

Kazakh British Technical University

Informatics



"The More You Sweat in Practice,
the Less You Bleed in Battle."

Made
by:

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Almaty 2016

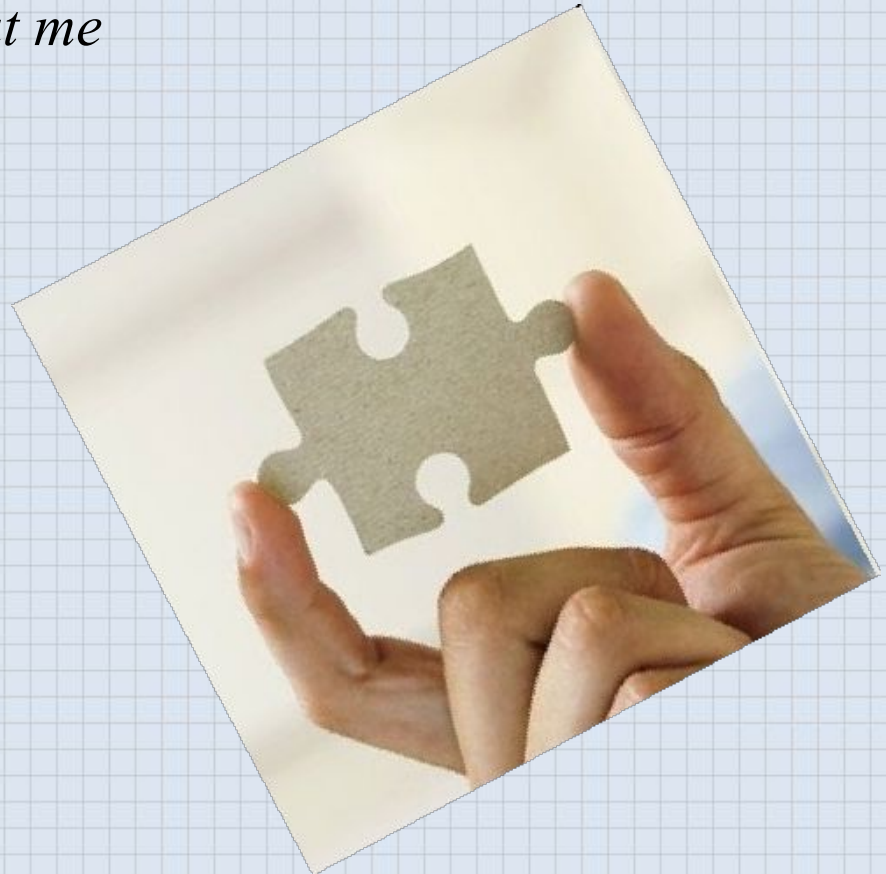
Outline

1. *Introduction*

- *Couple of words about me*
- *Your turn*

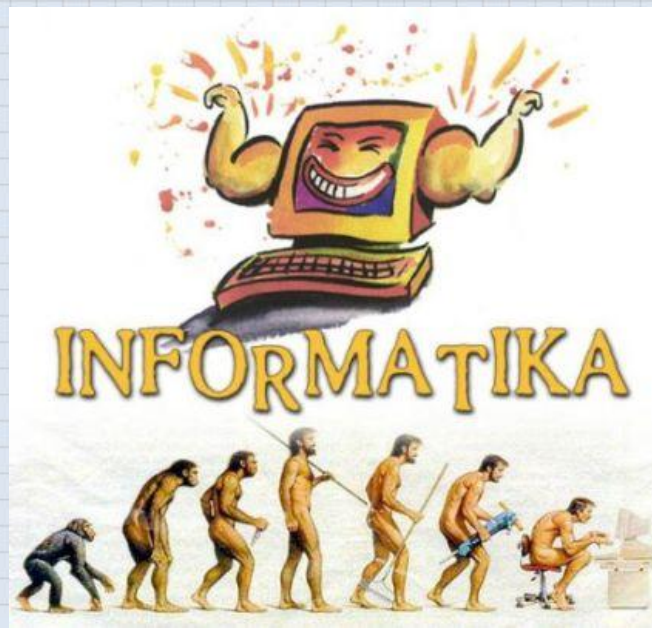
2. *Course track*

3. *Conclusion*

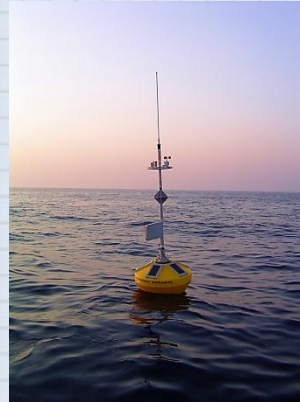
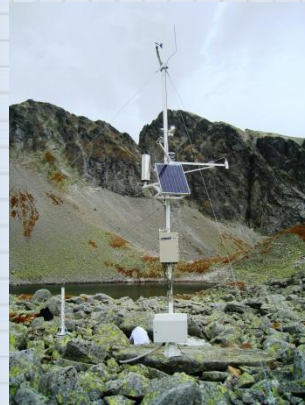


Introduction

The course is designed to help the students develop their IT competence. The course is focused on learning Operating System (Windows), software