

Department of Electrical & Computer Engineering  ${\tt ENCS101-Course\ Name}$ 

## Report Title

Prepared by: Student's Name Instructor: Instructor's Name

**Date:** May 6, 2022

### Abstract

You can check the cites.bib in order to add references (it would be automatically added to the report once you cite it[1] with \cite{tag}). For the figures I do not prefer static figures, I like to generate them with TikZ, but in case you've needed some static figures you can add them to the assets directory to keep your files organized.

## Contents

1	Sect	ion	1
	1.1	Tables	1
	1.2	Figures	1
	1.3	Equations	2
	1.4	Listings	3
<b>2</b>	Con	clusion	4

#### 1 Section

#### 1.1 Tables

Tables can be built and labeled like this, adding a new row requires adding new line of entries, separated by & and ends with \\, while adding new column requires adding 1 in the \begin{tabular}{1111} part.

Table 1: Table Captio	Table	1:	Table	Caption
-----------------------	-------	----	-------	---------

Title 1	Title 2	Title 3	Title 4
Entry 1	Entry 2	Entry 3	Entry 4
Entry 5	Entry 6	Entry 7	Entry 8

#### 1.2 Figures

you can add figures with captions, also you may label them and reference them again with \ref{fig:fig1}.



Figure 1.1: Birzeit Logo (PNG)



Figure 1.2: Birzeit Logo (SVG)

Or you can generate figures using TikZ, I've provided some styles to generate block diagrams as in Figure 1.3, but I won't be able to explain TikZ syntax for you so please try figure it out by yourself (it isn't hard to understand). Also you can add subfigures using subfigure environment<sup>1</sup>.

<sup>&</sup>lt;sup>1</sup>Environment means a block surrounded by \begin{envname} and \end{envname}

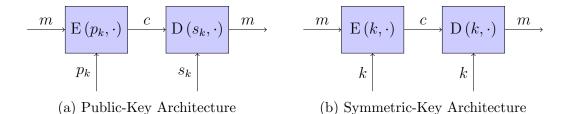


Figure 1.3: Public-Key vs. Symmetric-Key: Architecture

#### 1.3 Equations

you can use align environment to insert aligned equations like this

$$\tau = 28 s \tag{1}$$

$$\omega = 2\pi \frac{2}{60} = 0.209 \ rad/s \tag{2}$$

$$lag = \frac{\theta(\omega)}{\omega} = \frac{\arctan(\omega\tau)}{\omega}$$

$$= \frac{\arctan(0.209 \cdot 28)}{0.209}$$

$$= 6.69 s$$
(3)

or you can insert \notag at the end of each line to prevent it from being enumerated.

$$\tau = 28 s$$

$$\omega = 2\pi \frac{2}{60} = 0.209 \ rad/s$$

$$lag = \frac{\theta(\omega)}{\omega} = \frac{\arctan(\omega\tau)}{\omega}$$

$$= \frac{\arctan(0.209 \cdot 28)}{0.209}$$

$$= 6.69 \ s$$

And you can insert one line equation with equation environment.

$$A = 15 \cdot B \tag{4}$$

and equation\* environment to prevent the equation from being enumerated.

$$A = 15 \cdot B$$

And inline math if you want with \$Expression\$ like this A = 15.

### 1.4 Listings

Listing 1.1 shows a sample listing for C++ code.

```
#include <iostream>
#include <algorithm>

using namespace std;

int main() {
    int n; cin >> n;
    int a[n];
    for (int i = 0; i < n; ++i)
        cin >> a[i];
    sort(a, a + n);
    for (int i = 0; i < n; ++i)
        cout << a[i];
    return 0;
}</pre>
```

Listing 1.1: Sample Code

Listing 1.2 shows a sample listing for shell session.

```
$ g++ main.cpp
$ ./a.out
4
3 2 4 1
1 2 3 4
```

Listing 1.2: Sample Output

## 2 Conclusion

Feel free to use this template for your reports.

### References

[1] J. Jonsson and B. Kaliski, "Public-Key Cryptography Standards (PKCS) #1: RSA Cryptography, Appendix A.2 Scheme identification," Internet Requests for Comments, RSA Laboratories, RFC 3447, February 2003. [Online]. Available: https://www.ietf.org/rfc/rfc3447.txt

# List of Figures

1.1	Birzeit Logo (PNG)	1
1.2	Birzeit Logo (SVG)	1
1.3	Public-Key vs. Symmetric-Key: Architecture	2

т •		C		1 1	
Lл	St	O†	Ta	h	les

# List of Listings

1.1	ample Code	
1.2	ample Output	: