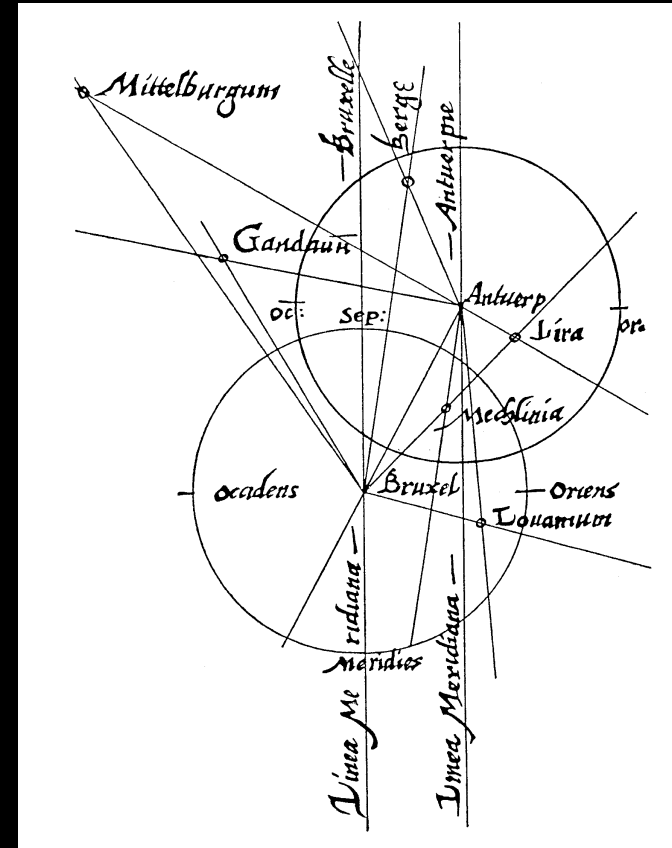


THE UTILITY OF MATHEMATICS

TIM NICOLAIJE
UNIVERSITY OF TWENTE

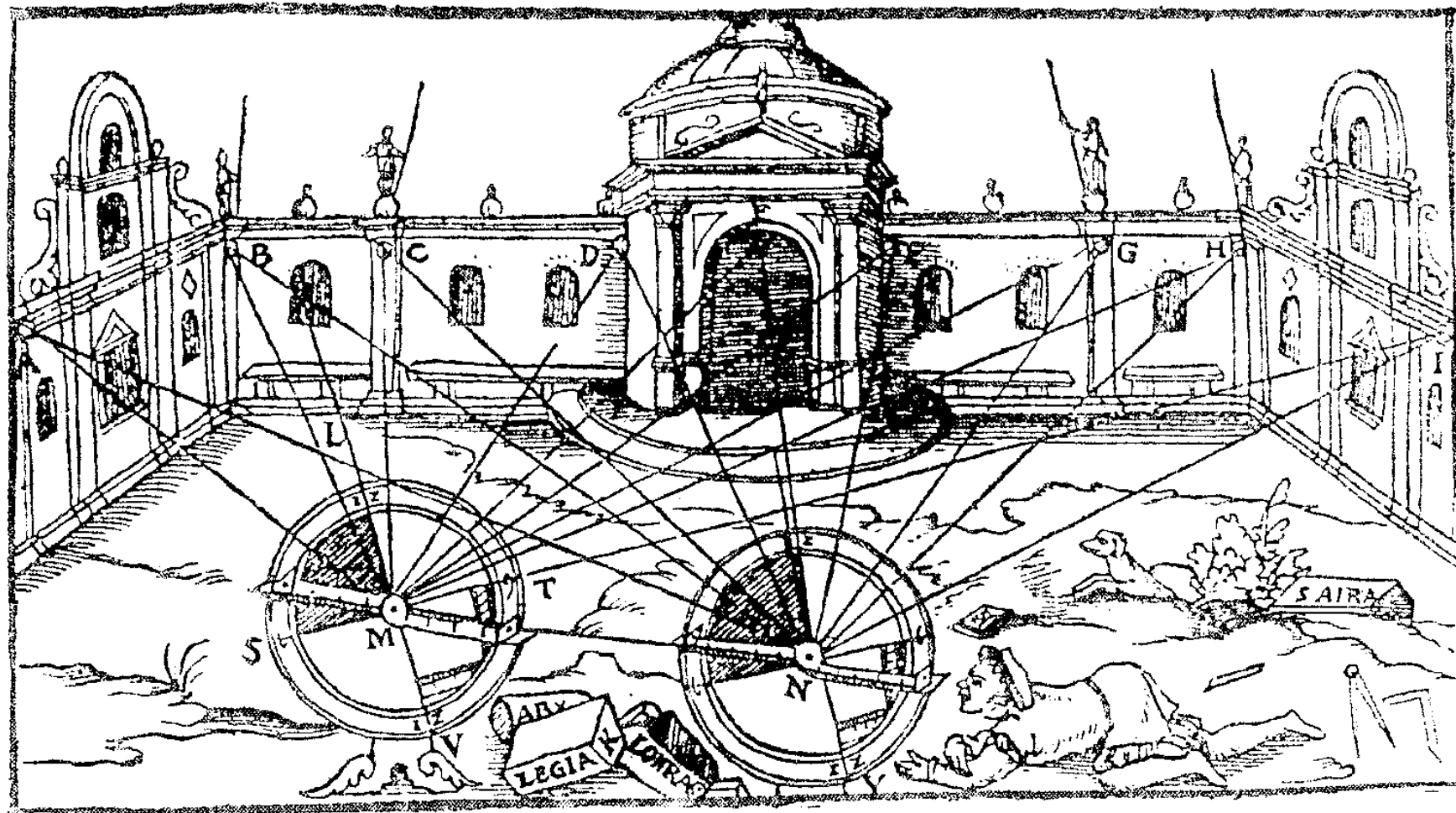


ROGER BACON
(c. 1214-1294)



GEMMA FRISIUS
(1508-1555)









MATHEMATICA PURA

- **Arithmetic**
- **Geometry**

MATHEMATICA MIXTA

- **Music**
- **Astronomy**

MATHEMATICA PURA

- **Arithmetic**
- **Geometry**

MATHEMATICA MIXTA

- **Music**
- **Astronomy**
- **Bookkeeping**
- **Geodesy**
- **Military Architecture**
- **Mechanics**
- **Statics**
- **Optics**
- **Geography**
- **Navigation**

MARTINI HORTENSII

ORATIO

DE DIGNITATE ET UTILITATE

MATHESEOS,

Habita in illustri Gymnasio Senatus Populique
Amstelodamensis, cum ex autoritate Magnificorum

DD. CONSVLVM AC SENATORVM ejusdem Urbis

Lectiones Mathematicas auspicaretur,

VIII EID. MAII, CIO IDC XXXIV.



AMSTERDAMI,

Ex Typographia GUILIELMI BLAEV.

CIO IDC XXXIV.

THEOLOGY

To understand the Works and Word of God

LAW

For “arithmetical and geometrical proofs” in Roman Law

MEDICINE

**To rightly judge intensities, periods and changes of diseases;
for knowledge of time and place**

PHILOSOPHY

**Medium between natural and pure philosophy;
tool for understanding the writings of “the most outstanding
philosophers**

PARTICULAR BRANCHES

- Trade (*logistica*)
- Geodesy
- Military Architecture
- Mechanics
- Statics
- Music (“facilitates the tempering of men’s emotions”)
- Optics
- Astronomy
- Geography
- Navigation

MARTINI HORTENSII

ORATIO

DE DIGNITATE ET UTILITATE

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