

Module Title:	ERP System Applications
Language of Instruction:	English
Credits:	5
NFQ Level:	7
Module Delivered In	2 programme(s)
Teaching & Learning Strategies:	Labs - communication of knowledge and ideas from the lecturer to the student. Students will perform inventory materials managements roles whilst completing case studies in an Enterprise Resource Planning (ERP) simulation. Problem Solving Exercises - student will work as part of a team and will work together to resolve various scenarios. Class Discussion/Debate - Students will be encouraged to actively participate in the class sessions which will develop their analytical and communication skills. Self-Direct Independent Learning - the emphasis on independent learning will develop a strong and autonomous work and learning practices.
Module Aim:	The module aims to develop the student's proficiency to use SAP's S/4 Hana system and a comprehensive understanding of Production and Materials Management within an enterprise-wide transactional processing system (ERP TPS), highlighting the inter-related nature of modular ERP system and how the relationships, within and between system modules, affects the ultimate set-up and utilization of such systems for organizational transaction processing capabilities.
Learning Outcomes	
<i>On successful completion of this module the learner should be able to:</i>	
LO1	Create master data within an ERP system (Material, Vendor and Customer).
LO2	Assess and discuss production execution (MTO vs Forecast Driven Planning and MPS & MRP Runs) and material management (Vendor & Customer Interaction) methods at end user level.
LO3	Execute end to end supply chain process planning and implementation and solve practical issues in an ERP system's set-up (manual processing to complete tasks).
Pre-requisite learning	
Module Recommendations <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>	
No recommendations listed	
Incompatible Modules <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>	
No requirements listed	

Module Content & Assessment

Indicative Content

Inventory and Materials Management ERP ecosystems.

The production planning and material management operational elements of the ERP Ecosystem. Create system master data, such as material masters, with Bill of material (BOM) and production routing structures; manual processing.

Vendor and Customer Management Initiatives.

Create supply chain master data (customer and vendor) with corresponding sales conditions for customer groups and purchasing information conditions for vendor relationships (looking at end to end supply chain from Vendor and Customer Management Initiatives)

Master Production Scheduling and Materials Requirement Planning (MRP).

Initiate an MRP demand driven environment (MRP driven production requisites) relative to the master production scheduling rationale.

Supply Chain E2E framework

Develop a supply chain built upon an end to end framework (visibility from planned sales order to customer delivery and billing).

Assessment Breakdown

%

Continuous Assessment

100.00%

Continuous Assessment

Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Case Studies	Case 1 of Integrated project and portfolio.	1,2,3	25.00	Week 5
Case Studies	Case 2 of Integrated project and portfolio.	1,2,3	25.00	Week 8
Case Studies	Case 3 of Integrated project and portfolio.	1,2,3	25.00	Week 11
Short Answer Questions	Theory of ERP Practice	2,3	25.00	Week 12

No Project

No Practical

No End of Module Formal Examination

SETU Carlow Campus reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Laboratories	12 Weeks per Stage	3.00
Independent Learning Time	15 Weeks per Stage	5.93
Total Hours		125.00

Workload: Part Time		
<i>Workload Type</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Laboratory	12 Weeks per Stage	1.50
Independent Learning Time	15 Weeks per Stage	7.13
Total Hours		125.00

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_BBSCM_B	Bachelor of Business (Honours) in Supply Chain Management	5	Mandatory
CW_BBSCM_D	Bachelor of Business in Supply Chain Management	5	Mandatory