Applied Maths & Physics 2 (1DAE-GD)

Theo-CONTENT

Theo01. Parameters
Theo02. Béziers
Theo03. Dynamics (Newtonian)
Theo04. Collision handling
Theo05. Inverse Kinematics 2D
Theo06. Inverse Kinematics 3D
Theo07.+Lab (no lessons due to the midterm Q-week)
Theo08. Complex arithmetics
Theo09. Complex 2D rotation
Theo10. Quaternion arithmetics
Theo11. Quaternion 3D rotation
Theo12. no lessons due to the Creaweek (aim: Workshop Inverse Kinematics 3D**)**

APPROACH

Theory: 2T weekly, Midterm-tested pen & paper (or remote)

Lab: 2L, Midterm-tested pen & paper (or remote), open-book including test tool-use (*strategic compentence: when to use which operation*) on laptops-in-flight-mode

ExerciseAtHome (bridging previous theory to successive lab) **via Leho/Assignments**

GRADING

1st Exam chance
10%ExercisesAtHome + 45%Midterm(T+L) + 45%Final(T+L)

2nd Exam chance
40%T + 60%L exam

MATERIALS

ISBN 978-9401432047 (Animation Maths, LannooCampus)
Tool: **GeoGebra5+** (https://www.geogebra.org/)

contact: ivo.de.pauw@howest.be