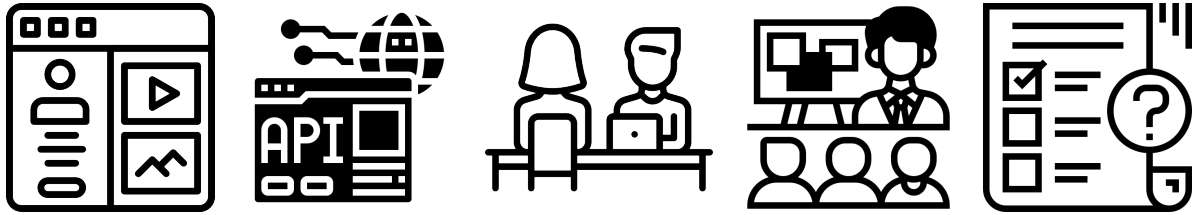
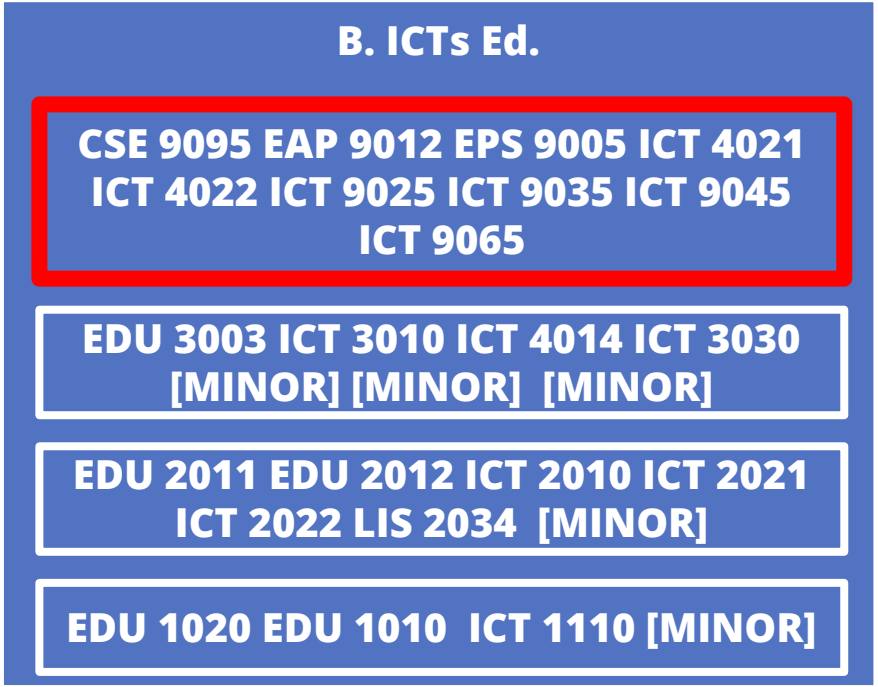


ICT 4014 (2020/21)
Project in Info. & Comm. Technologies
Lecture 1: Administrivia and Introduction

Lighton Phiri <lighton.phiri@unza.zm>
Department of Library & Information Science
University of Zambia
https://bit.ly/3pXtfDG

About ICT 4014

- **ICT 4014: Project in Information and Communication Technologies**
- **Prerequisites**
  - ICT 2034: Research Methods
  - ICT 3020: Fundamentals of Software Engineering and Project Management



ICT 4014 Course Activities (1/2)

- **Ad hoc seminars to discuss major milestones**
- **Regular supervision meetings**
  - Supervisors dictate supervision style
- **Departmental seminars**
  - Ad hoc departmental seminars
- **Assessments**
  - Project Proposal Document
  - Project Proposal Presentation
  - Software Artifact Demonstrations
  - Final Report Document
  - Final Project Presentation

ICT 4014 Course Activities (2/2)

