

## **Module 4: Critical Thinking and Creativity in the Age of AI – Key Takeaways**

### **Section 1: A Balanced Framework for AI and Creativity**

#### **Positive Impacts**

1. **Accelerating Productivity:** Automating repetitive tasks allows more time for conceptual work.
2. **Expanding Perspectives:** AI introduces unexpected ideas or combinations that spark creativity.
3. **Enhancing Accessibility:** Democratising creative tools enables more people to express themselves.

#### **Risks and Limitations**

1. **Ethical Concerns:** Uncritical adoption risks perpetuating biases or plagiarism.
2. **Skill Erosion:** Frequent use of AI may reduce the development of foundational creative skills.
3. **Surface-Level Thinking:** Over-reliance on AI can lead to shallow output.

### **Section 2: Benefits of AI as a Tool**

1. **AI as a Creative Partner:** Generative AI can act as a catalyst but requires human judgment to align outputs with strategic goals.
2. **The Power of Prompting:** Refining AI prompts is essential for tailoring responses to specific needs.
3. **Enhancing AI with Human Creativity:** Creative thinking amplifies AI's impact by adding depth, emotion, and context that machines cannot provide.

### **Section 3: A Holistic Approach to AI and Creativity**

#### **Core Concept and AI's Impact on Each:**

##### **1. Creative Thinking**

AI generates new ideas and approaches, acting as a collaborator to expand the creative horizon.

##### **2. Critical Thinking**

AI-generated ideas are refined to ensure accuracy, relevance, and goal alignment. This process addresses issues like bias, inaccuracy, or superficiality.

##### **3. Fact-Checking**

AI supports verification of data integrity and helps ensure trustworthy outputs.

##### **4. Contextual Analysis**

AI output is adapted to meet specific needs, audiences, and situations.