The Focus, Methods, and Implementation Approaches of AI Empowering Innovation in Military Theory Teaching in Universities

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Abstract. Addressing the impact of AI technology on military theory course instruction, this study explores the primary focus areas, key methodologies, and implementation pathways for AI-empowered innovation in military theory teaching. Analysis indicates: (1) AI empowerment within military theory course delivery should concentrate on instructional segments including learner profiling, knowledge transmission, seminar interaction, and assessment feedback, thereby fully leveraging AI technology's catalytic role in pedagogical innovation; (2) Concrete methodologies for AI-empowered innovation in military theory courses should be developed through teaching data collection, resource expansion, learning environment design, and pedagogical model integration; (3) Building upon an intelligent teaching philosophy, continuous enhancement of AI-integrated teaching innovation in military theory courses requires strengthening faculty development, teaching infrastructure, and instructional evaluation mechanisms.

Keywords: AI, Military Theory, Teaching Innovation, Focus Point, Method, Implementation Approaches

1 Introduction

With the advancement of AI technology, conversational AI tools such as DeepSeek, Kimi, and Doubao are rapidly gaining traction, transforming how people access knowledge and exerting significant influence on military theory course delivery in higher education institutions. Some scholars contend that artificial intelligence is progressively altering the role of the teacher, advocating for greater emphasis on AI-empowered teaching innovation [1-2]. Others maintain that AI technology can enhance understanding of student needs, analyse learning data, and adjust teaching strategies to improve instructional efficiency [3-4]. Additionally, several scholars suggest that AI can effectively empower course system optimisation, teaching activity design, and teaching effectiveness evaluation [5-6]. These studies collectively offer valuable in-

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sights and references for AI-empowered teaching innovation in military theory courses. In the new era, military theory course instruction must acknowledge the impact of AI technology on pedagogical innovation, proactively embrace the transformative potential of new technologies, and focus on leveraging AI to drive teaching innovation. This entails actively designing innovative teaching methodologies and pathways to continuously enhance the technological empowerment and pedagogical quality of military theory courses.

2 Key Focus Areas for AI-Empowered Innovation in Military Theory Instruction

AI application in military theory teaching should address critical contradictions within the instructional process. By leveraging AI across learner profiling, knowledge delivery, interactive discussions, and assessment feedback, it can effectively resolve prominent challenges currently facing military theory course delivery.

2.1 Precise Learner Profiling

Student profile analysis forms a crucial foundation for instructional activities, typically categorised into pre-class, in-class, and post-class assessments [7]. Pre-class analysis focuses on understanding learners' knowledge and competency levels to facilitate targeted content design and pedagogical optimisation. In-class analysis involves collecting learning feedback during instruction to enable timely adjustments and refinements. Post-class analysis evaluates teaching effectiveness and assesses implementation outcomes.

Traditional approaches to analysing learning situations in military theory courses primarily rely on teaching experience and rudimentary methods such as questionnaires and in-class quizzes. With the advancement of AI technology, pre-class learning situation analysis can now integrate student data from multiple platforms (such as institutional academic management systems, Yu Classroom, MOOC learning platforms, etc.). Through effective algorithmic analysis, it can generate more refined learning style profiles for each student (e.g., visual, auditory, kinesthetic learners), analysing multidimensional characteristics including learning interests and sources of motivation. For in-class analysis, AI technology can utilise multi-source data collection to record and analyse students' various behaviours during military theory lectures in real time, providing comprehensive feedback on classroom teaching effectiveness. For post-class learning analysis, AI technology synthesises conclusions on students' knowledge acquisition levels, comprehensively gauging teaching effectiveness to facilitate instructional refinement and iterative optimisation. For instance, a comprehensive military university utilised data from learning platforms such as Wisdom Tree, SuperStar, and Yuke Classroom to conduct AI-based learning analytics. This rapidly generated student learning profiles, effectively enabling teachers to swiftly understand historical learning trajectories and providing robust support for targeted instructional adjustments.