Activity	Action/Responsible	Activity Due Date	Date Marked
Project Groups Formed by Students	Supervisors	March 5, 2021	
Project Groups Assigned Supervisors	Students	March 12, 2021	
Research Project Descriptions Specified	ICT 4014 Coordinator	March 19, 2021	
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Project Paper Submission	Student Group	October 29, 2021	November 12, 2021
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ICT 4014 Course Activities (2/2)

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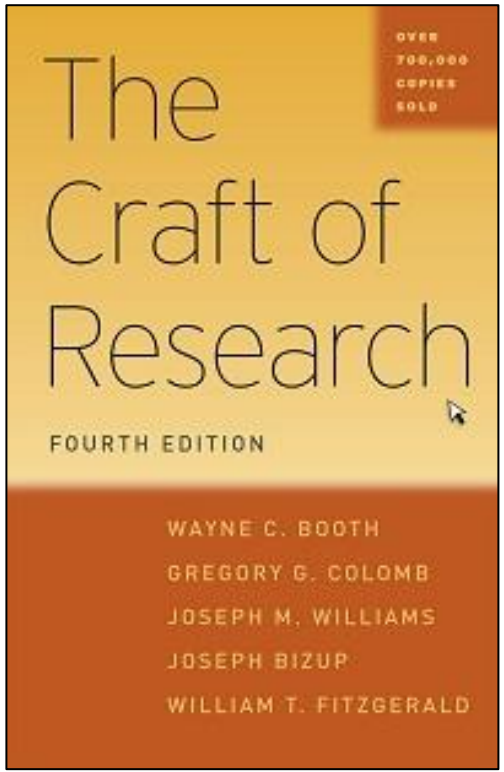
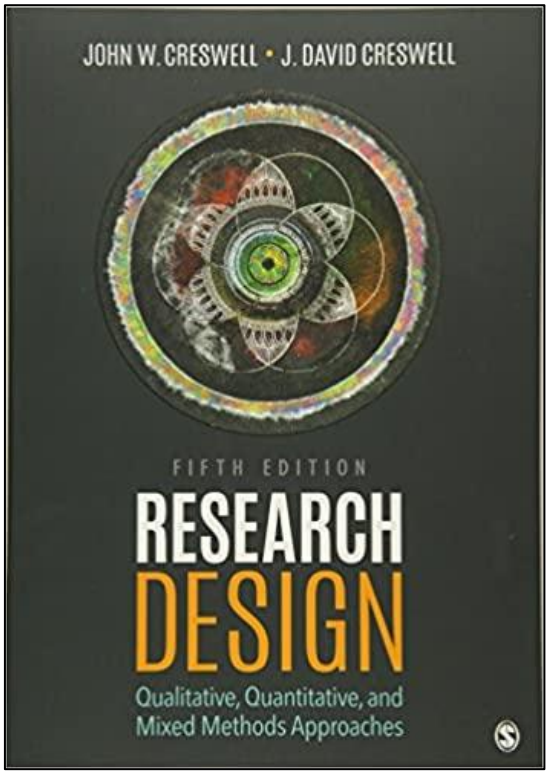
Prescribed & Recommended Textbooks (1/3)

- **The Craft of Research. 4th edition.**
  - Booth, W. C., Booth, W. C., Colomb, G. G., Williams, J. M., Colomb, G. G., & Williams, J. M. (2003)



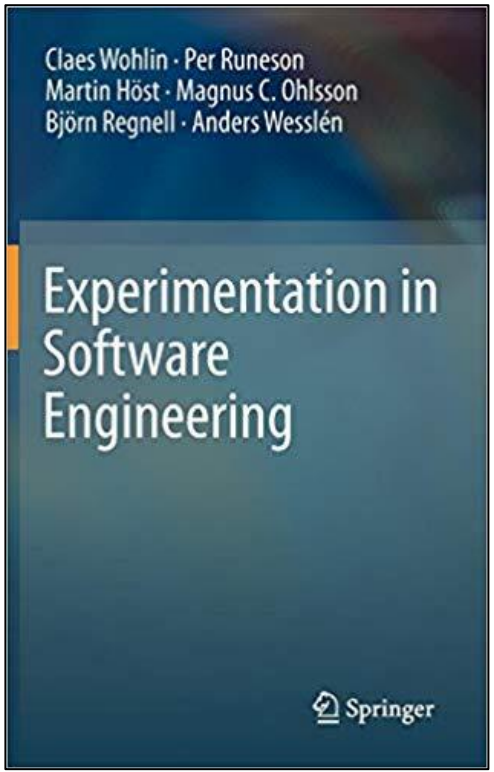
Prescribed & Recommended Textbooks (2/3)

