

Supply Chain Risk Modeling and Management

Course Code	MLS 401	CIE Marks	50
Teaching Hours/Week (L:P: SDA)	4:0:0	SEE Marks	50
Total Hours of Pedagogy	50	Total Marks	100
Credits	4	Exam Hours	3

Course Learning objectives:

- Identify and Analyze Business Models, Business Strategies and, corresponding Competitive Advantage.
- Formulate and implement the Warehouse Best Practices and Strategies. This course enables the students to get an insight into valuable perspectives on supply chain vulnerabilities.
- With emphasis on data, models and modeling systems, the students can analyze supply chain planning problems.

MODULE – 1

7 HOURS

INTRODUCTION TO SUPPLY CHAIN RISK MANAGEMENT Concept, Definition, Importance and Scope. Important risk concepts – categorizing the risk – generic risk management approaches – Risk mitigation, Risk avoidance, Risk prevention, Risk acceptance, Risk sharing – Prevention Vs Responsiveness – Four pillars of Supply chain risk management – Supply chain risk management adoption.

MODULE – 2

9 HOURS

APPROACHES TO RISK MANAGEMENT Identifying Risks – Types of Risks, Tools for analyzing past events, Operations, Problems with Risk Identification, Measuring Risk, Consequences of Risk, Responding to Risk – Alternative responses, Defining Options, Choosing the best response, Implementation & Activation, A Network view of Risk – Shared Risks, Achieving an Integrated approach, Analyzing & responding to risks.

MODULE – 3

8 HOURS

OPERATIONAL STRATEGY FOR MANAGING SUPPLY CHAIN RISKS Introduction, Stockpile Inventory, Diversify Supply, Backup Supply, Manage Demand, Ambiguity in Risks. Decentralized Risks Management Strategy. Shared risks; Achieving an integrated approach; Identifying risks, Analyzing and responding to risks; Problems with integrating SCRM; Levels of SCRM integration; In summary

MODULE- 4

9 HOURS

FUTURE PROSPECTS IN SUPPLY CHAIN RISK MANAGEMENT Supply chain risk management predictions, Supply chain risk maturity model – Visibility, predictability, resilience, sustainability – A call to action - Establish the Risk Leadership Team, Establish Risk Crisis Teams, Focus on the Risk-Management Enablers, Assess the Current State of Risk Management Preparedness, Perform Risk Assessments and Develop Risk Management and Business Continuity Plans, Gain Visibility across the Supply Chain, Benchmark Risk Management Practices against Industry Leaders, Develop or Obtain the Tools, Techniques, and Risk Protocols.

MODULE – 5

9 HOURS

FUNDAMENTALS OF OPTIMIZATION MODEL Fundamentals of Optimization Models – Linear programming Modelling – Resource Allocation Model, Infeasible & Unbounded Models, Multiperiod

Resource Allocation Model, Network Models., Properties of Linear Programming Models, Dual Linear Programming Model, Parametric & Sensitivity Analysis., Spread sheet and Multiple Objective, unified Optimization, Stochastic Programming. Mixed Integer Programming Modelling, Distribution Centre Location Models, Supply Chain Network Optimization Models, Optimization Software.

MODULE – 6

8 HOURS

OPTIMIZATION MODEL FOR COMPETITIVE ANALYSIS Optimization Models for Competitive Analysis, Scenario Planning, Decision trees & Stochastic Programming, Supply Chain Strategies for managing Product Variety. Simulation Models & Systems – Deterministic Simulation, Monte Carlo Simulation, Simulation Software, Simulation Vs Optimization, Inventory Theory Models –Deterministic Models, Probabilistic Models, ABC Classification.

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements (passed) and earned the credits allotted to each course if the student secures not less than 50% in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

There shall be a maximum of 50 CIE Marks. A candidate shall obtain not less than 50% of the maximum marks prescribed for the CIE.

CIE Marks shall be based on:

- a) Tests (for 25Marks) and
- b) Assignments, presentations, Quiz, Simulation, Experimentation, Mini project, oral examination, field work and class participation etc., (for 25 Marks) conducted in the respective course. Course instructors are given autonomy in choosing a few of the above based on the subject relevance and should maintain necessary supporting documents for same.

