General Outline/Format for a Scholarly Paper

Name of the Scholar	Your name and student ID
Proposed Title/Topic	Exploring the Effects of Technology Integration on Cognitive and Social Development in Early Childhood Education
Context of your paper: briefly explain the context and any related issues/ opportunities (50-100 words)	The topic of this paper is integrated technology in education regarding the early childhood stage (ECE), where technology adoption is becoming more popular than before. In this digital age, there is a need to look carefully at the positive and negative influences technology has on toddlers' cognitive and social skill development (Lee, 2016). Furthermore, alongside this integration, the questions and obstacles that arise should be dealt with, e.g., the problem of screen time and inequality regarding access to technology and its effect on the classical way of teaching. However, some received some attention to technology applications in early childhood education, though such projects produce mixed results.
Aim: What do you want to understand and achieve in this paper? (50-100 words)	Main Aim: The prime objective of this article is to explore how technology integration influences cognitive and social growth in the preschool education context. Objectives: 1. The impact of technology integration on cognitive development, namely linguistic acquisition, problem-solving abilities, and executive functions, in early childhood needs to be evaluated. 2. To illustrate the impacts of technology utilization in social development, such as speaking skills, interpersonal connection and stress management in early childhood education. Research Questions: 1. How does technological integration in early childhood education affect cognitive development? 2. What kind of impact does technology integration have on the social development of early childhood education?
Rationale or Justification for your choice of topic/aim (50-100 words)	The reason for choosing the topic of the impact of technology integration in early childhood education (ECE) is the perspective of organizational position and the current government policy. First of all, as an educator of the ECE sector, knowing about the impacts of technology integration on cognitive and social development is imperative to making informed pedagogical activities. In addition to this, the greater focus on educational technology in government policies, particularly in the Early Learning and Educational Technology Policy Brief, necessitates a critical appraisal of its effects on young learners (Lee, 2016). Furthermore, this decision is stimulated by the existing research gap, indicating the significance of exploring this area for evidence-based practices (Rahayu <i>et al.</i> , 2022).

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Relevant Literature Provide at least five relevant references for this outline (see assignment guideline for comments about the total number of references) Salim (2022) discusses the roles of technology usage in cognitive development in early childhood education (ECE). He also points out how using technology reasonably and age-appropriately can develop mental capabilities such as language and problem-solving. Conversely, the misuse or overuse of technology can hinder social and emotional development. This research contributes to the growing understanding of how technology integration may positively and negatively impact ECE. Rahayu et al. (2022) strive to create a digital module that enhances the social competence skills of preschool teachers. They value research and development approaches to building efficient digital tools for educating teachers. The research is a unique guide about how technology can be used to train ECE teachers. The digital learning media developed by Khamidah and Sholichah (2022) intends to boost the cognitive development of young children. They highlight the challenges and possibilities of fast digital development in education. The report provides insights into technology's innovative use to assist learning in early childhood settings. Ren (2023) examines the intricate link between technology and cognition in child development. He admits that parents, teachers, and lawmakers are worried about the influence of technology on children's brains (Ren, 2023). This research aims to understand the beneficial effects and risks of technology integration, presenting a complete understanding. It provides exciting information about society and the issues brought forth by technology use in early childhood education. Luo et al. (2024) investigate the contribution of ChatGPT in ECE through interviews with experts. They subcategorize the AI integration issues using the "3A2S" framework and propose that AI should supplement rather than replace the human activities in ECE. The research also reveals how AI technologies may assist cognitive and social development in early childhood.

Methodology – What process will you use to achieve the aim of your paper, e.g. the process you will apply in analyzing documents, etc (50 – 100 words)

The research methodology for this paper will involve a systematic literature review of secondary sources obtained from academic journals. The primary sources can be different, for example, publications, books, policies, and reports related to technology integration in early childhood education. This step includes looking through electronic databases like PubMed, ERIC and Google Scholar by using keywords: "technology infusion," "early childhood education," "cognitive development" and "social development". Next, I will code the data based on the research questions. Being a simple and convenient technique, this approach is so realistic and obtainable by us within a certain period. On the other hand, the data collection and analysis may be less effective without a deep knowledge of the literature review methods.

Expected Outcome/conclusion (50-100 words)

A direct outcome of this research should be the identification of the role of technology in children's cognitive and social development in early childhood education settings. The outcomes are expected to

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	show that technology combined with age-appropriate usage can help
	mental development with better skills in language and problem-
	solving. On the other hand, the research will also show the
	possibilities of a child misusing or overusing technology, which may
	negatively impact their social and emotional skills. The ultimate
	results stress the value of a formal and supervised use of technology
	in the search for a comprehensive and healthy development of
	cognitive abilities in early childhood education.
References	Khamidah, A., and Sholichah, N. I. (2022). Digital Pop Up Learning
	Media for Early Childhood Cognitive
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	childhood education? Experts chat on the roles, challenges,
	and developments of ChatGPT. Early Education and
	Development, 35(1), 96-113.
	Rahayu, S., Usman, H., Sugito, S., and Herwin, H. (2022). The Digital
	Module Encourages Expression to Develop the Social
	Competence of Early Childhood Education Teachers. World
	Journal on Educational Technology: Current Issues, 14(3),
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	in Early Childhood. Lecture Notes in Education Psychology
	and Public Media, 23(1), 293–300.
	Salim, N. A. (2022). Integrasi teknologi dalam pendidikan anak usia
	dini: menilai dampaknya pada perkembangan kognitif. <i>Jurnal</i>
	Warna: Pendidikan dan Pembelajaran Anak Usia Dini, 7(2),
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