2.2 Efficient Knowledge Transmission

Knowledge transmission constitutes the fundamental task of teaching activities and serves as the foundation for advancing towards higher-order pedagogical objectives. Only by acquiring foundational knowledge can students engage in analysis, evaluation, and creation of related issues [8].

Artificial intelligence can function as the teacher's "intelligent assistant", aiding in the integration of extensive multimedia teaching resources—including textual materials, images, audio, and video—covering military history, weaponry, and equipment. It intelligently recommends relevant high-quality resources, rendering teaching content more vivid, engaging, and diverse. For instance, in teaching military doctrine, AI can automatically identify resource requirements based on the teacher's progress, matching closely related historical documentaries, three-dimensional geographic information scenes, and digital revolutionary museum resources to enrich instructional content. AI can also function as a 'smart teaching assistant' for students, intelligently analysing knowledge acquisition aligned with military theory teaching progress based on in-class feedback, thereby providing personalised clarification and remedial learning pathways. For instance, a comprehensive military university utilised platforms like SuperStar Learning Pass to construct a military theory course knowledge base and organise knowledge graphs. By customising a military theory 'intelligent teaching assistant,' it effectively assisted students in resolving theoretical queries. Furthermore, it established collaborative links with sites such as the Four Crossings of the Chishui River and the Zunyi Conference Memorial Hall, providing digital connections to revolutionary museums. This enables teachers to seamlessly integrate digital revolutionary resources into lessons, significantly enhancing the efficiency of knowledge transmission.

2.3 Flexible Seminar-Based Interaction

Seminar-based interaction constitutes a vital pedagogical approach in contemporary education, occupying a central position within the teaching process. It serves as the foundation for implementing heuristic teaching and case-based learning methodologies. Well-structured seminar interactions deepen students' comprehension of military theory, acting as both a "lubricant" and "catalyst" for teaching. This facilitates the transformation of static knowledge delivery into dynamic intellectual exchange and debate, constituting an indispensable element of effective teaching [9].

AI technology can assist in designing teaching discussion activities for military theory courses. Instructors may utilise tools such as 'Doubao' and 'Zhipu Qingyan' to aid in designing these activities. Furthermore, based on the military theory teaching process and drawing upon knowledge of military history, case studies, and historical figures, AI can assist teachers in generating discussion topics. It can also help design appropriate classroom discussion themes that stimulate intellectual exchange among students, tailored to classroom teaching objectives and the pacing of instructional implementation. AI can further establish an 'intelligent military theory advisor' to serve as an assistant instructor. During discussion interactions, this role guides stu-

dents towards deeper topic analysis, presents additional military knowledge and application cases, and assists in uncovering underlying principles to broaden and deepen problem exploration. For instance, a comprehensive military university utilised the digital tools within SuperStar Learning Pass to customise an AI 'discussion partner' role. By employing AI digital avatars representing virtual military experts and historical commanders as interactive discussion participants, the classroom environment fostered a more diverse and enriched discussion group. This approach rendered military theory course discussions more challenging and engaging, effectively enhancing the efficacy of teaching interactions.

2.4 Effective Evaluation Feedback

Teaching evaluation feedback serves as a crucial component for summarising instructional processes, identifying pedagogical issues, and implementing timely corrections and optimisations. Effective feedback assists educators in promptly detecting teaching challenges, enabling timely adjustments and refinement of instructional approaches. Proactive and constructive feedback further empowers students to comprehensively understand their learning progress, receive timely instructional reminders, foster self-reflection, and ultimately stimulate intrinsic motivation for learning [10]. Classroom assessment feedback plays a vital role throughout the teaching implementation process and represents a key focus for AI-enabled innovation in military theory course delivery.