Semester End Examination:

The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.

- The question paper will have 8 full questions carrying equal marks.
- Each full question is for 20 marks with 3 sub questions.
- Each full question will have sub question covering all the topics.
- The students will have to answer five full questions: selecting four full questions from question number one to seven in the pattern of 3, 7 & 10 Marks and question number eight is Compulsory.
- The SEE Question paper should have the weightage of 80% theory and 20% problems

LEARNING RESOURCES:

1. Gregory L. Schlegel, Robert J. Trent Supply Chain Risk Management: An Emerging Discipline (Resource Management) Hardcover – Import, 3 Nov 2014.
2. Donald Waters – Supply Chain Risk Management, Published by the Chartered Institute of Logistics & Transport, U.K
3. Jeremy F. Shapiro, Modelling the Supply Chain, Duxbury C.K

Web links and Video Lectures (e-Resources)

- <https://www.youtube.com/watch?v=Vpu8sUKtohw>
- <https://www.youtube.com/watch?v=Cu1ZUBCiMHw>
- <https://www.youtube.com/watch?v=j1PWXw7yST4>
- <https://www.youtube.com/watch?v=azmKiKk2bhw>
- <https://www.youtube.com/watch?v=Q35AsGJmCAM>

Course outcomes

At the end of the course the student will be able to:

1. Identify and Analyze Business Models, Business Strategies and, corresponding Competitive Advantage.
2. Formulate and implement the Warehouse Best Practices and Strategies by evaluating risk factors involved.

Course outcomes

At the end of the course the student will be able to:

S.No	Description	Blooms Level
CO1	Students will gain a deep understanding of the different types of risks that can impact supply chains.	L2
CO2	Learners will understand how to build more resilient supply chains capable of recovering from disruptions	L3
CO3	Participants will develop skills in crisis management and creating contingency plans for supply chain disruptions.	L6
CO4	Students will gain a global perspective on supply chain risks, including geopolitical, economic, and cultural risks.	L4
CO5	Students will apply theoretical knowledge to real-world scenarios.	L3
CO6	Learners will understand the ethical implications of supply chain risk management.	L5

Mapping of COS and Pos

	PO1	PO2	PO3	PO4	PO5	PSO 1	PSO 2	PSO 3	PSO 4
CO1	1	2	3						1
CO2		3	2					2	
CO3		2	1		3	2			
CO4	3						2		2
CO5	2	2	1				3	2	1

EMERGING TECHNOLOGY IN GLOBAL BUSINESS ENVIRONMENT			
Course Code	MLS 402	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	4:0:0	SEE Marks	50
Total Hours of Pedagogy	50	Total Marks	100
Credits	4	Exam Hours	3
Course Learning objectives:			
<ol style="list-style-type: none"> 1. To understand the emerging technologies applicable in field of Supply Chain Management. 2. To study data science as a tool for decision making in Supply Chain Management. 3. To understand the concept of AI, IOT and AR in Global Business Environment. 4. To study other emerging technologies in Management. 			
MODULE -1			7 HOURS
INTRODUCTION TO EMERGING TECHNOLOGIES AND GLOBAL ENVIRONMENT			
Evolution of technologies; Introduction to Industrial revolution; Historical background of the Industrial Revolution; Introduction to industrial revolution 4.0; Significance of data for emerging technologies; Programmable devices for emerging technologies; Human-machine interaction (HMI); Future vogue in emerging technologies.			
MODULE – 2			9 HOURS
EMERGING TECHNOLOGIES AS DRIVERS OF GLOBAL BUSINESS ENVIRONMENT			
Meaning; Artificial intelligence; Deep learning; Singularity technologies and its implications; Augmented reality; Virtual reality; Mixed reality; Additive manufacturing- advantages and disadvantages ; Mass customization and key benefits; Internet of things (IoT); Neuroscience in SCM.			
MODULE – 3			9 HOURS
NEW AGE ECONOMIES			
Circular economy: Concept, Definition, Linear economy: Concept, Definition, Difference; Significance of circular economy in SCM; Concepts of behavioral economics; Ethical concerns of behavioral economics; Integrated theory in SCM; Nature of economic nationalism and contemporary cases in economic nationalism; Sharing economy- new business models, Characteristic; Platforms and traditional business difference, Types.			
MODULE – 4			9 HOURS
CHANGING NATURE OF GLOBAL POLITICS			
Introduction to changing nature of global politics, Issues and challenges; Significance of authoritarianism and geo politics; Democratic driven strategies; The rise of China and its impact on global trade.			
MODULE – 5			9 HOURS
DIVERSITY OF DIFFERENT GENERATIONS			
Introduction; Diversity of the different generations; Cross- generational mentoring; Migration and human rights perspective; Factors affecting business environment; Trend of supply chain diversification; Post pandemic strategies of SCM.			
MODULE- 6			7 HOURS

ETHICS, PROFESSIONALISM AND OTHER EMERGING TECHNOLOGIES Technology and ethics; Digital privacy; Accountability and trust; Other technologies; Block chain technology; Cloud and quantum computing; Autonomic computing; Computer vision; Cyber security;

Assessment Details (both CIE and SEE)

The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing marks for the CIE is 50% of the maximum marks. Minimum passing marks in SEE is 40% of the maximum marks of SEE. A student shall be deemed to have satisfied the academic requirements (passed) and earned the credits allotted to each course if the student secures not less than 50% in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.

Continuous Internal Evaluation:

There shall be a maximum of 50 CIE Marks. A candidate shall obtain not less than 50% of the maximum marks prescribed for the CIE.

CIE Marks shall be based on:

- a) Tests (for 25Marks) and
- b) Assignments, presentations, Quiz, Simulation, Experimentation, Mini project, oral examination, field work and class participation etc., (for 25 Marks) conducted in the respective course. Course instructors are given autonomy in choosing a few of the above based on the subject relevance and should maintain necessary supporting documents for same.

Semester End Examination:

The SEE question paper will be set for 100 marks and the marks scored will be proportionately reduced to 50.

- The question paper will have 8 full questions carrying equal marks.
- Each full question is for 20 marks with 3 sub questions.
- Each full question will have sub question covering all the topics.
- The students will have to answer five full questions; selecting four full questions from question number one to seven in the pattern of 3, 7 & 10 Marks and question number eight is Compulsory.
- 100 Percent theory.

Book References :

1. Emerging Environmental Technologies: Emerging Environmental Technologies in global environment, VISHAL SHAH.
2. Emerging technological in global business environment: Dr. Saroj Kumar, Dileep Singh.
3. Disruptive technologies: emerging global technologies: Shreedharan C.K

Web links and Video Lectures (e-Resources) –

- https://www.youtube.com/watch?v=o_nP6-Cy8X0&list=PLsh2FvSr3n7cY__MFw95avE0OpWPfLFBY
- https://www.youtube.com/watch?v=vBpdaetBwhw&list=PLim9gWjsjN-P3jM6sL48_q06kR3_US9OR
- https://www.youtube.com/watch?v=CecD6Ud5_14
- <https://www.youtube.com/watch?v=Fvl-BuyMgqM>

Course outcomes

At the end of the course the student will be able to:

S.No	Description	Blooms Level
CO1	Students will understand the impact of emerging technologies on global businesses.	L2
CO2	Learners will analyze the adoption and implementation strategies of emerging technologies in various industries.	L4
CO3	Participants will evaluate the potential risks and ethical considerations of integrating emerging technologies.	L5
CO4	Students will develop skills in identifying technological trends and their relevance to business strategy.	L3
CO5	Learners will assess the role of digital transformation in creating competitive advantages for global businesses.	L5
CO6	Students will apply theoretical knowledge of emerging technologies to real-world business challenges.	L3

Mapping of COS and POs

	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	1				2	3			
CO2		1	2				2		
CO3	1	2		3	1			2	
CO4				2		3			3
CO5	2		3		2			3	

