

<b>Program</b>	BS Media & Development Communication	<b>Course Code</b>	<b>MDC 485</b>	<b>Credit Hours</b>	3
<b>Course Title</b>	<b>ARTIFICIAL INTELLIGENCE &amp; DEVELOPMENT (Major)</b>				
<b>Course Introduction</b>					
This course explores the intersection of artificial intelligence (AI) and development, examining the potential of AI to address development challenges. Students will learn about AI technologies, their applications in development, and the ethical considerations involved.					
<b>Learning Outcomes</b>					
By the end of this course, students will be able to:					
1 express a thorough comprehension of AI applications and concepts.					
2 assess AI's effects on sustainable development critically.					
3 Using ethical frameworks, students will address AI's bias, fairness, and transparency.					
4 match AI programs to the Sustainable Development Goals of the United Nations.					
5 use machine learning, natural language processing, etc.					
6 include ethical AI practices in the development and application of solutions.					
7 work together across disciplines to find comprehensive answers.					
8 foresee and evaluate new developments in AI.					
<b>Course Content</b>				<b>Assignments/Readings</b>	
<b>Week 1-2</b>	1	A Brief Introduction of Development and AI			
<b>Week 3-4</b>	2	Theoretical Groundwork for AI			
<b>Week 5-7</b>	3	AI to Support SDGs (Sustainable Development Goals)			
<b>Week 8-9</b>	4	Conscientious AI Development			
<b>Week 10-11</b>	5	Modern AI Methods for Development			
<b>Week 12-14</b>	6	Multidisciplinary Views			
<b>Week 15-16</b>	7	Challenges and Future Trends			
<b>Textbooks and Reading Material</b>					
1 Russell, S., & Norvig, P. (2018). "Artificial Intelligence: A Modern Approach." Pearson.					
2 Bostrom, N. (2014). "Superintelligence: Paths, Dangers, Strategies." Oxford University Press.					
3 Floridi, L. (2011). "The Philosophy of Information." Oxford University Press.					
4 Diakopoulos, N. (2016). "Automating the News: How Algorithms Are Rewriting the Media." Harvard University Press.					
5 Varakantham, P., & Wu, D. (2019). "Artificial Intelligence and Sustainable Development." Nature Sustainability, 2(5), 377-380.					
6 World Bank. (2016). "Digital Dividends." World Development Report 2016.					
7 Taddeo, M., & Floridi, L. (2018). "How AI Can Be a Force for Good." Science, 361(6404), 751-752.					
8 Jobin, A., Ienca, M., & Vayena, E. (2019). "The Global Landscape of AI Ethics Guidelines." Nature Machine Intelligence, 1(9), 389-399.					
9 Goodfellow, I., Bengio, Y., & Courville, A. (2016). "Deep Learning." MIT Press.					
10 Davenport, T. H., & Kalakota, R. (2019). "The AI Advantage: How to Put the Artificial Intelligence Revolution to Work." MIT Press.					

- 11 Brynjolfsson, E., & McAfee, A. (2017). "Machine, Platform, Crowd: Harnessing Our Digital Future." W. W. Norton & Company.
- 12 Jasanoff, S., & Kim, S. H. (2015). "Dreamscapes of Modernity: Sociotechnical Imaginaries and the Fabrication of Power." University of Chicago Press.
- 13 Marcus, G. (2018). "Rebooting AI: Building Artificial Intelligence We Can Trust." Pantheon.
- 14 Floridi, L. (2020). "Soft Ethics and the Governance of the Digital." *Philosophy & Technology*, 33(2), 161-164.

### Teaching Learning Strategies

1. Class Discussion
2. Projects / Assignments
3. Group Presentations
4. Students led presentations
5. Thought Provoking Questions
6. Field Visits and Guest Speakers

### Assignments: Types and Number with Calendar

Assignments may include special reports, projects, class presentations, field work. The nature of assignment will be decided by the teacher as per the requirements of the course.

### Assessment

Sr. No.	Elements	Weightage	Details
1.	Midterm Assessment	35%	Written Assessment at the mid-point of the semester.
2.	Formative Assessment	25%	Continuous assessment includes: Classroom participation, assignments, presentations, viva voce, attitude and behavior, hands-on-activities, short tests, projects, practical, reflections, readings, quizzes etc.
3.	Final Assessment	40%	Written Examination at the end of the semester. It is mostly in the form of a test, but owing to the nature of the course the teacher may assess their students based on term paper, research proposal development, field work and report writing etc.