AI technology can assist in formulating more scientific and effective teaching evaluation schemes, rendering the feedback and application of evaluation results more targeted. For instance, AI can propose detailed teaching evaluation designs for specific subjects such as military history, military doctrine, and national defence security, thereby establishing more scientifically grounded evaluation metrics and data collection items. Building upon technologies such as intelligent facial recognition and motion capture, AI can integrate devices worn by students—such as smartwatches and wristbands—alongside teacher voice recognition systems to enrich evaluation data collection. This supports more comprehensive analysis, assessment, and feedback on classroom teaching processes. AI technology also offers richer, more diverse evaluation feedback methods, leveraging smart classroom management systems, intelligent tablets, terminals, wristbands, and smart seating to synchronously collect evaluation data and deliver feedback. For instance, a military comprehensive university utilised the SuperStar Learning Pass platform to establish an AI-driven evaluation system for military theory courses. This system defined multi-dimensional comprehensive assessment metrics encompassing online learning, classroom interaction, and post-class assignments. By leveraging AI for automated learning data collection and AI-powered automatic grading of assignment reports, it significantly reduced teachers' workload while making the evaluation and feedback process for military theory course teaching more comprehensive and scientific.

3 Key Methods for AI-Empowered Innovation in Military Theory Instruction

Focusing on the impact of AI technology on the innovation of military theory course instruction, methods for AI-empowered innovation should be grounded in the practical realities of teaching military theory courses. Leveraging open course development platforms such as SuperStar and WisdomTree, efforts should be made to expand the development of AI agents. This involves enhancing the depth and breadth of instructional innovation through the collection of teaching data, the expansion of teaching resources, the creation of teaching environments, and the integration of teaching models.

3.1 Enriching Teaching Data Collection

AI enhances data collection for military theory course instruction primarily through broadening data acquisition channels, extending data collection methods, and strengthening data integration and analysis.

Broadening data collection channels. AI will significantly enhance teaching data collection capabilities. Against the backdrop of national smart course development, an increasing volume of learning data will reside within interconnected networks. Pre-class personal habit data, in-class learning feedback data, and post-class feedback tracking data will all become crucial sources for AI teaching data collection. Leveraging robust data crawling technology, AI will be able to access more cross-platform, cross-course learning data, helping to construct more comprehensive teacher-student profiles and thereby forming 'all-round' data support capabilities.

Extending data collection methods. With AI technology, classroom microphones, cameras, audio pickups, smart blackboards, and smartwatches/bracelets can all become vital channels for capturing teaching audio, video, board work, and multimedia data. Traditional teaching equipment can also undergo AI retrofitting by integrating intelligent modules such as AI data communication and edge computing, continually expanding the avenues and scope of teaching data collection. For instance, one university course has pioneered AI-based behavioural monitoring and analysis of teaching processes by deploying multi-type cameras equipped with intelligent algorithms [11].

Enhance data integration and analysis. Compared to traditional manual teaching data statistics, AI technology possesses more efficient intelligent algorithms capable of rapidly processing vast volumes of complex, heterogeneous teaching data—such as textual data (e.g., student assignments, Yu Classroom responses) , image data (e.g., student expressions in video surveillance), and audio data (e.g., recorded question responses). This enables the integrated analysis of vast datasets within short timeframes. For instance, one institution employed natural language processing to conduct multi-source fusion analysis of heterogeneous teaching process data, effectively supporting digital and intelligent innovation in teaching activities [12].

3.2 Expanding Teaching Content Resources

AI technology facilitates the expansion of teaching content resources primarily through methods such as discovering emerging resources, deepening existing resources, and integrating cross-domain resources.

Discovering emerging resources. As humanity's foremost channel for knowledge generation, sharing, and learning, the internet daily produces vast quantities of new resources, including substantial military theoretical materials. Leveraging data-scraping technologies, AI can more precisely monitor the internet environment, continuously uncover new knowledge, and track the latest military developments in real time. This facilitates rapid enrichment of teaching content resources, providing excellent material for military theory instruction.

