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GB/T 42411.4-2025

**Information technology - Learning, education and training -
Curriculum for online courses - Part 4: Data model of
non-degree education courses**

信息技术 学习、教育和培训 在线课程体系 第4部分：非学历教育课程数据模型

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 4 of GB/T 42411 "Online Curriculum System for Information Technology Learning, Education and Training". The following sections have been released.

1.Framework and Basic Requirements;

4.Data Model for Non-Academic Education Courses Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Information Technology Standardization Technical Committee (SAC/TC28). This document was drafted by: Qingdao Weidong Education Technology Group Co., Ltd., Tsinghua University, East China Normal University, and China Electronics Technology Standardization Association. Research Institute, Shanghai Jiao Tong University, Beijing University of Posts and Telecommunications, Tsinghua University Press, Shanghai Zhongqiao Vocational and Technical University, Sanya College, Shenzhen Polytechnic University of Arts and Design, Beijing University of Science and Technology, China Conservatory of Music, Shandong University of Arts and Crafts, H3C Technologies, Shunde Polytechnic Qingdao Ocean Shipping Mariners Vocational College, Guangzhou Tudao Information Technology Co., Ltd., Shanghai Zhengcheng Education Technology Co., Ltd., Huawei Technologies Co., Ltd. Peili Vocational College, Shanghai Changxue Education Technology Co., Ltd., Exambang (Nanjing) Information Technology Co., Ltd., Guangdong Youpin Zhixue Education Technology Co., Ltd. Limited Liability Company, Sanjieke Information Consulting (Beijing) Co., Ltd., Jiangsu Zhongjiaoke Information Technology Co., Ltd., Chuqizhisheng Education Technology, China Electric Power Xin Group Co., Ltd., Wuhan Blue Ocean Science and Technology Innovation Co., Ltd., Beijing Gaosi Bole Education Technology Co., Ltd., Beijing Smart Walnut Education Yu Technology Co., Ltd.

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GB/T 42411 aims to specify the basic data elements of an online course system, and to provide the content of the online course system and the relationships between courses. The way to describe the goals and competency requirements of a department or online course system. GB/T 42411 is proposed to consist of five parts.

1.Framework and Basic Requirements. The purpose is to define the common requirements and information modules for online course systems at all levels and types of education. The basic framework of the model.

2.Data Model for Basic Education Curriculum. The purpose is to extend GB/T 42411.1 and provide data models applicable to general basic education. The framework of online curriculum system for basic education, and the extended data elements of information model.

3.Data Model for Higher Education Curriculum. The aim is to extend GB/T 42411.1 and provide a model applicable to general higher education. The framework of online course systems for higher education and continuing education, as well as the extended data elements of the information model.

4.Data Model for Non-Academic Education Courses. The aim is to extend GB/T 42411.1 and provide data models applicable to non-academic education courses. The framework of an online curriculum system for history education, and the extended data elements of the information model.

5.Data Model for Vocational Education Curriculum. The purpose is to expand upon GB/T 42411.1 and provide data models applicable to vocational education. The framework of the online curriculum system for education, and the extended data elements of the information model. Part 1 forms the foundation of the entire multi-part standard. Each specific online course system falls under Parts 2 through 5. A specific type of curriculum system. Parts 2 through 5 are based on the common elements of the information model in Part 1, and follow the structure outlined in Part 1. Based on the requirements and needs of specific educational categories, information models for online course systems of that type of education are expanded. Part 2 to Part

5 Some parts need to be used in conjunction with Part 1, but Parts 2 through 5 are independent of each other. Example. An online training course system for corporate employees, belonging to the non-degree education curriculum system, requires the

simultaneous use of Part 1 and Part 4 of GB/T 42411. part. Information technology learning, education and training Online Course System Part

1 Scope

GB/T 42411.4-2025 is the Chinese national standard covering describing a non-degree course as data - the objectives, the units and their sequence, the effort and the assessment, the credential awarded, and the fields that let courses from different providers be listed and compared in one catalogue. Part 4 of the series, first edition. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document provides a framework for an information model of online courses for non-degree education, and specifies the basic elements of extended data and their content. Require. This document applies to the construction and sharing of online course systems for non-degree education.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 7408.1 Representation for the Interchange of Date and Time Information - Part

3 Terms and Definitions

The terms and definitions defined in GB/T 42411.1-2023, as well as the following terms and definitions, apply to this document.

3.1 non-degree education Educational types that do not award academic diplomas.

4 Overview

The curriculum framework presented in this document includes the following two parts of data elements. one part directly adopts GB/T 42411.1-2023. The data elements that have already been defined, and another part are extensions under the first-level data elements defined in GB/T 42411.1-2023, see section [number missing]. Chapters 5 through 9. This document only defines extended data elements, see Tables 1 to

5.The descriptions of each column in the lists are as per GB/T 42411.1-2023. 4.2.

5.Curriculum Framework This document is based on GB/T 42411.1-2023 and has been expanded to specify the framework of online courses for non-degree education, as shown

in Figure 1. In Figure 1, the dashed boxes represent data elements already defined in GB/T 42411.1-2023, and the solid boxes represent extended second-level data elements in this document.

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