

# РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ

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## ОТЧЕТ

### ПО ЛАБОРАТОРНОЙ РАБОТЕ № 2

дисциплина:     *Архитектура компьютера*

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Группа:   НКА-03-24

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## Цель работы

Целью работы является изучить идеологию и применение средств контроля версий. Приобрести практические навыки по работе с системой git.

## Ход работы

Регистрируюсь на гитхабе

Нахожу шаблонный репозиторий и создаю из него свой.

The screenshot shows the GitHub interface for the repository 'yamadharm/course-directory-student-template'. The repository is a public template with 3 watchers, 26 forks, and 5 stars. It has a 'Use this template' button that opens a dropdown menu with options to 'Create a new repository' or 'Open in a codespace'. The repository is currently on the 'master' branch, with 2 branches and 10 tags. The commit history shows a merge of branch 'release/1.0.9' 3 weeks ago, with 59 commits. The file list includes 'config', 'template', '.gitattributes', '.gitignore', '.gitmodules', 'CHANGELOG.md', and 'COURSE'. The 'About' section describes it as a 'Course Catalog Template for Students' with a CC-BY-4.0 license, 5 stars, 3 watchers, and 26 forks. The 'Releases' section shows version 'v1.0.9' as the latest release.

File	Commit Message	Time
config	feat(course): add os2	last month
template	chore(main): update submodules	3 weeks ago
.gitattributes	Initial commit	2 years ago
.gitignore	Initial commit	2 years ago
.gitmodules	chore(main): add conventional changelog support	2 years ago
CHANGELOG.md	chore(main): update changelog	3 weeks ago
COURSE	feat(script): add script for auto-determine name of course	2 years ago

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (\*).

**Repository template**

yamadharm/course-directory-student-template ▾

Start your repository with a template repository's contents.

☐ **Include all branches**  
Copy all branches from yamadharm/course-directory-student-template and not just the default branch.

**Owner \*** ahmedkusei ▾ / **Repository name \***

✔ arch-pc is available.

Great repository names are short and memorable. Need inspiration? How about [symmetrical-winner](#) ?

**Description (optional)**

☒ **Public**  
Anyone on the internet can see this repository. You choose who can commit.

☐ **Private**  
You choose who can see and commit to this repository.

ⓘ You are creating a public repository in your personal account.

[Create repository](#)

Установил программу гит


Сначала сделаем предварительную конфигурацию git, создаю пользователя и ставлю параметры.

```
ahmedkusei@VirtualBox:~$  
ahmedkusei@VirtualBox:~$ git config --global user.name "ahmedkusei"  
ahmedkusei@VirtualBox:~$ git config --global user.email "1032245449@pfur.ru"  
ahmedkusei@VirtualBox:~$ git config --global core.quotepath false  
ahmedkusei@VirtualBox:~$ git config --global init.defaultBranch master  
ahmedkusei@VirtualBox:~$ git config --global core.autocrlf input  
ahmedkusei@VirtualBox:~$ git config --global core.safecrlf warn  
ahmedkusei@VirtualBox:~$
```

Далее создаю ключи для идентификации.

```
ahmedkusei@VirtualBox:~$ ssh-keygen -C "ahmedkusei 1032245449@pfur.ru"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ahmedkusei/.ssh/id_rsa):
Created directory '/home/ahmedkusei/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ahmedkusei/.ssh/id_rsa
Your public key has been saved in /home/ahmedkusei/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:8T8+Ano+4jDdtHRsgV2FfXn8aZ0jUvFL6NmDbubaCaE ahmedkusei 1032245449@pfur.ru
The key's randomart image is:
+---[RSA 3072]-----+
|          . = 0 . . |
|         o . . . + . + |
|        o o . . + * |
|       + o . . = + |
|      S = . . + o + . |
|     . + . + . . o . |
|    o . . o E . o + |
|   o o o . . B . . |
|  . . + . . o o = |
+-----[SHA256]-----+
ahmedkusei@VirtualBox:~$
```