Deepening existing resources. For the ever-expanding, continuously updated repository of military theory resources, AI techniques such as heterogeneous data fusion and data association analysis can be employed to conduct in-depth mining of military theoretical knowledge. This reduces the manual effort required by teachers and students for knowledge screening and analysis, efficiently extracting 'valuable information' from the teaching resource repository. It assists educators and learners in rapidly accessing supporting case studies while studying theoretical principles, thereby deepening comprehension of teaching content.

Integrating cross-disciplinary knowledge. Through platforms like SuperStar and WisdomTree, the 'AI Workbench' module can continuously consolidate teaching resources across diverse fields. Leveraging teaching intelligence agents, it enables automated knowledge association and knowledge discovery (KDD) applications. This clarifies interdisciplinary knowledge relationships, organically integrating military studies with management, philosophy, economics, and other disciplines to form a richer teaching resource expansion system. Employing technologies like AIGC enables the generation of customised cross-disciplinary teaching resources—including text, images, and videos—to deliver more personalised instructional content recommendations [13].

3.3 Enhancing the Design of Teaching Environments

AI technology enhances the teaching environment for military theory courses primarily through creating intelligent learning spaces, integrating intelligent assistance systems, and introducing smart interactive methods.

Creating intelligent learning spaces. AI can help foster a personalised, highly immersive intelligent learning environment for military theory; construct more realistic virtual battlefield scenarios, placing students within simulated combat settings; and drive simulation engines to generate flexible learning scenarios tailored to teaching requirements, thereby improving the military theory teaching experience. For instance, a certain university has implemented a VR-based contextualised teaching model reform for military theory courses [14].

Integrating intelligent assistance systems. AI technology can utilise intelligent question-answering systems to provide students with personalised knowledge recom-

mendations and problem-solving support, supplementing gaps in teacher-led knowledge transmission. It can offer intelligent management platforms to assist teachers in effectively controlling teaching equipment and efficiently managing the teaching process [15]. It can furnish intelligent knowledge collaboration platforms, enabling students to retrieve knowledge and engage in collaborative exchanges based on individual learning gaps, thereby accelerating learning efficiency.

Introduction of intelligent interactive methods. These primarily encompass intelligent perception, intelligent feedback, and intelligent recommendation techniques. AI enables the construction of 'intelligent virtual communities' for military theory instruction, introducing more flexible pedagogical innovations for content presentation, resource linkage, and remote teaching interactions. For instance, institutions such as the Armed Police Engineering University[16] and Sichuan Vocational and Technical College[17] are actively developing IoT-based smart classrooms. These collect data on teachers' and students' body language and speech patterns to create more comprehensive virtual teaching environments.

3.4 Promoting Teaching Model Integration

AI facilitates the integration of teaching models in military theory courses, primarily through data-driven instructional decision-making, dynamic adjustment of teaching strategies, and coupled optimisation of teaching modules.

Data-Driven Instructional Decision-Making. In the era of intelligence, instructional data serves as a vital foundation for characterising teaching activities and enhancing decision optimisation [18]. By leveraging AI's data analysis capabilities, one can conduct detailed comparative evaluations of feedback from different teaching models and comprehensively analyse the effectiveness of course delivery under integrated approaches. This drives more scientific design of military theory teaching content and processes, while deepening and refining data analysis further enhances its role in supporting instructional decisions.

Dynamic adjustment of teaching strategies. Teaching strategies constitute the implementation plans determined by instructors based on actual instructional requirements during the execution of teaching models. Dynamically adjusting military theory course teaching strategies necessitates employing AI to closely monitor shifts in teaching conditions, intelligently analyse and anticipate the progression of teaching activities, and timely recommend more suitable teaching models, thereby leveraging AI's supportive role in teaching activities.

Coupled optimisation of teaching modules. The integration of AI-empowered military theory teaching models primarily involves AI's semantic text analysis to deeply dissect textual differences between teaching models. Combined with AI's intelligent sensing analysis, this enables targeted content module optimisation and coupling. This achieves flexible embedding of teaching knowledge, methods, and tools, providing dynamically adjusted AI-powered recommendations during implementation. This approach realistically enables military theory course teaching supported by multiple advantageous models.

