive in nature to enable peer group learning.

Allocation of 40 Marks---Internal evaluation

Method of evaluation	Total marks
Assignment/ Quiz/ Case Study/ Report on guest lecture/ activity	20
PowerPoint Presentation Preset criteria	20
TOTAL	40

Paper pattern for written test of 60 Marks

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempt ed)	
Q.1	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.2	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.3	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
TOTAL			60	

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)
3. General /Open Electives
General Electives (GE)/ Open Elective (OE)
3.A.c Data Visualization using Power BI (3 Credits)
Semester III**

3. General /Open Electives	
General Electives (GE)/ Open Elective (OE)	
3.A.b Data Visualization using Power BI	
Course Objectives and Course Outcomes	
Course Objectives	
Cobj 1	To Learn how to integrate Excel and Power BI
Cobj 2	To learn different usage of Power Bi Reporting
Cobj 3	To learn how to manage relationships between data
Cobj 4	To learn about filters and dashboards in Power BI
Course Outcomes	
COut 1	Learner should acquire knowledge of using Power Bi with Excel
COut 2	Learners should be able to aggregate data in one location saving time and effort
COut 3	Learners should be able to use different filters Power BI
COut 2	Learners should be able to create visualizations to display the analytics you need to answer crucial business questions
COut 3	Learners should be able to create a dashboard for KPI growth tracking

Modules at a glance

Data Visualization using Power BI		
Sr. No.	Modules	No. of Lectures
1	Introduction to Power BI	15
2	Data Modeling	15
3	Filters and Dashboards	15
Total		45

Syllabus :

Sr. No.	Modules
1	Introduction to Power BI
	BI Reporting, parts of Power BI, architecture of Power BI, Power BI Components, Licensing in Power BI, overview on creation of report Transformation of imported data, use of query editor for shaping data, combine data from multiple sources, Apply filter on data in query editor / Parameter based filtering, Power BI query editor functionalities
2	Data Modeling
	How to manage your data relationships, Data modeling, Cardinality options/ Types of relationships, Calculated measures, Difference between calculated column and measures, Evaluation of measures, Creation of calculated table, Creation of master calendar table, Explore time-based data, Exploring Drill down functionality of data Creation of Custom hierarchy apart from date hierarchy
3	Filters and Dashboards
	Types of Filters, applying Filter to a Visual, applying Filter to a Page Applying Filter to a Report, How to manage action of visuals onto another visual/ Edit interactions, managing RLS(Row level security) in Power BI, Manage Roles, page navigation in Power BI Make use of bookmarks, Clearing drill through, Clearing slicer, KPI Identification, Dashboard Design Principles, Clarity and Hierarchy

Practical Work (20 Marks)

Practical Work (20 Marks) List of Practicals to be Conducted	
1.	Data Acquisition and Cleaning
	a. Excel PivotTables & Power Query b. Data Cleansing in Power Query c. Merge & Filter in Power Query
2.	Data Modelling
	a. Relationship Diagram tool b. Calculated Columns & Measures c. Dates in Power BI
3.	Visual Storytelling with Power BI
	a. Dashboard Design b. Slicers and report filters in Power BI c. Choosing Maps and Chart acc to data
4.	Navigation and Collaboration:
	a. Bookmarks & Drill Down b. Excel Linkages c. Power BI Service Sharing
5.	KPI Dashboard
	a. Identify and Define KPIs b. Create a Dashboard using appropriate Visualizations c. Use conditional Formatting

Question Paper Pattern (Academic Year: 2024-2025)
Semester End Examination and Practical Examination – 100 Marks

SEMESTER III

A] Semester End Examination (SEE)- 60 Mark

Maximum Marks: 60

Duration: 2 Hours

- Note: 1. All questions are compulsory.**
2. All questions carry equal marks.

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To be Attempted)
Q1.	Answer the following questions (Any 4) A. Theory/Concept Based question B. Theory/Concept Based question C. Theory/Concept Based question D. Theory/Concept Based question E. Theory/Concept Based question	5 5 5 5 5	20
Q2.	Answer the following questions (Any 4) A. Theory/Concept Based question B. Theory/Concept Based question C. Theory/Concept Based question D. Theory/Concept Based question E. Theory/Concept Based question	5 5 5 5 5	20
Q3.	Answer the following questions (Any 4) A. Theory/Concept Based question B. Theory/Concept Based question C. Theory/Concept Based question D. Theory/Concept Based question E. Theory/Concept Based question	5 5 5 5 5	20

B] Practical Examination - 40 Marks

A Certified copy journal is essential to appear for the practical examination.