products of MS Office and provides opportunities for building up own CV, Interactive Multimedia Presentations, Spreadsheets calculations, working with Internet applications and create own web sites. As well, students will practice anonymity in WEB and study the best Security techniques.

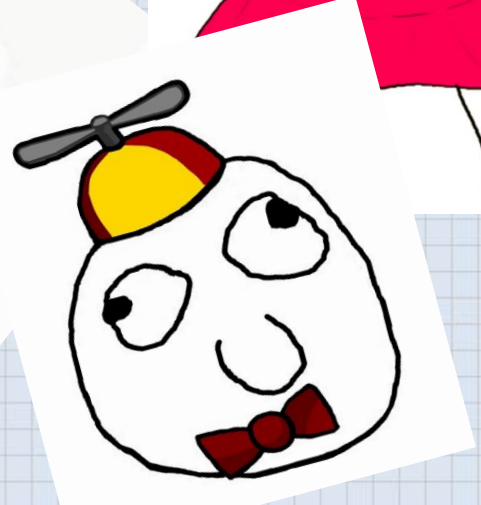
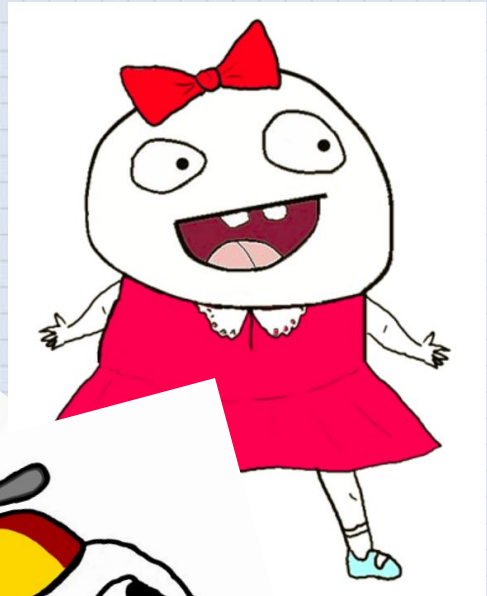
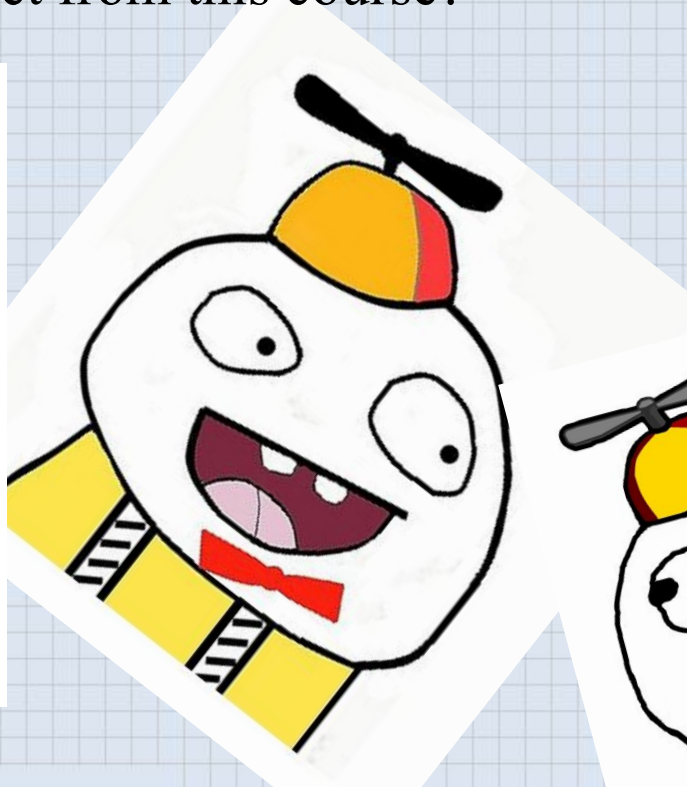


Solutions for the real world



You are

1. Name-Surname
2. Achievements
3. Additional info (IELTS score, Olympiads, Social Life)
4. Sphere of interests
5. What do you expect from this course?



