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B.A. (Vocational Studies)
B.A. (VS) MATERIALS MANAGEMENT
Semester-IV

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SEMESTER- IV

B.A. (VS) MATERIALS MANAGEMENT

DSC 4.1: Transportation and Logistics Planning

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)
		Lecture	Tutorial	Practical/ Practice		
Transportation and Logistics Planning DSC: 4.1	4	3	1	-	Pass in Class XII	NIL

Learning Objectives

The course aims to enhance the understanding of the students to with the concept of multimodal transport and logistics planning. It will enable the student to comprehend the nuances in multimodal operations and logistics planning. It will help students to understand the legal aspects of multimodal transport and logistics network at the international level.

Learning Outcomes

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

1. identify and analyze the factors that make shippers prefer multimodal transportation over other modes, such as cost savings, time efficiency, and reduced environmental impact.
2. develop a transportation plan for a business, including the selection of the most suitable mode and route based on cost, time, and other factors affecting the shipment.
3. describe the requirements for the transportation of perishable goods and the regulations governing their transport, including temperature control and packaging.
4. construct a logistics and transport environment analysis, including a SWOT analysis and PESTEL analysis, to identify opportunities and challenges in the logistics and transport industry.
5. analyse the challenges of managing an international logistics network, including cultural differences, regulatory compliance, and technology integration.

Unit 1: Introduction to Transportation**9 hours**

Definition and Importance of Transportation and Logistics, Transportation Modes and Services, Transportation Planning Principles, Route Planning and Optimization, Transportation Modes and Services, Multimodal Trade Routes, Evolution, Basic Intermodal System, Modal Interface, Factors outlining why shipper prefer Multimodal, Multi-Modalism Strategy, Components. Role of multimodal transport in international logistics

Unit 2: Logistics and Transport Planning**9 hours**

Different Types of Logistics and Transport Organizational Structures. Logistics and Transport planning –controlling decision, making. Logistics and Transport Environment Analysis, Legal and Ethical framework. Container corporation of India: Function and role.

Unit 3: Physical Multimodal Operations**9 hours**

Liners, Trams, Specialized Vessels, Terms, Road transport vehicle – Road Transport Weight and Measurement, Rail Transport Vehicle and Equipment – Air Transport, Ports, LCL, FCL, NVOCC, Freight forwarders, Consolidator, ICD, CFS, Free Trade Area, SEZ, Water ways, Factors affecting mode and route choice.

Unit 4: Conventions Relating to Multimodal Transport**9 hours**

Cargo Liability Convention: International Conventions relating to Bill of Lading (The Hague and Hague/Visby Rules (Appendix 8), Hamburg Rule, Convention relating to Through Transport operation by Land, Rail, Air – Conventions relation to Dangerous Cargo, Carriage of Perishable Goods, International Convention for safe containers 1972 (CSC), Baltic index

Unit 5: International Logistics Networks**9 hours**

Continuous Improvement in Transportation and Logistics Systems, Key Performance Indicators, Lean Logistics and Six Sigma, Characteristics of international logistics networks, networks owned by international corporations, leadership network partnership network, management of international logistics network

Exercises

1. You are a logistics manager of a manufacturing company located in Country A, and you have been tasked to transport a shipment of goods to a warehouse in Country B. The shipment consists of 1000 cartons of electronic items, and the total weight is 20 tons. You need to develop a multi-modal transport plan that ensures the safe and efficient movement of goods from the factory to the warehouse. Prepare a suitable transport plan for exporter and manufacturer from North India.
2. A business needs to transport a large quantity of raw materials from its suppliers in South America to its manufacturing facility in Europe. The company has multiple options for

