Zhytomyr Ivan Franko State University
Vakaliuk Tetiana
PavloTychynaUmanState Pedagogical University
Medvedieva Mariia *ZhytomyrIvanFrankoStateUniversity*
Karpliuk Svitlana
Zhytomyr State Technological University
Shadura Valentyna

TRAINING FUTURE TEACHERS OF INFORMATION SCIENCE TO DEVELOP LOGICAL

SKILLS

The application and development of modern technologies in all spheres of social life in Ukraine causes the increase of educational branch role for training and educating the young generation. Moreover, the teaching of Information Science and information a communication technology (ICT) to schoolchildren is becoming one of the prior directions at forming the personality of a secondary school (SS) leaver.

The modern stage of society development is featured by the implementation of a new system of education and science of Ukraine. This new system implies the transition of Ukrainian education system to Bologna processes and requires the scientific search of improved methods of teaching and educating the future professionals. Therefore, such methods should combine modern information and communication means and techniques of teaching as well as the personal development of learners. There appears an urgent problem of reforming the national system of education which has to be targeted at informatization, automation and application of the newest technologies of teaching. All mentioned above will provide the future professionals with the latest and the most demanded information; will form the competent personality of a teacher, will encourage the specialists to continuous study and self-fulfillment. Moreover, it will contribute much to their promotion and mobility in the conditions of modern information society.

Fig. 1 demonstrates the scheme of the stages at training future teachers of Information Science to develop logical thinking skills of senior schoolchildren. One can also see the sequence of these stages and its element interconnection. The implementation of this scheme is done step-by-step in accordance with successive execution of each step (see. Fig. 1).

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│   TRAINING FUTURE TEACHERS OF INFORMATION SCIENCE TO          │
│              DEVELOP LOGICAL SKILLS                            │
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  I STAGE. MASTERING GENERAL SCHEME OF SOLVING SOFTWARE
                 DEVELOPMENT TASKS

  II STAGE. APPLYING METHOD OF STEP-BY-STEP DETALIZATION
                    "TOP DOWN'

  IIISTAGE. IMPOROVING PROGRAMMING TASK SOLUTION BY THE
               TIME OF ALFORITHM EXECUTION

  IV STAGE. SOLVING CREATIVE PROGRAMMING TASKS

  V STAGE. FORMING MENTAL OPERATIONS AT SOLVING
               SOFTWARE DEVELOPMENT TASKS

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│   READINESS OF FUTURE INFORMATION SCIENCE TEACHERS TO         │
│ DEVELOP LOGICAL THINKING SKILLS OF SENIOR SCHOOLCHILDREN      │
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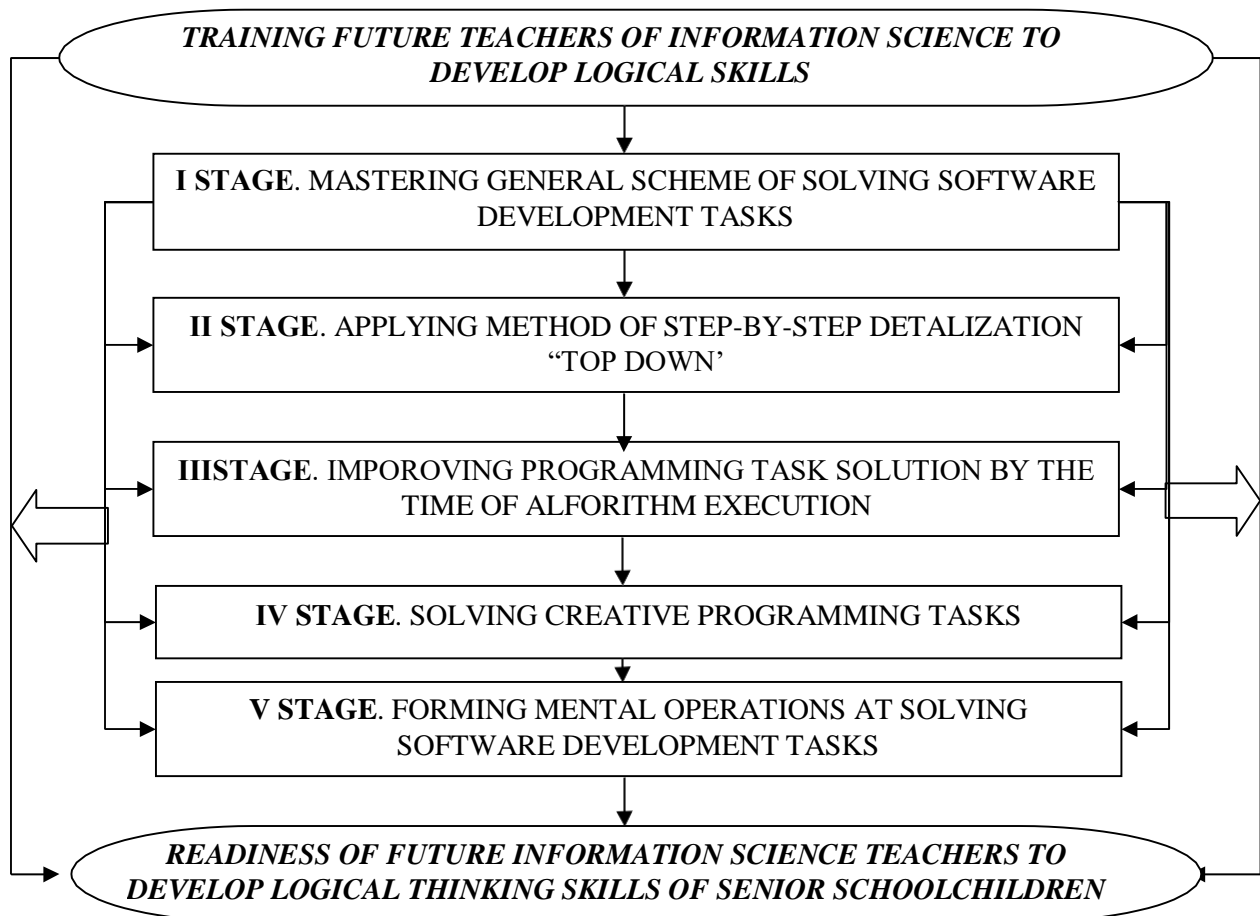
Fig. 1. The stages of training future teachers of Information Science to develop logical thinking of senior schoolchildren

Therefore, the suggested stages of future teachers training to develop logical thinking of senior schoolchildren allow teaching students how to develop logical thinking of children in their professional activity. It also will help to unlock their creativity. Every stage demonstrates forming elements required to develop logical thinking.