

# Project Report and Thesis Preparation Instructions Joseph T. Foley<foley>

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#### 1 Introduction

These instructions detail how to prepare a final project report, master's thesis, or PhD dissertation for Reykjavík University. These instructions (unless otherwise stated) assume you are in the School of Science and Engineering or the School of Computer Science. If you are in another department, you should make sure that the template meets your specific requirements.

- For information specific to a given template, look for a README.TXT, README.pdf, or README.docx in the same directory/folder.
- Current maintainer: Joseph Timothy Foley. Questions, comments, complaints: <latex AT list.ru.is>

• To receive updates regarding the templates, subscribe at https://list.ru.is/mailman/listinfo/latex-announcements

#### 1.1 School of Science and Engineering Links

Information for Students https://www.ru.is/tvd/upplysingar-fyrir-nemendur/

**General MSc Rules** https://www.ru.is/media/tvd/skjol/Rules-for-MSc-programmes-at-RU-SSE-2017\_as\_accepted\_15\_08\_2017--003-.pdf

**MSc Thesis Rules** https://www.ru.is/media/tvd/skjol/Vidbotarreglur\_um\_meistaraverkefni\_ 2017\_as\_accepted\_15\_08\_2017.pdf

## 2 Where to get it

Stable Release: https://repository.cs.ru.is/svn/thesis-template/branches/stable/RUThesisTemplazip

Help page: https://help.ru.is/index.php?/Knowledgebase/Article/View/156/0/finalprojectthesisdissertation-template

#### 3 Files and Directories/Folders

- cls/: contains the rureport.cls template used to format these instructions.
- graphics/: contains the graphics to generate this document.
- msword/: contains the MS word signatures pages and an example template for the various degrees.
   These templates are automatically generated from the LATEX templates on occasion and are only for reference.
- latex/: containes LaTeX templates
- deadlines.xlsx: A deadline calculator that uses the semester's graduation date
- RU-TVD-MSC-rules-2017.pdf: RU Master's Thesis rules and information

# 4 Signatures

Please make note of the signature pages at the beginning of the document. These need the examiner's and advisors' signatures to be complete. There is also a page for copyright release that needs to be signed so the library can keep a copy. You must include the signed pages when you upload your document electronically to Skemma.

# 5 Printing

When you get your final print, make sure you are doing it on archival A4 acid-free paper. Otherwise, your document will yellow and fall apart in the library over time. Traditionally, the student prints out and binds a copy for each advisor and examiner. This may also be required if the research was funded or in certain circumstances.

#### 6 Submission

When your document is finished and approved by your advisor, it needs to be uploaded to Skemman https://skemman.is. An important thing to remember is that the uploaded document will follow you for the rest of your career: employers are likely to find it and skim it. Make sure the document is not something you would be embarressed by.

The general submission sequence is:

- 1. Defense complete, minor corrections complete after 3 days of work.
- 2. Get signature pages signed by supervisor(s) and examiner.
- 3. Sign the library release page.
- 4. Scan the pages in, put them into the document in the appropriate places.
- 5. Upload the finished PDF to Skemman.
- 6. An autogenerated email is sent from Skemman. This email should be forwarded to your admin such at Hjördís Lára Hreinsdóttir <hjordislh AT ru.is>.
- 7. Grade for the thesis is published.
- 8. Graduation!
- 9. Sometime after graduation, the published thesis is released by RU on Skemman for others to read and enjoy.

# 7 LaTeX Template Instructions

Many notes are at the top of the DEGREE-NAME-YEAR.tex file, this file is for a general overview and common problems. More information on working with LaTeX at http://afs.rnd.ru.is/project/htgaru/trunk/how-to-get-around-projects.pdf

#### 7.1 Getting started:

- 1. Find a safe place to work on your thesis. The author recommends Subversion on the https://projects.cs.ru.is servers, but anywhere data is backed up is a good idea. If you wish to have a repository to be setup for your thesis, email csit AT list.ru.is. If you are working with sensitive information, you should avoid bitbucket, google drive, dropbox, and any other free cloud service. If you think this is unnecessary, just consider how much time you will lose if your computer crashes. Due to Murphy's law, this is likely to happen just before your thesis is due<sup>1</sup>.
- 2. Get a LaTeX installation. We recommend TeXlive https://www.tug.org/texlive/ For this template on windows, MiKTeX will also work, but will run very slowly the first time you render the template. You will need to enable the "miktex" option in the template to substitute packages. It is very very important that you run the "MikTeX Update Wizard" before you start. Otherwise you may get errors when you try to build the document.

