

**Institute of industrial
management,
economics and trade**

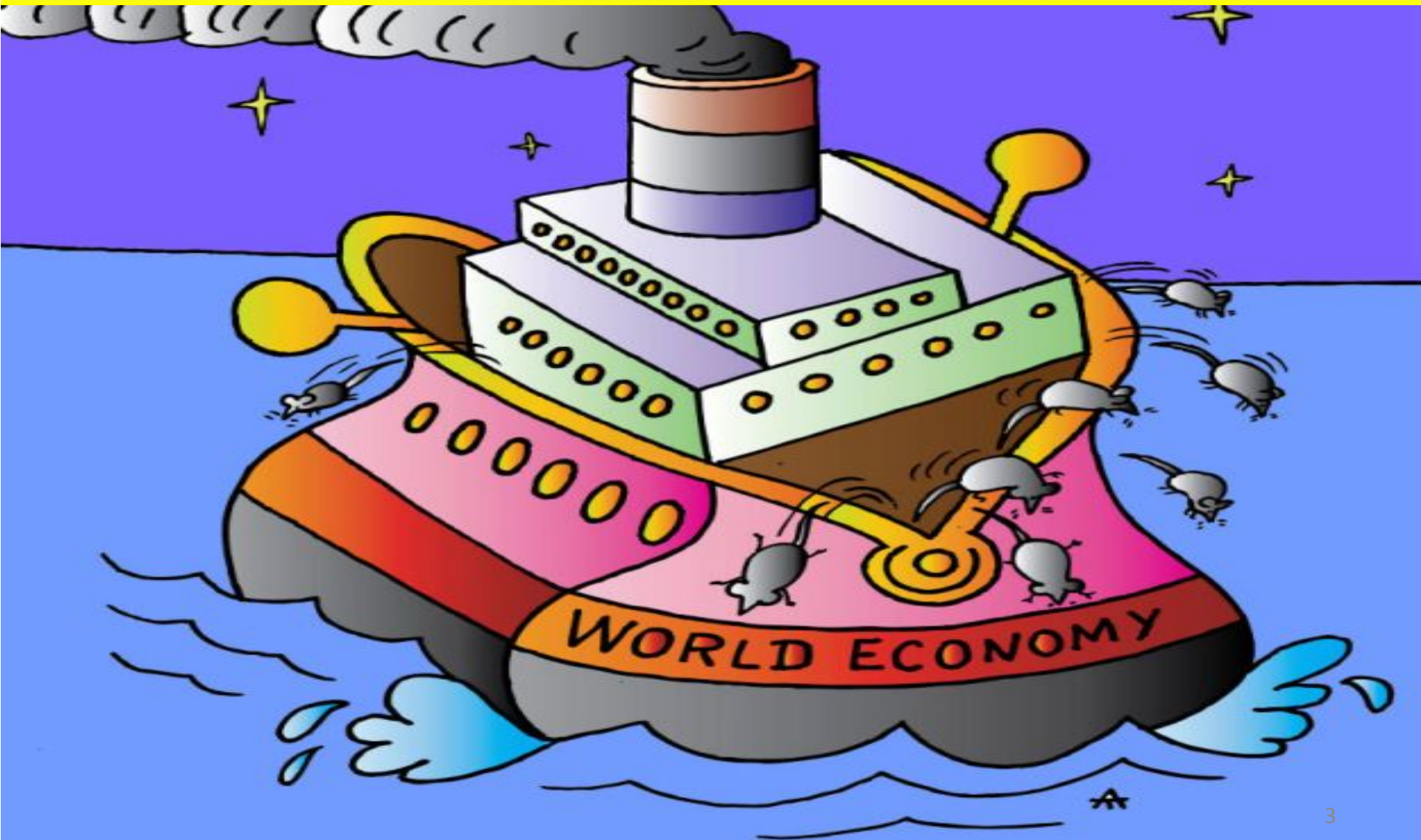




**ANNA ANATOL'EVNA
TIMOFEEVA**



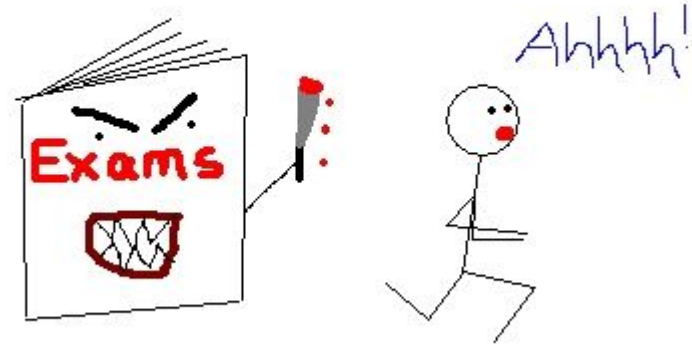
Introduction to the world economy



8 lectures

8 seminars

Exam



Lectures

The world economy theory

Def: $C_+ = \frac{1}{\sqrt{2}} (\sigma b_+ + i p x)$; $C_- = \frac{1}{\sqrt{2}} (\sigma b_- - i p x)$; $H = \psi C_+ C_-$

$H = (\sigma b_+ + i p x)(\sigma b_- - i p x) = \rho \mu^2$; $\sigma_r = \frac{5m}{4}$; $p_r = \frac{1}{4} m$

$= \sigma_+ \sigma_- + i p \sigma_+ x b_- - i p \sigma_- x b_+ + p^2 x^2 = \sigma_+ \sigma_- + p^2 x^2 - \rho \mu^2$

$\sigma_+ + p = (\sigma + i p)(\sigma - i p)$; $\sigma^2 - p^2 = 5$; $(\sigma b_+ + i p x)(\sigma b_- - i p x) = \rho \mu^2$

$[b_+ b_-] = \frac{1}{\mu^2}$; $b_+ = \frac{1}{\mu^2} \sigma x$; $H = \frac{5m}{8} + \frac{1}{4} m x^2$

$V = \frac{5m}{4} x^2$; $|\psi| = \frac{(5m\sigma^2)^{1/4}}{2}$

$\psi(x) = \frac{1}{\sqrt{2}} \left(\frac{\sigma}{p} e^{i p x} + \frac{p}{\sigma} e^{-i p x} \right)$

$\langle \psi | \psi \rangle = \int_{-\infty}^{\infty} \psi^*(x) \psi(x) dx = \int_{-\infty}^{\infty} \frac{1}{2} \left(\frac{\sigma}{p} e^{i p x} + \frac{p}{\sigma} e^{-i p x} \right) \left(\frac{\sigma}{p} e^{-i p x} + \frac{p}{\sigma} e^{i p x} \right) dx$

$\langle \psi | \psi \rangle = \frac{1}{2} \left(\frac{\sigma^2}{p^2} \int_{-\infty}^{\infty} e^{i p x} e^{-i p x} dx + \frac{p^2}{\sigma^2} \int_{-\infty}^{\infty} e^{-i p x} e^{i p x} dx + \frac{\sigma p}{\sigma p} \int_{-\infty}^{\infty} e^{i p x} e^{i p x} dx + \frac{\sigma p}{\sigma p} \int_{-\infty}^{\infty} e^{-i p x} e^{-i p x} dx \right)$

$\langle \psi | \psi \rangle = \frac{1}{2} \left(\frac{\sigma^2}{p^2} \int_{-\infty}^{\infty} dx + \frac{p^2}{\sigma^2} \int_{-\infty}^{\infty} dx + \frac{\sigma p}{\sigma p} \int_{-\infty}^{\infty} e^{2 i p x} dx + \frac{\sigma p}{\sigma p} \int_{-\infty}^{\infty} e^{-2 i p x} dx \right)$

$\langle \psi | \psi \rangle = \frac{1}{2} \left(\frac{\sigma^2}{p^2} L + \frac{p^2}{\sigma^2} L + 0 + 0 \right) = \frac{1}{2} \left(\frac{\sigma^2 + p^2}{p^2} L \right)$

$\langle \psi | \psi \rangle = \frac{1}{2} \left(\frac{5 + 1}{1} L \right) = \frac{1}{2} (6 L)$

$\langle \psi | \psi \rangle = 3 L$

$L = \int_{-\infty}^{\infty} dx = 2 \int_0^{\infty} dx = 2 \left[\frac{x}{2} \right]_0^{\infty} = x$

$\langle \psi | \psi \rangle = 3 x$

$\langle \psi | \psi \rangle = 3$

Seminars

Reports

Tests

Surveys



Final mark



- ✓ *Participation in lecturers/seminars: answers to the questions => 😊 => scores at the end of lecture*
- ✓ *Tests (7-8) => 1-2 scores for 1 test*
- ✓ *Reports (2-3) (articles with questions) => 1-7 scores*
- ✓ *Questions to article in vk => 1 score for 1 question*
- ✓ *Exam: 10 questions (2 open questions) => 35 scores*

Final mark

The average of the maximum number of points of the three best students is taken for 100%

□ 90 % excellent

□ 80 % good

□ 65 % satisfactory



FAQ



**No Mobile
phones
No iPads**

**For the
examination
and tests**



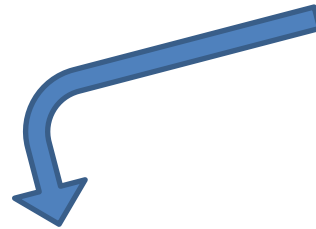
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- Фотографии
- Музыка
- Видео
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Анна Тимофеева

Online

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Укажите Ваши контакты

Подарки 15



мифа
ив
мофееву Анну Анатольевну на 1



Sources:

<https://www.cia.gov/index.html>

The Central Intelligence Agency (CIA) is an independent US government agency responsible for providing national security intelligence to senior US policymakers.

**EMICC - uniform interdepartmental
statistical system**

fedstat.ru

<http://www.weforum.org>

The World Economic Forum

The World Economic Forum publishes a comprehensive series of reports which examine in detail the broad range of global issues it seeks to address with stakeholders as part of its mission of improving the state of the world. Besides reports on its key events and standalone publications such as the Global Competitiveness Report, the Global Risks Report and the Global Gender Gap Report, the Forum produces landmark titles covering the environment, education, individual industries and technologies.

<http://wdi.worldbank.org/tables>

<http://www.imf.org/external/data.htm#data>
international monetary fund МВФ

[http:// www.gks.ru](http://www.gks.ru)

The federal agency of government statistics