4 Implementation Pathways for AI-Empowered Innovation in Military Theory Instruction

To realise AI-empowered innovation in military theory course teaching, it is necessary to adhere to the guiding principles of intelligent teaching. This involves strengthening the professional development of teaching staff, enhancing the infrastructure for intelligent teaching, promoting intelligent teaching evaluation, and continuously advancing integrated innovation within the field of military theory course instruction.

4.1 Prioritising Intelligent Teaching Philosophy as a Guiding Principle

Teaching philosophy refers to the fundamental concepts and convictions upheld by educators throughout the instructional process[19]. To harness AI for innovation in military theory course delivery, one must consistently employ intelligent teaching principles to guide the innovative design of all teaching activities.

Firstly, comprehend the trajectory of intelligent teaching. Intelligent teaching has become a pivotal developmental trend in military theory course instruction, representing an irreversible overarching direction. Consequently, vigorous promotion of smart teaching should be undertaken to heighten public awareness of AI technology's profound impact on military education. This necessitates actively embracing and adapting to this transformation, employing a forward-looking perspective to guide the reform and innovation of military theory course teaching.

Secondly, grasp the essence of intelligent teaching. Maintain a technology-empowered mindset towards AI, with higher education institutions actively adopting smart teaching platforms to understand and master cutting-edge AI technologies. Promptly develop teaching agents to vigorously advance innovations in pedagogical methods and tools. Adopt a student-centred approach, using the enhancement of students' military aptitude as the fundamental criterion for evaluating AI teaching innovations, thereby fostering a positive, relaxed, and efficient teaching environment.

Thirdly, innovate intelligent teaching design. This requires leveraging smart teaching platforms to access open course design solutions, drawing on diverse strengths and mutual learning. While pursuing personalised instruction, ensure teaching content remains accurate, scientifically sound and systematic, preventing teaching activities from becoming excessively divergent. Consider how intelligent technologies can stimulate student interest and intrinsic motivation, while guarding against over-reliance on smart systems that might undermine independent thinking and analytical problem-solving abilities.

4.2 Strengthening the Cultivation of Intelligent Teaching Faculty

AI-empowered innovation in military theory course teaching necessitates strengthening the cultivation of teaching staff's intelligent teaching capabilities[20], establishing their role as pioneers in the innovation of military theory course instruction.

Firstly, reinforcing conceptual renewal. As organisers and facilitators of teaching activities, instructors must comprehend and embrace intelligent teaching philosophies, recognising the advantages of intelligent pedagogy in enhancing teaching quality and effectiveness, whilst cultivating enthusiasm for actively engaging in intelligent teaching reform and innovation practices. This should be achieved through attending intelligent teaching seminars and course training to acquire advanced pedagogical concepts, thereby equipping themselves with intelligent teaching mindsets. Furthermore, by participating in teaching case sharing sessions, they should proactively study successful domestic and international intelligent teaching practices to strengthen their sense of responsibility and confidence in driving intelligent teaching reform and innovation within military theory courses.

Secondly, enhance technical training. As organisers and implementers of intelligent teaching innovation, educators must strengthen their knowledge of relevant technologies such as big data and artificial intelligence, grasping the fundamental principles of AI. Practical operational training should be intensified for intelligent teaching hardware and software, including interactive whiteboards, learning management systems (LMS), and smart sensors. Teachers must not only become proficient in launching and operating intelligent systems but also acquire skills in instructional setup, troubleshooting, and emergency maintenance.

Thirdly, enhance exemplary leadership. Regularly organise teaching observation activities, expanding the influence of AI-empowered military theory teaching innovation through demonstrations of intelligent teaching practices. Flexibly integrate intelligent teaching competitions into major events like the Youth Innovation Competition and Digital Teaching Competitions to sustainably broaden the demonstrative impact of intelligent teaching. Establish an exchange mechanism for intelligent teaching, convening monthly or quarterly seminars and workshops to further broaden teachers' horizons and stimulate innovative thinking in intelligent teaching.