Green Logistics and Import-Export Management			
Course Code	MLS 403	CIE Marks	50
Teaching Hours/Week (L:P:SDA)	4:0:0	SEE Marks	50
Total Hours of Pedagogy	50	Total Marks	100
Credits	4	Exam Hours	3
Course Learning Objectives:			
<ul style="list-style-type: none"> • Understand the principles of Green Logistics and its impact on supply chain efficiency and sustainability. • Evaluate the environmental, economic, and social challenges in logistics and trade. • Gain practical knowledge about import-export operations, regulations, and documentation. • Integrate sustainability practices into logistics management for improving operational performance. • Assess the role of technology and innovation in enabling green logistics and international trade. 			
MODUEL-1			10 Hours
Introduction to Green Logistics and Import-Export Management Overview of Logistics and SCM– Definition and scope, Key functions in logistics: transportation, warehousing, inventory management, Introduction to import-export processes and their role in global trade. Green Logistics: Definitions and Principles, Sustainability and its relevance in logistics, Environmental impacts of logistics operations, Key principles of green logistics (reduce, reuse, recycle), Sustainable logistics practices: energy efficiency, emission reductions, eco-friendly packaging.			
MODULE-2			10 Hours
Sustainable Transportation and Warehouse Management Green Transportation Strategies, Types of transportation in global logistics (road, rail, air, sea), Sustainable transport models: low-carbon transport, electric vehicles, biofuels, Route optimization and modal shift to reduce carbon footprints, Challenges. In adopting green transportation. Sustainable Warehousing and Distribution, Energy-efficient warehousing solutions, Green building certifications and standards (LEED, BREEAM), Automation and green logistics technologies in warehousing, Waste management and recycling in distribution centers.			
MODUEL-3			8 Hours
International Trade and Regulatory Framework Basics of International Trade and Export-Import Operations, Introduction to global trade dynamics: exports, imports, and trade balance, Key international trade terms (Incoterms, FOB, CIF, etc.), Import-export documentation and procedures, Trade financing and payment methods (letters of credit, bills of lading). Trade Agreements and Regulations, Major global trade organizations (WTO, UNCTAD, etc.) Trade agreements: Regional Comprehensive Economic Partnership (RCEP), USMCA, EU SingleMarket, etc., Compliance with environmental regulations in trade, Customs regulations and tariffs in global trade.			
MODUEL-4			8 Hours
Integration of Green Logistics in Global Trade Environmental Challenges in Global Logistics, Carbon footprint of international trade, Regulations related to emissions and sustainability in logistics,			

Sustainable packaging and labeling requirements in international trade, Green logistics certification standards. Leveraging Technology for Green Logistics in Trade, Role of digitalization in reducing logistics emissions (IoT, AI, Blockchain), Smart logistics: use of GPS, big data, and analytics for route optimization, Environmental impact assessment tools for trade and logistics, Case studies on green logistics innovations and trade solutions

MODULE-5

6 Hours

Strategic Management in Green Logistics and Trade Strategic Role of Green Logistics in Business Competitiveness, Cost-benefit analysis of green logistics initiatives, Corporate social responsibility (CSR) and sustainability reporting, Case studies on companies adopting green logistics for competitive advantage, Sustainability-driven procurement and supply chain strategies.

MODULE-6

6 Hours

Green Logistics and International Trade Case Studies Real-world examples of companies implementing green logistics practices, Challenges and solutions in sustainable global trade, Green logistics initiatives in emerging markets, Role of green logistics in achieving the UN Sustainable Development Goals (SDGs).

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- Each full question will have sub question covering all the topics.
- The students will have to answer five full questions; selecting four full questions from question number one to seven in the pattern of 3, 7 & 10 Marks and question number eight is Compulsory.
- 100 Percent theory.

