

A Performance Evaluation and Development Route Research in Basic Education Informatization of the Western Ethnic Area

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1. Research problem

- What performance does the development of information education in basic education in western minority areas fall in? And how much behind it is to the requirement of national basic education information development?
- How to effectively evaluate the development of basic education informatization in ethnic areas?

2. Research content

- Related literature study
- Constructing the Evaluation Model of Basic Education Informatization Performance
- Basic Education Informatization Performance

- Based on the evaluation model, launching survey and performance gap analytics in the relevant areas of basic education information construction and application level
- Based on data analysis, developing solutions to address problems, implement and evaluate their effectiveness
- Perfecting the evaluation model of educational informatization performance

3. Methodology

- Literature review
- Interview
- Observation
- Questionnaire survey
- Key Performance Indicators Act
- Delphi Method
- Analytic Hierarchy Process

4. Technical Roadmap

First stage: Collecting literature on educational informatisation, the status quo research to form research hypothesis

Second stage: Constructing the Evaluation Model of Basic Education Informatisation Performance in the Western Minority Areas

Third stage: Constructing the desired performance goals

Fourth stage: Empirical research, data collection, processing and validation assumptions

Fifth stage: Identifying performance gaps, and exploring strategies and paths to solve performance problems

Sixth stage: Forming a theoretical model of educational informatisation performance evaluation based on performance technology

Evaluation dimension

1. Information environment and management
2. Informatisation of courses and teaching
3. Teaching ability in digital context
4. Student information literacy

Level 1 indicators:

1. Information environment and management

- Organization and management
- Principal' s leadership in informatisation
- Facilities and environment

Level 2 Indicators:

Organization and management

- Institutional framework of school
- Development plan of school
- Management system of school
- Fund investment of school

Principal' s leadership in informatisation

- Basic information literacy
- Information system planning ability
- Information application guidance ability
- Information the leadership of education

Information facility and environment

- Campus network construction
 - Multimedia teaching terminal
 - Multimedia network classroom
 - Teaching function room
 - Information platform
 - Information resource

2.Information teaching ability

Level 1 Indicators:

- Utilization of technology to optimize in-class teaching
- Utilization of technology to transform learning

Optimizing classroom instruction with technology

- Technology and literacy
- Plan and preparation
- Organization and management
- Assessment and diagnosis

Changing learning method with technology

- Technology and literacy
- Plan and preparation
- Organization and management
- Assessment and diagnosis

The development of teacher in informatized environment

- Teaching space construction
- Information technology applications Awards
- Information technology applications

The development of student in informatized environment

- Student learning space construction
- Student information literacy
- Student Information Technology Application Awards

3. Informatized course and teaching

Level 1 Indicators:

- The construction of informatized courses and teaching platform and teaching resources
- The application of informatized courses and teaching platform
- The teaching in informatized environment
- The learning in informatized environment

Level 2 Indicators:

The construction of informatized courses, teaching platform and teaching resources

- Course(teaching)site construction
- Interactive teaching and learning platform construction
- Teaching and learning resources construction and management

The application of
informatized courses ,
teaching platform and
teaching resources

- Course(teaching)site application
- Interactive teaching and learning platform application
- Teaching and learning resources application

The teaching of informatized environment

- The change of teachers' teaching philosophy
- The change of teaching methods
- The pedagogical practices cooperation between teachers and students
- The pedagogical practices cooperation between teachers
- The instructional evaluation of informatized environment

The learning of informatized
environment

The change of students' idea

The change of learning method

The cooperation between students

The learning evaluation of informatized environment

4.Student' s information literacy

Level 1 Indicators:

- Environment and readiness
- Information consciousness
- Information knowledge
- Information ability
- Information ethics and security

Level 2 Indicators:

Environment and readiness

- Family environment
- School environment
- Student factor

Information consciousness

- The importance of information consciousness
- Information necessity consciousness
- Information sensibility
- Information application consciousness

Information knowledge

- The basic knowledge of information
- The knowledge of information technology

Information ability

- The ability of information retrieval
- The ability of information identification and evaluation
- The ability of information handling and processing
- The ability of information creation and presentation
- The ability of information communication
- The ability of information application

Information ethics and security

- Conduct ethics and norms
- Abidance to law and regulation
- Information security

Indicator validation

According to the four assessment dimensions, indicators at every level, the preparation of questionnaires and interview outlines are designed. Schools are selected based on the assessment and further researched. Index system is further verified and modified for better effectiveness.



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