KANNUR UNIVERSITY
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(Abstract)

FYUG - B.B.A Logistics Programme -Scheme and Syllabus for 7 - 8 semesters- Approved & Implemented w.e.f 2024 Admission - Orders issued

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ACADEMIC C SECTION

ACAD C/ACAD C4/21583/2024 Dated: 23.03.2026

Read:-1. U.O Nos.ACAD C/SO-ACAD C/21160/2024 dated.19.10.2024. 05.02.2025

2. U.O. Nos.ACAD C/ACAD C4/21583/2024 Dated: 03.07.2025 and 30.12.2025

3. Minutes of the meeting of Board of Studies in Management studies (UG) held on 06.11.2025.

4. E-mail dtd. 17.11.2025 from the Chairperson, Board of Studies in Management studies (UG).

5. E-mail dated: 20.02.2026 from the Dean of Faculty of Commerce & Management Studies.

6. The Minutes of the meeting of Standing Committee of the Academic Council, held on 21.02.2026

7. Orders of the Vice Chancellor dtd. 02.03.2026 in File No.ACAD C/ACAD C4/21870/2024.

ORDER

1.The Scheme and Syllabus for the First and Second Semesters of the B.B.A. Logistics FYUG Programme were fixed as that of the B.B.A. Programme under the FYUGP pattern, implemented in the affiliated colleges under the University w.e.f 2024 admission, vide papers read as (1) above

2.As per paper read as (2), the Scheme and Syllabus for the Third to Sixth Semesters of the B.B.A. Logistics FYUG Programme were approved and implemented.

3.Meanwhile, the Board of Studies in Management Studies (UG), at its meeting held on 06.11.2025 resolved to submit the syllabus for 7th & 8th semesters of the FYUG BBA programme w.e.f. 2024 admission. Accordingly, the Chairperson, vide paper read as (4) above, submitted the Scheme and Syllabus for 7-8 semesters of the B.B.A. Programme for approval.

4.The Scheme and Syllabus, along with the minutes of the Board of Studies meeting, were forwarded to the Dean, Faculty of Commerce & Management Studies, for verification. The Dean, after vetting the syllabus, suggested certain modifications vide email dated 27.11.2025.

5.Subsequently, the Chairperson, Board of Studies in Management Studies (UG),vide email dated 18.02.2026 resubmitted the syllabus after incorporating the suggestions made by the Dean. After re-examining the revised syllabus the Dean, vide paper read as (5) above recommended its approval.

6.The Vice-Chancellor, after examining the matter in detail, ordered to place the Scheme and Syllabus, along with the minutes of the Board of Studies meeting and the remarks of the Dean, before the Standing Committee of the Academic Council for consideration.

7.The Standing Committee of the Academic Council, at its meeting held on 21.02.2026 considered the Scheme and Syllabus for 7-8 Semesters of the FYUG B.B.A. Logistics Programme and recommended to approve the same.

8.The Vice-Chancellor, after considering the recommendation of the Standing Committee of the Academic Council and in exercise of the powers of the Academic Council conferred under Section 11(1), Chapter III of the Kannur University Act, 1996, and other enabling provisions read together, ***approved the Scheme and Syllabus for the 7th & 8th Semesters of the B.B.A. Logistics (FYUGP) Programme and accorded sanction to implement the same with effect from 2024 admission in the affiliated colleges under the University, subject to reporting to the Academic Council.***

9.The Scheme and Syllabus for 7-8 semesters of the FYUG B.B.A. Logistics Programme is appended to this U.O and uploaded in the University website **(www.kannuruniversity.ac.in).**

Orders are issued accordingly.

Sd/-
Bindu K P G
DEPUTY REGISTRAR (ACADEMIC)
For REGISTRAR

To: 1.The Controller of Examinations(through the PA)
2.The Principals of Arts and Science Colleges affiliated to Kannur University
3.The Chairperson, Board of Studies in Management studies (UG)

Copy To: 1. PS to VC / PA to PVC / PA to R/PA to FO/PA to CE (to circulate among the section concerned)
2. DR / AR (Acad) / AR II Exam/JR II Exam
3. Computer Programmer/EXC I/AR VII (Exam)
4. Web Manager (for uploading in the website)
5. SF/DF/FC

Forwarded / By Order

SECTION OFFICER

KANNUR UNIVERSITY
CIVIL STATION P.O.
KANNUR
Pin-670 002
THAVAKKARA

BBA LOGISTICS HONOURS,

BBA LOGISTICS HONOURS WITH RESEARCH DEGREE WITH 177 CREDITS

SEMESTER VII

Course Category	***Code***	***Credit***	***Course***	***Major***	***Code***	***Hours / Week***
Discipline Specific Core Courses (DSC)	KU7DSCBBL400	4	Advanced research Methodology	Major	A18	5
	KU7DSCBBL401	4	Retail Supply Chain Management	Major	A19	5
	KU7DSCBBL402	4	Warehousing ICD and Packaging	Major	A20	5
	KU7DSCBBL403	4	Transportation and Fleet Management	Major	A21	5
	KU7DSCBBL404	4	Procurement and Materials Management	Major	A22	5

SEMESTER VIII

Course Category	***Code***	***Credit***	***Course***	***Major/ Elective***	***Code***	***Hours / Week***
Discipline Specific Core Courses (DSC)	KU8DSCBBL400	4	Cold Chain Logistics	Major	A23	5
	KU8DSCBBL401	4	Retail and E-Commerce Logistics	Major	A24	5
	KU8DSCBBL402	4	Customs and Export Documentation	Major	A25	5
Discipline Specific Elective Courses (DSE)	KU8DSEBBL400	4	Logistics Costing and performance Analysis	Elective	A26	5
	KU8DSEBBL401	4	Reverse and Green Logistics	Elective	A27	5
	KU8DSEBBL402	4	Risk Management in Supply Chains	Elective	A28	5
Project	KU8RPHBBL400	8	Project in Major Discipline			8
Project	KU8RPHBBL401	12	Research Project in Major Discipline			12

SEMESTER- VII

KU7DSCBBL400: ADVANCED RESEARCH METHODOLOGY

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VII	DSC	400-499	KU7DSCBBL400	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

