



ISSN: 3060-4613



MAKTABGACHA
VA MAKTAB
TA'LIMI VAZIRLIGI



O'zbekiston
Milliy Pedagogika
Universiteti



№6(3)

2026

- 13.00.00 Pedagogika fanlari
- 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
- 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
- 13.00.03 Maxsus pedagogika
- 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
- 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
- 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
- 13.00.07 Ta'limda menejment
- 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
- 13.00.09 Ijtimoiy pedagogika
- 07.00.00 Tarix fanlari
- 19.00.00 Psixologiya fanlari
- 01.00.00 Fizika-matematika fanlari
- 02.00.00 Kimyo fanlari
- 03.00.00 Biologiya fanlari
- 09.00.00 Falsafa fanlari
- 10.00.00 Filologiya fanlari
- 11.00.00 Geografiya fanlari

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AKTABGACHA VA AKTAB TA'LIMI

Pedagogika, psixologiya fanlariga ixtisoslashgan ilmiy jurnal



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Elektron nashr. 356 sahifa,
9-iyun, 2026-yil.

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Pedagogika fanlari bo'yicha: OAK Kengashi tavsiyasi (26.08.2024-y., №11-05-4381/01) asosida:

- Ekspert kengashi (29.10.2024-y., №10)
- Rayosat qarori (31.10.2024-y., №363/5)

Psixologiya fanlari bo'yicha: Toshkent davlat pedagogika universiteti murojaatiga asosan OAK tavsiyasi (24.04.2025-y., №11-05-2566/01):

- Ekspert kengashi (25.05.2025-y., №10)
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“Maktabgacha va maktab ta'limi”
jurnali

26.09.2023-yildan

O'zbekiston Respublikasi Prezidenti
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va ommaviy kommunikatsiyalar
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reyestr raqami tartibi bo'yicha
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Litsenziya raqami: **№136361**



MUNDARIJA

O'zbek bolalar folklorining etnopsixologik jihatlarini.....	10
<i>Alimbayeva Shaxlo Tursunovna</i>	
The Convergence of Educational Paradigms: Policy Borrowing, Adaptability, and Institutional Reform in Uzbekistan's Modern School System	15
<i>Lola Rakhmonovna Djurakulova, Karina Eduardovna Bushevskaya</i>	
Bo'lajak jismoniy tarbiya o'qituvchilarida valeologik kompetensiyalarni rivojlantirish	21
<i>Xudoyberdiyev G'iyosiddin Baxtiyor o'g'li, Mamatqulov Davronbek Abdig'apparovich</i>	
Autizm spektridagi buzilishlarga ega bolalar rivojlanishida STEAM ta'lim texnologiyasining pedagogik ahamiyati.....	25
<i>Ne'matova Hilola Ikrom qizi, Ahmadova Zuhra Adizovna</i>	
Ozodlikdan mahrum qilingan shaxsning jazoni ijro etish muassasasidagi moslashuvining psixologik xususiyatlari	30
<i>Saydullayeva Muxabbat Abdullayevna</i>	
Boshlang'ich sinflarda o'quvchilarning ijodiy qobiliyatini rivojlantirishning pedagogik ahamiyati.....	33
<i>Shodiyeva Gulruh Xayrullayevna, Ergasheva Farog'at</i>	
Boshlang'ich sinf o'quvchilarida gamifikatsion topshiriqlar asosida divergent fikrlashni shakllantirishning didaktik mexanizmlari.....	37
<i>Jalilov Muhammadali Abdumutalibovich, Saloydiovva Sevaraxon Mahammadsharif qizi</i>	
Darsdan tashqari mashg'ulotlarda boshlang'ich sinf o'quvchilarining ijodiy faoliyat tajribasini shakllantirish	41
<i>Sayfiddinova Muxlisa Sayfiddinovna</i>	
Harbiy xizmatchilar oilalarida inqirozlarni profilaktika qilishda ijtimoiy-psixologik xizmatlarning o'rni	45
<i>Sh. S. Kurbanova</i>	
Yosh onalarning pedagogik kompetensiyalariga oid ilmiy-nazariy yondashuvlar	49
<i>Yuldasheva Zulayxo Sadullayevna</i>	
Роль нарративно-экспозиционной терапии при работе с детьми, репатрированными из ЗОН вооружённых конфликтов	53
<i>Юлдашев Санжар Рузимуродович</i>	
Boshlang'ich sinf texnologiya darslarida zamonaviy pedagogik texnologiyalar: muammo va uning yechimlari.....	57
<i>Mamatova Karomat Ilhomjonovna</i>	
Bitiruvchi sinf o'quvchilarini kasb-hunarga yo'naltirish jarayonlarida individual yondashuvning ahamiyati ...	61
<i>Asilova Sanobar Xatamboyevna</i>	
Optika bo'limini o'qitishning didaktik asoslari.....	66
<i>Avulova Zamira Tursunmurodovna, Nomozova Dilnoza Mamarajab qizi, Shomurodova Maftuna Tolibjon qizi, Rayimova Muazzam Xolbobo qizi</i>	
Bo'lajak informatika o'qituvchilarida kompyuter grafikasiga oid kompetensiyalarni rivojlantirish uchun Gamified Project-Based Learning asosidagi integrativ metodika ishlab chiqish	69
<i>D. Y. Pulatova, G' R. Berdiyev</i>	
Psixologik savodxonlikning o'smirlar akademik savodxonligiga ta'siri.....	76
<i>Fayzullayev Mirzaodil Mirzamurodovich</i>	
Umumiy o'rta ta'lim maktablarida fizika darslarida loyihaviy ta'limni qo'llashning pedagogik asoslari	81
<i>Ismonov Turgunpulat To'liqinovich</i>	
Maktabgacha yoshdagi bolalarning tabiatga oid kompetensiyalarini rivojlantirishda mashg'ulot, ekskursiya va sayrlardan foydalanish metodikasi.....	84
<i>Maripova N. X.</i>	
Individual yondashuvga asoslangan pedagogik mexanizmlarni amaliyotga joriy etish metodikasi	88
<i>Nurova Malika Abduzairovna</i>	



