ACUCA
MDP/CERTIFICATE PROGRAM FOR WINTER 2025

COURSE SYLLABUS:
AI ETHICS AND CHRISTIAN LEADERSHIP

Presented by

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ATMA JAYA CATHOLIC UNIVERSITY OF INDONESIA
OCTOBER 2024

COURSE SYLLABUS

Course Name   : AI Ethics and Christian Leadership
Credit   : 3 Credits
Term   : MDP/CERTIFICATE PROGRAM FOR WINTER 2025
Period   : January 27 – February 14, 2025
Lecturer   : Feliks P. S. Surbakti, Ph.D

COURSE DESCRIPTION

This course explores the ethical implications of Artificial Intelligence (AI) through a Christian leadership perspective, addressing how AI technologies can be developed and applied ethically in alignment with Christian values. Students will develop leadership skills necessary for guiding AI development and implementation in ways that respect human dignity, justice, and ethical integrity. Through case studies, critical discussions, and hands-on projects, students will explore the role of Christian leadership in guiding ethical decision-making in AI. This syllabus combines rigorous academic exploration of AI with practical applications of Christian leadership, preparing students to engage ethically with AI technologies in their future careers.

GENERAL INSTRUCTIONAL OBJECTIVES

1. Students will be able to explain the core principles of ethical reasoning and how they apply to AI technology, with an emphasis on Christian moral philosophy (Understanding ethical foundations).
2. Students will analyze the ethical implications of AI in various sectors, such as business, healthcare, and education, and evaluate these implications from a Christian ethical perspective (Evaluating AI's ethical implications).
3. Students will demonstrate how to integrate Christian leadership principles, including servant leadership and stewardship, into decision-making processes regarding AI deployment and governance (Applying christian leadership in AI Governance).
4. Students will design AI solutions that not only comply with ethical standards but also promote human dignity, fairness, and justice, in alignment with Christian values (Developing ethical AI solutions).
5. Students will be able to advocate for the responsible and ethical use of AI in their communities and organizations, grounded in Christian teachings on compassion, justice, and human flourishing (Promoting responsible AI use).
6. Students will cultivate the ability to critically assess AI technologies' potential risks and benefits, including issues of privacy, bias, and inequality, using both ethical frameworks and Christian doctrinal insights (Critical thinking in AI ethics).
7. Students will exemplify Christian virtues, such as humility, integrity, and wisdom, in discussions and decisions related to AI ethics, contributing to a positive and morally responsible technological future (Christian virtue and AI leadership).

TOOLS
- Personal Computer/ Laptop
- Microsoft Office (Word, Excel, Powerpoint)
- Artificial Intelligence Tools (ChatGPT, Canva)

LEARNING STRATEGIES

There will be 15 sessions on this topic, incorporating lecturer presentation, case studies, critical discussions, hands-on projects, and group presentation. Students will explore the role of Christian leadership in guiding ethical decision-making in AI. They will learn how to apply leadership principles such as servant leadership, stewardship, and integrity to the challenges of AI governance and policy.

CLASS POLICY

To optimize individual learning, students are expected to:
- Students who come after the 30 minutes late tolerance may still attend the course, however will be marked as absent.
- Students with less than 80% class attendance are not eligible to take the final project.
- Please note that 20% absence is the maximum absence allowed and should be used for emergency cases only such sickness, accident, etc., making students unable to attend class.
- Students are expected to be attentive and give their critical opinion during class discussions.

REFERENCES

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- Schwalbe, N., & Wahl, B. (2020). Artificial intelligence and the future of global health. The Lancet, 395(10236), 1579-1586.
- Blanchard, K., & Hodges, P. (2008). Lead Like Jesus. Thomas Nelson Inc..
- Nelson, T. (2011). Work matters: Connecting Sunday worship to Monday work. Crossway.
- Véliz, C. (2023). The Ethics of Privacy and Surveillance. Oxford University Press.
- Francis, P. (2015). Laudato si: On care for our common home. Our Sunday Visitor.
- Zakaria, M. G. (2023). AI Applications in the Criminal Justice System: The Next Logical Step or Violation of Human Rights. Journal of Law and Emerging Technologies, 3(2), 233-257.
- Keller, T. (2012). Generous justice: How God's grace makes us just. Penguin Books.

- Brock, B. (2010). Christian ethics in a technological age. Wm. B. Eerdmans Publishing.
- Pagallo, U., Aurucci, P., Casanovas, P., Chatila, R., Chazerand, P., Dignum, V., ... & Valcke, P. (2019). On good AI governance: 14 priority actions, a SMART model of governance, and a regulatory toolbox.

GRADE SCHEME
1. Class Participation (30%)
2. Case Study Analysis (30%)
3. Group Presentation (40%)

COURSE OUTLINE

Session 1: Introduction to AI and Ethics
- **Key Topics:**
  - O Overview of AI technologies.
  - O Definitions of AI ethics.
  - O Historical context of ethical dilemmas in technology.
- **Readings:** "Artificial Intelligence: A Guide for Thinking Humans" by Melanie Mitchell.
- **Activity:** Class discussion on how AI impacts daily life.