The primary goal of this course is to further develop students' understanding of the research process and also to have students critically analyze published research and/or be able to conduct independent research.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Integrating multiple worldviews in the conduct of qualitative research	U
2	Learning the practices of Research Paper Publishing	U
3	Critically evaluate theoretical/ paradigmatic positions and understand how theoretical positions influence design and data collection and analysis choices	An
4	Understand ethical issues in research	U
5	Using IT oriented tools / techniques for Research	C
6	Applying Softwares for Data Analysis in Research	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I	**Qualitative Research Methods:**		**10**
	1	Qualitative Research Methods: Nature- Scope- Features-	
	2	Approaches-Content Analysis, case study	
II	**Research Paper Publishing**		**15**
	3	Research Paper Publishing – Essentials and Layout of a Research Paper- Steps in Writing a Research paper. Data bases- Journals and Publishers - ABDC Journals- Scopus and Scopus ID- Choosing an appropriate Journal to publish. Steps in Publication and replying Reviewer Comments	
	4	UGC CARE List- Impact factor of Journals- Citations-Orcid Id- Open Source publishing-Plagiarism - Definition, different forms, consequences- unintentional plagiarism, copyright infringement, collaborative work. UGC Guidelines- Qualities of good Researcher	
III	**Use of tools / techniques for Research**		**15**
	5	Use of tools / techniques for Research: methods to search required information effectively- Shodh Ganga- Shodh Gangotri- Ethical use of AI in Research	
	6	Reference Management Software like Zotero/Mendeley - Software for detection of Plagiarism	
IV	**Data Analysis using software**		**15**
	7	Data Analysis using software: Data Preparation – Univariate analysis (frequency tables, bar charts, pie charts, percentages),	
	8	Bivariate analysis – Cross tabulations and Chi-square test including testing hypothesis of association- Modelling- Exploratory and Confirmatory Factor Analysis- Structured Equation Modelling	
V	**Teacher Specific Module**		**20**

Essential Readings:

- Business Research Methods – Donald Cooper & Pamela Schindler, TMGH, 9th edition
- Business Research Methods – Alan Bryman & Emma Bell, Oxford University Press.
- Research Methodology – C.R.Kothari
- Denzin, Norman K. and Lincoln, Yvonna S. (1994). Hand Book of Qualitative Research. New Delhi: Sage Publications.
- Festinger, U & Katz.., (1972). Research Methods in Behavioural Sciences
- Hadin, Catherine, (1987). Research Design: Strategies and Choices in the design of Social Research. London: Allen and Unwin.
- Nisbet (ed.). (1985). Research, Policy and Perspective. London: Kogan Page.
- Peokewits, T. (1984). Paradigm and Ideology in Educational research. London: Palmer Press.
- University Grants Commission (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Education Institutions) Regulations, 2017

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU7DSCBBL401: RETAIL SUPPLY CHAIN MANAGEMENT

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VII	DSC	400-499	KU7DSCBBL401	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description: The course provides an in-depth understanding of the structure, functioning, and strategies of retail supply chains. It focuses on the integration of supply chain concepts within the retail environment to enhance operational efficiency, responsiveness, and customer satisfaction. Students will learn how to manage supply chain processes, retail logistics, procurement, inventory, and distribution using analytical and strategic approaches. The course also emphasizes the use of technology, sustainability, and innovation in modern retail operations

.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Explain the structure, functions, and key components of retail supply chains.	U, An
2	Analyze demand forecasting, procurement, and inventory strategies in retail logistics.	U, Ap
3	Evaluate the role of technology and information systems in retail supply chain performance.	An, C
4	Develop sustainable and customer-centric supply chain models for retail operations.	Ap
5	Apply strategic and analytical tools for optimizing supply chain decisions.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I	**Introduction to Retail Supply Chain Management**		**10**
	1	Fundamentals of Retail and Supply Chain Concepts: -Evolution and growth of retailing; Supply chain structure, objectives, and importance; Difference between traditional and retail supply chains; Key stakeholders in retail SCM. Supply chains for E Commerce	
	2	Retail Supply Chain Network Design: - Network configuration and facility location; Channel design strategies; Role of intermediaries and distribution centers; Omni channel supply chain integration	
II	**Procurement, Inventory, and Demand Management**		**15**
	3	Procurement and Vendor Management: - Strategic sourcing and supplier selection; Vendor evaluation and relationship management; Procurement risk management and cost optimization.	
	4	Demand Forecasting and Inventory Control:- Forecasting techniques in retail operations; Inventory classification and replenishment systems; JIT, VMI, and EOQ models in retail; Managing stock outs and overstock situations.	
III	**Logistics, Distribution, and Technology Integration**		**15**

	5	Retail Logistics and Distribution Management: -Transportation planning and route optimization; Warehouse design and operations; Reverse logistics and returns management; Last-mile delivery challenges.	
	6	Technology and Automation in Retail SCM: - Information System for Supply chain Management: Key Features in Conventional and E Commerce systems. Role of ERP, RFID, and WMS; Artificial Intelligence and IoT in retail logistics; E-commerce and digital supply chain trends; Data analytics for decision support.	

IV	**Strategic and Sustainable Supply Chain Management**		**15**
	7	Strategic Supply Chain Planning: - Competitive advantage through SCM; Performance metrics and KPIs in retail supply chains; Outsourcing and 3PL/4PL strategies.	
	8	Sustainability and Risk Management: - Green logistics and sustainable sourcing; Ethical issues and social responsibility in retail SCM; Risk identification and mitigation strategies.	

V	**Teacher Specific Module**	**20**
	To be developed by the instructor based on specific academic or industry focus areas. Suggested Focus Areas: Case studies on Indian/global retail giants (e.g., Walmart, Amazon, Reliance Retail); Research seminars or mini-projects; Guest lectures from industry experts; Simulation or software-based exercises	

Essential readings

- Chopra, S., & Meindl, P. Supply Chain Management: Strategy, Planning, and Operation. Pearson.
- Christopher, M. Logistics and Supply Chain Management. Pearson Education.
- Fernie, J., & Sparks, L. Logistics and Retail Management. Kogan Page.
- Levy, M., & Weitz, B. A. Retailing Management. McGraw-Hill Education.

