HAN_UNIVERSITY OF APPLIED SCIENCES

Semester 3 booklist

This list gives the required learning resources for the units of study of semester 3 of the English-taught bachelor's programme Automotive Engineering. You can order the books online at Studystore. Readers and other documents are made available digitally on OnderwijsOnline.

Unit of study	Required literature / materials
Project Semester 3 – Basics of Financials	Brouwers, M.P. & Koetzier, W. (2018). *Basics of Financial Management*. Groningen: Noordhoff Uitgevers. Elling, A.D. (2011). *Report writing for readers with little time*. Groningen/Houten: Noordhoff Uitgevers.
Analysing Vehicle Systems 2 (AUM3-AVS2, 4 EC)	Reimpell, J., Stoll, H. & Betzler, J. *The Automotive Chassis: Engineering Principles*, 2nd edition. ISBN 9780750650540. Software: Matlab/Simulink, version 2021a.
Toolbox Mathematics / Thermodynamics / Acoustics	Documents available via OnderwijsOnline.
Toolbox Materials Science	Callister, W.D. & Rethwisch, D.G. *Materials Science and Engineering*, SI version, Wiley – one of: 10th edition (2019), ISBN 978-1-119-45391-8; 9th edition (2015), ISBN 978-1-118-31922-2; 8th edition (2011), ISBN 978-0-470-50586-1. All three are equally suitable.
Understanding Material Strength	*Mechanics of Materials* plus Mastering Engineering (2 years) with Pearson eText, SI edition, 10th edition. ISBN 9781292178356. The online program MasteringEngineering is used; the login code comes with the book and is required to take part in the exam.
Mechanical Fastening Technology	Readers are made available to the students of the English-taught programme. Further materials are provided within the unit.
Tweaking a Driveline	Powertrain: *Fundamentals of Internal Combustion Engines*, 2nd edition, ISBN 9781260116106. Driveline: Genta, G. *The Automotive Chassis, vol. 1: Components Design*. Automotive Electronics: *Bosch Automotive Handbook*, 10th edition, ISBN 9781119530817. Readers are made available digitally on OnderwijsOnline.

See also the booklists of semester 1 and 2 (first-year booklist) on the practical-info page of Automotive Engineering.