

# MUHANDISLIK

## & IQTISODIYOT

*ijtimoiy-iqtisodiy, innovatsion texnik,  
fan va ta'limga oid ilmiy-amaliy jurnal*

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ТАШКЕНТСКИЙ ФИЛИАЛ



# **muhandislik** **& iqtisodiyot**

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- 05.01.00 – Axborot texnologiyalari, boshqaruv va kompyuter grafikasi
- 05.01.01 – Muhandislik geometriyasi va kompyuter grafikasi. Audio va video texnologiyalari
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- 05.01.03 – Informatikaning nazariy asoslari
- 05.01.04 – Hisoblash mashinalari, majmualari va kompyuter tarmoqlarining matematik va dasturiy ta'minoti
- 05.01.05 – Axborotlarni himoyalash usullari va tizimlari. Axborot xavfsizligi
- 05.01.06 – Hisoblash texnikasi va boshqaruv tizimlarining elementlari va qurilmalari
- 05.01.07 – Matematik modellashtirish
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- 05.02.00 – Mashinasozlik va mashinashunoslik
- 05.02.08 – Yer usti majmualari va uchish apparatlari
- 05.03.02 – Metrologiya va metrologiya ta'minoti
- 05.04.01 – Telekommunikatsiya va kompyuter tizimlari, telekommunikatsiya tarmoqlari va qurilmalari. Axborotlarni taqsimlash
- 05.05.03 – Yorug'lik texnikasi. Maxsus yoritish texnologiyasi
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- 05.05.06 – Qayta tiklanadigan energiya turlari asosidagi energiya qurilmalari
- 05.06.01 – To'qimachilik va yengil sanoat ishlab chiqarishlari materialshunosligi
- 05.08.03 – Temir yo'l transportini ishlatish
- 05.08.06 – "G'ildirakli va gusenisali mashinalar va ularni ishlatish" (texnika fanlari)
- 05.09.01 – Qurilish konstruksiyalari, bino va inshootlar
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# THE REPRESENTATION OF RESTRICTED LEXICON IN FRENCH LITERARY WORKS

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**Abstract.** Restricted lexicon refers to words and expressions that are limited in use due to social, cultural, stylistic, or ethical considerations. In French literature, such vocabulary includes slang, argot, taboo words, vulgarisms, dialectal expressions, and sociolects that reflect the identity of particular social groups. The use of restricted lexicon in literary texts serves various artistic functions, including character development, realism, social criticism, and the representation of cultural diversity. This article examines the role, functions, and stylistic significance of restricted lexicon in French literary works, highlighting how authors employ these linguistic elements to enrich narrative discourse and convey complex social realities.

**Keywords:** restricted lexicon, French literature, argot, slang, taboo language, stylistics, sociolinguistics, literary language.

**Annotatsiya.** Cheklangan leksika ijtimoiy, madaniy, uslubiy yoki axloqiy omillar sababli qo'llanish doirasi cheklangan so'z va iboralarni anglatadi. Fransuz adabiyotida bunday lug'aviy birliklarga sleng, argo, tabu so'zlar, vulgarizmlar, dialektal ifodalalar va muayyan ijtimoiy guruhlarining o'ziga xosligini aks ettiruvchi sotsiolektlar kiradi. Badiiy matnlarda cheklangan leksikadan foydalanish obraz yaratish, realizmni kuchaytirish, ijtimoiy tanqid va madaniy xilma-xillikni ifodalash kabi turli badiiy vazifalarni bajaradi. Ushbu maqolada fransuz adabiy asarlarida cheklangan leksikaning o'rni, vazifalari va uslubiy ahamiyati tahlil qilinadi hamda mualliflar mazkur lingvistik birliklar orqali badiiy nutqni boyitishi va murakkab ijtimoiy voqe-liklarni ifodalashi yoritiladi.

**Kalit so'zlar:** cheklangan leksika, fransuz adabiyoti, argo, sleng, tabu til, stilistika, sotsiolingvistika, badiiy til.

**Аннотация.** Лексика ограниченного употребления представляет собой слова и выражения, использование которых ограничено социальными, культурными, стилистическими или этическими факторами. Во французской литературе к такой лексике относятся сленг, арг, табуированная лексика, вульгаризмы, диалектные выражения и социолекты, отражающие идентичность отдельных социальных групп. Использование лексики ограниченного употребления в художественных текстах выполняет различные художественные функции, включая создание образа персонажа, усиление реализма, социальную критику и отражение культурного многообразия. В данной статье рассматриваются роль, функции и стилистическое значение лексики ограниченного употребления во французских литературных произведениях, а также анализируется, каким образом авторы используют данные языковые элементы для обогащения повествовательного дискурса и передачи сложных социальных реалий.

**Ключевые слова:** лексика ограниченного употребления, французская литература, арг, сленг, табуированная лексика, стилстика, социолингвистика, художественный язык.

## INTRODUCTION

Language is one of the principal means through which writers represent social reality and human experience. Literary texts often incorporate lexical elements that deviate from standard language norms in order to reflect the diversity of social life. Among these elements, restricted lexicon occupies a significant position because it allows authors to reproduce authentic speech patterns and express social identities.

In French literature, the use of restricted vocabulary has attracted scholarly attention due to its close connection with social stratification and cultural representation. Writers such as Victor Hugo, Émile Zola, and Louis-Ferdinand Céline frequently employed argot, colloquial expressions, and non-standard vocabulary to depict the realities of socially disadvantaged groups and working-class life. Despite numerous studies on French literary language, the stylistic and communicative functions of restricted lexicon remain an important area of investigation.