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU7DSCBBL402: WAREHOUSING ICD AND PACKAGING

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VII	DSC	400-499	KU7DSCBBL402	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course in Logistics Management focuses on the integrated concepts of Warehousing, Inland Container Depots (ICDs), and Packaging, which are crucial components in the logistics and supply chain ecosystem. The course aims to equip students with comprehensive knowledge of warehouse design and operations, ICD functions and management, and the science and technology of packaging. It emphasizes practical applications, industry standards, and emerging trends to prepare students for managerial roles in logistics, distribution, and export-import operations

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Understand the role and significance of warehousing, ICDs, and packaging in logistics and supply chain management	U, An
2	Analyze warehouse operations, layout, and design principles for improved efficiency.	U, Ap
3	Explain the functioning and importance of ICDs and CFSs in international trade.	An, C
4	Evaluate different packaging materials, techniques, and technologies for logistics. Apply integrated approaches to optimize warehousing, ICD, and packaging operations.	Ap
5	Interpret global standards and sustainability practices in packaging and warehousing.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7

CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I	**Warehousing Fundamentals**		**10**
	1	Introduction to Warehousing: Definition, objectives, and importance of warehousing – Evolution of warehouse systems – Role of warehousing in logistics – Types of warehouses – Public, private, bonded, and distribution centers	
	2	Warehouse Operations and Functions: Receiving, inspection, storage, picking, and dispatch – Inventory control methods – Material handling systems – Warehouse documentation – Warehouse safety and maintenance. Value added services in warehousing	
II	**Warehouse Design and Technology**		**15**
	3	Warehouse Layout and Design. Design principles – Layout planning – Space optimization – Dock and yard design – Equipment selection – Cost and capacity planning- Cost element- Issues Faced	
	4	Warehouse Automation and Information Systems. Warehouse Management System (WMS) – Barcoding and RFID – Automated Storage and Retrieval Systems (AS/RS) – Robotics in warehousing – Emerging technologies in smart warehousing.	
III	**Inland Container Depots (ICDs) and CFSs**		**15**
	5	Overview of ICDs and CFSs:- Concept and functions of ICDs and CFSs – Importance in EXIM trade – Infrastructure and facilities – ICD network in India – Legal and regulatory framework.	

	6	ICD Operations and Documentation:- Cargo handling and storage – Customs clearance processes – Role of shipping lines and freight forwarders – EDI systems – Coordination with ports and transport operators.	

IV	**Packaging for Logistics**		**15**
	7	Principles and Functions of Packaging Functions of packaging – Types of packaging materials – Packaging levels: primary, secondary, and tertiary – Labeling, barcoding, and marking – Cost and sustainability aspects.	
	8	Packaging Design and Innovations:-Design considerations for logistics – Packaging for various modes of transport – Containerization and palletization – Sustainable packaging – International packaging standards (ISO, ISPM, etc.).	

V	**Teacher Specific Module**	**20**
	This module is flexible and designed by the instructor. It may include case studies, industrial visits, project work, research discussions, guest lectures, or contemporary topics related to warehousing, ICD, and packaging innovations.	

Essential Readings

Bartholdi, J. J., & Hackman, S. T. (2019). *Warehouse & distribution science* (Release 0.98). The Supply Chain and Logistics Institute, Georgia Institute of Technology.

- Richards, G. (2017). *Warehouse management: A complete guide to improving efficiency and minimizing costs in the modern warehouse* (3rd ed.). Kogan Page Publishers.

- Rushton, A., Croucher, P., & Baker, P. (2017). *The handbook of logistics and distribution management* (6th ed.). Kogan Page Publishers.

- Lambert, D. M., Stock, J. R., &Ellram, L. M. (2020). *Fundamentals of logistics management* (2nd ed.). McGraw-Hill Education.

- Lönnqvist, T., Hellström, D., & Saghir, M. (2016). *Packaging logistics: Understanding and managing the economic and environmental impacts of packaging in supply chains*. Lund University Press.

- Baker, P., & Canessa, M. (2020). *Warehouse design and management* (2nd ed.). Springer.

- Ram, B., & Sahay, B. S. (2018). *Supply chain management: For global competitiveness* (2nd ed.). Macmillan India.

- Sridharan, R. (2015). *Logistics management and supply chain management.* Tata McGraw-Hill Education.

- Chopra, S., & Meindl, P. (2021). *Supply chain management: Strategy, planning, and operation* (8th ed.). Pearson Education.

- Gopal, C., & Puranik, N. (2018). *Logistics and supply chain management.* McGraw-Hill Education.

- Das, S. (2019). *Inland container depots and container freight stations: Operations, management, and policies in India.* New Age International Publishers.

- Kulkarni, G. K., & Chandrasekaran, N. (2017). *Warehousing and distribution logistics.* Himalaya Publishing House.

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU7DSCBBL403: TRANSPORTATION AND FLEET MANAGEMENT

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VII	DSC	400-499	KU7DSCBBL403	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course provides an overview of transportation systems and fleet operations in logistics. It covers different modes of transport, vehicle management, cost control, legal aspects, and modern technologies like GPS and Transport Management Systems. Students will learn how to plan, operate, and manage fleets efficiently to ensure timely, safe, and cost-effective movement of goods.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Understand the role and importance of transportation in logistics and supply chain management.	U
2	Identify and evaluate different modes of transport and their operational characteristics.	U
3	Plan and manage fleet operations, including vehicle selection, scheduling, and maintenance.	An
4	Analyze transportation costs and apply methods for cost control and optimization.	U
5	Interpret transport-related documents and understand legal and safety regulations.	C
6	Apply sustainable and innovative practices in transportation management.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					

CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I	**Module 1: Introduction to Transportation Management**		**10**
	1	Meaning, nature, and importance of transportation in logistics Role of transportation in the supply chain	
	2	Types of transportation modes – Road, Rail, Air, Water, Pipeline. Factors affecting the choice of transport mode. Operations of Transportation. Terminals related to each mode of transportation Principles of effective transportation system	
II	**Module 2: Road Transportation and Fleet Operations**		**15**
	3	Road transport industry in India-Types of vehicles and their applications Vehicle selection and capacity planning-Vehicle scheduling and routing	
	4	Fleet size determination and utilization-Vehicle maintenance and replacement policies	
III	**Module 3: Fleet Management and Control**		**15**
	5	Concept and objectives of fleet management-Elements of fleet management system-Role of fleet manager and responsibilities	
	6	Spare parts management-Fuel management and cost control	
IV	**Module 4: Transport Documentation and Legal Framework**		**15**
	7	Transport documentation – consignment note, waybill, lorry receipt, bill of lading, delivery challan, etc.-Motor Vehicle Act and road transport regulations	

	8	Insurance and liability issues in transport-Permits and licenses for transport operators-Safety norms and driver welfare regulations	

V	**Teacher Specific Module**	**20**
	Case studies on successful fleet management practices-Future challenges and opportunities in transportation sector	

Essential Readings:

- Dr. Krishnaveni, R. – Logistics and Supply Chain Management
- Sunil Chopra & Peter Meindl – Supply Chain Management: Strategy, Planning, and Operation
- S.C. Sharma & Kamal Deep – Transportation and Distribution Management
- John J. Coyle et al. – Transportation: A Supply Chain Perspective

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU7DSCBBL404: PROCUREMENT AND MATERIALS MANAGEMENT

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VII	DSC	400-499	KU7DSCBBL404	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course provides an understanding of the principles and practices involved in the effective management of materials and procurement processes. It covers purchasing procedures, vendor selection, inventory control, and store management. Students will learn how to ensure the right materials are available at the right time, in the right quantity, and at the right cost. The course also introduces modern concepts like e-procurement, ERP systems, and sustainable sourcing practices essential for efficient supply chain operations.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Understand the role and importance of procurement and materials management in business operations	U
2	Apply effective purchasing and vendor management techniques.	U
3	Manage inventory efficiently using modern control methods and analytical tools.	An
4	Organize and control store operations for smooth material flow.	U
5	Utilize technology such as ERP and e-procurement in materials management.	C
6	Incorporate sustainable and ethical practices in sourcing and material handling.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	

CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I	**Module 1: Introduction to Materials Management**		**10**
	1	Meaning, nature, and scope of materials management-Objectives and importance in manufacturing and service organizations	
	2	Functions and responsibilities of the materials manager-Relationship of materials management with other functional areas-Materials management process and cycle	
II	**Module 2: Procurement Management**		**15**
	3	Meaning and objectives of procurement-Principles and steps in purchasing process. Domestic purchasing- international Purchasing-Steps and documents involved.	
	4	Types of buying: centralized vs decentralized purchasing-Negotiation techniques and purchase order systems-Make or buy decisions-Ethical issues in purchasing	
III	**Module 3: Inventory Management**		**15**
	5	Concept and importance of inventory control-Types of inventory and their classification-Techniques of inventory management – EOQ, ABC, VED, FSN, and JIT	
	6	Inventory costs and valuation methods-Safety stock and reorder level concepts	
IV	**Module 4: Stores Management**		**15**
	7	Objectives and functions of storekeeping-Layout and location of stores Receipt, inspection, and issue of materials	
	8	Codification and standardization of materials-Materials handling, storage, and preservation	
V	**Teacher Specific Module**		**20**

	Role play: Buyer–Seller negotiation,Guest lecture from procurement executive,Discussion on inventory management in retail stores	

Essential Readings:

- .Gopalakrishnan, P. &Sundaresan, M. – Materials Management: An Integrated Approach
- Baily, P. et al. – Procurement Principles and Management
- K. ShridharBhat – Materials Management
- Chopra, S. &Meindl, P. – Supply Chain Management: Strategy, Planning and Operation

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

SEMESTER VIII

SEMESTER VIII

Course Category	*Code*	*Credit*	*Course*	*Major/ Elective*	*Code*	*Hours / Week*
Discipline Specific Core Courses (DSC)	KU8DSCBBL400	4	Cold Chain Logistics	Major	A23	5
	KU8DSCBBL401	4	Retail and Ecommerce Logistics	Major	A24	5
	KU8DSCBBL402	4	Customs and Export Documentation	Major	A25	5
Discipline Specific Elective Courses (DSE)	KU8DSEBBL400	4	Logistics Costing and Performance Analysis	Major Elective	A26	5
	KU8DSEBBL401	4	Reverse and Green Logistics	Major Elective	A27	5
	KU8DSEBBL402	4	Risk Management in Supply Chains	Major Elective	A28	5
Project	KU8RPHBBL401	12	Project in Major Discipline			12

KU8DSCBBL400: COLD CHAIN LOGISTICS

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VIII	DSC	400-499	KU8DSCBBL400	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course provides comprehensive knowledge of Cold Chain Logistics and Management, focusing on the transportation, storage, and handling of temperature-sensitive products such as food, pharmaceuticals, and chemicals. It emphasizes the importance of infrastructure, regulatory compliance, sustainability, and technological innovations in maintaining product quality and safety across the supply chain.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Understand the concept, scope, and significance of cold chain logistics	U
2	Identify the key infrastructure and technologies used in cold storage and transport	U
3	Analyze packaging, handling, and transportation processes for temperature-sensitive goods.	An
4	Apply quality assurance, risk management, and regulatory practices in cold chain operations.	U
5	Evaluate sustainability strategies and technological advancements in cold chain systems.	C
6	Design efficient cold chain management processes integrating logistics and digital tools.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				

CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I		**Introduction to Cold Chain Logistics and Management**	**15**
	1	Definition and Importance – Perishable Product Categories – Temperature Ranges – Global Trends and Stakeholders**.** Cold Chain Infrastructure and Storage Systems. Containers and their Logistics. Refrigerated Vehicles and Ships- Uses in cold chain logistics	
	2	Refrigerated Warehouses and Cold Rooms – Controlled and Modified Atmosphere Storage – Equipment Management – Warehouse Operations – Automation	
II		**Packaging and Handling for the Cold Chain**	**15**
	3	Insulated Packaging Materials – Packaging Techniques – Handling Procedures- Transportation and Distribution Systems -Modes of Transport – Vehicle Design and Functioning – Route Planning and Optimization – Multimodal Transport – Last-mile Delivery.	
III		**Temperature Monitoring and Information Systems**	**10**
	4	Fundamentals of temperature assessment-Monitoring Technologies – Alert Systems – Data Analytics and Traceability – Validation and Calibration.	
		Data base management for for temperature data, Integration of SCADA and IoT platforms.	
IV		**Quality Assurance, Regulatory Compliance, and Risk Management**	**15**
	5	Industry Standards and Regulations- quality standards and frame work, Quality control and quality assurance– Risk Assessment and Mitigation	

	6	Regulatory compliance-industry specific, National and International Regulatory bodies Documentation and Reporting requirements ,Audits – Safety and Security. Risk Management- Types of risk, Risk identification, mitigation and management	

V	**Teacher Specific Module**	**20**
	Sustainability and Emerging Trends in the Cold Chain Environmental Impact – Green Logistics – Technological Innovations – Case Studies.	

Essential Readings:

1. "Cold Chain Management for the Fresh Produce Industry" – Michael J. Bourlakis & Paul Weightm.

2. "Cold Chain Logistics: Management, Storage, and Transportation of Perishable Goods" – James A. Cooke.

3. "Food Supply Chain Management and Logistics: From Farm to Fork" – Samir Dani

4. "Global Logistics and Supply Chain Management" – John Mangan & Chandra Lalwani

5. "The Handbook of Logistics and Distribution Management" – Alan Rushton, Phil Croucher, & Peter Baker.