Under linux this is the "texlive" package. Under Mac/OSX this is the "MacTeX" distribution.

Alternatively, if nothing you are doing is particularly private or proprietary, you can do development online using Overleaf. In this case, you won't need to setup the rest of the tools mentioned below except perhaps

<sup>&</sup>lt;sup>1</sup>This has happened many times.

the Reference Manager mentioned in step 4. A version of the template can be found at https://www.overleaf.com/latex/templates/reykjavik-university-thesis-template/fwdnpmdvwqcj#.V\_TjteiLRph

- (a) RedHat: sudo yum -y install texlive-collection-fontsrecommended texlive-biblatex-apa,apa-doc,ieee,ieee-doc texlive-xargs,lipsum,lastpage,pseudocode,url,examplep,listings,xspace,pgf,tikz,amsfonts,amsmath,amssymbmulti,subfig,fixme,textpos,biblatex,makeglos,nomencl,xwatermark,ltxkeys,framed,boondox,printlen Getting biber installed on older RedHat systems is a bit tricky for unclear reasons. The metapackage you need is at https://copr.fedoraproject.org/coprs/cbm/Biber/
- (b) Debian/Ubuntu: sudo apt-get -y install texlive-full pgf latex-xcolor If you don't want to install every-thing, this list of packages is known to work: sudo apt-get -y install texlive texlive-latex-extra texlive-science texlive-generic-extra texlive-lang-european texlive-lang-german latex-xcolor texlive-pictures pgf texlive-bibtex-extra texlive-publishers chktex evince fonts-Imodern Imodern biber
- 3. Get a LaTeX Integrated Development Environment (recommended, but not required) http://texstudio.sourceforge.net/or http://www.xmlmath.net/texmaker/ Some editors may include LaTeX support. If you want to learn a very powerful (but old-fashioned) editor http://www.gnu.org/software/emacs/Install the auctex package by: M-x list-packages, click on AUCTeX
- 4. Get a references manager (recommended, but not required) http://jabref.sourceforge.net/ (You may have to install a Java JRE first.) The reference library is in references.bib by default. It is just a text file that can be edited, but be careful with the formatting. A common mistake is to forget "," at the end of each piece of an entry/line.
  - If you are going to make glossaries or acronym lists, you will need a perl interpreter. Only windows usually needs this installed: http://www.activestate.com/activeperl
- 5. Get supporting programs for some tools. For glossaries under windows, you will need to install Perl http://strawberryperl.com/ (it is already installed on the other platforms.)
- 6. Try building the instructions.tex file. If you get errors, there is something wrong with your LaTeX installation. Fix those first.
- 7. Rename the DEGREE-NAME-YEAR.tex file with your information.tex e.g. msc-foley-2015.tex. This is referred to as the "Main" file.
- 8. Open and read the options at the top of the previous file and set it up for your document. You will need to fill in the title and author at least.
- 9. Start editing all of the .tex files with your content.
- 10. Compile the document by running pdflatex on the Main file, run the bibliography tool, then view the result.
- 11. When you print, make sure that the scale is 100%. If you allow it to resize when printing, the margins won't be right. If the margins aren't right, then the RU logo will not look right on the cover.

#### 7.2 Important Details

Make absolutely sure that your references.bib is in UTF8. If it is another format (CP1251,etc) you
may get weird problems with any accented characters.