- **Research Design: Qualitative, Quantitative, and Mixed Methods Approaches.**
  - Creswell, J. W., and Creswell, J. D. (2017)



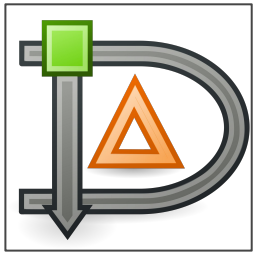
Prescribed & Recommended Textbooks (3/3)

- **Experimental Software Engineering.**
  - Wohlin, C., Runeson, P., Höst, M., Ohlsson, M.C., Regnell, B. and Wesslén, A. (2012)



Course Resources (1/2)

- **Project Management Software**
  - ProjectLibre
  - Git for version control
  - Dia
- **Software Development Frameworks**
  - Your respective supervisors MIGHT prescribe and/or recommend frameworks



Course Resources (2/2)

- **Course Resources**
  - All course resources will be provided to you by your Supervisors.

Course Grading (1/3)

- **40% Research Project Proposal**
  - 30% Proposal Document
  - 10% Proposal Presentation
- **60% Final Research Project Report**
  - 50% Project Report
    - Design and Implementation
    - Theoretical Grounding
    - Demonstrations
    - Evaluation
  - 10% Project Presentation

Course Grading (2/3)

2	**1**	**Content Quality**	**70**
3	1.1	Project Description	5
4	1.2	Problem Statement	5
5	1.3	Research Objectives and Questions	10
6	1.4	Related Work/Literature Review/Background	30
7	1.5	Research Methodology	15
8	1.6	Research Ethics	3
9	1.7	Anticipated Outcomes	2
10	**2**	**Project Management**	**20**
11	2.1	Project Timeline—Gantt chart with milestones and deliverables	10
12	2.2	Work Breakdown—Team member's work breakdown clearly outlined	5
13	2.3	Risk Management—Risk identification, mitigation and management	5
14	**3**	**Style and Formatting**	**10**

Course Grading (2/3)

2	**1**	**Content Quality**	**70**
3	1.1	Project Description	5
4	1.2	Problem Statement	5
5	1.3	Research Objectives and Questions	10
6	1.4	Related Work/Literature Review/Background	30
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14	**3**	**Style and Formatting**	**10**

Course Grading (2/3)

2	**1**	**Content Quality**	**70**
3	1.1	Project Description	5
4	1.2	Problem Statement	5
5	1.3	Research Objectives and Questions	10
6	1.4	Related Work/Literature Review/Background	30
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8	1.6	Research Ethics	3
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11	2.1	Project Timeline—Gantt chart with milestones and deliverables	10
12	2.2	Work Breakdown—Team member's work breakdown clearly outlined	5
13	2.3	Risk Management—Risk identification, mitigation and management	5
14	**3**	**Style and Formatting**	**10**

Course Grading (3/3)

GRADE	DESCRIPTION	SCORE RANGE	GRADE POINT
A+	DISTINCTION	90–100	5
A	DISTINCTION	80–89	4
B+	MERITORIOUS	70–79	3.5
B	CREDIT	60–69	3
C+	CREDIT	50–59	2.37
C	PASS	45–49	1.5
D+	FAIL	40–44	0
D	FAIL	<40	0