6.WHO, FDA, and FSSAI Guidelines on Cold Chain Logistics.

7.ISO Standards for Cold Chain Management.

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU8DSCBBL401: RETAIL AND E-COMMERCE LOGISTICS

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VIII	DSC	400-499	KU8DSCBBL401	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course introduces the fundamental concepts of retail and e-commerce logistics, focusing on the flow of goods, information, and resources from suppliers to customers. Students will gain insights into inventory and warehouse management, transportation, distribution, and technological innovations that drive efficiency in logistics operations.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Understand the key concepts and importance of logistics and supply chain management in retail and e-commerce.	U
2	Identify inventory and warehouse management systems and their role in efficient order fulfillment.	U
3	Analyze transportation modes, distribution systems, and last-mile delivery challenges in logistics.	An
4	Apply technology and automation tools for effective e-commerce logistics management.	U
5	Evaluate sustainability and strategic practices in global and retail logistics operations.	C
6	Design and optimize logistics strategies integrating business goals and digital innovation.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					

CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I	**Introduction to Retail and E-Commerce Logistics**		**15**
	1	Definition, nature, scope, and importance of logistics.-Concept and evolution of supply chain management.-Differences between logistics and supply chain management.	
	2	Overview of retail industry and e-commerce business models (B2B, B2C, C2C, etc.) Logistics role in retailing – store-based vs online distribution. E-commerce logistics ecosystem and key players.-Relationship between marketing, logistics, and customer service.-Challenges and trends in retail and e-commerce logistics.	
II			**15**
	3	Core logistics functions: procurement, material handling, transportation, warehousing, inventory, and order processing.-Distribution network design: centralized vs. decentralized systems. Retail distribution channels – direct, indirect, and omni channel strategies.-Concepts of 3PL (Third-Party Logistics), 4PL (Fourth-Party Logistics), and 5PL models. Vendor-managed inventory (VMI) and collaborative logistics.	
		Role of intermediaries and service providers in e-commerce logistics. Cost–service trade-offs in logistics-Performance evaluation of distribution systems.	
III			**10**
	4	Meaning and types of inventory: raw materials, WIP, finished goods. Objectives and functions of inventory management.Inventory control techniques: EOQ, ABC analysis, VED analysis, JIT, and safety stock.	

	5	Role and types of warehouses – private, public, bonded, distribution centers, and fulfilment centers. Warehouse location, layout design, and material handling systems. Automation in warehouse operations – RFID, robotics, drones, and barcoding. Returns and reverse logistics management in e-commerce.	

IV			**15**
	6	Importance of transportation in retail logistics.-Modes of transport – road, rail, air, sea, and multimodal transport.-Carrier selection, freight negotiation, and route optimization.Packaging and labeling requirements in e-commerce.	
	7	Concept of last-mile delivery – challenges and solutions.-Innovative delivery models: dark stores, micro-fulfillment, drone delivery, and locker systems.-Key performance indicators (KPIs) for transportation and delivery.	

V	**Teacher Specific Module**	**20**
	Legal framework governing retail and e-commerce logistics in India.-CSR and ethical issues in logistics operations. Risk management in logistics – operational, financial, and cyber risks. Case studies	

Essential Readings:

1. Chopra, S. &Meindl, P. (2019). Supply Chain Management: Strategy, Planning, and Operation. Pearson.
2. Christopher, M. (2016). Logistics and Supply Chain Management. Pearson UK.
3. Rushton, A., Croucher, P., & Baker, P. (2017). The Handbook of Logistics and Distribution Management.Kogan Page.
4. Bowersox, D. J., Closs, D. J., & Cooper, M. B. (2012). Supply Chain Logistics Management. McGraw Hill.
5. Coyle, J. J., Langley, C. J., Novack, R. A., & Gibson, B. J. (2017). Supply Chain Management: A Logistics Perspective. Cengage.
6. Relevant journal articles and reports on E-commerce Logistics, Technology, and Sustainable Supply Chains.

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU8DSCBBL402: CUSTOMS AND EXPORT DOCUMENTATION

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VIII	DSC	400-499	KU8DSCBBL402	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course aims to provide learners with an understanding of export procedures, customs regulations,and the documentation required for international trade. It enables students to gain practical knowledgeof customs clearance, export incentives, and compliance with trade laws and digital systems.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Understand the fundamentals of export trade and customs procedures.	U
2	Explain the regulatory framework and export policies in India.	U
3	Prepare and interpret key export and customs documentation.	An
4	Describe the customs clearance process and EDI system operations.	U
5	Identify various export incentives and promotion schemes.	C
6	Apply INCOTERMS and international trade practices effectively.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I		**Introduction to Export and Customs Procedures**	**15**
	1	Meaning and Importance of Export Trade-Overview of International Trade and Export Process-Role and Functions of Customs Authorities-Organizational Setup of Customs in India	
	2	Legal Framework: Customs Act, 1962 and Customs Tariff Act, 1975. Key Terms: Exporter, Importer, Consignee, CHA, Freight Forwarder	
II		**Export Policy and Regulatory Framework**	**15**
	3	Overview of Foreign Trade Policy (FTP)-Role of DGFT, Export Promotion Councils, and Commodity Boards-Registration Process (IEC Code).Types of Exports: Restricted, Canalized, Prohibited, and Deemed Exports-SEZ and EOU Schemes.	
III		**Export Documentation**	**10**
	4	Importance and Classification of Export Documents-Commercial Documents: Invoice, Packing List, Certificate of Origin, etc.-Transport Documents: Bill of Lading, Airway Bill, Lorry Receipt	
		Insurance and Financial Documents: Marine Insurance Policy, Letter of Credit, Bill of Exchange, BRC-Document Preparation and Verification Process	
IV		**Customs Clearance Procedures**	**15**
	5	Step-by-Step Customs Clearance Process-Role of Customs House Agent (CHA)-Assessment, Examination, Let Export Order (LEO)-EDI and ICEGATE System .	
	6	Duty Drawback and Exemption Procedures Export Declarations: Shipping Bill, Bill of Export	

V	**Teacher Specific Module**	**20**
	Emerging Trends in Export and Customs-Digitalization of Trade and Paperless Customs-e-Sanchit and EDI Developments-AI in Export-Import Documentation-Green Customs and Sustainable Trade Practices. Practical Components-Preparation of a complete set of export documents. Case study on customs clearance process	

Essential Readings:

1. "International Trade and Customs: A Practical Guide" – David Widdowson & Stephen Holloway.

