

**OZYEGIN UNIVERSITY**

**DEPARTMENT OF CIVIL ENGINEERING**

**CE 441 SENIOR PROJECT**

submitted in partial fulfilment of the requirement for the degree of B.Sc. in civil engineering

**PROJECT TITLE**

By:

**Student # 1 (name and surname)**

**Student # 2 (name and surname)**

**Student # 3 (name and surname)**

**Student # 4 (name and surname)**

Supervised by:

**Title and name of your project advisor**

2019

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SUMMARY

This section should give a one-page summary of the project. It should be at least three paragraphs. First paragraph should be a brief introduction, second paragraph should include methodology/work done and results, last paragraph should include conclusion.

Throughout the report make sure you use word “styles” as used here. For example, this text s “MainBody” style.

For table of contents: just update it at the end when you are done with report. Right click the table and select update field option.

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LIST OF SYMBOLS

Once done with all symbols hide the table borders (select table on left top corner 🡺 go to border and remove it. Add rows as needed.

Update properly. Symbols should appear in alphabetic order

|  |  |
| --- | --- |
| *As* | Steel Area |
| *D* | Effect |
| *Ec* | Modulus of Concrete |
| *Es* | Steel Modulus |
| *fcc* | Concrete Strength at Member |
| *fcd* | Concrete Design Strength |
| *fck* | Concrete Characteristic Strength |
| *fyd* | Steel Design Strength |
| *fyk* | Steel Characteristic Strength |
| *H* | Height of the Section |
| *k1* | Concrete Coefficient |
| *M* | Bending Moment |
| *N* | Number of Bars |
| *P* | Axial Force |
| *γmc* | Concrete Material Factor |
| *γms* | Steel Material Factor |
| *ε0* | Strain at Peak Strength |
| *εsy* | Steel Yield Strain |
| *εu* | Concrete Failure Strain |
| *ϕ* | Bar Diameter |

For list of tables: just update it at the end. Right click the table and select update field option.

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# INTRODUCTION is heading 1 use style

Sections can be different from report to report depending on nature of the project. But Introduction, Methodology and Design, Conclusions sections are must

This section should give an introduction of the project. If there is no separate literature review section, it should also include literature review. It should also clearly specify project objectives/ goals. What will you design should be explained here.



Figure 1: Sample P-M interaction diagram

To insert figure caption (Figure X): reference🡪 insert caption🡪 select label figure🡪ok

Select figure caption that is (Figure 1: Sample P-M interaction diagram) and change style to FIGURE

Figure should be clear and readable. Axis both x and y should have title and if applicable units. If there is more than one live (curve) they should be distinguished using legends.

# LITERATURE REVIEW heading 1

If a detailed literature review is not included in Introduction Section or in any other section, it should be included here. Give references where needed. Some reports may not need a literature review.

# METHODOLOGY AND DESIGN

Change title if needed. But this section should include methodology followed. Also, if applicable include design basis. This will be typically inputs from your advisor (if applicable). For example, codes and standards that will be used will be mentioned here.

To insert tablecaption: reference🡪 insert caption🡪 select label table🡪ok

Select table caption that is (Table 1: Concrete and steel material properties) and change style to Table

Font in table should be times new roman 11.

Table 1: Concrete and steel material properties (this is table caption)

|  |  |  |
| --- | --- | --- |
| **Parameter** | **Concrete** | **Steel** |
| *Characteristic strength* | *fck=30 MPa* | *fsk*= 420 *MPa* |
| Material factor | *γmc*=1.5 | *γms* =1.15 |
| Design strength | *fcd* = 20 *MPa* | *fsd*=365.2 *MPa* |
| Modulus of elasticity | *Ec*=19379 *MPa* | *Es*=200000 *MPa* |
| Whitney constant | k1=0.82 |  |
| Crushing strain | εu =0.003 |  |

## Whitney Stress Block this is heading 2 (style)

Use as many as sub heading as needed.

Put equations in Tables as shown below. Once done select borders and select “no borders”

|  |  |
| --- | --- |
| $$k\_{1}=\left\{\begin{array}{c} 0.85 \&f\_{c}<25 MPa\\0.85-0.006\left(f\_{c}-25\right)k\_{1} \&f\_{c}\geq 25 MPa\end{array}\right.$$ | (1) |

### Actual Concrete Compressive Stress-Strain Curve )this is heading 3)

Use as many as sub heading as needed.

# RESULTS AND DISCUSSION

This section should have your results and discussions.

# CONCLUSIONS

This section should have conclusions. Conclusion should be brief and clearly state findings. It can have a one paragraph project summary too at the beginning. This section should not be more than 1-2 pages.

# ACKNOWLEDGMENT

Here you should acknowledge the contributors to your project. It can be your advisor, companies that have donated material or provided data/drawing, etc.

# REFERENCES

References should appear together in the References section in the order in which they are cited in the report. All references should be cited in the text. The codes or standard used for the project should be included.

* **Kitap referansı için gösterim [2]**

Yazarın SOYADI, ADI., *Kitap adı,* Yayınevi, Basım Yeri, Yayın yılı.

MERCER, P.A. ve SMITH, G., *Private viewdata in the UK,* 2nd ed., Longman, London, 1993.

* **Dergilerdeki makaleler için gösterim [3]**

Yazarın SOYADI, ADI., Makalenin adı, *Derginin Adı*, Cilt no ve (bölüm no), sayfa numaraları, Yayın yılı.

EVANS, W.A., Approaches to intelligent information retrieval, *Information processing and management,* 7 (2), 147-168, 1994.

* **Konferans bildirileri için gösterim [4]**

Yazarın SOYADI, ADI., *Konferans bildirisinin basligi,* Kongre adi, Kongre Yeri, yılı.

SILVER, K., *Seismic proporties of concrete structures,* World Eartqukae Conferance, London, 1991.

* **Tezler için gösterim [5]**

Yazarın SOYADI, ADI., *Tezin Adı,* Yüksek Lisans/Doktora, Enstitü Adı, Yayın yılı.

AGUTTER, A.J., *The linguistic significance of current British slang,* Thesis (PhD), Edinburgh University, 1995.

# APPENDIX-A: Put here Title

This appendix includes …………..

Include appendixes here. You can have multiple ones. Name them Appendix-A, Appendix-B…

Appendix can have drawings or data such as calculation details. All appendix should eb referred in main text

 