И добавляю ключ в профиль на гитхабе



**ahmedkusei** (ahmedkusei)  
Your personal account

[Go to your personal profile](#)

- Public profile
- Account
- Appearance
- Accessibility
- Notifications

Access


- Billing and plans
- Emails
- Password and authentication

### SSH keys

New SSH key

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

#### Authentication keys



**key**  
SHA256:8T8+Ano+4jDdtHRsgV2FfXn8aZ0jUvFL6NmDbubaCaE  
Added on Sep 21, 2024  
Never used — Read/write

Delete

Check out our guide to [connecting to GitHub using SSH keys](#) or troubleshoot [common SSH problems](#).

Теперь я создаю рабочий каталог и клонирую туда репозиторий с гитхаба.

```
ahmedkusei@VirtualBox:~$
ahmedkusei@VirtualBox:~$ mkdir -p ~/work/study/2024-2025/"Архитектура компьютера"
ahmedkusei@VirtualBox:~$ cd ~/work/study/2024-2025/"Архитектура компьютера"
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера$ git clone --recursive git@github.com:ahmedkusei/arch-pc.git
Клонирование в «arch-pc»...
The authenticity of host 'github.com (140.82.121.4)' can't be established.
ED25519 key fingerprint is SHA256:+DiY3wvV6TUJHbpZisF/zLDA0zPMSvHdKr4UvCOqU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 33, done.
remote: Counting objects: 100% (33/33), done.
remote: Compressing objects: 100% (32/32), done.
remote: Total 33 (delta 1), reused 18 (delta 0), pack-reused 0 (from 0)
Получение объектов: 100% (33/33), 18.81 КиБ | 458.00 КиБ/с, готово.
Определение изменений: 100% (1/1), готово.
Подмодуль «template/presentation» (https://github.com/yamadharma/academic-presentation-markdown-template.git) зарегистрирован по пути «template/presentation»
Подмодуль «template/report» (https://github.com/yamadharma/academic-laboratory-report-template.git) зарегистрирован по пути «template/report»
Клонирование в «/home/ahmedkusei/work/study/2024-2025/Архитектура компьютера/arch-pc/template/presentation»...
remote: Enumerating objects: 111, done.
remote: Counting objects: 100% (111/111), done.
```

Создаю курс

```
ahmedkusei@VirtualBox:~$
ahmedkusei@VirtualBox:~$ cd ~/work/study/2024-2025/"Архитектура компьютера"/arch-pc
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ rm package.json
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ echo arch-pc > COURSE
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make
Usage:
  make <target>

Targets:
  list           List of courses
  prepare        Generate directories structure
  submodule      Update submodules

ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ make prepare
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ ls
CHANGELOG.md  config  COURSE  labs  LICENSE  Makefile  prepare  presentation  README.en.md  README.git-flow.md  README.md  template
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

Отправляю в гитхаб

```
create mode 100644 presentation/report/image/placeholder_800_600_tech.jpg
create mode 100644 presentation/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100755 presentation/report/pandoc/filters/pandoc_eqnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_fignos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_secnos.py
create mode 100755 presentation/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/core.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/main.py
create mode 100644 presentation/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 presentation/report/report.md
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$ git push
Перечисление объектов: 37, готово.
Подсчет объектов: 100% (37/37), готово.
При сжатии изменений используется до 6 потоков
Сжатие объектов: 100% (29/29), готово.
Запись объектов: 100% (35/35), 341.27 КиБ | 2.40 МиБ/с, готово.
Total 35 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To github.com:ahmedkusei/arch-pc.git
  8969e78..a561ac5  master -> master
ahmedkusei@VirtualBox:~/work/study/2024-2025/Архитектура компьютера/arch-pc$
```

Загружаю этот отчет на гитхаб.

**Вывод:**

В ходе выполнения работы изучили работу с GitHub.