2. "Export/Import Procedures and Documentation" – Donna L. Bade

3. "Global Logistics and Supply Chain Management" – John Mangan, Chandra Lalwani & Tim Butcher

4. "International Logistics: The Management of International Trade Operations" – Pierre A. David

5. "A Practical Guide to Logistics: An Introduction to Transport, Storage, and Trade" – Jerry Rudd

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU8DSEBBL400: LOGISTICS COSTING AND PERFORMANCE ANALYSIS

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VIII	DSE	400-499	KU8DSEBBL400	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course provides comprehensive insights into the principles, tools, and practices of logistics costing and performance analysis. It focuses on the cost implications of logistics activities, methods for controlling and optimizing these costs, and performance measurement systems that ensure operational efficiency and strategic competitiveness. The course integrates theoretical concepts with practical applications and case studies from logistics and supply chain industries.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	Explain the cost structures and financial dynamics involved in logistics operations.	U
2	Apply advanced costing and budgeting techniques to logistics decision-making.	U
3	Evaluate logistics performance using quantitative and qualitative metrics.	An
4	Formulate cost optimization strategies and performance improvement plans.	U
5	Interpret logistics performance data for strategic decision-making and policy formulation.	C

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				

CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I		**Introduction to Logistics and Cost Structures**	**15**
	1	Concept and scope of logistics costing; importance of cost management in logistics. Components of logistics costs: transportation, warehousing, inventory, order processing, and administrative costs. Relationship between logistics and total cost approach in supply chain management. Role of financial control in logistics decision-making.	
	2	Cost Classification and Cost Behavior in Logistics- Classification of costs: direct and indirect, fixed and variable, controllable and uncontrollable. Cost behavior patterns in logistics activities. Break-even analysis and cost-volume-profit relationships in logistics. Marginal costing and decision-making applications.	
II		**Costing Techniques in Logistics**	**15**
	3	Activity-Based Costing (ABC) and Its Applications-Principles and need for Activity-Based Costing in logistics- Identifying cost drivers and activities in logistics operations-Implementation of ABC in transportation, warehousing, and inventory management-Comparative analysis of ABC and traditional costing systems.	
	4	Cost Allocation and Budgeting Methods- Methods of cost allocation for logistics functions. Cost budgeting and variance analysis in logistics operations. Tools for cost control: standard costing, responsibility accounting. Forecasting logistics expenses and cost modeling techniques.	
III		**Performance Measurement and Analysis**	**10**

	5	Key Performance Indicators (KPIs) in Logistics and Supply Chain-Defining performance indicators for logistics functions-Financial and non-financial metrics: cost efficiency, delivery reliability, customer service level Benchmarking logistics performance. Designing dashboards for logistics performance monitoring.	
	6	Balanced Scorecard and Performance Benchmarking: Balanced scorecard approach in logistics management. Linking logistics performance with organizational goals. Techniques for benchmarking best practices in logistics. Case studies on performance measurement systems.	

IV	**Cost Optimization and Decision Making**		**15**
	7	Strategic Cost Management in Logistics Concept and significance of strategic cost management Cost reduction vs. cost optimization. Lean logistics and waste elimination techniques. Life cycle costing and sustainability considerations in logistics.	
	8	Tools for Logistics Performance Improvement Application of Total Quality Management (TQM) and Six Sigma in logistics. Use of analytics and technology in logistics performance evaluation. Simulation and scenario analysis for logistics cost optimization. Decision support systems for logistics management.	

V	**Teacher Specific Module**	**20**
	This module will be customized by the course instructor to include contemporary topics, recent trends, and research developments in logistics costing and performance analysis. It may involve case studies, seminars, industry interactions, or research paper reviews.	

Essential Readings:

1. Christopher, M. (2020). Logistics and Supply Chain Management. Pearson Education.

2. Lambert, D. M., Stock, J. R., & Ellram, L. M. (2019). Fundamentals of Logistics Management. McGraw-Hill.

3. Rushton, A., Croucher, P., & Baker, P. (2022). The Handbook of Logistics and Distribution Management. Kogan Page.

4. Bowersox, D. J., Closs, D. J., & Cooper, M. B. (2021). Supply Chain Logistics Management. McGraw-Hill Education.

5. Chopra, S., & Meindl, P. (2023). Supply Chain Management: Strategy, Planning, and Operation. Pearson.

6. Waters, D. (2018). Quantitative Techniques for Logistics. Palgrave Macmillan.

7. Harrison, A., & Van Hoek, R. (2020). Logistics Management and Strategy. Pearson Education.

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU8DSEBBL401: REVERSE AND GREEN LOGISTICS

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VIII	DSE	400-499	KU8DSEBBL401	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description:

This course provides an understanding of environmentally responsible logistics practices and the management of reverse flows in the supply chain. It explores sustainable logistics strategies, waste reduction, recycling, and the role of green initiatives in achieving economic and ecological efficiency.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	To understand the concept and scope of reverse logistics.	U
2	To examine green logistics principles and their impact on sustainability.	U
3	To analyze processes related to product returns, recycling, remanufacturing, and waste management.	An
4	To develop knowledge of sustainable supply chain strategies and regulatory frameworks.	U
5	To examine the processes involved in product returns, recycling, refurbishing, and waste management.	C
6	To develop awareness of environmental issues affecting logistics and supply chain operations.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I		**Introduction to Reverse Logistics**	**10**
	1	Concept and importance of reverse logistics-Forward vs. reverse logistics-Drivers of reverse logistics-barriers of reverse logistics	
	2	Return management process-Product recovery and reuse-Collection-Inspection-Sorting-Disposition	
II		**Components of Reverse Logistics**	**15**
	3	Repair, refurbishing, remanufacturing, recycling, and disposal-Reverse logistics network design-waste management-	
	4	Cost–benefit analysis of reverse logistics-Role of IT in reverse logistics-Cost analysis and performance management	
III		**Green Logistics: Concepts and Principles**	**15**
	5	Meaning and scope of green logistics-Environmental sustainability in logistics-Evolution of green logistics-Challenges and opportunities	
	6	Carbon footprint and emissions management-Green supply chain and eco-design-Life cycle assessment (LCA) of logistics activities	
IV		**Sustainable Practices in Logistics**	**15**
	7	Packaging and waste reduction strategies-Energy-efficient transportation and warehousing-Green labelling and environmental certifications.	
	8	Sustainable procurement-Role of renewable energy in logistics operations-International environmental standards (ISO 14001,ISO 50001).	
V		**Teacher Specific Module**	**20**

	Analyze real-life examples of companies using green logistics (e.g., DHL, Toyota, Amazon),Design posters showing eco-friendly logistics systems, recycling loops, or carbon footprint reduction strategies.	