- transportation modes, including air, sea, rail, and truck. Develop a transportation plan for the company, considering the cost, time, and other factors that could affect the shipment. Create a presentation to present your transportation plan to the company's executive team.
3. You are a logistics manager for a company that specializes in the transportation of fresh produce. The company needs to transport a large shipment of strawberries from a farm in California to a supermarket in New York. Develop a transportation plan that outlines the requirements for the transportation of perishable goods and the regulations governing their transport. Consider the temperature control and packaging needed to ensure the strawberries arrive at their destination in excellent condition. Present your plan in a written report and justify your decisions.
 4. You are a logistics manager for a company that is expanding its operations overseas. The company needs to choose an organizational structure that will support its international logistics and transport needs. Develop a comparative analysis of the different types of logistics and transport organizational structures, including functional, matrix, and network structures. Consider the advantages and disadvantages of each structure and present your findings in a written report. Recommend the best organizational structure for the company based on its specific needs.
 5. You are the logistics manager of an international corporation that has recently expanded its business to multiple countries. Your task is to design an international logistics network for your company that is efficient and cost-effective. Develop a plan that includes the following:
 - a. Identify the different modes of transportation that can be used in the logistics network.
 - b. Analyze the benefits and drawbacks of each mode of transportation.
 - c. Determine the best mode of transportation for each leg of the journey.
 - d. Create a plan for managing the logistics network, including the use of technology and personnel.
 - e. Explain how you will maintain ethical and legal compliance in the logistics network.

Suggested Readings

- Agrawal, D. K. (2018). *Textbook of Logistics and Supply Chain Management*. Macmillan.
- Branch, A. E., & Robarts, M. (2014). *Branch's Elements of Shipping*, 9th Edition. Routledge.
- Christopher, M. (2015). *Logistics & Supply Chain Management*. Pearson Education.
- Hyldager, C. (2012). *Logistics and Multimodal Transport*. Institute of Chartered Shipbrokers.
- Lane, C. K., & Buckley, J. J. (2016). *The Business of Shipping*. Cornell Maritime Press.
- Rushton, A., Croucher, P., & Baker, P. (2014). *The Handbook of Logistics and Distribution Management*. Kogan Page.

Notes:

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B.A. (VS) MATERIALS MANAGEMENT

DSC 4.2: Company Law

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE, REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (If any)
		Lecture	Tutorial	Practical/ Practice		
Company Law DSC: 4.2	4	3	1	-	Pass in Class XII	NIL

Learning Objectives

The course aims to develop and comprehend business and its processes in accordance with the provisions of the Companies Act, 2013 while analyzing case laws.

Learning Outcomes

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

1. analyse the regulatory aspects and the broader procedural aspects involved in different types of companies covering the Companies Act, 2013 and Rules.
2. prepare the basic legal documents required for formation of a company.
3. analyse the process and prepare the documents required for raising capital for the company.
4. analyse the managerial composition of companies and examine the process of company meetings.
5. develop a plan for winding up and the insolvency resolution of a company, considering the interests of the creditors and the company's assets.

Unit 1: Introduction

9 hours

Meaning and characteristics of a company; Lifting of corporate veil; Overview of administration of Company Law; Types of companies including private and public company, government company, foreign company, one person company, small company, associate company, dormant company and producer company; Association not for profit; Illegal association.

Unit 2: Formation and Incorporation documents**9 hours**

Formation of company, promoters, their legal position and pre-incorporation contracts; Online registration of a company. Memorandum of Association and its alteration, Articles of Association and its alteration, Doctrine of constructive notice, Doctrine of ultra vires and indoor management.

Unit 3: Share Capital**9 hours**

Prospectus, Shelf and Red herring prospectus, misstatement in prospectus; Book building. Allotment and Forfeiture of share, Sweat Equity, ESOPs, Bonus issue, and Further issue of shares, buyback, split of sharers and provisions regarding buyback; Transfer and transmission of shares; Demat system.

Unit 4: Management and Meetings**9 hours**

Directors: Legal position, Disqualifications, Director Identification Number (DIN); Classification of directors, Additional, Alternate and Casual directors, Women directors, Independent director, small shareholder's director; Appointment, Removal of directors; Powers and Duties; Key managerial personnel (KMP); Board Meetings; Shareholders' meetings: AGM and EGM. Convening and conduct of meetings: Requisites of a valid meeting; Resolutions (Virtual meetings); Postal ballot; e-voting.

Unit 5: Dividends, Audit and Winding up**9 hours**

Provisions relating to payment of Dividend. Company Audit: auditor's qualification and disqualifications, Auditor's appointment, rotation and removal, Secretarial Audit. Winding Up: Concept and Modes of Winding Up; Provisions of winding up under Insolvency and Bankruptcy Code 2016.

Exercises**The learners are required to:**

1. identify the type of company based on information available on NSE/BSE website and then analyse the regulatory and procedural aspects covering the Companies Act, 2013.
2. fill dummy SPICe+ form for incorporation of a company.
3. write about the timeline and details of the book building process of an actual IPO/FPO.
4. identify the actual composition of the Board of Directors and examine the minutes of AGM/EGM of listed companies.
5. develop a plan for winding up and the insolvency resolution process of a company, considering the interests of the creditors and the company's assets.