- Make sure the rest of the files, particularly the .tex file are in UTF8 or are at least in the same encoding.
  If the files are in different encoding, you will discover errors with accented characters when you try to include them together. Watch out for line endings. Linux, Windows, and OSX all use different line endings in text files.
- Use biber/biblatex instead of bibtex. (The template already does this.) Otherwise Icelandic characters will not work properly in your references.bib file. TexMaker and TeXStudio require a configuration change to do this. Refer to the "...Projects" guide above.
- Be consistent about UPPER and lower case in naming files. Windows doesn't care (but some programs in Windows do). OSX sometimes cares. Linux always cares.
- When using this template with SVN, you will want to tell it to ignore the extensions listed in Appendix C.1

## 8 SSE Master's Thesis Special Instructions

These rules are adapted from https://www.ru.is/media/tvd/skjol/Vidbotarreglur\_um\_meistaraverkefnige017\_as\_accepted\_15\_08\_2017.pdf

#### 8.1 Rules: Adopted by the School Council August 15th 2017

The following rules are an addition to Rules for MSc Programmes at Reykjavík University's School of Science and Engineering as adopted by the council of the School of Science and Engineering August 15th 2017.

The Council of the School of Science and Engineering first adopted these rules on 19th March 2010 and they have since undergone minor revisions.

In order to graduate with an MSc degree from the School of Science and Engineering (SSE) all students must complete a project that results in a formal thesis and a public defence of the thesis. The thesis can be submitted either in English or Icelandic and should sufficiently present a body of work commensurate with the number of credits of the particular MSc project.

#### 8.2 Thesis Layout and Form

The layout and form of the thesis shall in general be according to good practice for a thesis of this type. The student shall consult his/her supervisor on an appropriate structure for the thesis, appendices to the thesis and the reference system, taking into account established practice within the specific field of research. Each department within the School of Science and Engineering may set rules that further specify the form and layout of the thesis, including a recommended template.

In general, the thesis is expected to contain the following:

- Front cover (standard)
- · Front page (standard format)
- Title page (standard format)
- · Abstract (in English and Icelandic)
- · Signature page (standard format)
- · Acknowledgements (optional)

- · Preface (optional)
- · Table of contents
- · List of tables
- · List of figures
- List of drawings and enclosed material, e.g. CD (as appropriate)
- Introduction
- · Methods
- Results
- Discussion
- Conclusion
- References
- · Appendices (as appropriate)
- Back cover (standard)

The front cover, front page, title page and back cover have a specific form as shown in the attached examples and shall contain all information requested. No variation from this form is permitted. If the thesis is written in English, the title on the title page shall be in English; however, an Icelandic translation of the title must be presented with an Icelandic abstract, and vice versa if the thesis is written in Icelandic.

An abstract is mandatory, both in English and Icelandic. The maximum length of abstract is 300 words. At the end of the abstract there should be a list of up to five keywords reflecting the content of the thesis.

The printed version of the thesis shall be on white paper of size A4 and weight  $80 \,\mathrm{g}\,\mathrm{m}^{-2}$ . The cover pages will be provided by the School. In general, the font should be Times or Times New Roman of size 12 points. Guidelines for page numbering and layout:

- Page numbering is normally i, ii, iii, iv, ... for material preceding the first chapter of the thesis (i.e. for abstract, signature page, acknowledgements, preface, table of contents etc.) and then 1, 2, 3, starting from the 1st chapter (Introduction) and continuing throughout the thesis, including the appendices.
- Page numbers should in general be centered at the bottom of each page.

Only in exceptional cases may the thesis have a different form. While the thesis itself has to comply with the layout instructions in regards to the cover pages, abstract and the signature page, it can consist mainly of publishable research paper manuscripts. In this case, the manuscript(s) shall be preceded by a detailed section of introduction to the research topic with a corresponding in-depth literature review and detailed description of the methods used in the MSc project. The minimum length of this section shall be 20 pages excluding a reference list. This format of the MSc thesis should only be used if the supervisor of the thesis assesses the outcome of the MSc project to be publishable in indexed peer reviewed journals in the relevant field of research. If this format of the MSc thesis is used, the student's supervisor has to request a formal acceptance of both the student's Department Head and the Director of Graduate Studies, with a letter summarizing the findings of the project, the novelty beyond the state of the art and the contribution of all authors of the manuscript. This request has to be sent to the Department Head and the Director of Graduate Studies prior to t-50 (where "t" is the graduation date). The Department Head and Director of Graduate Studies can forward the request to the Graduate Study Council for further evaluation if they find it necessary.