1.	Practical Work	20
2.	Journal	10
3.	Viva Voce	10

Books and References:					
Sr. No.	Title	Author/s	Publisher	Edition	Year
1	Power BI Data Analysis and Visualization	Suraj Gaurav, Suren Machiraj	De G Press	_	2018
2	Analyzing Data with Power BI and Power Pivot for Excel	Alberto Ferrari	Microsoft Press	First	2017
3	Basics of Power BI Modeling	Reza Rad	Radacad Systems Ltd.	_	2020
4	Power BI Data Analysis and Visualization	Suraj Gaurav, Suren Machiraj	De G Press	_	2018

Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)
4. Vocational & Skill Enhancement Courses (VSEC)
4.A Vocational Enhancement Course (VSC)
4.A.a Organization and Financial Aspects of a Multimodal Transport Operator
– II (3 Credits)
Semester IV

4. Vocational & Skill Enhancement Courses (VSEC)	
4.A Vocational Enhancement Course (VSC)	
4.A.a Organization and Financial Aspects of a Multimodal Transport Operator – II (3 Credits)	
Course Objectives and Course Outcomes	
Course Objectives	
CObj 1	To enable the learner to get an insight into the structure followed by an organization
CObj 2	To ensure in-depth learning of the aspects of finance and administration
CObj 3	To understand the process and procedures related to the valuation of the performance of all investments
Cobj 4	To nurture leaders to enhance their management skills
Course Outcomes	
COut 1	Ensures the understanding of different business derivatives of a MTO.
	Enhances a possibility of acquiring in-depth knowledge of start up as a MTO.
COut 2	Learner acquires knowledge on deeper aspects of Accounting conventions & ratios.
COut 3	Learner evolves as a leader with better understanding of all aspects of management and leadership
COut 4	Ensures the understanding of different business derivatives of a MTO.

Modules at a glance

Sr.No.	Modules	No. of Lectures
1	Organizational Management functions, Structure	15
2	Financial Performance and Administration	15
3	Evaluation of Performance	15
	Total	45

Sr. No.	Modules / Unit
1	Organizational Management functions , Structure
	<ul style="list-style-type: none"> – Establishment of MTO Operations – Contracting – Delegation of Responsibility – Decision Making – Management and Leadership – Quality Service – Customer Service
2	Financial Performance and Administration
	<ul style="list-style-type: none"> – Quoting – Liquidity Ratios – Working Capital or Net Current Assists – Accounting Conventions – Management of Working Capital
3	Evaluation of Performance
	<ul style="list-style-type: none"> – Financial Performance ROI/ROCE – Financial Control – New Projects – Evaluation of Performance

Reference books:

- Elements of Financial Management by Dr R P Rustagi
- Financial Analysis For Beginners by Dr Shivashankaran
- Financial Administration In India 2Nd Edition by Mahajan Sanjeev Kumar
Mahajan Anupama Puri, Phi Learning

Teaching Pedagogy

Lectures/tutorials/field work/outreach activities/ project work/ vocational training/ viva / seminars / term papers/ assignments / presentations / self-study/case studies etc. or a combination of someof these. Sessions shall be interactive in nature to enable peer group learning.

Allocation of 40 Marks---Internal evaluation

Method of evaluation	Total marks
Assignment/ Quiz/ Case Study/ Report on guest lecture/ activity	20
PowerPoint Presentation Preset criteria	20
TOTAL	40

Paper pattern for written test of 15 Marks

Question No	Particulars	Total marks
Q.1	Question based on theory/concept taught. (Any Two out of Three)	10
	OR	
	Application based question	
Q.2	Write short note (Any One out of Two)	5
TOTAL		15

Paper pattern for written test of 60 Marks

Question No.	Particulars (Nature of Questions)	Marks (Given)	Marks (To Be Attempted)	
Q.1	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.2	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
Q.3	Attempt any four from the following.		20	
	A	Theory/Concept based question		5
	B	Theory/Concept based question		5
	C	Theory/Concept based question		5
	D	Theory/Concept based question		5
	E	Theory/Concept based question		5
TOTAL			60	

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

5. Ability Enhancement Courses, Value Enhancement Course, Indian Knowledge System

5.A Ability Enhancement Course (AEC)

5.A.a Marathi-I (3 Credits)

Semester III

Course Objectives:	
1. To create curiosity in the minds of learners about the chosen language	
2. To help the learners understand the need to learn the chosen language	
3. To introduce learners to the structure of the chosen language	
4. To understand the richness of Indian selected languages with reference to consonants and vowels	
5. To understand unique characteristics of the chosen language	
6. To understand the use of gender and tenses	
7. To understand the use of idioms and phrases	
8. To know the various dialects of the chosen language	
9. To understand the application of technology for communication by alternatively abled	
10. To understand the need of learning functional language	
11. To get familiarized with the literature of the chosen language	
12. To get familiarized with the literature translated to the chosen language from other languages	
13. To learn to appreciate the other literary forms of the chosen language	
Course Outcome:	
1. The learner will be curious to learn the chosen language	
2. The learner will be able to understand the need to learn the chosen language	
3. The learner will get familiar with the structure of the chosen language	
4. To understand the richness of Indian selected languages with reference to constants and vowels	
5. To understand unique characteristics of the chosen language	
6. To understand the use of gender and tenses	
7. To understand the use of idioms and phrases	
8. To know the various dialects of the chosen language	
9. To understand the application of technology for communication by alternatively abled	
10. To understand the need of learning functional language	
11. To get familiarized with the literature of the chosen language	
12. To get familiarized with the literature translated to the chosen language from other languages	
13. To learn to appreciate the other literary forms of the chosen language	

Modules at Glance

Linguistic Studies I		
Module. No.	Modules	No. of Lectures
1.	Introduction to Linguistic Studies	10
2.	Languages in Communication	10
3.	Marathi Literature	10
Total		30

Sr. No.	Modules	No. of Lectures
1.	Introduction to Linguistic Studies	10
	<ul style="list-style-type: none"> • Structure of languages • English language compared with the select Indian languages – viz, Marathi, Hindi and Sanskrit • Richness of Indian languages with reference to Vowels, consonants (maatras) • Rhythmic characteristic of Indian languages. • Unique characteristics of language (such as Repeat words like Sarsarahat) • Logic behind numbers in regional languages • Use of Tenses and Gender 	
2.	Languages in Communication	10
	<ul style="list-style-type: none"> • Use of Idioms and Phrases • Oral and Written • Dialects • Communication for alternatively abled • Use of Sign language • Language learning – Use of Technology • Need for learning functional language 	
3.	Select Studies in the chosen Language (Sanskrit/Marathi/Hindi)	10
	<ul style="list-style-type: none"> • The faculty member shall discuss with the learners about the richness of literature of chosen language. Subsequently the entire class will choose two authors and two poets. The chosen literary work needs to be read and discussed in the class. Based on this module, internal evaluation shall be done. 	
	Total	30

Total marks: 50

Evaluation Pattern- 60:40

Internal Evaluation: 20 Marks

The faculty will decide the means of taking internal evaluation. It can be oral quiz, dialogue exchange, role play, reading comprehension, listening comprehension etc.

External evaluation:

Marks: 30

Duration: 1 hours

Note: (1) All questions are compulsory

(2) The learners can write answers in the chosen language or in English/Marathi/Hindi

Question No.	Particulars (Nature of question)	Marks
Questions with sub questions	Flexibility is given to the faculty to decide the paper pattern and depending on learner's ability will design the question paper. It can contain questions like identifying or changing gender, identifying or changing tenses, making rhythmic words, answer in one sentence etc.	30
	Total	30

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

5. Ability Enhancement Courses, Value Enhancement Course, Indian Knowledge System

5.A Ability Enhancement Course (AEC)

5.A.a Hindi-I (3 Credits)

