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Theoretical And Practical Aspects Of Creating Virtual Resources Based On Simulation Models In Foreign Language Classes

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ABSTRACT

In This Article, The Knowledge Of A Foreign Language Is An Important Factor In Mastering The Secrets Of Any Profession, Gaining Skills And Abilities. A Foreign Language Can Now Be Seen In Various Fields, And Its Place In The Educational Process Is Incomparable. For This Reason, Even If The Graduates Of Secondary General Education Schools Do Not Have The Goal Of Entering A Higher Educational Institution, In Order To Learn A Foreign Languages In Depth, To Acquire The Skills Of Free Speech Is Very Necessary.

Keywords: Teaching Methodology, New Teaching Methods, Methods Of Different Countries, Modern Society, International Scientific Relations, Science And Technology Fields, Number Of Specialists, Know A Foreign Language.

INTRODUCTION

Most Of The Electronic Textbooks Created For Foreign Languages High Educational Institutions Cover The Subjects Of The Curriculum Of General Education Schools And Lyceum Colleges. It Is Known That Learning A Foreign Language Is Currently Being Carried Out From The 1st Grade. In This Context, Attention To Foreign Languages Increased. In Order To Activate Educational Processes, Various Books And Interesting Interactive Lesson Maps Were Created. However, Along With Such Work, The Need For Virtual Resources In Classes Has Also Begun To Be Felt. The Problems Of Increasing Attention To Foreign Languages By Conducting Various Contests By The Ministry Of Public Education, Interesting Transition Of Lesson Processes Through Computer Simulation Models (Csm) Were Highlighted.

Currently, This Direction Is Becoming Very Popular. For Example: In General Secondary School No. 31 Of Karshi City, A Solemn Opening Ceremony Of The Pilot Classroom "Smart-Class" Equipped With Modern Information And Communication Technologies Was Held. In This Room, There Are Many Opportunities For Students To Learn The Language. This Helps To Improve The Quality Of Education And Increase Students' Interest In Learning The Language. The Problems Of Creating Electronic Textbooks From Subjects Planned In The Curriculum Of Foreign Language Teaching Faculties In Higher Educational Institutions And Using Computer Simulation Models In Their Development Are Currently Being Studied By Researchers. Therefore, The Issue Of Creation Of Virtual Resources Based On Computer Simulation Models From The Subjects Provided In The Curriculum Of Foreign Language Teaching Faculties In Higher Education Institutions And Their Implementation In The Educational Process Is Being Addressed.

In Order To Achieve The Effectiveness Of Teaching Foreign Languages, To Reveal The Content Of The Taught Subject, The Process Of Creating Virtual Resources And Their Effective Use In Higher Education Institutions Is Defined. Another Factor In Learning A Foreign Language Is Learning Through The Internet. Because Every Foreign Language Learned Through Ict Affects The Learner Both Visually And Audio.

Today, There Are Many Web Services That Offer The Opportunity To Learn A Foreign Language. In The Online Service, First Of All, You Choose The Language To Be Studied, Then The Level And Learning Method That Suits You. Options Include Vocabulary, Dialogue, Writing, Speaking, And Podcast Listening. You Can Choose The One You Want From Them And Start The Language Learning Process.

MATERIAL AND METHODS

The Introduction Of Computer Technologies Into The Practical Process Increases Students' Interest In Science. At The Same Time, In The Process Of Communicating With The Group, The Teacher Is Not Transferring The Basic Knowledge, But On The Contrary, It Is To Improve The Activity Of Learning To Conduct Laboratory Works And Practical Trainings Electronically, To Work Independently And To Conduct Research.

Currently, Students Are Learning To Electronically Record The Instructions And Concepts Given By The Teacher During The Lesson. In This, Recording Programs Are Of Great Importance. They Provide An Opportunity To Save Any Kind Of Papers And Change Them At The Right Time, And Make It Convenient For

Students To Write Down The Results Of Practical Exercises And Control Works, Enter Them To Pc. It Should Be Noted That Due To The Fact That Learning Science With Computer Tools Is Very Easy, The Attention To These Technical Tools And Programs Is Increasing Now. It Is Worth Mentioning That The Imitation Models That Give Effective Results In Learning A Foreign Language, Especially English, Provide Easy, Convenient And Versatile Opportunities For The Development Of The Main Foreign Language, Which Can Improve The Quality Of Education.