Communicative Learning as a Basis for Critical Thinking Development	92
<i>Petrosyan Nelya Valerevna, Khalilova Farangiz Khoshimovna</i>	
Nikohdan oldingi hissiy-emotsional kompetentlikni rivojlantirishning ijtimoiy-psixologik omillari	97
<i>Raximova Gulxayo Alisherovna</i>	
Talabalarda chidamkorlikni rivojlantirishning ahamiyati	100
<i>Shaalimov Muxtorsha Atxamovich</i>	
Maktabgacha katta yoshdagi bolalarda ertaklar orqali tarbiya berish usullari	105
<i>X. Sh. Ochilova</i>	
Bo'lajak tarbiyachilarning ijtimoiy kompetensiyasini rivojlantirishda interfaol ta'lim texnologiyalarining samaradorligi	109
<i>Xalilova Dilnoza Furkatovna</i>	
Bo'lajak boshlang'ich sinf o'qituvchilarida kitobxonlik madaniyatini kreativ yondashuvlar asosida shakllantirish imkoniyatlari	112
<i>Xolyigitova Bahoroy Kimsanboyevna</i>	
Bo'lajak buxgalteriya hisobi va audit sohasidagi talabalarning kasbiy kompetensiyalarini rivojlantirishning nazariy asoslari	117
<i>Arziyeva Visola Namozovna</i>	
Boshlang'ich ta'lim mazmunini tizimlashtirishning didaktik va aksiologik tamoyillari	121
<i>Shabbazova Dilfuza Ruzikulovna</i>	
Munis Xorazmiy devonining o'rganilishi va uning tarixiy-etimologik tahlili	125
<i>Sharopova Durdona Azim qizi</i>	
Raqamli texnologiyalar asosida pedagogik kompetensiyalarni takomillashtirish asoslari	129
<i>Tashmatova Gulzoda</i>	
Maktabgacha ta'limda steam yondashuvining didaktik imkoniyatlari	133
<i>To'xtaboyeva Maftunaxon G'aniyevna</i>	
Raqamli pedagogikaning zamonaviy ta'lim rivojlanishidagi o'rni	137
<i>Tojiyeva Asila Abdimannon qizi, Pardayeva Ra'no Eshboyevna</i>	
Talabalar jamoasida uchraydigan nizoli vaziyatlarning diagnostik tahlili	142
<i>Vaxobova Muxtabar Nurmuhimmat qizi</i>	
Kreativ yondashuv asosida talabalarining kasbiy sifatlarini shakllantirish	146
<i>Xolmatova Gulhayo Ulug'bekovna</i>	
Maktabgacha yoshdagi bolalar tarbiyasining psixologik asoslari	151
<i>Xurvaliyeva Tarmiza Latipovna</i>	
Umumta'lim maktab direktorlarining boshqaruv samaradorligini oshirishda media va axborot savodxonligini rivojlantirish modelini takomillashtirish	156
<i>Abdulxakimova Ziyoda Latibjon qizi</i>	
Boshlang'ich sinf o'quvchilarining darsda muammoli STEAM loyihalarini yaratish ko'nikmalarini rivojlantirish	161
<i>M. S. Achilova</i>	
Optik tushunchalarni shakllantirish metodikasi	165
<i>Avulova Zamira Tursunmurodovna, Nomozova Dilnoza Mamarajab qizi, Cho'liyeva Sofiya Sobirjon qizi, Shog'dorova Moxinur Bobomurot qizi</i>	
PHET simulyatsiyalari yordamida optikani o'rgatish	169
<i>Avulova Zamira Tursunmurodovna, Nomozova Dilnoza Mamarajab qizi, Toshmirzayeva Buvioysha Panji qizi, Ruziyeva Jasmina Sirojiddin qizi</i>	
Boshlang'ich sinf o'quvchilari ijodiy fikrlashini o'ziga xos jihatlari	173
<i>Gafurova Shoxista Erali qizi</i>	
O'zbekiston hududlarida yengil atletika infratuzilmasi va sportchilar tayyorlash tizimini tashkiliy-boshqaruv asoslari	178
<i>Hakimova Mushtariybonu Hamidovna, Tursunpolatova Ziyoda Jahongir qizi</i>	
O'zbekistonda mustaqil fikrlash muammosi bo'yicha olib borilgan tadqiqotlar tahlili	181
<i>Tursunova Dilbar Zafarovna</i>	