Suggested Learning Resources:

Books:

1. "Green Logistics: Improving the Environmental Sustainability of Logistics" by Alan McKinnon, Sharon Cullinane, and Mike Browne
2. "Global Logistics and Supply Chain Management" by John Mangan, Chandra Lalwani, and Tim Butcher
3. "Import/Export: How to Start a Business in International Trade" by Carl A. Nelson
4. Journal articles, case studies, and reports on Green Logistics, published in academic and industry journals (e.g., International Journal of Physical Distribution & Logistics Management, Journal of International Business Studies).

Web links and Video Lectures (e-Resources)

1. <https://www.youtube.com/watch?v=y-KV1nftdBA>
2. <https://www.youtube.com/watch?v=rJ7Hif-cOpo>
3. <https://www.youtube.com/watch?v=f0LH8ko3LM4>
4. <https://www.youtube.com/watch?v=iiP5m4Zru3w>
5. <https://www.youtube.com/watch?v=G4I51Iq-NnI>

Course outcomes

At the end of the course the student will be able to:

Sl. No	Description	Blooms Level
CO1	This study integrates sustainable logistics practices with international trade and supply chain management.	L2
CO2	Understanding focus on sustainability and green practices, while also providing practical knowledge of the import-export sector.	L3
CO3	Students will learn how to design, manage, and optimize supply chains that minimize environmental impacts	L6
CO4	Learners will understand the environmental regulations and certifications impacting international trade.	L2
CO5	Students will learn how to implement emerging green technologies in logistics operations.	L3
CO6	Participants will be introduced to circular economy concepts in the context of logistics and global trade.	L2

Mapping of COS and POs

	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	2			1	3	1		
CO2	1	3	2		2	2	3		
CO3		2	3	3	1		2	3	1
CO4	2	3	1	2	3		1	2	3
CO5	3	2	3	1	3	1	3	3	2

PROJECT

Course Code	MLS IN 404	CIE Marks	50
Teaching Hours/Week (L:P: SDA)	0:12:0	SEE Marks	50
Total Hours of Pedagogy	00	Total Marks	100
Credits	10	Exam Hours	00

OBJECTIVE

To expose the students to understand the working of the organization/company / industry and take up an in-depth study of an issue / problem in the area of specialization.

STRUCTURE

The Project Work shall consist of study of any organizational Problem based on specialization for 6 credits for 6 weeks.

GENERAL GUIDELINES

- The project work shall be for a period of 6 weeks immediately after the completion of 3rd SEE but before the commencement of the 4th semester classes.
- The Course code of the project report shall be(MLSIN 404)and shall be compulsory for all the students opting for all specializations.
- The University shall receive 2 copies of project reports prior to the commencement of the 4th semester examination. Copies of the project report should be sent to the concerned Regional Office with intimation to the Registrar (Evaluation).
- By keeping the business trend in the present scenario, university has given an option to the students to select the research problem either from business organization or they can carry out the project on freelance basis subject to the approval of department committee.
- It is the total responsibility of the internal guide to monitor the freelance project.
- In case, business problem selected from a Company, no two students of an institute shall work on the same problem in the same organization.
- The student shall seek the guidance of the internal guide on a continuous basis, and the guide shall give a certificate to the effect that the candidate has worked satisfactorily

under his/her guidance.

- On completion of the project work, student shall prepare a report with the following format.
- The Project report shall be prepared using word processor viz. MS Word with New Times Roman, 12 font size..
- All the reports shall be printed in the A4 size 1" margin on all the sides.
- The report shall be hard bound facing sheet of royal blue color indicating the title of college and month & year of admission (spiral binding not permitted).
- A certificate by the guide, HOD and Head of the institution indicating the bonafide performance of the project by the student to be enclosed.
- An undertaking by the student to the effect that the work is independently carried out by him/her.
- The certificate from the organization if applicable (if its Freelance project, certificate is not required and internal guide can issue a certificate for successful completion).
- Acknowledgement
- Executive Summary.