Such Effective Work Will Ensure That The Attention To Foreign Language In Education Will Increase And It Will Once Again Be An Incentive To Increase Its Quality Level. However, Such Activities Increase Attention To The English Language. For The Young Generation, In Order To Achieve Perfection, To Increase Their Attention To Foreign Languages, To Create A Foundation For Learning Foreign Languages, Especially English, Using New Methods, Work Is Being Carried Out Not Only In Our Country, But Also In Different Countries.

With The Suggestopedic Technology, It Is Possible To Use New Models Of Foreign Language Teaching, Including: The Model Of Teaching In A Specialty, The Method Of Teaching A Second Foreign Language, The Methods Of Primary Education. The Development Of The Conditions Of Foreign Language Teaching In General Education Schools Consists Of The Following Aspects:

- Improvement Of Educational Indicators From Quantitative To Qualitative
- With The Help Of Suggestopedic Technology, Teaching All Types Of Speech Activity Consists In Revising The Relationship Between Homework And Class Work In Favor Of Class Work And Building New Features Of Interaction Between Users And Users.
- Are The Main Important Differences Between The Right Time Method And The Other Method.
- The Fact That It Is Impossible To Fully Apply The Intensive Method In Learning The Program Of Foreign Languages For School.

It Is Known That The 60s And 70s Of The 20th Century Are The Period Of The Emergence And Development Of A Number Of New Teaching Methods Known As The "Intensive Teaching Method" In The History Of All Foreign Language Teaching Methods.

All These Methods, Which Appeared For The First Time In Different Countries And In Some Years, Are A General Summary Of The Methodology For The Social Order Of Modern Society.

The International Situation Of This Period, The Scientific And Technical Revolution, Which Caused The "Explosion" Of Innovation And The Expansion Of The Field Of Cultural And Practical Relations, Led To An Increase In The Number Of Specialists In Various Fields Of Science And Technology. Scientific-Practical Relations, All These Relations To Knowledge, In Particular, Made Their Demands On The Level Of Knowledge Of Foreign Languages, And Thus They Summarized Some Principles Of New Methods Of Teaching.

The Conditions Of Relations In A Foreign Language, Which Is Considered A Means Of Communication, Knowledge, Information Acquisition And Collection, Indicate The Need To Master All Types Of Speech Activity: Speaking And Understanding Speech In This Foreign Language, As Well As Reading And Writing.

The Level Of Knowledge Of One Or Another Type Of Speech Activity Is Manifested Directly In The Practice Of Communicating In A Foreign Language, In Reading Original And Meaningful Literature, In The Form Of Books, Comments On Them, Abstracts And Practical Essays For Conferences.

The Teacher Can Use Various Educational Tools During The Practical Session, But This Is Not Enough For The Students. Of Course, The Role Of Simulation Models Is Invaluable, As They Provide Additional Information To Students In Training And Live Classes. Lake's Opinion That "We Connect Lessons With Different Fields, Help To Improve The Quality Of Education" Means That Language Learning Is Not Only Through The Target Direction, But Also Related To It. Talks About Learning Computer Modeling Tools.

In Particular, A Distance Education System Was Introduced In Karshisu In Order To Improve The Quality Of Education And To Provide Students With Sufficient Ict Skills. The Purpose Of Introducing This System Is To Create An Opportunity To Learn A Foreign Language Not Only During The Lesson, But Also At Home. It Can Work Only By Connecting To The Internet. This Direction Is Also One Of The Sectors Of The Ict Sector.

RESULT AND DISCUSSION

Educational Tools Play A Huge Role In Improving Students' Knowledge. Therefore, When Creating The Main Teaching Tools, That Is, Programs And Textbooks, The Author Must Take Into Account The Interests And Age Characteristics Of Students, Otherwise The Students' Interest In Science Will Fade And Their Cognitive Activity Will Decrease. Students' Activity Can Be Achieved Through Effective Use Of Ict Tools In The Course Of The Lesson.

It Is Known That The Software Is Very Important For Such Teaching Processes, Especially If We Think About Adob Flash Or Macromedia Flash Programs, Which Were Chosen As The Most Important Software Tools For Teaching The English Language. These Animation Softwares Are Necessary For Creating A Virtual Base In English Language Classes. In Order To Enrich The Electronic Manuals Created With The Html-Software Tool With Multimedia, It Is Necessary To Use The Capabilities Of Other Software Tools. Macromedia Flash Can Be

Mentioned Among Such Software Tools. The Content Of The Multimedia Electronic Manual Consists Of A Table Of Contents, Chapters, Topics, Animations, A Bibliography, And A Control Mechanism.