Academic Dishonesty

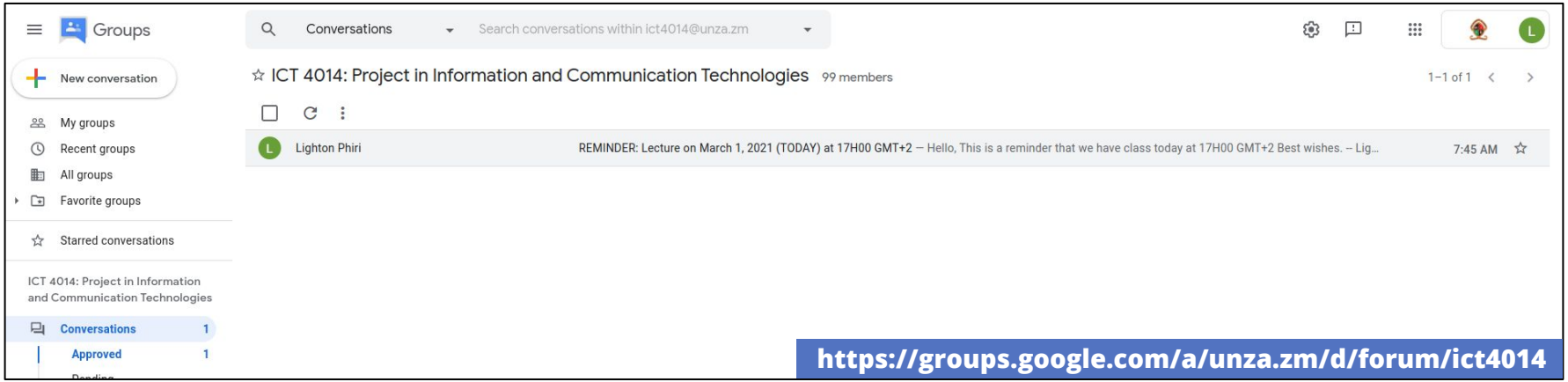
- **Every assessment submitted must be your own work. Academic dishonesty of any form is considered very seriously.**
  - NOTE: Any form of academic dishonesty (plagiarism, copying, cheating etc) will result in a ZERO mark for the entire continuous assessment score.

Course Administration & Management (1/5)

- **ICT 4014 will be administered exclusively using The Moodle**
  - Notes, slides and assignments (take-home quizzes)

Course Administration & Management (2/5)

- **Communication will also be done via the course mailing list**
  - Send mail to ict4014@unza.zm for queries and clarification
  - You want to make sure your UNZA-assigned email has been added to the list