Suggested Readings

- Bhushan, B., Kapoor N.D., Abbi, R. Kapoor, Rajiv. (2023). *N.D. Kapoor's Corporate Laws*. Sultan Chand New Delhi.
- Dagar, I., & Agnihotri, A. (2023). *Company Law*. S. Chand New Delhi.
- Jagota, R. (2021). *Corporate Laws*. Taxman Pvt Ltd New Delhi.
- Kaur, H. (2022). *Company Law*. Kitab Mahal New Delhi
- Kuchhal, M. C., & Kuchhal, A. (2022). *Company Law*. Mahavir Publications New Delhi.
- Kumar, A. (2021). *Corporate Laws*. Taxman Pvt. Ltd New Delhi.
- Maheshwari, S. N., & Maheshwari, S. K. (2019). *Company Law*. Himalaya Publishing House Pvt. Ltd New Delhi.
- Ramaiya, A. (2020). *A Guide to Companies Act: LexisNexis*.

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B.A. (VS) MATERIALS MANAGEMENT

Discipline Specific Core

DSC- 4.3: Workers, markets, and the future of CREDIT DISTRIBUTION, ELIGIBILITY AND PRE, REQUISITES OF THE work COURSE

Course Title & Code	Total Credits	Lectures	Tutorial	Practical	Eligibility criteria	Pre-requisite of the course
Workers, Markets and the future of Work DSC-4.3	4	3	1	-	Class XII	Nil

Learning Objectives: The course aims to familiarize students with the concepts of workers demand, supply and the determination of market wage. It provides basic understanding of the recent developments in markets for workers in India. It discusses the role of international agencies in safe guarding workers interests and defining decent work.

Learning Outcomes:

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

1. explain the idea of the labour market and its working, the determination of equilibrium wage and the reasons why people choose to work or withdraw from the market.
2. compare the characteristics of various segments of labour markets in India and examine various trends related to wages and employment.
3. explain the concept of global value chains and Special economic Zones (SEZs) and examine their impact on workers, labour markets and the future of work.
4. appraise the role of International agencies in promoting decent work agenda and maintaining labour standards.

Unit 1: Economics of Labour Market and Wage Determination

11 hours

Supply of individual Worker and Workforce: Workers' preferences and Budget constraints, changes in budget constraints due to changes in non-labour income or wages; the labour supply curve of an individual worker and the Supply curve of workers in an Economy.

Policy applications: Welfare programs and work incentives; Labour supply over the life cycle; the decline in work attachment among older workers.

Demand for Workers: Production function of a firm, profit maximization, short- run and long-run decision making of the firm; Overview of labour Market equilibrium.

Policy application: New Labour Codes and the employment effects of minimum wages.

Unit 2: Labour Markets at Work in India

12 hours

Employment and Unemployment: Concepts of labour-force, workforce, participation rate, universal basic income and other concepts related to unemployment, measurement and trends in employment and wages, phenomena of jobless growth and unemployment in India, changing dynamics of occupational structure.

Facets of Informalisation and Segmentation of Labour Markets in India: Trends and characteristics of informalisation and contractualization, nature of rural labour markets, the growth of non-farm sector and impact of MGNREGA, internal migration in India, gig employment and its impact on platform workers.

Women in the workforce: feminization and low participation.

Unit 3: Offshoring, Outsourcing and Global Value Chains (GVCs)

11hours

Workers in GVC - India and other Developing Countries, impact on employment in India, Labour Standards in India- Case study, Special Economic Zones in India.

Future of work, Artificial Intelligence and Future of Labour: Disruptive technology and adjustment in Workers markets

Unit 4: International agencies and Labour Standards

11 hours

Role and Structure of ILO, ILO Conventions and Recommendations, Decent work and ILO programmes in India, World Trade Organization and workers.