#### 8.3 Limited Access

In general, access to the MSc thesis shall be open. If restricting access to a thesis is sought, e.g. for the purpose of protecting intellectual property or protecting commercial interests of an industrial partner participating in the MSc project, permission needs to be acquired, see *Reglur um skil á lokaritgerðum og lokaverkefnum við Háskólann í Reykjavík* (http://www.ru.is/bokasafn/skemman). If restriction of access to a thesis is granted it should be clearly stated in the thesis right after the keywords following the abstract with specification of the date at which the restriction of access should be lifted.

#### 8.4 Submission and Deadlines

The official completion of the MSc thesis is signified by the student submitting the final electronic (PDF) version of the thesis, signed by himself/herself, the supervisor(s) and the examiner to the SSE office and uploaded to Skemman, (see https://www.skemman.is). See also RU's rules for submission of theses and final projects (Reglur um skil á lokaritgerðum og lokaverkefnum við Háskólann í Reykjavík, http://www.ru.is/bokasafn/skemman).

If a student plans to graduate in a particular graduation ceremony, the following deadlines must be respected. Should any of the deadlines below not be respected the student will have to wait for the following graduation ceremony before he/she can graduate. Students are responsible for adhering to these deadlines and are advised to deliver their work in good time. The deadline schedule for the purpose of graduation is as follows (where t is the graduation date and the numbers refer to the number of days prior to graduation):

Final draft of thesis delivered to supervisor <sup>a</sup>	$t - 50^{\rm b}$
Supervisors comments delivered to student	$t-40^{\rm c,d}$
Thesis delivered to supervisor(s), examiner and department heada	$t-20^{\rm c}$
Examiner confirms that thesis may be put up for defense	$t-17^{\rm c}$
Defense	$t-14^{\tt c}$
Grade posted to the Registrar by SSE office	$t-11^{\tt c}$
Graduation	$t^{c}$

<sup>&</sup>lt;sup>a</sup> Paper and/or electronic form, as requested by the supervisor(s) and/or examiner.

Table 1: Schedule for thesis according to expected graduation date.

#### 8.5 Thesis Defense (Oral Examination Procedure)

The examiner is selected by the Department Head in consultation with the supervisor(s). The choice of examiner needs to be approved by the Director of Graduate Studies. The examiner shall have the qualifications necessary to supervise the thesis, but must not have collaborated in the project on which the thesis is based and must fulfil the rules of Reykjavík University on impartiality of examiners. The oral examination shall be open to the public and shall be announced through appropriate channels with at least 3 days notice. The examination should take the form of an approximately 30 minute presentation by the student, followed by questions

<sup>&</sup>lt;sup>b</sup> Date can be modified by mutual agreement of the supervisor, student and examiner.

<sup>&</sup>lt;sup>c</sup> Firm deadlines.

<sup>&</sup>lt;sup>d</sup> Or within 10 days after the supervisor has received the final draft, whichever comes first.

<sup>&</sup>lt;sup>e</sup> Or within 5 days after the defence, whichever comes first.

from the examiner, School representative (most often the Department Head), supervisor(s) and the audience. The audience then leaves the room and the examiner(s), supervisor and School representative have the opportunity to put further questions to the candidate and, as appropriate, request modifications to the thesis. Subsequently, the candidate leaves the room and the examiner, School representative and supervisor(s) deliberate and decide upon the grade. Normally, the student will be informed of the grade the next day. If the thesis is subject to confidentiality, or for other valid reasons approved by the Director of Graduate Studies, the oral examination may be closed to the public.

#### 8.6 Grading

The appointed examiner shall evaluate the thesis and the oral defense of the thesis, together with the supervisor(s) and the department's representative. One grade shall be awarded for the thesis and defence. The minimum passing grade is 6.0, see Guidelines for grading MSc theses in the appendix. The following factors shall be taken into account:

- · Significance and originality of work
- · Scientific and technological challenge and results
- · Methodological quality
- Presentation

The number of ECTS credits awarded for the Master's project shall be taken into account. Thus, significantly more demands in terms of originality, quantity and scientific quality of the work should be placed on the student for a 60 ECTS thesis than a 30 ECTS thesis.

#### 8.7 Guidelines for grading MSc thesis (English)

The guidelines below describe typical projects in different grading brackets. This is meant for examiners and instructors in grading master's theses. The projects need not fulfil every aspect of these desciptions in order to be awarded the corresponding grade.

Superior (9,0-10,0) The project is excellent. The handling of the material shows considerable originality and independant thought. Considerable skill in the definition and organized solving of the problem. Very good understanding of concepts. Academic approach and handling of material. Exemplary methods in collection and processing of data. Use of references is very precise and supports the projects well. The thesis may well lead to a publishable article. Exceptionally well polished thesis with very good grammar, spelling and language use. The thesis is in English. The student's performance in the defense is excellent.

**First grade (7,5-8,5)** The project is very good and handling of material is good and somewhat original. Clear understanding of the material and the definition of the problem is good and the solving well organized. Data gathering and processing without major weaknesses and intelligent use of references. The thesis is well arranged and grammar, spelling and language is good. The student's performance in the defense is either good or very good.

**Second grade (6,0-7,0)** The project is acceptable. Handling of material is fair and some independent thinking. Definition and analysis of project reflects some understanding. Data collection and processing is without major flaws. Deficiencies in the literature review. Flaws have not been addressed despite the instructor's suggestions. Language, grammar and spelling is fair. The student's performance in the defense is fair.

**Fail (1,0-5,5)** The project is unacceptable. The project has major flaws that have not been addressed despite the instructor's suggestions. Limited understanding of the material. Definitions and analysis do not show understanding of what is relevant in solving the problem at hand. Major errors or misunderstanding. Data collection and analysis has deficiencies and literature review is weak. The subject is not adhered to or major inconsistencies. Language, grammar and spelling is fair or poor. The student's performance in the defense is fair or poor.

#### 8.8 Viðmið fyrir einkunnagjöf

Eftirfarandi er lýsing á dæmigerðum verkefnum í mismunandi einkunnabilum sem er ætluð til stuðnings fyrir frófdómara og leiðbeinendur við mat á MSc verkefnum. Lýsinging þarf ekki að eiga við verkefnið í öllum atriðum til að verkefnið geti hlotið vipkomandi einkunn.

- Ágætiseinkunn (9,0 10,0) Verkefni er afburðagott. Efnistök engdurspegla umtalsverðan frumleika og sjálfstæði í hugsun. Umtalsverð færni í skilgeiningu og skipulegri úrlausn viðfangsefnisins. Mjög góður skilningur á hugtökum. Visindaleg n'lgun of efnistök. Fyrirmyndar vinnugrögð við öflun og úrvinnslu gagna. Heimildanotkun mjög nákvæm og styður vel við verkefnið. Ætla má að ritgerðin geti leitt til birtingarhæfrar greinar. Frágangaur sérlega góður og stafsetning og málfar mjög gott. Ritgerðin er skrifuð á ensku. Frammistaða nemanda í vörninni afburðagóð.
- 1. einkunn (7,5 8, 5) Verkefnier mjög gott og efnistök góð og nukkuð fruleg. Skýr skilningur á viðfangsefninu og góð færni í skilgreininngu þess og skipulegri úrlausn. Vinnubrögð við öflun og úrvinnslu gagna án verulegra veikleika og heimildanotkun skynsamleg. Frá gagnur góður og stafsetning og málfar gott. Frammistaða nemanda í vörninni góð eða mjög góð.
- 2. einkunn (6,0 7,0) Verkefnið er þokkalegt. Allgóð efnistök og sjálfstæð hugsun á köflum. Skilgreining og úrvinnsla viðfangsefnis endurspegla nokkurn skilning á viðvangsefninu. Öflun og úrvinnsla gagna án verulegra galla. Heimildanotkun nokkuð áfátt. Finna má galla sem ekki hafa verið lagfærðir þrátt fyrir ábendingar leiðbeinanda. Málfar og stafsetning þoggaleg. Frammistaða nemanda í vörninni þokkaleg.
- Falleinkunn 0,0 5,5 Verkefni fullnægir ekki lágmarkskröfum. Verkefnið hefur áberandi galla sem ekki hafa verið lagfærðir þrátt fyrir ábendingar leiðbeinanda. Takmarkaður skilningur á viðfangsefninu. Skilgreining og úrlausn viðfangsefnis sýnir ekki nægilega góða tilfinningu fyrir því hvað skitip máli við lausn þess. Verulegar villur eða misskilningur. Öflun og úrvinnsla gagna er töluvert áfátt sem og heimildanotkun. Farið út fyrir efnið eða umtalsverð ósamkvæmni. Málfar og stafsetning sæmileg eða slök. Frammistaða nemanda í vörninni sæmileg eða slök.