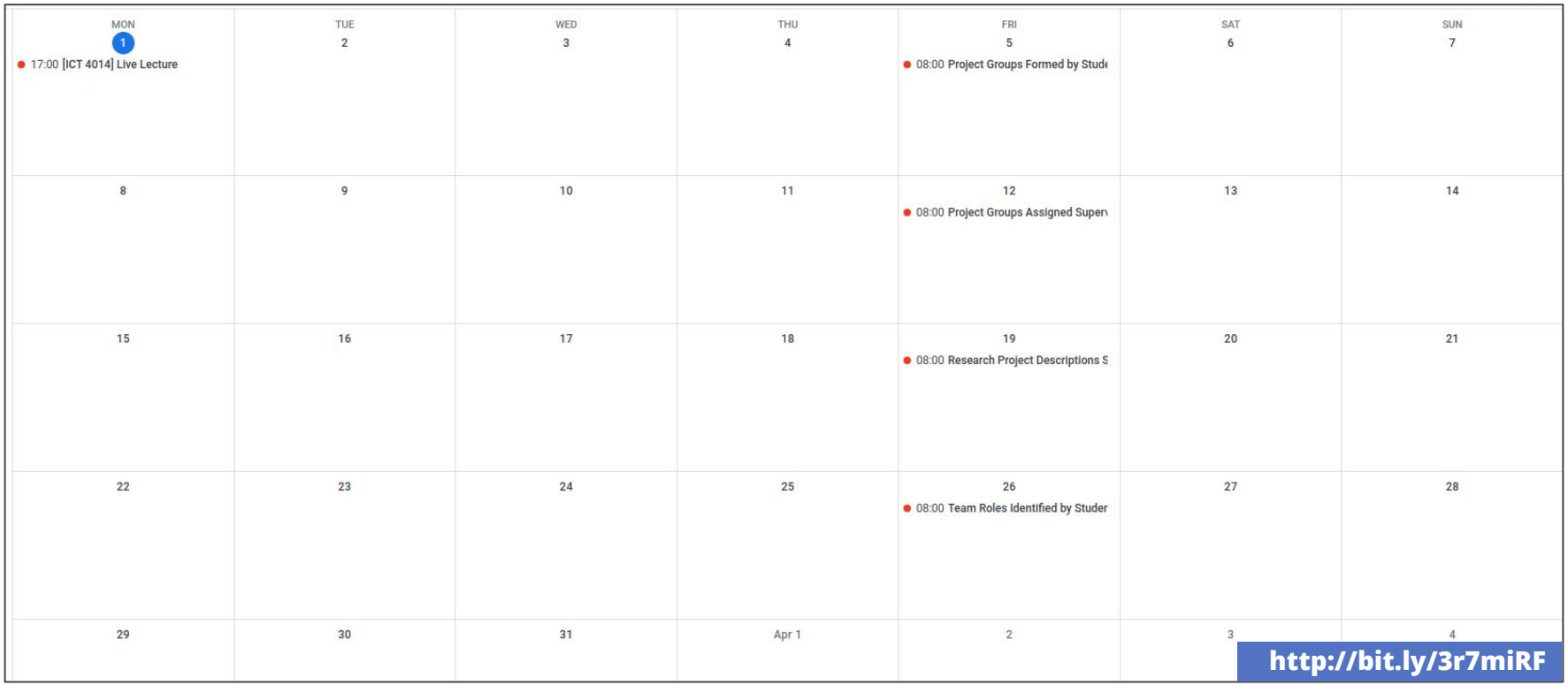
Course Administration & Management (3/5)

- **Instructors:**
  - BWALYA, Tuesday <bwalya.tuesday@unza.zm>
  - MBEWE, Phyela <phyela.mbewe@unza.zm>
  - MWALIMU, Edward <edward.mwalimu@unza.zm>
  - PHIRI, Lighton <lighton.phiri@unza.zm>
- **Coordinator: PHIRI, Lighton**
- **Office: Room 515, Fifth Floor, School of Education Building**
- **Office hours: By Appointment**
  - Schedule an appointment via email after checking free/busy slots on my calendar (https://goo.gl/6kHrnA)

Course Administration & Management (4/5)

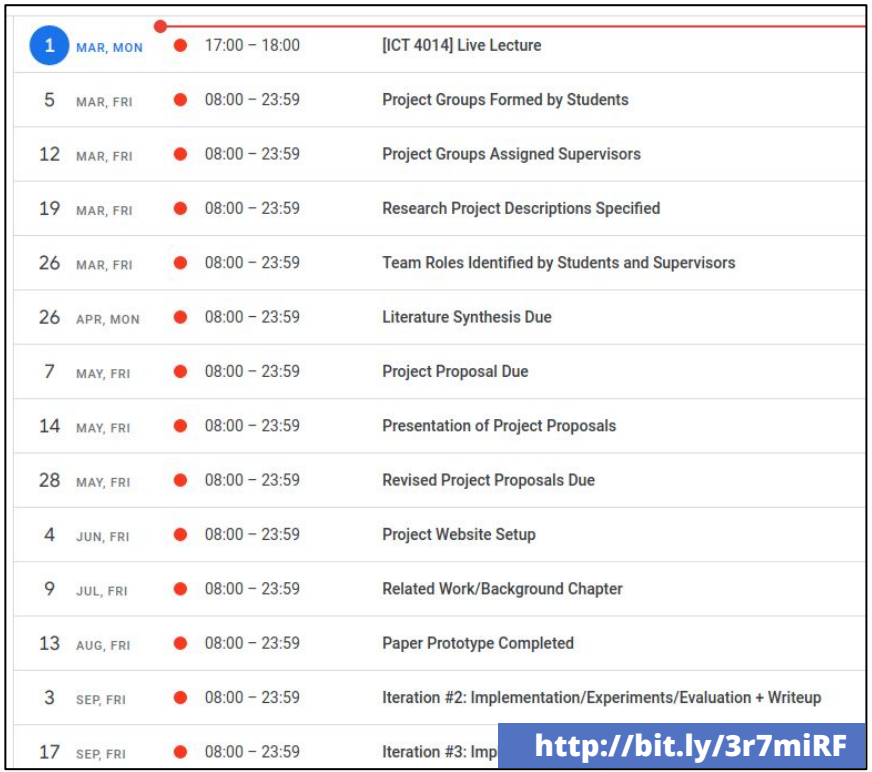
- **Regular research project progress meetings will be organised by individual supervisors**