Course track

- Starting a new day from the IT-news

<http://profit.kz/>

<http://tengrinews.kz/tech/>

<http://www.habrahabr.ru>

<http://www.computerworld.kz/>

<http://xakep.ru>

<http://www.securitylab.ru/>

<http://ictmagazine.kz/> and so on...

- Homework every day.

Course track (preliminary)

Day-by-day plan:

1. **History of Computers** (10101, Typewriter-Соло. nabiraem.ru Hotkeys, Shortcuts)
2. **Von Neumann Architecture** (Full report about PC: RAM, CPU, HDD.)
3. **History of Internet** (wix.com/ wordpress.com/)
4. **Excel 1** (Google Sheets: Docs, Sheets, Slides, Forms)
5. **Excel 2** (Winword: как правильно цитировать. Auto citations of essays.)
6. **Security 1:** (Anonymous. TOR/VPN, Prey Anti Theft Notebook/Smartphone)
7. **Security 2:** (ЭЦП, CryptoContainers. TCrypt, File restoration R-Studio/Recuva.)
8. **Networks** (Making a Wi-Fi Access Point DynDNS, IP-address, MAC, 2G/4G)
9. **Information sharing** (NFC, QR-codes, TeamViewer/RDP/VNC, Torrents)
10. **E-Commerce and Online Payment** (Satu.kz, BitCoins, QIWI, eKZ, Visa3Ds)
11. **Crowd Sourcing:** Coursera/ udemy/ edx. Kickstarter.com, indiegogo.com, Map making OSM, Wiki Translation
12. **Cloud Services** (Virtualization. Поставим VirtualBox, погоняем Win XP.)
13. **Open Source lecture** (GNU License) Online infographics tools
14. **Messaging** (Telegram Bots / Whatsapp / Slack/ Signal/ Threema)

Grading: Bonus

TASKS

for students independent study (SIS)



| <u>Week</u> | <u>SIS</u> | <u>Cost (in points)</u> |
|-------------|---|-------------------------|
| 1. | SIS 1. Adaptation of GIT version control system | 5 |
| 2. | SIS 2. Design patterns in web development: MVP, MVVM etc. | 5 |
| | Total | 10 |



TASKS

for teachers supervised independent study of students (TSIS)

| <u>Week</u> | <u>TSIS</u> | <u>Cost (in points)</u> |
|-------------|------------------------|-------------------------|
| 1-7 | <u>Project, part 1</u> | 10 |
| 8-14 | <u>Project, part 2</u> | 10 |
| | Total | 20 |

COURSE ASSESSMENT PARAMETERS

| <u>Type of activity</u> | <u>Final scores</u> |
|----------------------------|---------------------|
| Attendance /participation | 5% |
| Laboratory works | 15% |
| SIS | 10% |
| TSIS | 20% |
| Midterm and <u>endterm</u> | 10% |
| Final exam | 40% |
| Total | 100% |

Grading: Bonus

1 pt for Attending IT-parties e.g. IT-Friday, MobiEvent, Internet Avenue, Я.Субботник, HabraEvent, PMIchapter; [TEDx'es](#), Международный турнир Cisco IT Battle <http://it-battle.com> etc.

1 pt for Translation of course-related articles in Wikipedia, e.g.
https://en.wikipedia.org/wiki/Multitier_architecture
http://en.wikipedia.org/wiki/N%2B1_redundancy
https://en.wikipedia.org/wiki/Architectural_pattern

3-2-1 pts to the fastest touchtypers

1 pt for vocabulary from IT-Movies in English: TBBT, IT-Crowd, Sword-fish, Die Hard 4, Mr.Robot, Hackers (with Angelina Jolie 8-)

- Share dictionaries with >50 words for ABBYY Lingvo Tutor (.xls) or similar.



Thank you for
attention!