Essential Readings:

- Rogers, D. S., &Tibben-Lembke, R. S. (1999). Going Backwards: Reverse Logistics Trends and Practices.
- Sarkis, J. (2012). Greening the Supply Chain. Springer.
- Srivastava, S. K. (2008). Green Supply Chain Management: A State-of-the-Art Literature Review.
- Coyle, J. J., Langley, C. J., Novack, R. A., & Gibson, B. J. Supply Chain Management: A Logistics Perspective.
- Relevant journals and government sustainability reports.

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

KU8DSEBBL402: RISK MANAGEMENT IN SUPPLY CHAINS

Semester	Course Type	Course Level	Course Code	Credits	Hours /Week
VIII	DSE	400-499	KU8DSEBBL402	4	5

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE	Total	
3	2	0	25T+10 P	50T+15P	100	1.5

Course Description: This course focuses on identifying, assessing, and mitigating risks that can disrupt supply chain operations. Students will learn how to develop strategies to manage uncertainties related to procurement, production, transportation, demand fluctuations, and global supply disruptions. Emphasis is placed on practical approaches, case studies, and analytical tools used in supply chain risk management to enhance resilience and ensure business continuity.

Course Outcomes:

Co No.	Expected Outcome	Learning Domains
1	identify different types of risks in supply chain operations.	U
2	identify, assess, and manage risks in various stages of the supply chain.	U
3	To analyze tools and techniques for supply chain risk mitigation.	An
4	To enhance strategic decision-making through risk analysis and resilience planning.	U
5	Evaluate the impact of risk on supply chain performance	C
6	Develop a resilient and sustainable supply chain model.	Ap

****Remember (R), Understand (U), Apply (A), Analyse (An), Evaluate (E), Create (C)***

Mapping of Course Outcomes to PSOs

	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7
CO 1	√						
CO 2		√					
CO 3			√				
CO 4				√		√	
CO 5					√		√

COURSE CONTENTS

Contents for Classroom Transaction:

MODULE	UNIT	DESCRIPTION	HOURS
I		**Concept and Nature of Risk**	**10**
	1	Meaning, types, and classification of risks; Business and operational risks,Concept of risk appetite and tolerance. Role of risk management in modern enterprises,risk, performance and cost.	
	2	Definition, objectives, and components of SCMFlow of goods, information, and financeRelationship between SCM and risk	
II		**sources of Supply Chain Risks**	**15**
	3	Internal and external risk factors Supplier, logistics, demand, and environmental risks. Components of supply chain suppliers, manufactures distributors, retailers.	
	4	Risk mapping and profiling Probability–impact analysis, FMEA, and scenario analysis.	
III		Risk Mitigation Strategies	**15**
	5	Risk avoidance, reduction, transfer, and acceptanceRole of insurance and contracts. Internal and external risk Risk interconnections in global supply chain.	
	6	Flexibility, redundancy, collaboration, and agility Case studies of resilient supply chains.principles of resilieance ,crisis management.	
IV		Technology and Sustainable Risk Management	**15**
	7	Digital tools, blockchain, and AI in supply chain monitoring Predictive analytics for risk forecasting. Block chain for transparency and transperancy.	
	8	Environmental, social, and governance (ESG) risks Green and sustainable supply chains,Ethical sourcing , managing geopolitical audits.	

V	**Teacher Specific Module**	**20**
	merging risks in global supply chains (pandemics, geopolitics, cyber threats) *Case discussions / student project presentations*	

Essential Readings:

1.Christopher, M. (2016). Logistics & Supply Chain Management (5th ed.). Pearson Education. Focuses on supply chain strategy and risk mitigation through resilience and agility.

2.Jüttner, U. (2005). Supply Chain Risk Management: Understanding the Business Requirements from a Practitioner Perspective. The International Journal of Logistics Management, 16(1), 120–141. Classic paper defining supply chain risk types and management strategies.

3. Tang, C. S. (2006). Perspectives in Supply Chain Risk Management. International Journal of Production Economics, 103(2), 451–488.Explores different frameworks for managing disruptions and uncertainties.

4. Waters, D. (2011). Supply Chain Risk Management: Vulnerability and Resilience in Logistics. Kogan Page. Provides detailed methods to identify, assess, and mitigate risks in logistics operations.

5. Sodhi, M. S., & Tang, C. S. (2012). Managing Supply Chain Risk. Springer.
Covers quantitative and qualitative approaches to risk management in modern supply chains.

Assessment Rubrics:

Evaluation Type		**Marks**
End Semester Evaluation		**50**
Case Study (Practicum)		**15 (P)**
Presentation/ Case Study		**10 (P)**
Continuous Evaluation		**25**
a)	Test Paper- 1	7.5
b)	Test Paper-2	7.5
c)	Assignment	5
d)	Seminar/Book/ Article Review/ Viva-Voce/Field Report	5
Total		**100**

PROJECT

KU8RPHBBL400: PROJECT IN MAJOR DISCIPLINE

Semester	Course Type	Course Level	Course Code	Credits	Hours/Week
VIII	Project	400-499	KU8RPHBBL400	8	8

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE Viva Voce	Total	
8	-	-	60	140	200	-

This course is designed for BBA Logistics Honours students, offering them an opportunity to delve deeply into a topic of their choice, under pinned by rigorous research and creative methodology. It is an invitation to embark on an academic voyage that prioritizes critical thinking, problem-solving, and innovation, all within the framework of scholarly research. Students will engage in a self-directed project that not only contributes to their field of study but also encourages a personal journey of discovery and intellectual growth.

	PROJECT GUIDELINES	
	In Honours programme, the student should do a Project of 8-credits in Semester VIII. The Project can be done in the same institution/ any other higher educational institution (HEI)/ research centre/ training centre. The Project in Honours programme can be a short research work or an extended internship or a skill-based training programme. A faculty member of the respective institution, where the student does the Project, should be the supervisor of the Project.	

FORMAT OF PROJECT REPORT

The report shall be printed and bound (preferably hard paper bound) with not less than 60 (A4 size) pages. The matter should be typed with double line spacing. The Font Size for the text should be 12 with style Times New Roman. One inch margin should be left on top and bottom of the page, as well as left and right side of the typed pages.