# 9 PhD Special Instructions

Final Preparation for PhD Dissertations:<sup>2</sup>

- 1. Send PDF to Administrative person Hjördís Lára Hreinsdóttir <hjordislh AT ru.is>
- 2. Get signature pages signed, and scan them into PDF
- 3. Talk to one of the printing companies in Iceland and ask if they can do a B4 booklet with a printed cover.
- 4. Make clear which elements are the outside cover and which are the inside contents. You want to make sure they don't print a copy of the cover inside the book.

<sup>&</sup>lt;sup>2</sup>Always refer to the website in case details have changed

- 5. They will insert your signature pages into the PDF and start the printing process; The paper you want is archival-quality acid-free  $240 \times 170 \, \text{mm}$  (aka B5, Programme, or Book Economy).
- 6. If you can, get a proof of the print to check that the layout is correct and the quality is good.
- 7. If is acceptable, then get them to print out the required number of copies.
- 8. Finally bring the copies to head of graduate studies(Benedikt Helgason <br/> <br/>benhel AT ru.is> or TVD Person), who should forward them as appropriate.

# A BSc Programs

- · Bioinformatics, Biomedical Engineering
- · Civil Engineering with specialization in Concrete Technology
- · Civil Engineering with specialization in Construction Management
- · Civil Engineering with specialization in Structural Design
- · Civil Engineering with specialization in Transport and Urban Planning
- · Construction Management
- · Electrical Engineering
- Mechatronics
- · Engineering Management
- Exercise Science and Coaching
- · Financial Engineering
- · Mechanical Engineering
- Sustainable Energy Engineering REYST
- Sustainable Science REYST
- Urban Planning and Transport

#### **B** MSc Additional Material

- · Cover pages, front and back (standard, provided by SSE)
- Example of a front page (text to appear in window on front cover page)
- · Example of a title page
- · Example of a signature page
- · List of MSc degrees awarded

### **B.1** List of Degrees Awarded

Master of Science in Biomedical Engineering	Meistarapróf (MSc) í heilbrigðisverkfræði
Master of Science in Civil Engineering	Meistarapróf (MSc) í byggingarverkfræði
Master of Science in Electrical Engineering	Meistarapróf (MSc) í rafmagnsverkfræði
Master of Science in Engineering Management	Meistarapróf (MSc) í rekstrarverkfræði
Master of Science in Exercise Science and Coaching	Meistarapróf (MSc) í íþróttavísindum og þjálfun
Master of Science in Financial Engineering	Meistarapróf (MSc) í fjármálaverkfræði
Master of Science in Mechanical Engineering	Meistarapróf (MSc) í vélaverkfræði
Master of Science in Sustainable Energy Engineering — ISE	Meistarapróf (MSc) í orkuverkfræði — ISE
Master of Science in Sustainable Energy — ISE	Meistarapróf (MSc) í orkuvísindum — ISE

# C Computer Science Programs

- · Computer Science
- · Software Engineering
- · Language Technology

#### C.1 LaTeX Generated file extensions

These are the files that LaTEX generates when you run it. If you are using SVN or another version control system, you want to tell that system to ignore these files:

- \*-blx.bib
- \*.acr
- \*.acn
- \*.alg
- \*.aux
- \*.bak
- \*.bbl
- \*.bcf
- \*.blg
- \*.bst
- \*.dvi
- \*.glo
- \*.gl\*
- \*.idx
- \*.ind
- \*.ilg
- \*.ist
- \*.lo?
- \*.mw
- \*.nlo
- \*.ntn
- \*.out
- \*.pdf
- \*.ps
- \*.rel
- \*.run.xml
- \*.sbl
- \*.slg
- \*.snm
- \*.sym
- \*.synctex.gz
- \*.tcp
- \*.thm
- \*.tdo
- \*.to?
- \*.tmp

- \*.tmproj
- \*.xwm
- •\_\*
- .\_.DS\_Store
- .~lock\*

auto

Thumbs.db