MUNDARIJA СОДЕРЖАНИЕ CONTENTS	Methodology for Developing Competencies in Primary Education and the Communicative Analysis of Oral Speech..... 184 Turumbetova Aygul Yusupbaevna	184
	Bo'lajak boshlang'ich sinf o'qituvchilarini "Tarbiya" darslarida o'quvchilarning mantiqiy fikrlash qobiliyatini rivojlantirishga o'rgatish metodikasi 189 Ummatkulova Sayyora Shovkatovna	189
	Boshlang'ich sinflarda matematika ta'limini tashkil etish 191 Saydullayeva Shabbona Ashraf qizi, Axtamqul Azamqulov, Anvar Yusupov	191
	Metakognitiv xabardorlik ko'rsatgichlarining ta'lim shakliga bog'liqligi..... 195 Ermatova Robiya Bekjonali qizi	195
	The Integration of Artificial Intelligence Technologies in Esp Instruction: Enhancing Professional Communicative Competence in Higher Education 199 Ismailova Shaira Ferdausovna	199
	Intercultural Communicative Competence in English Language Teaching: Preparing Global Learners 204 Maqsudova Gulnoz Olimovna	204
	Teaching Reading Through Multimodal Texts: Enhancing Comprehension and Engagement in EFL Classrooms 208 Norboyeva Shahnoza Jo'rabek qizi	208
	Digital Technologies and Cognitive Competence Development in English Language Teaching 212 Sharipova Muhabbat Erkinovna	212
	Raqamli ta'lim muhitida sun'iy intellektga asoslangan elektron o'quv resurslarini loyihalashning konseptual-pedagogik asoslari va didaktik muammolar tahlili..... 216 Shirinov Feruzjon Shuxratovich, Raxmonov Ziyodillo Xusanovich	216
	Boshlang'ich ta'limda timss mezonlari: kontekstli muammolarga yondashuv 222 Yo'ldoshev Farhodjon Baxtiyor o'g'li	222
	O'qituvchilarning qadriyatlarini va stressga barqarorlik o'rtasidagi o'zaro bog'liqlikning psixologik tahlili 227 Yuldashova Dilafuz Shavkatovna	227
	Bo'lajak o'qituvchilarning kasbiy kompetentsiyasini shakllantirish pedagogik muammo sifatida 229 Safarova Madina Azamat qizi	229
	Социально-психологические особенности отношения студентов к использованию искусственного интеллекта chatgpt в образовательной деятельности..... 233 Аскарлова Гулрух Оринбасаровна	233
	Диалог культур в произведениях русскоязычных писателей Узбекистана XXI века 239 Чернова Татьяна Алексеевна, Отакулов Ғолиб	239
	Русский язык как пространство межкультурной коммуникации в литературе Узбекистана 242 Чернова Татьяна Алексеевна, Имамов Жавлонбек, Абдурахмонов Элбек	242
	Umumta'lim maktablarida jismoniy tarbiya va sport tadbirlarining asosiy shakllari 245 Abdukarimov Nurmaxan Amirxanovich	245
	Orol bobo obrazi orqali inson va tabiat birligining talqini 249 Hayotova Diyora Hamid qizi	249
	Yosh taekvondochilarda (10–12 yoshli) kuch, tezkorlik va ephillik sifatlarini takomillashtirish metodikasi .. 254 Iminova Z. B., Nazarova M. A.	254
	Oliy ta'lim muassasasi kafedra mudirlarida liderlik xususiyatini rivojlantiruvchi ijtimoiy-psixologik omillar 258 Mamatkulova Kimyoxon Abdujalilovna	258
	Mediafalsafaning oliy ta'lim tizimidagi didaktik imkoniyatlari va pedagogik funksiyalari 265 Mirabdullayev Izzatillo Isroiljon o'g'li	265
	Maktabgacha ta'lim tashkiloti kun tartibini to'g'ri tashkil etishda tarbiyachining roli..... 271 Muminova Gulasal Baxodirovna	271
	Soft Skills yondashuvi asosida bo'lajak boshlang'ich sinf o'qituvchilarida pedagogik muloqot madaniyatini shakllantirish 275 Quvonova Nodirabegim Shavkat qizi	275
	Tasviriy faoliyat jarayonida eshitishda nuqsoni bo'lgan o'quvchilarning kognitiv jarayonlarini rivojlantirish .. 280 Sadirova Kamola Giyozovna	280