Semester III

Course Objectives:
1. To create curiosity in the minds of learners about the chosen language
2. To help the learners understand the need to learn the chosen language
3. To introduce learners to the structure of the chosen language
4. To understand the richness of Indian selected languages with reference to consonants and vowels
5. To understand unique characteristics of the chosen language
6. To understand the use of gender and tenses
7. To understand the use of idioms and phrases
8. To know the various dialects of the chosen language
9. To understand the application of technology for communication by alternatively abled
10. To understand the need of learning functional language
11. To get familiarized with the literature of the chosen language
12. To get familiarized with the literature translated to the chosen language from other languages
13. To learn to appreciate the other literary forms of the chosen language
Course Outcome:
1. The learner will be curious to learn the chosen language
2. The learner will be able to understand the need to learn the chosen language
3. The learner will get familiar with the structure of the chosen language
4. To understand the richness of Indian selected languages with reference to constants and vowels
5. To understand unique characteristics of the chosen language
6. To understand the use of gender and tenses
7. To understand the use of idioms and phrases
8. To know the various dialects of the chosen language
9. To understand the application of technology for communication by alternatively abled
10. To understand the need of learning functional language
11. To get familiarized with the literature of the chosen language
12. To get familiarized with the literature translated to the chosen language from other languages
13. To learn to appreciate the other literary forms of the chosen language

Modules at Glance

Linguistic Studies I		
Module. No.	Modules	No. of Lectures
1.	Introduction to Linguistic Studies	10
2.	Languages in Communication	10
3.	Hindi Literature	10
	Total	30

Sr. No.	Modules	No. of Lectures
1.	Introduction to Linguistic Studies	10
	<ul style="list-style-type: none"> • Structure of languages • English language compared with the select Indian languages – viz, Marathi, Hindi and Sanskrit • Richness of Indian languages with reference to Vowels, consonants (maatras) • Rhythmic characteristic of Indian languages. • Unique characteristics of language (such as Repeat words like Sarsaraha) • Logic behind numbers in regional languages • Use of Tenses and Gender 	
2.	Languages in Communication	10
	<ul style="list-style-type: none"> • Use of Idioms and Phrases • Oral and Written • Dialects • Communication for alternatively abled • Use of Sign language • Language learning – Use of Technology • Need for learning functional language 	
3.	Select Studies in the chosen Language (Sanskrit/Marathi/Hindi)	10
	<ul style="list-style-type: none"> • The faculty member shall discuss with the learners about the richness of literature of chosen language. Subsequently the entire class will choose two authors and two poets. The chosen literary work needs to be read and discussed in the class. Based on this module, internal evaluation shall be done. 	
	Total	30

Total marks: 50
Evaluation Pattern- 60:40
Internal Evaluation: 20 Marks
The faculty will decide the means of taking internal evaluation. It can be oral quiz, dialogue exchange, role play, reading comprehension, listening comprehension etc.

External evaluation:

Marks: 30

Duration: 1 hours

Note: (1) All questions are compulsory

(2) The learners can write answers in the chosen language or in English/Marathi/Hindi

Question No.	Particulars (Nature of question)	Marks
Questions with sub questions	Flexibility is given to the faculty to decide the paper pattern and depending on learner's ability will design the question paper. It can contain questions like identifying or changing gender, identifying or changing tenses, making rhythmic words, answer in one sentence etc.	30
	Total	30

**Syllabus of courses of SY BBA Programme
(With effect from the Academic Year 2024-2025)**

**6. Internship / Field Project / Research Project / Community Engagement
(02 credits)
Semester III**

. Internship / Field Project / Research Project / Community Engagement

Foundation of Research Skills (Internship/Field Project/Research Project/Community Engagement) (02 credits)

**CRITERIA FOR EVALUATING POWER POINT PRESENTATION/CASE STUDY/
APPLICATION BASED ACTIVITY:**

MARKS: 20

FY/SY/TY BBA: Division A/B

Semester: _____

Name of the Topic				Date of Presentation:			
Sr. No	Roll No	Name of the student	Content (5)	Team building (5)	Presentation skills		Total (20)
					Verbal (5)	Non Verbal (5)	
1							
2							
3							
4							
Sign: 1_____ 2._____ 3._____ 4._____ Faculty Sign:_____							

Name of the Topic				Date of Presentation:			
Sr. No	Roll No	Name of the student	Content (5)	Team building (5)	Presentation skills		Total (20)
					Verbal (5)	Non Verbal (5)	
1							
2							
3							
4							
Sign: 1_____ 2._____ 3._____ 4._____ Faculty Sign:_____							

Name of the Topic				Date of Presentation:			
Sr. No	Roll No	Name of the student	Content (5)	Team building (5)	Presentation skills		Total (20)
					Verbal (5)	Non Verbal (5)	
1							
2							
3							
4							
Sign: 1_____ 2._____ 3._____ 4._____ Faculty Sign:_____							