

Civil Engineering - Railway Construction

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	10/11 sp4
FAFA40	8	G1	-	S	Physics		KS KE U W	
VTVA15	10	G1	X	S	Transports and Society		KS KE U W	
FMA645	13.5	G1	-	S	Calculus		KS KE U W	
EDA602	6	G1	-	S	Communication and Computer Tools		KS KE U W	
FMIA01	4	G1	-	S	Environmental Technology		KS KE U W	
VTVA20	8	G1	-	S	Road and Railway Engineering		KS KE U W	1
VGM630	6	G1	-	S	Introduction to Geomatics		KS KE U	1
FMA656	4.5	G1	-	S	Mathematics, Linear Algebra		KS KE U W	1

Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	10/11 sp4
VTVA30	5	G1	-	S	Basic Statistics		KS KE U W	
VTTF05	7.5	G2	-	E2	Traffic Engineering Theory: Accessibility, Level of service, Safety and Environment		KS KE U W	
VTVA35	9	G1	-	S	Track and Permanent Way for Engineers		KS KE U W	
VSMA10	3	G1	-	S	Mechanics of Materials		KS KE U W	
VTVF45	10	G2	-	S	Electric Power Systems for Electrified Railway		KS KE U W	
VVB061	7.5	G2	-	S	Economics for Traffic and Highway Engineering	X	KS KE U W	
VTVF35	12	G2	-	S	Traffic Control and Telecommunication in Railway Traffic		KS KE U W	1
VGTA01	6	G1	-	S	Engineering Geology and Soil Mechanics		KS KE U W	1

[VVB061](#) Economics for Traffic and Highway Engineering: *VT 2010 ges kursen även för IBYI åk 2*

Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	10/11 sp4
VVB645	4.5	G2	-	S	Railway in a European Perspective		KS KE U W	
VTVF65	14	G2	-	S	Railway Planning and Design Methodology		KS KE U W	
VFR601	4.5	G1	-	S	Basic Agreement- and Contract Law	X	KS KE U	
VTVF70	7	G2	-	S	Maintenance of Railway Constructions		KS KE U W	
VVB615	7.5	G2	-	S	Interaction between Track and Vehicle-trackvehicle Technique		KS KE U W	

[VFR601](#) Basic Agreement- and Contract Law: *HT 2009 ges kursen endast för IBYV åk 2*

Elective Courses - IBYI

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
MAMF25	7.5	G2	3	2	-	S	Working Environment, Trainee Course	X	KS KE U W	
MAMF25								X		1

[MAMF25](#) Working Environment, Trainee Course: *Kursstart två gångerlår (januari och maj)*

Degree Projects - IBYI

The list contains the degree project courses that are included in the IBYI programme.

Links

Course Code Credits

Course Name

VTT616 22.5 Degree Project Infrastructure [KS U](#)