Project Report Evaluation:

- Internal evaluation will be done by the internal guide.
- External valuation shall be done by faculty members of PG centre's of VTU and affiliated institutions of VTU with minimum of 10 years experience.
- Viva-Voce / Presentation: A viva-voce examination shall be conducted at the respective Institution where a student is expected to give a presentation of his/ her work.
- The viva –voce examination will be conducted by the respective HOD / Senior faculty of the department and an expert drawn from the VTU affiliated institutes/ VTU PG Centre's with minimum of 10 years of experience as appointed by the University.
- Project work carries 100 marks consisting of 50 marks for internal marks by the internal guide, average of 25 marks from both internal and external evaluation and 25 marks for viva voce

examination. Minimum passing marks of the Project work is 50% in each of the components such as Internal Marks, report evaluation and viva-voce examination.

- Format of the project report shall be prepared using the word processor viz., MS Word, Times New Roman font sized 12, on a page layout of A4 size with 1inch margin all sides (1.5inch on left side) and 1.5 line spacing. The Project report shall not exceed 100 pages.
- Submission of Report: Students should submit the Project Report in electronic data form only, in PDF file (Un-editable Format) to the Institute. The Institute in turn shall submit all the CD's of their students along with a consolidated master list as per specialization containing USN, Name of the student, and Title of the Report to Registrar Evaluation) one week before the commencement of the Theory Examinations or as per notification given for this purpose.
- Plagiarism: Plagiarism is considered as academically fraudulent, and an offence against University academic discipline. The University considers plagiarism to be a major offence, and subject to the corrective procedures. It is compulsory for the student to get the plagiarism check done before submission of the project report. Plagiarism of up to 10 % is allowed in the project work and report should consist of original content/work.
- Publication of Research Findings: Students are expected to present their research findings in Seminars/ Conferences/ Technical/ Management Fests or publish their research work in Journals in association with their Internal Guide. Appropriate Weight age should be given to this in the internal evaluation as well as in the viva voce examination of the project report.

CONTENTS OF THE INTERNSHIP REPORT

- Cover page
- Certificate from the Organization (scanned copy if applicable)
- Certificate from the guide, HOD and Head of the Institution (scanned copy) indicating bonafide performance of Project by the student
- Declaration by the student (scanned copy)
- Acknowledgement
- Table of contents
- List of tables and graphs
- Executive summary

Chapter 1: Introduction

Introduction, Industry profile and company profile: Promoters, vision, Mission & Quality Policy. Products / services profile areas of operation, infrastructure facilities, competitor's information, SWOT Analysis, Future growth and prospects and Financial Statement.

Chapter 2: Conceptual background and Literature review

Theoretical background of the study, Literature review with research gap (with minimum 20 literature reviews).

Chapter 3: Research Design

Statement of the problem, Need for the study, Objectives, Scope of the study, Research methodology, Hypotheses, Limitations, Chapter scheme.

Chapter 4: Analysis and Interpretation

Analysis and interpretation of the data- collected with relevant tables and graphs. Results obtained by the using statistical tools must be included.

Chapter 5: Findings, Conclusion and Suggestions

Summary of findings, Conclusion and Suggestions / Recommendations

Bibliography: Books, Articles names, etc. to be mentioned as per APA style.

Annexure: Relevant to the project such as figures, graphs, photographs etc.,

Rubrics for Project Work (Common to core and Dual Specializations)-

SL.NO	Evaluation Type	Particulars	Marks
1	CIE	Internal Assessment by the Guide- Based on three Presentations by Students	50
2	SEE	Report Evaluation by the Guide & External Examiner Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.	25
3	SEE	Viva-Voce Examination to be conducted by the Guide and an External examiner from the Industry/ Institute (Joint Evaluation)	25
TOTAL			100

Rubrics for Project Evaluation and Viva voce Examination.