Course Administration & Management (5/5)



Course Administration & Management (5/5)

- You want to bookmark the course calendar to keep up with deadlines



1	MAR, MON	17:00 – 18:00	[ICT 4014] Live Lecture
5	MAR, FRI	08:00 – 23:59	Project Groups Formed by Students
12	MAR, FRI	08:00 – 23:59	Project Groups Assigned Supervisors
19	MAR, FRI	08:00 – 23:59	Research Project Descriptions Specified
26	MAR, FRI	08:00 – 23:59	Team Roles Identified by Students and Supervisors
26	APR, MON	08:00 – 23:59	Literature Synthesis Due
7	MAY, FRI	08:00 – 23:59	Project Proposal Due
14	MAY, FRI	08:00 – 23:59	Presentation of Project Proposals
28	MAY, FRI	08:00 – 23:59	Revised Project Proposals Due
4	JUN, FRI	08:00 – 23:59	Project Website Setup
9	JUL, FRI	08:00 – 23:59	Related Work/Background Chapter
13	AUG, FRI	08:00 – 23:59	Paper Prototype Completed
3	SEP, FRI	08:00 – 23:59	Iteration #2: Implementation/Experiments/Evaluation + Writeup
17	SEP, FRI	08:00 – 23:59	Iteration #3: Imp

http://bit.ly/3r7miRF

Q & A Session

- Comments, concerns and complaints?

We NEED Course Representatives

- **We NEED two course representatives—One Male and One Female**
  - You need people to look out for your interests
  - Could we have two (2) volunteers please?
- :
- :
- **Please ensure that you vote!**

ICT 4014 Learning Objectives

- **Upon completion of this course, students should:**
  - Write a research project proposal
  - Design, implement and evaluate software artifacts
  - Conduct data collection
  - Analyse data collected using appropriate statistical techniques
  - Write a research project report
  - Disseminate research findings

2020/21 Capstone Project Milestones

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2020/21 Capstone Project Milestones: Team Composition and Project Descriptions (1/2)

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2020/21 Capstone Project Milestones: Team Composition and Project Descriptions (2/2)

- **Group selection**
  - Five (5) students per group
- **Supervisor assignment**
- **Project descriptions using a hybrid approach**
  - Both students and supervisors will suggest topics, depending on who you will be working with
- **Specification of team roles**

2020/21 Capstone Project Milestones: Literature Synthesis (1/2)

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2020/21 Capstone Project Milestones: Literature Synthesis (2/2)

- Initial literature synthesis will enable you gain a firm sense of the problem space you will be exploring
- Depending on the focus, this might also involve identifying an appropriate theory to use

2020/21 Capstone Project Milestones: Project Proposal (1/2)

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2020/21 Capstone Project Milestones: Project Proposal (2/2)

- Project proposal document
- Project presentation
- Final project proposal document

2020/21 Capstone Project Milestones: Project Website Setup

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2020/21 Capstone Project Milestones: Project Website Setup

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2020/21 Capstone Project Milestones: Design, Implementation and Evaluation (1/2)

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2020/21 Capstone Project Milestones: Design, Implementation and Evaluation (2/2)