4.3 Enhancing Intelligent Teaching Infrastructure

AI-empowered innovation in military theory course teaching necessitates continuous enhancement of intelligent teaching infrastructure, equipment, and facilities to establish an optimal environment for elevating military theory instruction standards.

Firstly, enhance intelligent hardware infrastructure. This involves strengthening foundational hardware for intelligent teaching innovation, including high-speed wired networks, high-performance computing systems, and high-bandwidth switches. It necessitates improving facilities such as smart classrooms, intelligent lecterns, and smart desks and chairs, while rationally optimising classroom spatial layouts. Installation of intelligent hardware and sensors — including interactive whiteboards, touchscreen displays, smart cameras, and intelligent recording equipment—should be prioritised to broaden channels for intelligent teaching management and data collection.

Secondly, enhance intelligent software provision. Learning Management Systems (LMS) should be selected and customised to integrate comprehensive functions including course management, student administration, resource management, and learn-

ing activity oversight. Convenient software modules such as intelligent tutoring, automated question-answering, and automated assignment marking should be integrated. High-quality software platforms should be consolidated, incorporating comprehensive resource systems including online virtual courses, teaching resource repositories, and teaching evaluation databases.

Thirdly, fortify the management of intelligent infrastructure development. A long-term blueprint for intelligent teaching conditions must be formulated to guide the iterative evolution of the entire intelligent infrastructure. A robust cyclical management system should be established to incorporate intelligent devices and software into full-lifecycle management. Security controls for intelligent infrastructure must be strengthened, with strict oversight of circulation channels for document resources, system data, and user information, thereby establishing a secure, open, and controllable data usage mechanism.

4.4 Enhancing Intelligent Teaching Evaluation and Oversight

AI-empowered innovation in military theory course teaching necessitates leveraging the evaluative process as both a guiding principle and a steering mechanism. This involves actively refining the indicator system and methodologies while effectively utilising the outcomes of such assessments.

Firstly, refine the teaching evaluation indicator system. Utilise AI's big data analysis tools to systematise quality and effectiveness metrics for theoretical instruction, emphasising the weighting of evaluation indicators such as intelligent teaching concepts, content methodologies, and resource conditions. Strengthen the oversight role of teaching evaluations in routine course supervision, periodic teaching competitions, and instructional assessments, thereby establishing a regularised evaluation and supervision mechanism that drives intelligent reform and innovation in military theory course delivery.

Secondly, refine teaching evaluation methodologies. Employ AI-driven intelligent algorithms to embed evaluation data collection and feedback mechanisms in real-time across all teaching terminals. Shift from the traditional reliance on summative assessments towards enhancing the role of formative evaluation data collection and feedback in driving pedagogical innovation. This facilitates timely identification and rectification of issues by teaching staff.

Thirdly, effectively harness the feedback function of evaluation outcomes. AI technology should be employed to proactively identify beneficial elements within the teaching innovation process, leveraging the positive incentive role of evaluation results to boldly affirm successful outcomes. Concurrently, there must be a willingness to disclose shortcomings and challenges encountered during innovation, guiding instructors to view issues objectively and prioritise reflective improvement. By pinpointing problems while offering constructive suggestions for enhancement, this approach will drive the continuous optimisation, refinement, and advancement of military theory instruction.

5 Conclusion

As AI-empowered education has become an irreversible trend, military theory course instruction must proactively embrace the profound impact of artificial intelligence technology. Focusing on critical teaching elements such as learner profiling, knowledge transmission, interactive seminars, and evaluative feedback, efforts should encompass teaching data collection, resource expansion, environment design, and pedagogical model integration. Grounded in intelligent teaching principles, this requires strengthening faculty development, enhancing instructional environments, and rigorously enforcing evaluation protocols. to forge innovative methods and pathways for AI-empowered military theory course instruction. This concerted effort will elevate the teaching quality and standards of military theory courses in the digital-intelligence era.

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