Here, Too, As Mentioned Above, The Table Of Contents, Chapters, Topics, Animations, Literature And The Control Mechanism Are Linked By Means Of Hyperlinks. One Of The Advantages Of This Multimedia E-Guide Is The Ability To Use Animations Related To Topics With The Help Of Hyperlinks. The Content Of The Educational Materials Is Covered In A Wider And Understandable Way Due To The Enrichment Of Animations With Movement And Sound. It Should Be Noted That The Creation Of Animations Related To Each Topic Of The Multimedia Electronic Manual Is A Complex Process That Requires The Cooperation Of Science Teachers And Programmers. In The Process Of Creating Animations, Science Teachers Explain Each Process To Programmers And Give Necessary Advice.

And The Programmers Perform Operations Such As Creating The Animation Related To The Topic, Placing It In The Desired Place, Developing Buttons Such As Movement, Sound, Return And Stop. At This Point, It Is Necessary To Dwell On The Multimedia Electronic Manual And The Program Of Buttons That Launch Virtual Stands. Animations Are Controlled Using These Buttons. Actions Such As Viewing, Repeating And Stopping Animations Are Performed Through These Buttons.

As Mentioned Above, Multimedia Electronic Manuals And Animations Of Virtual Stands Were Created Using The Macromedia Flash Software Tool, Their Content And Related Text Using An Html-Editor. Therefore, An Interface Program Has Been Created That Connects Macromedia Flash And Html-Editor. The Main Task Of This Program Is To Place Animations In An Html Document And Change Its Appearance. Features Of Flash Technology.

Usually, The Created Flash Project Is A Flash Object In The Form Of An Html Document. You Need A Flash "Plugin" (Player) To View This Page. This Tool Is Usually Included In The Standard Package Of The Windows Operating System. But In Most Cases, The Flash Page Itself Calls (Loads) The Necessary Software And Makes It Visible Automatically. Taking Into Account The Difficulty Of Various Grammatical Rules And Examples In English, The Implementation Of Image Movement And Representation In The Form Of An Image Is Also Carried Out On The Basis Of The Flash Program.

One Of The Advantages Of Flash Technology Is Its Ability To Create Small Dynamic Animations.

This, In Turn, Makes It Possible To Use Vector Graphics And Complex Algorithms That Can Reduce Data. At The Same Time, It Is Worth Noting Another Possibility Of Flash Technology, Which Is The Possibility Of Using The Created Form To Contact The Server With Its Help.

When Creating Flash-Animation, The Programmer Mainly Works With Frames. The Size And Loading Time Of The Program Created At The Expense Of Performing Various Operations On Frames Is Saved.

It Should Be Noted That Unlike The Technology Of Animators Who Create Other Web Pages, Flash Technology Does Not Have A Problem With The Size Of The Screen And The Page Not Matching. In This Case, It Is Possible To Give The Size Of The Screen In Percentages And Get The Same Relative Size Of The Flash Object All The Time. Here, Not Only The Elements Of The Vector Graphics Are Scaled, But Also The Graphic Images Stitched To It Are Scaled. In The Macromedia Flash Software, Animations Can Be Prin Ted In The Form Of An Html Document, And A Swf Format File Is Created As Its Basis. Video Files Can Also Be Used As Animations In Html Documents, But The Video Files Will Be Very Large. It Takes More Time For The Page To Load When Displaying An Html Document In A Browser. Of Course, Flash Technology Also Has Its Drawbacks. One Of The Main Disadvantages Of Using Flash-Objects Is That The Plug-In Program Is Installed On Users. Its Second Disadvantage Is The High Demand For Computer Resources Needed To View The Flash Video. The Creation Of A New Virtual Database Connected To A Foreign Language Of The Flash Program Gives Opportunities To Further Increase Interest In The Language And To Apply Easy Methods In Learning English. For The First Time In Uzbekistan, The Virtual Resources Created On The Basis Of Ict From English Language Subjects In Higher Secondary Special Education Were Applied To The Educational Process Based On New Pedagogical Technologies.