Inklyuziv ta'lim sharoitida maxsus pedagogik metodlar orqali o'quvchilarning ijtimoiy moslashuvini ta'minlash.....	284
<i>Suyunova Kamola Jamshed qizi, Suvonova Kamola Rayimkulovna</i>	
Web-dizayn texnologiyalari asosida bo'lajak informatika va axborot texnologiyalari o'qituvchilarining raqamli kompetentligini shakllantirish metodikasi	287
<i>Ulmasbek Abdubanapovich Yuldashev, Prof. Dr. Ayhan Istanbulu</i>	
O'smirlar axloqiy rivojlanishining psixologik determinantlari va ularni takomillashtirish mexanizmlari	293
<i>Umaraliyev Muzaffarjon Muhammadjon o'g'li</i>	
Oliy ta'limda o'zbek tili fanini o'qitish: muammo va yechimlar	297
<i>Yuldasheva Dilnoza Bekmurodovna</i>	
Folklor motivlarining bolalar xarakteri shakllanishidagi o'rni.....	300
<i>Safarova Nigora Oxunjonovna, Sayfilloyeva Jasmina Jahongirovna</i>	
Kreativ pedagogga qo'yiladigan talablar va uni shakllantirish bosqichlari.....	304
<i>Abdialimova Maxfuza Safarboy qizi</i>	
Biologiya darslarida STEM va biotexnologiya integratsiyasining nazariy poydevori	307
<i>Abdusamatov Abduqodir Norqul o'g'li</i>	
The Effectiveness of Project-Based Learning in Developing 21 st -Century Skills Among EFL Learners	314
<i>Axmatova Munisa Orif qizi</i>	
Autizm spektri buzilishi bo'lgan bolalarning o'yin faoliyati asosida ijtimoiylashuvi.....	320
<i>P. M. Pulatova, El'muradova Madina Yangiboy qizi</i>	
Boshlang'ich sinf o'quvchilarining nutqiy kompetensiyalarini xalq og'zaki ijodi asosidagi didaktik o'yinlar orqali rivojlantirishning lingvopsixologik va tarbiyaviy mexanizmlari.....	326
<i>Muqimova Gullola Qobil qizi, Sultonov Humoyun Ulug'murodovich</i>	
Tillarni o'qitish jarayonini modellashtirishning metodologik asoslari.....	330
<i>Nurkeldi Jarasbayev</i>	
Sun'iy intellekt texnologiyalarining informatika ta'limidagi o'rni va ahamiyati	334
<i>Abdullayev Abubakir Narzullayevich, Xurozboyeva Sevinch Abror qizi</i>	
Научно-методологические основы организации психопрофилактической и психокоррекционной работы в практической психологии	337
<i>Ядгарова Озода Ибрагимовна</i>	
Raqamli ta'lim muhitida birlamchi manbalar bilan ishlashning sun'iy intellektga asoslangan pedagogik-metodik mexanizmlari	342
<i>Yursinboyev Jaxongir Mexrojiddin o'g'li</i>	
Zamonaviy biologiyada umumiy genetikaning o'rni va istiqbollari	348
<i>Ko'bayev Jurabek Eshmamatovich</i>	
Разработка системы мониторинга информационной безопасности для высших учебных заведений...	352
<i>Хамроев Шохбоз Султонмуродович</i>	

THE EFFECTIVENESS OF PROJECT-BASED LEARNING IN DEVELOPING 21ST-CENTURY SKILLS AMONG EFL LEARNERS

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Abstract: In the twenty-first century, language education is expected to equip learners not only with linguistic competence but also with essential skills required for academic, professional, and social success. Project-Based Learning (PBL) has emerged as an innovative learner-centered approach that promotes active engagement, collaboration, critical thinking, creativity, and communication. This article explores the effectiveness of Project-Based Learning in developing 21st-century skills among learners of English as a Foreign Language (EFL). Drawing on existing literature, the article examines the theoretical foundations of PBL, its role in fostering communication, collaboration, creativity, critical thinking, and digital literacy, and its implications for English language teaching. The review suggests that PBL creates meaningful learning experiences by connecting language learning with authentic tasks and real-world contexts. Furthermore, PBL encourages learner autonomy, motivation, and problem-solving abilities while improving language proficiency. The article concludes that Project-Based Learning represents a valuable pedagogical approach for preparing EFL learners to meet the demands of an increasingly globalized and technology-driven world.

Key words: project-based learning, EFL learners, 21st-century skills, collaboration, critical thinking, communication, language teaching.

