

# Civil Engineering - Railway Construction

## Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	11/12 sp4
<a href="#">FAFA40</a>	8	G1	-	S	Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VTVA40</a>	9	G1	-	S	Transports and Society		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">FMA645</a>	13.5	G1	-	S	Calculus		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">EDAA15</a>	8	G1	-	S	Communication and Computer Tools		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">FMIA01</a>	4	G1	-	S	Environmental Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VTVA45</a>	7	G1	-	S	Road and Railway Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">VGM630</a>	6	G1	-	S	Introduction to Geomatics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	1
<a href="#">FMA656</a>	4.5	G1	-	S	Mathematics, Linear Algebra		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

## Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	11/12 sp4
<a href="#">VTVA30</a>	5	G1	-	S	Basic Statistics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">VTTF05</a>	7.5	G2	-	E2	Traffic Engineering Theory: Accessibility, Level of service, Safety and Environment		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VTVA35</a>	9	G1	-	S	Track and Permanent Way for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VSMA10</a>	3	G1	-	S	Mechanics of Materials		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VTVF45</a>	10	G2	-	S	Electric Power Systems for Electrified Railway		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	
<a href="#">VVB061</a>	7.5	G2	-	S	Economics for Traffic and Highway Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">VTVE35</a>	12	G2	-	S	Traffic Control and Telecommunication in Railway Traffic		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1
<a href="#">VGTA01</a>	6	G1	-	S	Engineering Geology and Soil Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1

### Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	11/12 sp4
<a href="#">VVB645</a>	4.5	G2	-	S	Railway in a European Perspective		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">VTVF65</a>	14	G2	-	S	Railway Planning and Design Methodology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">VFR601</a>	4.5	G1	-	S	Basic Agreement- and Contract Law		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	
<a href="#">VTVF70</a>	7	G2	-	S	Maintenance of Railway Constructions		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	
<a href="#">VVBF15</a>	7.5	G2	-	S	Interaction between Track and Vehicle-trackvehicle Technique		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	

## Elective Courses - IBYI

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language		Course Name	Footnote	Links		sp4
		Year										
<a href="#">MAME25</a>	7.5	G2	3	2	-	S		Working Environment, Trainee Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		
<a href="#">MAME25</a>									X			1

[MAME25](#) 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](#)