The Educational Process In Higher Education Requires The Use Of Information And Pedagogical Technologies Based On Virtual Resources Created In The Field Of The English Language. The Creation Of Virtual Resources On The Subjects Of The English Language In The Educational Process Is Fundamentally Different From Other Existing Multimedia Technologies.

Because Of This, These Virtual Resources Contain Elements Of The National Idea, On The Basis Of Which Young People Learn The Values, Traditions And National Traditions Of Our People And The Countries Where The Language Is Taught In English. As You Know, In English, Such A Concept Of Nationalism Has Not Yet Been Implemented In Any Multimedia Program. As A Result Of Scientific Research, It Was Achieved In The Implementation Of The Project "Creation Of Virtual Resources From The Subject Of English Language Based On Information And Communication Technologies And Introduction Into The Educational Process".

Initially, Subjects Of The Curriculum Were Introduced To The Theory Of Creating Virtual Resources From The Subject Of The Main Foreign Language And Introducing It Into The Educational Process. Based On The Goal

Set In The Graduation Thesis, The Creation Of The Electronic Educational-Methodological Complex Software For Basic Foreign Language Subjects Has Begun.

In Creating The Software Of The Electronic Educational-Methodical Complex, The Educational-Methodical Complex Created From The English Language Was Selected As A Database. Computer Simulation Models Were Created On The Following Subjects Of English. The History Of Peoples And Personalities Of Uzbekistan Is An Imitation Model About Its Great Ancestors. National Identity And English-Speaking Countries. National Foods. Health. Family. Family Values. Cities And Rural Life. Sports And Recreation. Uzbekistan And The World Community. Environment. Intercultural Communication.

CONCLUSION

Computer Simulation Models Make It Possible To Use Data In A Way That Is Consistent With Each Other. It Allows To Present Knowledge In Various Forms With The Help Of Modern Computers.

One Of These Methods Is Proven To Be Related To The Method Of Presenting Educational Materials Based On A Computer Simulation Model. The Theoretical And Practical Research Works Developed On The Topic Of Creating And Introducing Virtual Resources To The Educational Process Based On Information And Communication Technologies In The Specialty "English Language" Led To The Following Conclusions.

- 1. It Was Noted That Studying The Theoretical, Scientific-Methodical And Pedagogical Foundations Of Creating Virtual Resources In Foreign Languages Is An Urgent Problem. The Programs That Will Be Studied In The Creation Of The Virtual Database Were Fully Informed And Learned About The Adobe Flash Program.
- 2. Methodological Aspects Of Creating Virtual Resources Created From The Subject Of The English Language Were Studied And Justified.
- 3. Based On Computer Simulation Models, A Virtual Resource Was Created For The Subjects Taught In The English Language Major. Virtual Resources Were Created In Cooperation With Students Of Other Universities.
- 4. The Method Of Using Virtual Resources Created In Higher Education Institutions In The Educational Process Was Developed.
- 5. Macromedia Flash, Adobe Flash, Adobe Cs5, Html And Other Software Tools Of Information And Communication Technologies Were Used To Create Virtual Resources.
- 6. Working With Html And Macromedia Flash Software Tools Is Sufficiently Learned.

Graduate Qualification Work Is Of Practical Importance, It Can Be Used For Theoretical And Practical Training In English Classes. At The Same Time, Students Can Use The Electronic Educational Methodological Complex Created For This Subject During Independent Study Hours.

This, In Turn, Makes It Possible To Increase The Efficiency Of The Educational Process, Create Conditions For Independent Work Of Students, Organize An Information Environment That Is Comfortable And Convenient, Depending On The Form Of Education.

In Each Chapter Of The Graduation Thesis, Problems Are Summarized And Divided According To Their Solution Through Examples. In The 3rd Chapter Of This Work, Opinions Were Given On The Creation Of Virtual Resources Through Imitation Models Of The English Language, And An Understanding Of The Process Of Its Creation And The Principles Of Its Use Was Given. The Computer Simulation Model Created In The Subject Of English Can Be Used In The Process Of Teaching Students Of Foreign Languages, Those Who Do Not Have A Foreign Language Major, And Those Who Are Studying. The Method Of Creating A Computer Simulation Model Can Be Used As A Basis By All Foreign Language Teachers.