Annotatsiya: Yigirma birinchi asrda til o'rgatish nafaqat lingvistik kompetensiyani, balki o'quvchilarga akademik, professional va ijtimoiy muvaffaqiyat uchun zarur bo'lgan asosiy ko'nikmalarni ham shakllantirishi kutiladi. Loyihaga asoslangan ta'lim (LAT) o'quvchi markazli innovatsion yondashuv sifatida faol ishtirok, hamkorlik, tanqidiy fikrlash, ijodkorlik va muloqotni rivojlantirishga yordam beradi. Ushbu maqolada ingliz tilini xorijiy til sifatida o'rganuvchilar orasida XXI asr ko'nikmalarini rivojlantirishda loyihaga asoslangan ta'lim samaradorligi o'rganiladi. Mavjud adabiyotlar asosida LATning nazariy asoslari, muloqot, hamkorlik, ijodkorlik, tanqidiy fikrlash va raqamli savodxonlikni rivojlantirishdagi roli hamda ingliz tili o'qitishidagi ahamiyati ko'rib chiqiladi. Tahlil natijalariga ko'ra, LAT til o'rganishni real hayotiy vazifalar bilan bog'lash orqali mazmunli ta'lim jarayonini yaratadi. Shuningdek, LAT o'quvchilarning mustaqilligi, motivatsiyasi va muammoni hal qilish ko'nikmalarini oshiradi hamda til bilimini yaxshilaydi. Xulosa qilib aytganda, loyihaga asoslangan ta'lim xorijiy til o'rganuvchilarni tobora globallashtirgan va texnologik taraqqiy etayotgan dunyoga moslashtirish uchun samarali pedagogik yondashuv hisoblanadi.

Kalit so'zlar: loyihaga asoslangan ta'lim, ingliz tilini o'rganuvchilar, XXI asr ko'nikmalari, hamkorlik, tanqidiy fikrlash, muloqot, til o'qitish.

Аннотация: В XXI веке обучение языкам должно обеспечивать учащихся не только лингвистической компетентностью, но и важнейшими навыками, необходимыми для академического, профессионального и социального успеха. Обучение на основе проектов (ОП) стало инновационным, ориентированным на учащихся подходом, который способствует активному участию, сотрудничеству, критическому мышлению, творчеству и коммуникации. В данной статье рассматривается эффективность обучения на основе проектов в развитии навыков XXI века у изучающих английский язык как иностранный. На основе существующей литературы анализируются теоретические основы ОП, его роль в развитии коммуникации, сотрудничества, креативности, критического мышления и цифровой грамотности, а также его значение для преподавания английского языка. Обзор показывает, что ОП создаёт значимый опыт обучения за счёт связи изучения языка с реальными задачами и жизненными ситуациями. Кроме того, ОП способствует развитию автономии, мотивации и умений решения проблем у учащихся, а также улучшает их владение языком. В заключение отмечается, что обучение на основе проектов – это ценный педагогический подход для подготовки изучающих иностранный язык к требованиям всё более глобализирующегося и технологически развивающегося мира.

Ключевые слова: обучение на основе проектов, изучающие английский язык, навыки XXI века, сотрудничество, критическое мышление, коммуникация, преподавание языка.



INTRODUCTION

The rapid development of technology, globalisation, and the knowledge-based economy has transformed educational expectations worldwide. Contemporary education systems are no longer solely concerned with the acquisition of subject knowledge; they are increasingly focused on preparing learners with the skills necessary to succeed in complex and dynamic environments. These competencies, commonly referred to as 21st-century skills, include communication, collaboration, critical thinking, creativity, problem-solving, digital literacy, and self-directed learning (Partnership for 21st Century Learning [P21], 2019). Educational institutions are therefore challenged to adopt teaching approaches that support the development of these skills alongside academic achievement.

Within the field of English language teaching (ELT), the importance of developing 21st-century skills has become particularly significant. English functions as a global language of communication, enabling individuals to participate in international education, employment, and intercultural interaction. Consequently, language learners must develop not only linguistic competence but also the ability to collaborate, communicate effectively, solve problems, and adapt to rapidly changing social and technological contexts (Richards, 2015). Traditional teacher-centered approaches often emphasize memorization, grammar instruction, and examination preparation. While these methods may contribute to learners' knowledge of language structures, they frequently provide limited opportunities for authentic communication, critical thinking, and collaborative learning (Thomas, 2000). As a result, many educators have sought alternative approaches that promote active engagement and meaningful learning experiences.

Project-Based Learning (PBL) has emerged as one of the most influential learner-centered approaches in contemporary education. PBL is an instructional method in which students acquire knowledge and skills by working over an extended period to investigate and respond to authentic, engaging, and complex questions, problems, or challenges (Bell, 2010). Rather than receiving information passively, learners actively participate in the learning process by conducting research, collaborating with peers, creating products, and presenting their findings.

LITERATURE REVIEW

Project-Based Learning (PBL) is a student-centered instructional approach that engages learners in investigating authentic questions, problems, or challenges over an extended period. Unlike traditional teaching methods that emphasize the transmission of knowledge from teacher to student, PBL encourages learners to actively construct knowledge through inquiry, collaboration, and practical application (Bell, 2010). Students are required to research information, solve problems, create products, and present their findings, thereby integrating knowledge and skills in meaningful contexts.

