



E-book 'Applied physics'

Erasmus+ Project "PHYSICS"

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Applied physics

- The **e-book on “applied physics”** has been developed in combination with four other e-books to **support the transition from the “5+1” system to the “4+2” system** in Belarusian universities. The other e-books are:
 - Functional nanomaterials
 - Photonics
 - Applied informatics
 - Research towards master thesis



Applied physics

- A **final version of the e-book** on ‘applied physics’ is available joining the inputs of different authors.
- The course material can be downloaded from the Moodle platform: <http://dl.bsu.by/>



Applied physics

- **On the Moodle platform:**
 - My courses: “applied physics chapters 4-5”
 - This contains the FULL COURSE “APPLIED PHYSICS”
 - 6 documents (the full course + section 4.7 ‘scanning electron microscopy’ + section 4.8 ‘diffraction methods of analysis’ separately) (word files + pdf files)



Applied physics

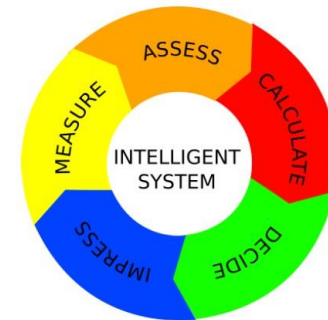
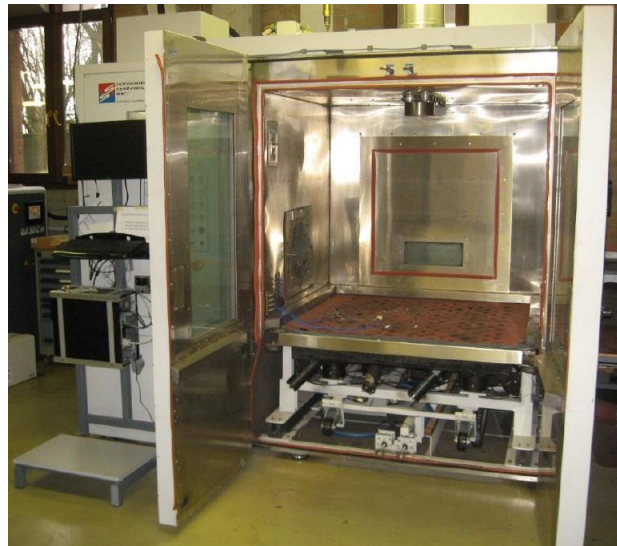
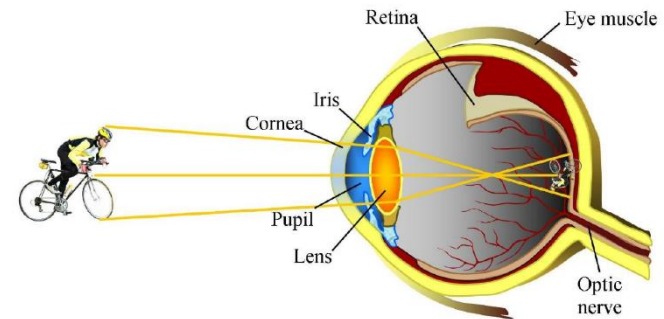
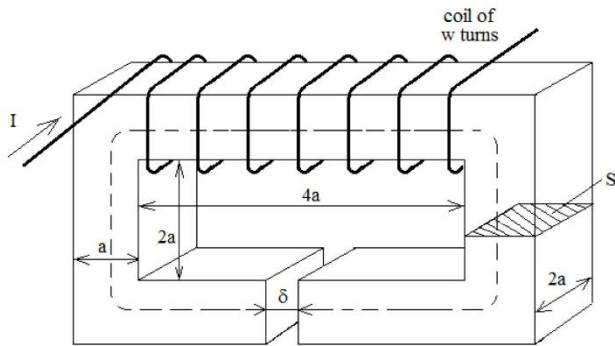
- Let's have a look at the e-book.
- This reveals:
 - We worked a lot.
 - The full text contains 404 pages + the sections on “scanning electron microscopy” and “diffraction methods of analysis”.

Applied physics

- We have a full text with a logical order containing **six chapters**:
 - Electricity and magnetism
 - Metrology and mathematical modelling for intelligent systems
 - Electrical engineering
 - Spectroscopy, microscopy, magnetometry, ellipsometry
 - EMC, EMI and reliability
 - Applied system theory

Applied physics

- The e-book on “applied physics” shows the **broad range of applications** of physics.



Applied physics

- The result is a collaboration between:
 - Riga Technical University
 - KU Leuven
 - Grodno State University
 - Gomel State University
 - Belarusian State University



Thank you for your attention!

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