

## סילבוס - תוכנית הוראה לקורס

# מבוא למערכות מידע לוגיסטיות

נir רון | המחלקה לניהול

Logistics Information Systems: An Introduction | 55-050

|                           |                  |
|---------------------------|------------------|
| שיעור ומעבדה              | סוג הקורס:       |
| 2                         | היקף נ"ז:        |
| תשפ"ו                     | שנת לימודים:     |
| ב'                        | סמסטר:           |
| TBD                       | יום ושעה         |
| בתיאום מראש               | שעת קבלה:        |
| nir.ron@biu.ac.il         | מייל מרצה:       |
| /https://lemida.biu.ac.il | קישור לאתר למדה: |

### **Course description**

Understanding Logistics Information Systems: Key Features, Use Cases, and Essential Considerations for Integrating Applications within Organizational Processes

### **Learning objectives**

Course objectives:

Students will acquire the following skills and knowledge:

1. Categorize various types of IS (TPS, MIS, DSS) and their specific roles in automating and optimizing supply chain tiers.
2. Understanding of how information systems support logistics operations.
3. Familiarity with Enterprise Resource Planning (ERP) systems' concept and principles.
4. Ability to utilize data for decision-making in logistics operations.
5. Awareness of current technological trends in logistics, such as IoT, AI, and ML. Understanding of how these technologies are applied in modern logistics systems.
6. Knowledge of how to implement and integrate logistics information systems within organizations.
7. Understanding of the challenges associated with system implementation and how to overcome them.
8. IT projects lifecycle and basic project management skills, particularly in the context of logistics information system projects.
9. Hands-on experience with logistics software tools.
10. Case studies and practical examples to understand the real-world application of logistics information systems.

### **Active learning – lessons plan**

| Lesson # | Subject                                             | Remarks                |
|----------|-----------------------------------------------------|------------------------|
| 1        | Organizational Information Systems Evolution        |                        |
| 2        | Introduction to ERP and current trends              |                        |
| 3        | Introduction to ERP and current trends (cont.)      |                        |
| 4        | ERP functionality deep-dive part I                  | Material Catalog       |
| 5        | ERP functionality deep-dive part II                 | Purchasing             |
| 6        | ERP functionality deep-dive part III                | Sales and Distribution |
| 7        | Lab Practice (Hands On)                             |                        |
| 8        | Lab Practice (Hands On)                             |                        |
| 9        | Lab Practice (Hands On)                             |                        |
| 10       | Business Intelligence                               |                        |
| 11       | Information system lifecycle and Project Management |                        |
| 12       | External Speaker (IT in enterprise organization)    |                        |
| 13       | eCommerce                                           |                        |

### **Final grade**

|                                                     |                           |
|-----------------------------------------------------|---------------------------|
| Product                                             | Weight in the final score |
| Final Test – Passing grade: 60 or higher            | 60% of final grade        |
| Lab / Submission paper – passing grade: 60 or above | 40% of final grade        |

To pass the course, you must achieve a passing grade both on the test and on the submission paper\ lab independently.

## **Course requirements**

## **Prerequisites**

## **Bibliography; Reading Selections**

- Norris, G. et al. (2000). E-Business And ERP: Transforming the Enterprise. John Wiley & Sons
- Ptak, A. Carol and Eli Schragenheim (1999). ERP: Tools' Techniques an Applications for Integrating the Supply Chain. CRC Press-St. Lucie Press.
- Blanchard S. BenJamin (1998). Logistics Engineering and Management. Prentice Hall.
- Robeson F. James Ed. and William C. Copacino Pr. and R. Edwin Howe Ed (1994).
- The Logistics Handbook, Free Press - Theory, Berlin, Germany: Speinger
- Laudon, K. C., & Laudon, J. P. (2020). Management Information Systems: Managing the Digital Firm. Pearson.
- O'Brien, J. A., & Marakas, G. M. (2019). Management Information Systems. McGraw-Hill Education.
- Turban, E., Pollard, C., & Wood, G. (2018). Information Technology for Management: Advancing Sustainable, Profitable Business Growth. Wiley.
- Robey, D., & Boudreau, M.-C. (2017). Information Technology and Organizational Performance: An Integrative Perspective. Journal of Strategic Information Systems, 26(2), 72-81.
- Chen, D. Q., Mocker, M., & Preston, D. S. (2020). Information Systems Strategy: How to Develop, Implement, and Maintain an Effective Information Systems Strategy. Routledge.
- Sambamurthy, V., Bharadwaj, A., & Grover, V. (2003). Shaping agility through digital options: Reconceptualizing the role of information technology in contemporary firms. MIS Quarterly, 27(2), 237-263.
- Aroles, J., Granter, E., & De Vaujany, F.-X. (2021). Theories of remote working: Changes during the COVID-19 pandemic. Academy of Management Discoveries, 7(4), 507-520.

- Verhoef, P. C., Broekhuizen, T., Bart, Y., Bhattacharya, A., Qi Dong, J., Fabian, N., & Haenlein, M. (2021). Digital transformation: A multidisciplinary reflection and research agenda. *Journal of Business Research*, 122, 889-901.
- Ackoff, R. L. (1989). From Data to Wisdom. *Journal of Applied Systems Analysis*, 16, 3-9.