- Requirements analysis and specification
- Design documentation
- Implementation
  - You are encouraged to take advantage of Agile techniques so you can iterate through three phases
  - You really want to use software frameworks to quickly iterate through design and implementation phases

2020/21 Capstone Project Milestones: Report Writing (1/2)

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2020/21 Capstone Project Milestones: Report Writing (2/2)

- **Draft Background Chapter and Evaluation Chapter**
  - Supervisors might require that you provide draft versions of individual report chapters
- **Draft Final Report**
- **Final Project Report**
- **Final Project Paper**

2020/21 Capstone Project Milestones: Auxiliary Deliverables (1/2)

Activity	Action/Responsible	Activity Due Date	Date Marked
Project Groups Formed by Students	Supervisors	March 5, 2021	
Project Groups Assigned Supervisors	Students	March 12, 2021	
Research Project Descriptions Specified	ICT 4014 Coordinator	March 19, 2021	
Team Roles Identified by Students and Supervisors	Student Group + Supervisors	March 26, 2021	
Literature Synthesis Due	Student Group	April 16, 2021	April 30, 2021
Project Proposal Due	Student Group	May 7, 2021	May 21, 2021
Presentation of Project Proposals	Student Group + Supervisors + LIS Staff	May 14, 2021	May 14, 2021
Revised Project Proposals Due	Student Group	May 28, 2021	
Project Website Setup	Student Group	June 4, 2021	
Iteration #1: Initial Project Feasibility Demonstration	Student Group + Supervisors + Second Reader	July 2, 2021	July 2, 2021
Related Work/Background Chapter	Student Group	July 9, 2021	
Paper Prototype Completed	Student Group	August 13, 2021	
Iteration #2: Implementation/Experiments/Evaluation + Writeup	Student Group	September 3, 2021	
Iteration #3: Implementation/Experiments/Evaluation + Writeup	Student Group	September 17, 2021	
Implementation and Evaluation Chapters Completed	Student Group	September 24, 2021	
Project Report Outline Completed	Student Group	October 1, 2021	
Final Report Draft Completed	Student Group	October 15, 2021	October 29, 2021
Project Report Submission	Student Group	October 29, 2021	November 12, 2021
Project Paper Submission	Student Group	October 29, 2021	November 12, 2021
Project Source Code Submission	Student Group	November 5, 2021	

2020/21 Capstone Project Milestones: Auxiliary Deliverables (2/2)

- Project Website
- Project Poster
- Project Reflection Paper
- Open Evening Showcase (TBA)

Closing Remarks

- **You really want to take this seriously**
- **Relative success of the Group Project is dependent on group dynamics**
  - Meet regularly
  - Distribute tasks equally
- **In the event your supervisor does not schedule regular interactions, ensure you reach out to them when in need of help**
  - Supervision styles vary

Q & A Session

- Comments, concerns and complaints?

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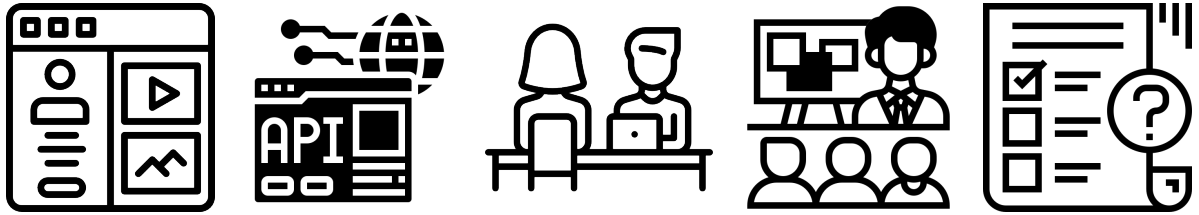
https://bit.ly/3pXtfDG
http://bit.ly/2kK2ZkA

Bibliography

[1] **2020/21 ICT 4014 Syllabus**
https://moodle.unza.zm/course/view.php?id=2365



ICT 4014 (2020/21)
Project in Info. & Comm. Technologies
Lecture 1: Administrivia and Introduction

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