A. Internal Assessment by the Guide- Based on three Presentations by Students

Sl. NO	Aspects	Marks
1	First Presentation	5
2	Second Presentation	5
3	Third Presentation	5
4	Introduction and Methodology	5
5	Industry and Company Profile	5
6	Theoretical background of study	5
7	Data analysis and interpretation	10
8	Summary of findings, suggestions and conclusion	10
	Total	50

B. Report Evaluation by the Guide & External Examiner. Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.

Sl.No	Aspects	Marks
1	Introduction & Relevance of the project	5
2	Conceptual background and literature review	5
3	Research design	5
4	Analysis and interpretation	5
5	Summary of findings, suggestions and conclusion	5
	TOTAL	25

C. Viva-Voce Examination to be conducted by the HOD/ Guide and an External examiner from the Industry/ Institute (Joint Evaluation)

Sl.No	Aspects	Marks
1	Presentation and Communication Skills	5
2	Subject knowledge	5
3	Objectives of the study and Methodology	5
4	Analysis using statistical tools and statistical packages	5
5	Findings and appropriate suggestions	5
	TOTAL	25

MARKS SHEET FORMATS

1. Internal Assessment by the Guide- Based on three Presentations by Students

Visvesvaraya Technological University

Marks Sheet for MBA Project Work (MLS IN 404)

Name of the College:

College Code:

Internal Marks Allocation for Project Work (MLS IN 404)

Sl. NO	Aspects	Marks
1	First Presentation	5
2	Second Presentation	5
3	Third Presentation	5
4	Introduction and Methodology	5
5	Industry and Company Profile	5
6	Theoretical background of study	5
7	Data analysis and interpretation	10
8	Summary of findings, suggestions and conclusion	10
	Total	50

Marks Sheet

Sl. No.	USN	1	2	3	4	5	6	7	8	Total
1										
2										
3										
4										
5										

Signature of the Internal Guide with Name, Address & Date

Note:

1. Total Internal Evaluation Marks of the Project report should be sent along with the other subject internal marks and the above marks sheet should be maintained by the Department/Institution for verification on demand.
2. Total Internal Evaluation Marks of the Project report should be uploaded to VTU by the Internal guide after thorough evaluation of the project report and the copy of the mark sheet downloaded after the entry must be maintained in the department as well as sent to VTU along with the remuneration bill.

2. Report Evaluation by the Guide & External Examiner.
Average of the marks awarded by the two Examiners shall be the final evaluation marks for the Dissertation.

Visvesvaraya Technological University
Marks Sheet for MBA Project Work (MLSIN404)

Name of the College:

College Code:

External Evaluation Marks Allocation for Project Work ()

Sl.No	Aspects	Marks
1	Introduction & Relevance of the project	5
2	Conceptual background and literature review	5
3	Research design	5
4	Analysis and interpretation	5
5	Summary of findings, suggestions and conclusion	5
	TOTAL	25

Sl. No.	USN	1	2	3	4	5	Total
1							
2							
3							
4							
5							

Signature of External Examiner with affiliation

Note:

1. Total External Evaluation Marks of the Project report should be uploaded to VTU by the External examiner appointed by VTU after thorough evaluation of the project report and the copy of the mark sheet downloaded after the entry must be sent to VTU along with the remuneration bill.

3. Viva-Voce Examination to be conducted by the HOD/ Guide and an External examiner from the Industry/ Institute (Joint Evaluation)

**Visvesvaraya Technological University
Marks Sheet for MBA Project Work (MLSIN404)**

Name of the College:

College Code:

**Viva voce Marks Allocation for Project Work ()
(Viva voce conducted by HOD/Internal Guide and an Expert from VTU.)**

Sl.No	Aspects	Marks
1	Presentation and Communication Skills	5
2	Subject knowledge	5
3	Objectives of the study and Methodology	5
4	Analysis using statistical tools and statistical packages	5
5	Findings and appropriate suggestions	5
	TOTAL	25

Marks Sheet

Sl.No.	USN	1	2	3	4	5	Total
1							
2							
3							
4							
5							

Signature of Internal Examiner

Signature of External Examiner with affiliation

Note: Marks may be finalized based on the joint evaluation by internal examiner and External Examiner.

Schedule to be followed before commencement of Project

Activity	Timeline	Remarks
Identifying the organization Problem identification	First week	Student individually identifies an organization OR identifies problem for his/her study, according to his/her interest.
Problem statement Research Design	Second week	His/ Her interests are discussed with project guides. Discussion with Internal Guide to decide on suitable design for the research

Synopsis Preparation	Third week	Preparation of Synopsis* & formulating the objectives
Presentation of Synopsis	Fourth Week	The student will present the synopsis with the detailed execution plan to the Internal Guide and HOD who will review and may: a. Approve b. Approve with modification or c. Reject for fresh synopsis
Approval Status	Fifth & Sixth week	The approval status is submitted to HOD who will officially give concurrence for the execution of the Project

Synopsis: Three page hard copy to be submitted to the HOD with the signatures of the Guide and the student.

