

1st semester	2nd semester	3rd semester	4th semester
Thermodynamics and Heat Transfer	Research Seminar and Journal Club TAIEM	Design and Development of Chemically Bounded Materials	Master's Thesis
Technology of Iron and Steel			
Ceramic Engineering	Steel Application	Laboratory Ceramic Courses	
Refractory Ceramics	Practical Course Metallurgy	Project Management	
Metallic Materials			
Fundamentals of Ferrous Materials	Materials Science	Experimental Assignment (Ceramic and Steel Technology)	
Operations Management			
Deutsch A1			
Electives A – Advanced Engineering Background: Mechanics of Materials; Training in Fluid Dynamics; Training in Particle Technology; Practical Aspects of Thermodynamic Analysis; Simulation of Sustainable Metallurgical Process Systems; Economics			
Electives B – Technology: Fundamentals of Plastic Deformation; Melting Technology and Foundries; Sensors and Actuator; Simulation of Sustainable Metallurgical Process Systems; Economics			

 mandatory courses;
  free electives;
  Master Thesis