REFERENCES

- 1. Abduqodirov A.A. Va Boshqalar. Axborot Texnologiyalari. -Toshkent: 2002. -148 B.
- 2. Abrahamsen, E., & Mitchell, J. Communication And Sensorimotor Functioning In Children With Autism// Journal Of Autism And Developmental Disorders, 1990. Pp. 75–85.
- 3. Alessi, S.M. &Trollip, S.P. Multimedia For Learning: Methods And Development.Boston, Ma: Allyn And Bacon. 2001. 128p.
- 4. Baer, D. M., Peterson, R. F., & Sherman, J. A. The Development Of Imitation By Reinforcing Behavioral Similarity To A Model//Journal Of The Experimentalanalysis Of Behavior,1967. Pp.101–105.
- 5. Eyler, J. Reection: Linking Service And Learning-Linking Students And Communities// Journal Of Social Issues 58, 2002. Pp. 517-524.
- 6. Heerman, B. Teaching And Learning With Computers: A Guide For College Faculty And Administrator. Jossey-Bass, London.1988. 244p.
- 7. Jasinski, M. Pedagogical Issues Emerging From This Project. Teaching And Learning Styles That Facilitate Online Learning.1998. 458p.

- 8. Lee, S.H. Usability Testing For Developing Effective Interactive Multi-Media Software: Concepts, Dimensions And Procedures. 1999. 465p.
- 9. Mon, L. Questions And Answers In A Virtual World: Educators And Librarians As Information Providers In Second Life // Journal Of Virtual Worlds Research. 2009. Pp. 102-113.
- 10. Mueller, E., & Lucas, T. A Developmental Analysisof Peer Interaction Among Toddlers. In M. Lewis & L. A. Rosenblum (Eds.) // Journalfriendship And Peer Relations. New York: Wiley. 1975. Pp. 223–257.
- 11. Neuman, D. Learning And The Digital Library. // Library Trends, 45(4). 1997. Pp.687-708.
- 12. Saodat, Saidakbarova. "The Study Of Phraseology And Its Theoretical Features." Journal Of Foreign Language Teaching And Applied Linguistics 11 (2021): 97-101.
- 13. Shirin Bakhtiyarovna Sadikova Definition Of Mystic Teaching And Methods In Navai Philosophy // Talqin Va Tadqiqotlar Ilmiy-Uslubiy Jurnali. 2022. №2. Url: Https://Cyberleninka.Ru/Article/N/Definition-Of-Mystic-Teaching-And-Methods-In-Navai-Philosophy (Дата Обращения: 26.03.2023).
- 14. Abdullayeva, Markhabo . "The Appearance Of The Term "Education Dictionary" In World Linguistics Is Analyzed" Oriental Renaissance: Innovative, Educational, Natural And Social Sciences, Vol. 2, No. Special Issue 28-2, 2022, Pp. 48-52.
- 15. Saodat, Saidakbarova. "The Benefits Of Using Critical Incidents In Teaching Languages." Conference. Perspectives Of Implementing International Experience In Foreign Languages Teaching. Vol. 11. 2021.
- 16. Sadiqova Shirin Bakhtiyorovna. The Method Of Syntactic-Stylistic Expression Of Respectful Speech In The Uzbek Language. Ijesc. 11/2021. Pp.28094-28095
- 17. Sadiqova Shirin Baxtiyorovna. O'zbek Tilining Intensiv Kursi (Xorijliklar Uchin O'zbek Tili. Boshlang'ich Kurs). Tdshu: 1/2021 Pp.120
- 18. Saidova, Makhsudakhon Abbasovna (2021). Ways To Evaluate The Professional Competence Of Teachers And Its Formation. Oriental Renaissance: Innovative, Educational, Natural And Social Sciences, 1 (Special Issue 2), 168-172.
- 19. Normamatovna, N.D., & Zoirovna, I.G. (2022). Modern Iranian Children's And Adolescent Literature. International Journal Of Health Sciences.
- 20. Муратова Музаямхон Носировна, Алимбаева Шахло Акмаловна, Бабаева Комила Ришатовна, Истамова Гулноза Уткировна Особенности Обучения Грамматике Английского Языка На Среднем Этапе // Academy. 2019. №6 (45). Url: Https://Cyberleninka.Ru/Article/N/Osobennosti-Obucheniya-Grammatike-Angliyskogo-Yazyka-Na-Srednem-Etape (Дата Обращения: 06.04.2023).