The roots of Project-Based Learning can be traced to the educational philosophy of John Dewey, who emphasized learning through experience and active participation. Dewey (1938) argued that education should connect classroom learning to real-life situations and encourage learners to engage in meaningful problem-solving activities. Building on Dewey's ideas, Kilpatrick (1918) introduced the Project Method, which emphasized purposeful activities designed around learners' interests and experiences. These early educational theories continue to influence contemporary approaches to project-based instruction.

Modern definitions of PBL highlight several key characteristics. According to Thomas (2000), effective projects are central to the curriculum, focus on authentic questions, involve constructive investigation, promote learner autonomy, and result in realistic products or presentations. Similarly, Larmer et al. (2015) identify essential elements of high-quality project-based learning, including a challenging problem, sustained inquiry, authenticity, student voice and choice, reflection, critique and revision, and public presentation.

In language learning contexts, PBL provides opportunities for learners to use the target language as a tool for accomplishing meaningful tasks. Instead of studying language in isolation, students engage in communication, research, and collaboration while completing projects. Consequently, language learning becomes integrated with the development of academic, social, and cognitive skills.

RESEARCH METHODOLOGY

This study employed a qualitative research approach based on a comprehensive review and analysis of scholarly literature related to Project-Based Learning (PBL) and the development of 21st-century skills in English as a Foreign Language (EFL) education. The research aimed to examine how PBL contributes to the development of communication, collaboration, critical thinking, creativity, digital literacy, and learner autonomy among EFL learners.

Data were collected from academic books, peer-reviewed journal articles, conference proceedings, and international educational reports published by recognized organizations and researchers in the fields of language education and educational technology. Key theoretical and empirical studies conducted by scholars such as Dewey (1938), Thomas (2000), Bell (2010), Krajcik and Blumenfeld (2006), Larmer et al. (2015), and Richards (2015) were analyzed to identify the major characteristics and educational benefits of Project-Based Learning.

The study utilized descriptive, comparative, and analytical methods. The descriptive method was used to explain the theoretical foundations of PBL and 21st-century skills. The comparative method enabled the examination of differences between traditional teacher-centered instruction and project-based approaches. The analytical method was applied to evaluate the findings of previous studies concerning the effectiveness of PBL in language learning contexts.

The collected data were organized according to key themes, including communication, collaboration, critical thinking, creativity, digital literacy, and learner autonomy. Thematic analysis was employed to identify common patterns, trends, and educational implications across the reviewed literature.

The findings were interpreted within the context of English language teaching and learning, with particular attention to the potential of Project-Based Learning to prepare EFL learners for the academic, professional, and social demands of the twenty-first century.

ANALYSIS AND RESULTS

Project-Based Learning (PBL) has gained considerable attention in language education because of its potential to integrate language learning with the development of essential 21st-century skills. Unlike traditional instructional approaches that often focus on memorization and teacher-directed learning, PBL engages learners in authentic tasks that require communication, collaboration, critical thinking, creativity, and the use of technology. Through project work, students actively participate in constructing knowledge, solving problems, and producing meaningful outcomes. Consequently, PBL provides a powerful framework for developing both language proficiency and the competencies required for success in contemporary society.

Communication is widely recognized as one of the most important competencies in the 21st century. Effective communication involves the ability to express ideas clearly, listen actively, interpret information accurately, and engage in meaningful interactions with others. In EFL contexts, communication skills are particularly important because language learning ultimately aims to enable learners to use English effectively in real-world situations.

Project-Based Learning creates numerous opportunities for meaningful communication. Throughout the project process, learners are required to discuss ideas, negotiate responsibilities, ask questions, conduct interviews, share information, and present their findings. These communicative tasks provide authentic reasons for using English and encourage students to move beyond mechanical language practice. According to Beckett and Miller (2006), project work promotes communicative language use because students focus on accomplishing meaningful objectives rather than simply practicing grammatical structures. As learners collaborate on projects, they engage in spontaneous conversations that mirror authentic communication outside the classroom. Such interactions contribute to the development of fluency, vocabulary knowledge, pronunciation, and discourse competence.

Project presentations further enhance communication skills by requiring students to organize information, explain ideas clearly, and respond to questions from peers and teachers. These experiences help learners become more confident speakers and improve their ability to communicate effectively in formal and informal contexts. Consequently, PBL supports the development of both linguistic competence and broader communication abilities.

Collaboration is another essential competency emphasized in contemporary educational frameworks. Modern workplaces increasingly require individuals to work effectively in teams, share responsibilities, and cooperate with people from diverse backgrounds. Therefore, educational institutions are expected to prepare learners for collaborative environments through classroom experiences that promote teamwork and interpersonal skills.

Project-Based Learning naturally incorporates collaborative learning because most projects involve group work. Students must cooperate to plan activities, distribute tasks, solve problems, and complete shared objectives. Throughout this process, learners develop important interpersonal skills such as negotiation, conflict resolution, leadership, and decision-making.