Session 2: Christian Ethics and Moral Theology
- **Key Topics:**
  - O Overview of Christian ethics.
  - O How Christian moral theology informs leadership.
  - O Key Christian values: love, justice, human dignity, and stewardship.
- **Readings:** "Christian Ethics: A Very Short Introduction" by D. Stephen Long.
- **Activity:** Reflective journal on how Christian ethics influence personal leadership.

Session 3: Foundations of AI Ethics: Justice, Fairness, and Accountability
- **Key Topics:**
  - O Ethical challenges in AI: fairness, bias, accountability.
  - O Justice in AI: ensuring fairness for marginalized groups.
- **Readings:** "AI Ethics" by Mark Coeckelbergh.
- **Activity:** Case study on AI bias in hiring systems.

Session 4: Privacy, Surveillance, and the Christian Perspective
- **Key Topics:**
  - O AI and privacy concerns.
  - O Ethical surveillance practices.
  - O Christian views on privacy and personal freedom.

- **Readings:** "The Age of Surveillance Capitalism" by Shoshana Zuboff.
- **Activity:** Debate on privacy vs. security in the age of AI.

Session 5: AI in Healthcare: Ethical Challenges and Christian Leadership

- **Key Topics:**
  - O AI applications in healthcare.
  - O Ethical considerations: data privacy, access to care, and human oversight.
  - O Christian views on care for the sick and vulnerable.
- **Readings:** Articles on AI in healthcare from "The Lancet".
- **Activity:** Group discussion on how AI can promote Christian compassion in healthcare.

Session 6: Christian Leadership in Technological Innovation

- **Key Topics:**
  - O The role of Christian leadership in guiding technological innovation.
  - O Ethical leadership principles.
  - O Developing a Christian ethical framework for AI leadership.
- **Readings:** "Lead Like Jesus" by Ken Blanchard.
- **Activity:** Create a leadership framework integrating Christian values.

Session 7: Automation, AI, and the Future of Work

- **Key Topics:**
  - O The impact of automation on jobs and the economy.
  - O Christian perspectives on work and human dignity.
- **Readings:** "Work Matters: Connecting Sunday Worship to Monday Work" by Tom Nelson.
- **Activity:** Reflective exercise on the meaning of work in a future with AI.

Session 8: AI in Social Media and Misinformation

- **Key Topics:**
  - O AI-driven algorithms in social media.
  - O The role of AI in spreading misinformation.
  - O Christian responsibility in promoting truth and transparency.
- **Readings:** "The Ethics of AI and Social Media" by Carissa Véliz.
- **Activity:** Analyze a real-world example of AI spreading misinformation.

Session 9: Environmental Impact of AI and Christian Stewardship

- **Key Topics:**
  - O Environmental costs of AI (e.g., energy consumption).
  - O Christian perspectives on environmental stewardship.
- **Readings:** "Laudato Si': On Care for Our Common Home" by Pope Francis.

- **Activity:** Discussion on how AI development can align with Christian environmental stewardship.

Session 10: AI in Criminal Justice and Christian Views on Justice
- **Key Topics:**
  - O AI in policing and the criminal justice system.
  - O Risks of bias and injustice.
  - O Christian views on justice, forgiveness, and fairness.
- **Readings:** Research articles on AI in criminal justice from "MIT Technology Review".
- **Activity:** Case study analysis of AI in predictive policing.

Session 11: AI, Global Inequality, and Christian Social Responsibility
- **Key Topics:**
  - O How AI can exacerbate or alleviate global inequalities.
  - O Christian views on social justice and the option for the poor.
- **Readings:** "Generous Justice" by Timothy Keller.
- **Activity:** Group project planning—developing AI solutions for global challenges.

Session 12: AI and Human Flourishing: A Christian Vision
- **Key Topics:**
  - O How AI can contribute to or hinder human flourishing.
  - O Integrating AI development with Christian values of human dignity and community.
- **Readings:** "Christian Ethics in a Technological Age" by Brian Brock.
- **Activity:** Class discussion on AI's potential to support human flourishing.

Session 13: Christian Ethics, AI, and International Policy
- **Key Topics:**
- o International policies governing AI.
- o Christian contributions to global ethical discussions on AI.
- **Readings:** Policy documents from "AI for Good" and "AI Now Institute".
- **Activity:** Role-play exercise on ethical AI policymaking from a Christian perspective.

Session 14: Preparing for the Group Presentation
- **Key Topics:**
  - O Review of key concepts.
  - O Guidance on group presentation topics.
- o **Feedback on project outlines.**
- **Activity:** Group work session to finalize presentations.

Session 15: Group Presentations
- **Key Topics:**
    - O Students present group projects on real-world AI ethical challenges.
    - O Integrating Christian leadership and ethical considerations into AI development.
- **Activity:** Group presentations, followed by peer and instructor feedback.

CURRICULUM VITAE

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