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

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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

B. ICTs Ed.

CSE 9095 EAP 9012 EPS 9005 ICT 4021 ICT 4022 ICT 9025 ICT 9035 ICT 9045 ICT 9065

EDU 3003 ICT 3010 ICT 4014 ICT 3030 [MINOR] [MINOR] [MINOR]

EDU 2011 EDU 2012 ICT 2010 ICT 2021 ICT 2022 LIS 2034 [MINOR]

EDU 1020 EDU 1010 ICT 1110 [MINOR]

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)

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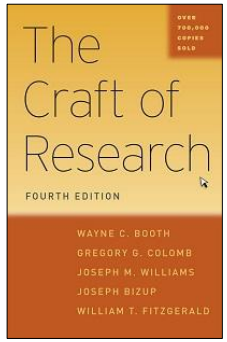
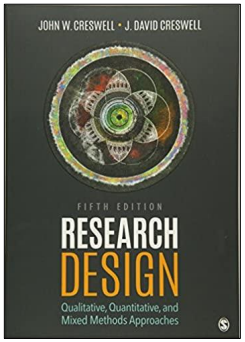
Prescribed & Recommended Textbooks (1/3)

- **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)



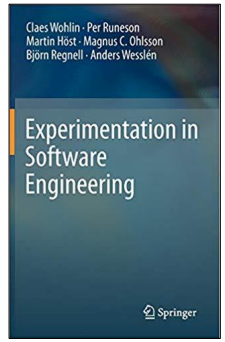
Prescribed & Recommended Textbooks (2/3)

- **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)

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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

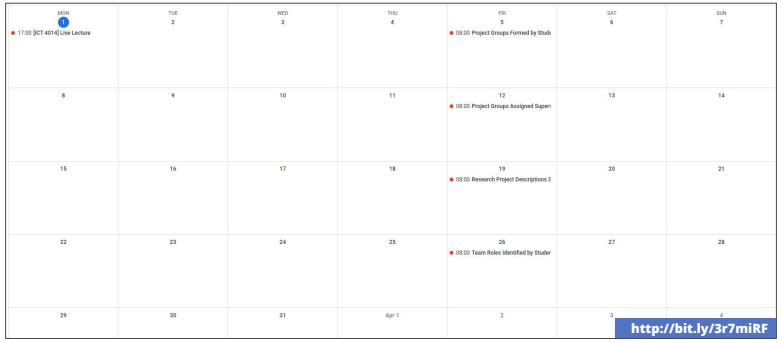
Course Administration & Management (3/5)

- **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)

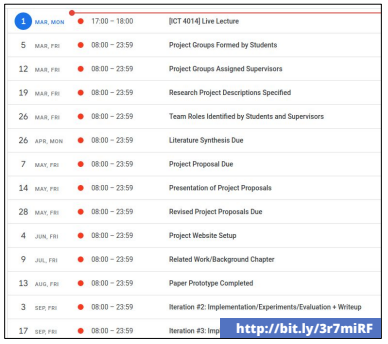
- **Regular research project progress meetings will be organised by individual supervisors**

Course Administration & Management (5/5)



Course Administration & Management (5/5)

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



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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[illegible]	[illegible]	[illegible]	[illegible]
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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: 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)

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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?**

ict3020@unza.zm
https://bit.ly/3pXtfDG
http://bit.ly/2kK2ZkA

Bibliography

[1] **2020/21 ICT 4014 Syllabus**
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Project in Info. & Comm. Technologies
Lecture 1: Administrivia and Introduction

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