Johnson and Johnson (2009) argue that collaborative learning environments encourage greater academic achievement and stronger social relationships than individual learning approaches. Within project groups, learners benefit from exchanging ideas, receiving feedback, and learning from one another's perspectives. Such interactions promote mutual support and collective responsibility for learning outcomes.



Collaboration in PBL also reflects real-world professional practices. In contemporary workplaces, employees frequently work in teams to address complex challenges and achieve organizational goals. By participating in collaborative projects, learners gain practical experience in teamwork and develop skills that will be valuable in their future academic and professional lives.

Moreover, collaborative project work can increase learner motivation and engagement. Students often feel a stronger sense of responsibility when their contributions affect the success of the entire group. This shared accountability encourages active participation and fosters positive attitudes toward learning.

Critical thinking is considered one of the most important educational outcomes of the twenty-first century. It involves the ability to analyze information, evaluate evidence, identify assumptions, solve problems, and make reasoned decisions. In an age characterized by information overload and rapid technological change, critical thinking enables individuals to navigate complex situations effectively.

Project-Based Learning provides an ideal environment for developing critical thinking because projects typically involve open-ended questions, authentic problems, and complex challenges. Rather than receiving predetermined answers from teachers, students are required to investigate issues, gather information, evaluate sources, and develop solutions independently.

Krajcik and Blumenfeld (2006) suggest that project work promotes higher-order thinking by encouraging learners to engage deeply with content and apply knowledge in meaningful contexts. Throughout the project process, students must make decisions regarding research methods, information selection, task organization, and final products. These decision-making processes strengthen analytical and evaluative thinking skills.

Problem-solving is closely connected to critical thinking. Many projects require learners to address real-world issues, overcome obstacles, and adapt their strategies when difficulties arise. Such experiences help students develop resilience, flexibility, and the ability to approach challenges systematically.

In EFL classrooms, problem-solving activities also create meaningful opportunities for language use. Learners discuss possible solutions, justify their opinions, and negotiate decisions using English. Consequently, critical thinking development occurs simultaneously with language practice, making project work particularly valuable for language education.

The growing emphasis on 21st-century skills has significant implications for English language teaching. As educational systems increasingly prioritize communication, collaboration, critical thinking, creativity, and digital literacy, teachers must adopt instructional approaches that support the development of these competencies alongside language proficiency. The findings discussed in this article suggest that Project-Based Learning (PBL) offers a practical and effective framework for achieving these goals. However, successful implementation requires careful planning, appropriate classroom management, and ongoing teacher support.

One of the primary pedagogical implications of PBL is the need to shift from teacher-centered instruction to learner-centered learning environments. Traditional language teaching often positions the teacher as the main source of knowledge, while students assume passive roles as recipients of information. In contrast, PBL encourages students to become active participants in their own learning by investigating authentic questions, conducting research, and creating meaningful products (Bell, 2010). Teachers therefore assume the role of facilitators, guiding learners through the learning process and providing support when necessary.

Effective project design is essential for maximizing learning outcomes. Teachers should select project topics that are relevant, meaningful, and connected to learners' interests and experiences. Authentic projects increase student engagement because learners perceive clear connections between classroom activities and real-world situations (Thomas, 2000). For example, EFL students may design tourism campaigns for their local communities, create environmental awareness projects, conduct surveys on social issues, or develop digital presentations about cultural traditions. Such projects encourage students to use English purposefully while addressing meaningful topics.

Another important consideration involves balancing language objectives with project goals. While projects focus on authentic tasks, language learning should remain a central component of instruction. Teachers need to identify specific linguistic objectives that can be integrated into project activities. These objectives may include vocabulary development, speaking fluency, academic writing, presentation skills, or reading comprehension. By embedding language targets within project work, educators can ensure that learners develop both language proficiency and broader competencies simultaneously (Beckett & Slater, 2005).

Collaboration is a fundamental feature of Project-Based Learning, yet effective group work does not occur automatically. Teachers should explicitly teach collaborative skills such as communication, conflict resolution, decision-making, and leadership. Clear expectations regarding group responsibilities and participation should also be established at the beginning of each project. Regular monitoring and feedback can help ensure that all learners contribute meaningfully to group tasks and benefit from collaborative experiences.

Assessment represents another significant challenge in project-based environments. Traditional assessment methods often focus on individual performance and factual knowledge, whereas PBL requires evaluation

of both processes and products. Therefore, teachers should adopt a variety of assessment strategies that reflect the multifaceted nature of project work. Rubrics, self-assessment, peer assessment, presentations, reflective journals, and portfolios can provide valuable information about learners' progress and achievement (Larmer et al., 2015). These assessment methods encourage students to reflect on their learning and take greater responsibility for their development.

Technology integration is also crucial for effective implementation of PBL in contemporary classrooms. Digital tools can support research, collaboration, communication, and presentation activities. Students may use online resources to gather information, collaborative platforms to work with peers, and multimedia applications to create project products. Such experiences contribute to the development of digital literacy while enhancing language learning opportunities (Voogt & Roblin, 2012). Teachers should therefore seek opportunities to incorporate appropriate technologies into project-based activities whenever possible.