1. Preface Section:Title page of the report – Declaration by the student – Certificate from supervisory faculty counter Signed by Head of the Institution. - Acknowledgement - Chapter content – List of tables- List of figures

2.Executive Summary (Minimum one page)

3.Chapters

Chapter 1: Introduction :

includes statement of the problem, objectives of the study, scope of the study, hypotheses if any, methodology employed, and limitations of the study

Chapter2: Industry profile/Company profile/Product profile/ Unit of study

Chapter 3: Review of literature

The review should be conducted by referring similar nature of studies conducted in academic journals, books, magazines, newspapers and other published sources

Chapter4: Data analysis and interpretation

Data should be described and the collected data should be analyzed using appropriate tools

Chapter5: Findings, Conclusion and Recommendations

Bibliography

It should be prepared based on the guidelines prepared and updated by the American Psychological Association (APA style).

	EVALUATION OF PROJECT	
	The evaluation of project work shall be done internally through continuous assessment mode by a committee internally constituted by the Department Council. The remaining70% shall be awarded by the External Examiner appointed by the University. The scheme of continuous evaluation and the end-semester viva-voce of the project	

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		**140**
Project Report		40
Methodology		20
Knowledge in Topic		20
Researcher's Contribution		20
Response to Questions		20
Communication		20
Continuous Evaluation		**60**
a)	Clarity of Report	15
b)	Creativity and Originality	15
c)	Methodology	15
d)	Viva-Voce	15
Total		**200**

KU8RPHBBL401: RESEARCH PROJECT IN MAJOR DISCIPLINE

Semester	Course Type	Course Level	Course Code	Credits	Hours/Week
VIII	Research Project	400-499	KU8RPHBBL401	12	12

Learning Approach (Hours/ Week)			Marks Distribution			Duration of ESE (Hours)
Lecture	Practical/ Internship	Tutorial	CE	ESE Viva Voce	Total	
12	-	-	90	210	300	-

This course is designed for BBA Logistics Honours with Research students, offering them an opportunity to delve deeply into a topic of their choice, under pinned by rigorous research and creative methodology. It is an invitation to embark on an academic voyage that prioritizes critical thinking, problem-solving, and innovation, all within the framework of scholarly research. Students will engage in a self-directed project that not only contributes to their field of study but also encourages a personal journey of discovery and intellectual growth.

	PROJECT GUIDELINES	
	In Honours with Research Programme, the student should do a Project of 20 Credits in Semester VIII. The Project can be done in the same institution or any other higher educational institution (HEI)/ research centre/ training centre. The Project in Honours with Research programme is a main research work A faculty member of the respective institution, where the student does the Project, should be the supervisor of the Project.	

FORMAT OF PROJECT REPORT

The report shall be printed and bound (preferably hard paper bound) with not less than100 (A4 size) pages. The matter should be typed with double line spacing. The Fond Size for the text should be 12 with style Times New Roman. One inch margin should be left on top and bottom of the page, as well as left and right side of the typed pages.

1. Title Page

The title page should succinctly capture the essence of the research while being inviting to a broad audience. It includes the thesis title, author's name, the institution, and the date. A compelling title can spark interest and set the stage for the narrative journey of the thesis.

2. Abstract

A well-crafted abstract serve as a microcosm of the research, providing a concise summary of the thesis's aim, methodology, findings, and implications. In this section, creativity lies in the ability to distil complex ideas into accessible language that entices a diverse readership.

3. Dedication and Acknowledgments

This section allows for personal expression, dedicating the work to individuals or groups who have been instrumental in the research journey. Acknowledgments give a human touch to the academic endeavour, highlighting the collaborative nature of knowledge creation.

4. Table of Contents

A navigational tool that should not only be functional but also reflective of the thesis's structure and creativity. Creative formatting and clear organization can make the table of contents an inviting roadmap to the thesis.

5. Introduction

The introduction lays the foundation, stating the research problem, objectives, and significance. Here, storytelling can be employed to weave a compelling narrative that frames the research question within a broader context, making it relevant to real-life situations.

6. Literature Review

A critical survey of existing literature, this section is an opportunity to

creatively synthesize and critique previous work, highlighting gaps the thesis aims to fill. The use of visual aids, such as mind maps or info graphics, can enrich this section by providing innovative summaries of complex academic dialogues.

7. Theoretical Framework

The theoretical frame work in research is a vital component that underpins and guides the entire research process. It serves as the foundation upon which the research is built, providing alens through which the study is conducted and understood. Essentially, the theoretical framework offers a structured approach to understanding, explaining, and making predictions about a given phenomenon or topic of interest. It does this by integrating concepts, theories, and models that are relevant to the research question or problem.

8. Methodology

Detailing the research design, methods, and analysis techniques, this section benefits from clarity and precision. Creative methodologies that utilize emerging technologies or inter disciplinary approaches can be highlighted here, showcasing the thesis's innovative edge.

9. Results and Discussion

This section presents the findings and interprets their implications. Creativity can be expressed through the use of visual story telling with charts, graphs, and illustrations to make data compelling and digestible. A narrative approach to discussing the results can link them to broader themes and real-world implications.

10. Conclusion and Recommendations

The conclusion synthesizes the findings, reflects on the research's limitations, and suggests future research directions. This section can be an avenue for visionary thinking, proposing creative applications of the research and its potential impact on society.

11. References

Adherence to academic standards is crucial in the references section, but creativity can be shown in the organization and presentation style, making it easier for readers to explore the cited works.

	12. Appendices This section can house supplementary material in various formats, including datasets, code, questionnaires, or multi media elements. Creatively integrating digital content can enhance the thesis's accessibility and engagement. 13. Digital and Interactive Elements Incorporating digital elements like hyperlinks to datasets, online platforms for interactive visualizations, or even augmented reality (AR) experiences can revolutionize the way findings are presented and engaged with.	

	EVALUATION OF PROJECT	
	The evaluation of project work shall be done internally through continuous assessment mode by a committee internally constituted by the Department Council. The remaining70% shall be awarded by the External Examiner appointed by the University. The scheme of continuous evaluation and the end-semester viva-voce of the project	

Assessment Rubrics:

Evaluation Type		Marks
End Semester Evaluation		**210**
Project Report		60
Methodology		30
Knowledge in Topic		30
Researcher's Contribution		30
Response to Questions		30
Communication		30
Continuous Evaluation		**90**
a)	Clarity of Report	20
b)	Creativity and Originality	20
c)	Methodology	20
d)	Viva-Voce	30
Total		**300**