附件6

**“人工智能赋能教育教学应用研究”专项课题研究选题指南**

1. 教育数字化转型背景下未来创新课堂研究与实践
2. 人工智能与教育融合发展背景下的智慧教学应用研究
3. 基于知识图谱技术的课程建设实践研究
4. 基于知识图谱技术的课程与教学应用实践研究
5. 基于知识图谱技术的教材建设与应用研究
6. 自适性学习与个性化学习的学习机理研究
7. 基于工智能应用的课程开发模式研究
8. 生成式人工智能与课程资源开发研究
9. 基于超星数字人的智能教学应用场景研究
10. 基于机器阅读技术的AI辅助学术应用研究
11. 基于课堂智能分析大模型的精准教学研究
12. 融合智能技术的常态化教学模式研究
13. 人工智能技术助推高等教育人才培养方式变革研究
14. 人机协同教育教学理论构建与实践研究
15. 人工智能时代的教师教学能力指标体系研究
16. 人工智能赋能专业发展的应用场景研究
17. 教育大数据模型构建与场景应用研究
18. 基于人工智能技术的教学创新场景实践研究
19. 基于大语言模型的智能备课助手应用实践研究
20. 基于大语言模型的智能伴学助手应用实践研究
21. 基于大模型的智能问答助手应用场景研究
22. 基于知识图谱的精准教学实践应用研究
23. 基于OCR技术的智慧考试场景应用研究
24. 人工智能+教育背景下跨学科人才培养探索与实践
25. 人工智能+教育背景下科教融合机制的探索与实践
26. 人工智能+教育背景下产教融合机制的探索与实践
27. 基于新工科、新农科、新文科、新医科混合式课程教学改革实践
28. 基于虚拟教研室的新型教学基层组织建设的研究与实践
29. 高职专业(群)建设数字化转型的内涵与路径研究
30. 人工智能+教育背景下的职业院校教学生态研究
31. 人工智能+教育背景下职业院校专业教学资源库建设研究
32. 利用知识图谱、教学大数据、人工智能等技术，构建个性化教育教学生态建设的研究与实践
33. 基于微服务技术，构建“1+N”的智慧教育数字基座的研究与实践
34. 人工智能与教育融合背景下，推动一流专业建设及专业认证的数字化系统建设与实践
35. 依托智慧教育一体化教学与管理平台，推动职业院校专业建设和人才培养高质量发展的研究与实践
36. 智慧教育背景下跨学校、跨区域优质教学资源建设与协同育人机制探索与实践

Zhejiang Province Association of Higher Education Guide to the "Research on Applying Artificial Intelligence to Enhance Education and Teaching" Special Program

(English version is translated by Chat-GPT)

1. Research and Practice on Future Innovation Classrooms in the Context of Educational Digital Transformation

2. Research on Smart Teaching Applications in the Context of the Integration Development of Artificial Intelligence and Education

3. Practical Research on Course Construction Based on Knowledge Graph Technology

4. Practical Research on Course and Teaching Applications Based on Knowledge Graph Technology

5. Research on Textbook Construction and Application Based on Knowledge Graph Technology

6. Research on the Learning Mechanisms of Adaptive Learning and Personalized Learning

7. Research on Course Development Models Based on Artificial Intelligence Applications

8. Research on Generative Artificial Intelligence and Course Resource Development

9. Research on Intelligent Teaching Application Scenarios Based on Superstar Digital Humans

10. Research on AI-Assisted Academic Applications Based on Machine Reading Technology

11. Research on Precision Teaching Based on Large Models of Classroom Intelligence Analysis

12. Research on Normalized Teaching Models Integrating Intelligent Technologies

13. Research on the Transformation of Talent Cultivation Methods in Higher Education Promoted by Artificial Intelligence Technology

14. Theoretical Construction and Practical Research on Human-Computer Collaborative Education and Teaching

15. Research on the Indicator System of Teachers' Teaching Abilities in the Era of Artificial Intelligence

16. Research on Application Scenarios of Professional Development Empowered by Artificial Intelligence

17. Research on the Construction of Educational Big Data Models and Scenario Applications

18. Practical Research on Teaching Innovation Scenarios Based on Artificial Intelligence Technology

19. Practical Research on the Application of Intelligent Lesson Preparation Assistants Based on Large Language Models

20. Practical Research on the Application of Intelligent Companion Learning Assistants Based on Large Language Models

21. Research on Application Scenarios of Intelligent Q&A Assistants Based on Large Models

22. Practical Application Research on Precision Teaching Based on Knowledge Graphs

23. Research on Application Scenarios of Smart Examinations Based on OCR Technology

24. Exploration and Practice of Interdisciplinary Talent Cultivation under the Background of Artificial Intelligence + Education

25. Exploration and Practice of the Integration Mechanism of Science and Education under the Background of Artificial Intelligence + Education

26. Exploration and Practice of the Integration Mechanism of Industry and Education under the Background of Artificial Intelligence + Education

27. Practical Reform on Mixed Course Teaching of New Engineering, New Agriculture, New Liberal Arts, and New Medical Science

28. Research and Practice on the Construction of New Teaching Grassroots Organizations Based on Virtual Teaching and Research Offices

29. Research on the Connotation and Path of Digital Transformation in the Construction of Vocational Specialties (Groups)

30. Research on the Teaching Ecology of Vocational Colleges under the Background of Artificial Intelligence + Education

31. Research on the Construction of Professional Teaching Resource Libraries in Vocational Colleges under the Background of Artificial Intelligence + Education

32. Research and Practice on Building a Personalized Education and Teaching Ecology Using Knowledge Graphs, Teaching Big Data, and Artificial Intelligence Technologies

33. Research and Practice on Building a "1+N" Smart Education Digital Base Using Microservice Technology

34. Under the Background of the Integration of Artificial Intelligence and Education, Promote the Digital System Construction and Practice of First-class Major Construction and Professional Accreditation

35. Research and Practice on Promoting High-quality Development of Professional Construction and Talent Cultivation in Vocational Colleges through an Integrated Teaching and Management Platform for Smart Education

36. Exploration and Practice of Building and Collaboratively Cultivating High-quality Teaching Resources Across Schools and Regions in the Context of Smart Education