Practical Exercises: The learners are required to:

1. discuss and practice numerical and graphical exercises based on application of demand and supply of labour and changes in equilibrium wage (Unit1)
2. identify and collect information from Internet on various case studies of employment types and engage in group discussions (Unit2)
3. design a questionnaire for primary data collection from the neighbourhood labour markets, collect data and make a group project based on the analyses of the data collected. (Unit2)
4. locate and discuss in class case studies of gig workers such as delivery workers from Zomato, Big Basket, Amazon and other such platforms. (Unit 3)
5. make a group presentation on implementation of ILO activities and programmes in India (Unit4)

Suggested Readings

- *Application of International Labour Standards in times of crisis: the importance of international labour standards and effective and authoritative supervision in the context of the COVID-19 pandemic*, Extracts of the General Report, ILO, 2020. (unit 4)

- Banga, K. (2016). Impact of global Value Chains on Employment in India, *Journal of economic Integration*. (unit 3b)
- Basu, A. K. & Chau, N. H. (2022). Offshoring and labour markets in developing countries. IZA, *World of Labour*. (Unit 3a)
- Borjas, G. J. (2016). *Labour Economics*, New York: McGraw-Hill. (Unit 1)
- Chaudhary, R. & Mitra, S. (2019). Labour Practices in the Emerging Gig Economy in India: A case Study of Urban Clap, Formalisation, Informalisation and the Labour Process Workshop. *CeMIS*, Goettingen. <https://wwage.org>. (unit 2.2e)
- Ghosh, A. K. (2016). *India Employment Report, 2016- Challenges and the Imperative of Manufacturing- Led growth*, New Delhi: Institute of Human Development and OUP. (Executive summary) (unit 2.1a)
- Giri, A. K. & Singh, S.P. (2016). Labour Standards in Global Value Chains in India: the case of hand-knotted carpet manufacturing cluster. *Asian Journal of Business Ethics*. (unit 3c)
- Hollweg, C. H. (2019). Global value chains and employment in developing economies. *Technological Innovation, Supply Chain Trade, and Workers in a Globalized World, Global Value Chain Development Report*, World Bank Group, ch. 3. (unit 3b)
- *India: Decent Work Country Programme for 2018-2022*, ILO, November 2018.
- Jha, P. (2016). *Labour in Contemporary India.*, Short Introduction Series, Oxford India. (unit 2.2a)
- Kapila, U. (2022-23). *Indian Economy: Performance and Policies*, New Delhi: Academic Foundation. (unit 2 & 4).
- Kapila, U. (2022). *Indian Economy since Independence*, New Delhi: Academic Foundation. (unit 2 & 4)
- Koti, J. & Janaki, D. (2016). ILO, WTO & Indian Industrial Relations. *IJIR*. (unit 4)
- Kumar, S. R. (2008). SEZs in India: Concepts, objectives and strategies. paper presented in *National Seminar on Special Economic Zones*. (unit 3d)
- Mondal, B., Ghosh J., Chakraborty S. & Mitra S. (2018). Women Workers in India: Labour Force Trends, Occupational Diversification and Wage Gaps. *State of Working India*, Centre for Sustainable Employment. (Unit 2.2f)
- *Overview of Internal Migration in India*, UNICEF report, <https://www.shram.org>. 2012. (unit 2.2c)
- Saha, P. & Shervick (2016). State of Rural Labour Markets in India. ILO Asia- Pacific Working Paper Series, May. (unit 2.2b)
- Shervick. (2014). Women's Labour Force Participation in India: Why is it low?. <https://www.ilo.org>, ILO. (unit 2.2f)
- Shetty, G. (2022). *Growing Gig Economy in India: Is More the Merrier?* *EPW*, 57 (10), March 5. (unit 2.2e)
- Universal Basic Income: A Conversation With and Within the Mahatma, *Economic Survey*, 2016-17.

Additional Readings

- Banga, K. (2017). Impact of linking into global value chains on Indian employment. *CEP Working paper*.

- Calvão, F. & Thara, K. (2019). Working Futures: The ILO, Automation and Digital Work in India. *Brill*.
- Caro, L. P., O'Higgins, N. & Berg, J. (2021). Young People and the Gig Economy, <https://www.ilo.org>.
- Case, K. E. & Fair R. (2008). *Principles of Economics*, Prentice Hall, 9th edition.
- Chaudhary R. (2021). India's Emerging Gig economy: Shaping the Future of Work for Women. <https://repository.library.georgetown.edu>.
- Ghose, A. K. & Kumar, A. (2021). India's Deepening Employment Crisis in the Time of Rapid Economic Growth, *Institute of Human Development*. Working Paper.
- India's Booming Gig and Platform economy - Perspectives and Recommendations on the future of work, *Niti Aayog*. (2022). June.

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