



Faculty of Automotive Business Management



Curriculum with Course Syllabus

Department: SPARE PARTS MANAGEMENT

Semester 1-4 | Core Courses + ATA 2040 Electives + SIWES + Capstone with Course Codes (SPM 101-SPM 404)

SPM 101 – Workshop & Business Safety Practices

Credit Hours	2 (1T/1P)
Course Description	Safety in storage facilities, inventory handling, and staff training.
Syllabus / Topics	• PPE • Fire safety • Handling practices
Practical Activities / Lab Work	• Fire drill, stockroom safety inspection
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Apply safety practices in parts management environments.
Accreditation Mapping	NBTE NID Safety ASE
AI/Future Module ↗	VR Safety Training

SPM 102 – Introduction to Spare Parts Industry

Credit Hours	3 (2T/1P)
Course Description	Structure of automotive spare parts industry: OEM, aftermarket, grey markets.
Syllabus / Topics	• OEM parts • Aftermarket parts • Grey markets




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Practical Activities / Lab Work	• Market mapping exercise
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Explain automotive spare parts industry structures.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ↘	AI Market Analyzer

SPM 103 – Automotive Parts Identification

Credit Hours	2 (1T/1P)
Course Description	Identifying mechanical, electrical, and body parts.
Syllabus / Topics	• Mechanical parts • Electrical parts • Body parts
Practical Activities / Lab Work	• Parts coding & cataloging
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Identify and classify automotive parts.
Accreditation Mapping	NBTE NID IMI-UK
AI/Future Module ↘	AR Parts Identifier

SPM 104 – Inventory Management Systems I

Credit Hours	2 (1T/1P)
Course Description	Manual vs digital inventory systems.
Syllabus / Topics	• Manual systems • Digital systems
Practical Activities / Lab Work	• Inventory count & record entry
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Apply inventory management systems in practice.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ↘	AI Inventory Tracker 

SPM E1 – CAD Packaging & Labeling Design (Elective)

Credit Hours	2 (0T/2P)
Course Description	Basics of CAD packaging and labeling design.
Syllabus / Topics	• CAD basics • Packaging design
Practical Activities / Lab Work	• Create CAD label/packaging design
Assessment Methods	Project 100%
Learning Outcomes	Design automotive packaging using CAD.
Accreditation Mapping	NBTE Elective IMI-UK
AI/Future Module ↘	CAD Label Designer



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SPM 201 – Logistics & Supply Chain Management

Credit Hours	3 (1T/2P)
Course Description	Automotive supply chain, warehousing, distribution.
Syllabus / Topics	• Supply chain structures • Warehousing • Distribution
Practical Activities / Lab Work	• Supply chain simulation
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Analyze logistics and supply chain models.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ↗	AI Supply Chain Optimizer

SPM 202 – Digital Cataloging & E-Commerce Platforms

Credit Hours	3 (1T/2P)
Course Description	Online platforms, ERP systems, e-commerce tools.
Syllabus / Topics	• ERP systems • Online catalogs • E-commerce tools
Practical Activities / Lab Work	• Create a mini digital catalog
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Develop and manage digital spare parts catalogs.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ↗	AI E-Commerce Assistant



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SPM 203 – Automotive Parts Quality Standards

Credit Hours	2 (1T/1P)
Course Description	ISO/SAE standards, counterfeit detection.
Syllabus / Topics	• ISO standards • SAE standards • Counterfeit detection
Practical Activities / Lab Work	• Compare OEM vs fake parts
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Apply quality standards in spare parts management.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ↘	AI Counterfeit Detector

SPM 204 – Customer Relationship Management

Credit Hours	2 (1T/1P)
Course Description	Managing customer interactions and after-sales support.
Syllabus / Topics	• Customer engagement • CRM systems
Practical Activities / Lab Work	• CRM simulation
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Demonstrate CRM skills for spare parts business.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ↘	AI CRM Chatbot

SPM E2 – AR Warehouse Layout Simulation (Elective)

Credit Hours	2 (0T/2P)
Course Description	AR-based warehouse layout and logistics simulation.
Syllabus / Topics	• Warehouse structures • AR modeling
Practical Activities / Lab Work	• Simulate AR warehouse design
Assessment Methods	Project 100%
Learning Outcomes	Apply AR tools in warehouse design and management.
Accreditation Mapping	NBTE Elective IMI-UK
AI/Future Module ↘	AR Warehouse Planner

SPM 301 – SIWES Internship

Credit Hours	6 (0T/6P)
Course Description	Supervised internship in spare parts businesses, warehouses, or dealerships.
Syllabus / Topics	• On-site training • Logbook records
Practical Activities / Lab Work	• Industry exposure to logistics and customer relations
Assessment Methods	Supervisor Report 50% Logbook 30% Oral 20%



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Learning Outcomes	Apply spare parts management in industry.
Accreditation Mapping	NBTE SIWES ASE
AI/Future Module ✂	IoT Internship Logbook

SPM 401 – Capstone Project

Credit Hours	6 (0T/6P)
Course Description	Independent project in spare parts supply chain innovation.
Syllabus / Topics	• Project proposal • Execution • Defense
Practical Activities / Lab Work	• Develop AI-based inventory forecast system
Assessment Methods	Project 50% Report 30% Defense 20%
Learning Outcomes	Deliver innovation project in spare parts management.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ✂	AI Parts Marketplace Simulator

SPM 402 – Global Automotive Trade & Import/Export

Credit Hours	3 (1T/2P)
Course Description	Import/export policies, customs duties, trade regulations.
Syllabus / Topics	• Import/export policies • Customs duties • Trade regulations
Practical Activities / Lab Work	• Draft import plan
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Analyze global automotive parts trade policies.
Accreditation Mapping	NBTE NID ASE
AI/Future Module ✂	AI Trade Compliance Advisor

SPM 403 – ERP & Business Data Analytics

Credit Hours	2 (1T/1P)
Course Description	Enterprise systems, predictive analytics, business intelligence.
Syllabus / Topics	• ERP systems • Data analytics • BI tools
Practical Activities / Lab Work	• Analyze ERP dataset
Assessment Methods	CA 20% Practical 40% Exam 40%
Learning Outcomes	Apply ERP and data analytics in business decisions.
Accreditation Mapping	NBTE NID IMI-UK
AI/Future Module ✂	AI ERP Analyzer



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SPM 404 – Entrepreneurship in Spare Parts Business

Credit Hours	2 (1T/1P)
Course Description	Setting up retail/wholesale businesses, franchise models.
Syllabus / Topics	• Business setup • Franchising • Marketing
Practical Activities / Lab Work	• Draft spare parts shop business plan
Assessment Methods	CA 20% Business Plan 40% Exam 40%
Learning Outcomes	Develop entrepreneurship skills in spare parts business.
Accreditation Mapping	NBTE NID IMI-UK
AI/Future Module ↘	AI Business Planner

SPM E3 – Smart Warehousing & Robotics (Elective)

Credit Hours	2 (0T/2P)
Course Description	Robotics and automation in warehousing.
Syllabus / Topics	• Smart warehousing • Robotics integration
Practical Activities / Lab Work	• Simulate warehouse robotics
Assessment Methods	Project 100%
Learning Outcomes	Apply robotics in spare parts warehouse management.
Accreditation Mapping	NBTE Elective IMI-UK
AI/Future Module ↘	AI Warehouse Robotics Simulator