

M.Sc. SPE – Track: Additive Manufacturing – Suggested Curriculum Overview

1 Semester WS		Compulsory Courses		Elective Courses	
	Mechatronics and Control Techniques for Production Plants	Manufacturing Technology I		Elective Courses	Choose from these electives <ul style="list-style-type: none"> • Tribology • Gear and Transmission Technology • Modeling, Model Reduction and Simulation in Laser Processing - Applications
	Laser Applications*	Additive Manufacturing I – Technologies and Processes*			
	Language Courses				
	Language Course (1)				
2 Semester SS		Compulsory Courses		Elective Courses	
	Manufacturing Technology II	Production Management B		Elective Courses	Choose from these electives <ul style="list-style-type: none"> • Industrial Logistics • Multibody Dynamics • International Factory Planning • Modeling, Model Reduction and Simulation in Laser Processing - Laser • Production Metrology • Intelligent Monitoring of Engineering Systems
	Additive Manufacturing II – Engineering and Design*	Welding and Joining Technologies*			
	Language Courses				
	Language Course (2)				
3 Semester WS		Compulsory Courses		Elective Courses	
	Internship (Practical Experience)			or	Elective Courses
	Quality Management	Materials for Additive Manufacturing*			Choose from these electives <ul style="list-style-type: none"> • Simulation Techniques in Manufacturing Technology • Process Analysis in Manufacturing Technology • Linear Control Systems
	Language Courses				
	Linguistic Elective				
4 Semester SS		Master Thesis (six months)			

*Track specific