Page 1	Title, Contact Address of student- with details of Internal and External Guide (if applicable).
Page 2	Short introduction with objectives and summary (300 words). Review of Articles / Literature about the topic with source of information.
Page 3	Time Activity Chart.

Schedule to be followed during Project work

Activity	Timeline	Remarks
Understanding Structure, Culture and functions of the organization/identifying of business problem from the Industry from the literature study	1st of Project	Student should understand products/services and the problems of the organization.
Preparation of Research design and Research instrument for data collection	2nd week of Project	Discussion with the guide for finalization of research design and instrument in his/her domain and present the same to the guide. (First Presentation).
Data collection	3rd week of Project	Date collected to be edited, coded, tabulated and presented to the guide for suggestions for analysis. (Second Presentation).
Analysis and finalization of report	4th & 5th week of project	Students must use appropriate and latest statistical tools and techniques for analyzing the data. (It is must to use of Statistical Package whose result should be shown in the report) (Third Presentation).
Submission of Report	6th week of Project	Final Report should be submitted to the University before one week of the commencement of theory examination.

Formats for Project Report and Evaluation

- Format of Cover Page
- Format of certificate by Company/Institution or from both
- Format of Declaration Page
- Format of Contents
- Format of List of Tables and Charts
- Format of Bibliography
- Format for Internal Evaluation, External Evaluation and Viva voce

(Title of the Report)

Submitted by

(Student Name)
(USN)

Submitted to
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAVI
In partial fulfillment of the requirements for the award of the degree of

MASTER OF BUSINESS ADMINISTRATION IN LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Under the guidance of

INTERNAL GUIDE
(Name & Designation)
Designation)

EXTERNAL GUIDE
(Name &

(Institute Logo)

Department of MBA in Logistics and Supply Chain Management
(Institute Name with Address)
(Month & Year of submission)

CERTIFICATE

This is to certify that (Name of the Student) bearing USN (xxxx), is a bonafide student of Master of Business Administration in Supply Chain and Logistics Management course of the Institute (Batch), affiliated to Visvesvaraya Technological University, Belgaum. Project report on “(Title of Report)” is prepared by Him/her under the guidance of (Name of the Guide), in partial fulfillment of the requirements for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi Karnataka.

Signature of Internal Guide

Signature of HOD

Signature of Principal

DECLARATION

I, (Student Name), hereby declare that the Project report entitled “(Title)” with reference to—(Organization with place) prepared by me under the guidance of (Guide Name), faculty of M.B.A Department, (Institute name) and external assistance by (External Guide Name, Designation and Organization). I also declare that this Project work is towards the partial fulfillment of the university Regulations for the award of degree of Master of Business Administration by Visvesvaraya Technological University, Belagavi. I have undergone a summer project for a period of Twelve weeks. I further declare that this Project is based on the original study undertaken by me and has not been submitted for the award of any degree/diploma from any other University / Institution.

Place:
Student

Signature of the

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Chapter-2	Industry and Company profile	XXXXXXXXXXXX
Chapter-3	Theoretical Background of the Study	XXXXXXXXXXXX
Chapter-4	Data Analysis and interpretation	XXXXXXXXXXXX
Chapter-5	Summary of Findings, suggestions and Conclusion	XXXXXXXXXXXX
Bibliography		
Annexure		

List of Tables

Sl. No	Particulars	Page No's.
1	Table showing ABC Analysis	XXXXX
2	Table showing FSN Analysis	XXXXX

List of Figures/ Charts/ Graphs

Sl. No	Particulars	Page No's.
1	Graph showing ABC Analysis	XXXXX
2	Graph showing FSN Analysis	XXXXX