Professional development is equally important for successful implementation. Some teachers may be unfamiliar with project-based approaches or may feel uncertain about managing student-centered classrooms. Ongoing training, workshops, and professional learning communities can help educators develop the knowledge and skills necessary to design and facilitate effective projects. Furthermore, institutional support from school leaders and policymakers is essential for creating conditions that encourage innovative teaching practices.

Despite its many benefits, Project-Based Learning may present challenges in some educational contexts. Large class sizes, limited instructional time, examination-oriented curricula, and insufficient technological resources can create obstacles to implementation. However, these challenges do not necessarily prevent the use of project-based approaches. Teachers can adapt projects to local conditions by selecting manageable topics, using available resources, and integrating projects gradually into existing curricula.

Ultimately, Project-Based Learning provides an effective means of preparing EFL learners for the demands of contemporary society. By engaging students in authentic tasks that require communication, collaboration, critical thinking, creativity, and technology use, PBL supports the development of both language proficiency and essential life skills. As educational priorities continue to evolve, project-based approaches are likely to play an increasingly important role in language education.

CONCLUSION

The demands of the twenty-first century require educational approaches that extend beyond the transmission of knowledge and support the development of transferable skills necessary for lifelong success. In English language education, learners must develop not only linguistic competence but also communication, collaboration, critical thinking, creativity, digital literacy, and learner autonomy. These competencies are essential for participation in an increasingly interconnected and technology-driven world.

This article has explored the effectiveness of Project-Based Learning in developing 21st-century skills among EFL learners. Drawing on relevant literature and theoretical perspectives, the discussion has demonstrated that PBL creates meaningful learning experiences by engaging students in authentic tasks that connect language learning with real-world contexts. Through project work, learners actively construct knowledge, collaborate with peers, solve problems, conduct research, and present their findings, thereby integrating language development with broader educational objectives.

The review indicates that Project-Based Learning contributes significantly to the development of communication skills by providing authentic opportunities for language use. It also promotes collaboration through teamwork, enhances critical thinking through inquiry and problem-solving, and fosters creativity through the design of innovative products and solutions. Furthermore, project-based environments encourage digital literacy and learner autonomy, both of which are increasingly important in modern educational and professional settings.

The pedagogical implications discussed in this article highlight the importance of thoughtful planning, effective facilitation, and appropriate assessment practices. Teachers play a crucial role in creating supportive learning environments where students can engage actively in project work and develop the skills required for future success. Although challenges such as limited resources, large class sizes, and curriculum constraints may affect implementation, the benefits of PBL suggest that it remains a valuable instructional approach for contemporary language classrooms.

In conclusion, Project-Based Learning represents a powerful pedagogical strategy for integrating language learning with the development of 21st-century skills. By encouraging active participation, authentic communication, collaboration, and independent learning, PBL helps prepare EFL learners to become competent language users and successful participants in a rapidly changing global society. Future research may further explore the long-term impact of project-based approaches on language proficiency, academic achievement, and workplace readiness in diverse educational contexts.



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- 13.00.00 Pedagogika fanlari
 - 13.00.01 Pedagogika nazariyasi. Pedagogik ta'limotlar tarixi
 - 13.00.02 Ta'lim va tarbiya nazariyasi va metodikasi (sohalar bo'yicha)
 - 13.00.03 Maxsus pedagogika
 - 13.00.04 Jismoniy tarbiya va sport mashg'ulotlari nazariyasi va metodikasi
 - 13.00.05 Kasb-hunar ta'limi nazariyasi va metodikasi
 - 13.00.06 Elektron ta'lim nazariyasi va metodikasi (ta'lim sohaları va bosqichlari bo'yicha)
 - 13.00.07 Ta'limda menejment
 - 13.00.08 Maktabgacha ta'lim va tarbiya nazariyasi va metodikasi
 - 13.00.09 Ijtimoiy pedagogika
 - 07.00.00 Tarix fanlari
 - 19.00.00 Psixologiya fanlari
 - 01.00.00 Fizika-matematika fanlari
 - 02.00.00 Kimyo fanlari
 - 03.00.00 Biologiya fanlari
 - 09.00.00 Falsafa fanlari
 - 10.00.00 Filologiya fanlari
 - 11.00.00 Geografiya fanlari



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2026. №6(3)

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"Maktabgacha va maktab ta'limi" jurnali 26.09.2023-yildan O'zbekiston Respublikasi Prezidenti Adminstratsiyasi huzuridagi Axborot va ommaviy kommunikatsiyalar agentligi tomonidan №C-5669363 reyestr raqami tartibi bo'yicha ro'yxatdan o'tkazilgan.
Litsenziya raqami: № 136361.

Manzirimiz: Toshkent shahar, Yunusobod tumani
19-mavze, 17-uy.