The purpose of this study is to examine how restricted lexical units are represented in French literary works and to identify their major functions within literary discourse.

## LITERATURE REVIEW

The study of restricted lexicon in French literature is closely connected with sociolinguistic approaches to

language variation. Gadet emphasizes that French is not a homogeneous linguistic system, but a language shaped by social, regional, and stylistic differences [1]. From this perspective, non-standard vocabulary, including argot, slang, vulgarisms, and colloquial expressions, should not be understood merely as incorrect or marginal language. Rather, such lexical units reflect the social position, cultural background, and communicative environment of speakers. Calvet also notes that language variation is directly related to social relations, identity, and power structures [2]. These ideas provide a theoretical basis for analyzing restricted lexicon in literary texts, where linguistic deviation often becomes a meaningful artistic device.

In French literary tradition, restricted lexicon has been used by many authors to represent social reality more convincingly. Victor Hugo's *Les Misérables* contains numerous examples of argot, especially in the depiction of lower social groups and specific social environments [3]. In this context, argot functions not only as a stylistic ornament but also as a marker of social exclusion and group identity. Similarly, Émile Zola's *Germinal* demonstrates how professional, colloquial, and working-class vocabulary can help reconstruct the atmosphere of industrial society [4]. Through such lexical choices, the author brings literary language closer to everyday speech and strengthens the realistic representation of nineteenth-century French life.

The stylistic value of restricted lexicon becomes especially visible in the works of Louis-Ferdinand Céline. In *Voyage au bout de la nuit*, slang, vulgarisms, and expressive colloquial forms create a tense, emotionally charged narrative voice [5]. This confirms the view that restricted vocabulary may serve not only social or realistic purposes but also aesthetic and psychological functions. Charaudeau and Maingueneau's discourse-oriented approach also supports the idea that lexical choices in a text are connected with communicative intention, speaker position, and context [6]. Therefore, previous studies suggest that restricted lexicon in French literature should be analyzed as a complex phenomenon combining linguistic variation, social representation, and literary expressiveness.

## RESEARCH METHODOLOGY

The study employs qualitative linguistic and literary analysis methods. The research material consists of selected French literary works, including Victor Hugo's *Les Misérables*, Émile Zola's *Germinal*, and Louis-Ferdinand Céline's *Voyage au bout de la nuit*. These texts were selected because they contain a substantial number of non-standard lexical forms and provide representative examples of restricted vocabulary usage.

The analysis is based on descriptive, stylistic, and sociolinguistic approaches. The descriptive method was used to identify different categories of restricted lexicon, including argot, slang, vulgarisms, and taboo expressions. The stylistic approach enabled the examination of the artistic functions of these lexical items within literary texts. In addition, the sociolinguistic method was employed to investigate the relationship between linguistic variation and social identity.

The collected examples were classified according to their communicative and stylistic functions, allowing a systematic evaluation of their role in literary discourse.

## ANALYSIS AND RESULTS

The analysis revealed that restricted lexicon performs several significant functions in French literary works.

First, restricted vocabulary serves as an effective means of characterization. Authors use non-standard lexical forms to indicate the social status, educational background, and cultural identity of literary characters. In *Les Misérables*, for example, the frequent use of argot by lower-class characters differentiates them from members of the educated elite and contributes to realistic character portrayal.

Second, restricted lexicon enhances literary realism. The works of Émile Zola demonstrate how colloquial and professional vocabulary can recreate authentic social environments. The use of miners' and workers' speech patterns in *Germinal* allows readers to experience the social realities of nineteenth-century industrial France.

Third, restricted vocabulary functions as a tool of social criticism. The language of marginalized groups often reflects social inequalities and social relations and hierarchical structures. Through the representation of non-standard speech, French authors draw attention to social inequality, exclusion, and difficult living conditions.

Finally, restricted lexical units contribute to emotional expressiveness. The analysis of Céline's novels indicates that slang expressions, vulgarisms, and taboo words intensify emotional impact and create a dynamic narrative style. Such vocabulary helps convey psychological tension and subjective experience more effectively than neutral language.

The findings suggest that restricted lexicon constitutes an essential component of French literary language



rather than a mere deviation from linguistic norms. The presence of argot, slang, and other non-standard lexical forms reflects the social diversity of French society and allows authors to create more authentic literary worlds.

The results are consistent with sociolinguistic theories that regard language variation as an indicator of social identity. Restricted vocabulary functions as a marker of class membership, professional affiliation, regional background, and cultural belonging. Consequently, literary texts employing such vocabulary provide valuable insights into social structures and cultural dynamics.

Moreover, the artistic significance of restricted lexicon extends beyond realism. By incorporating non-standard language, authors challenge traditional literary conventions and enrich stylistic expression. The use of restricted vocabulary enables the creation of distinctive narrative voices and contributes to the aesthetic complexity of literary discourse.

Therefore, restricted lexicon should be viewed not only as a linguistic phenomenon but also as an important literary device that connects language, culture, and society.

## CONCLUSION AND SUGGESTIONS

The study demonstrates that restricted lexicon plays a crucial role in French literary works. Through argot, slang, vulgarisms, and other non-standard lexical forms, French authors achieve realism, develop characters, express emotions, and critique social conditions. The analysis confirms that restricted vocabulary functions as both a linguistic and artistic resource, contributing significantly to the communicative and aesthetic value of literary texts.

Future research may focus on the representation of restricted lexicon in contemporary French literature and digital literary discourse, where new forms of linguistic variation continue to emerge.

### References

1. Gadet, F. *La variation sociale en français*. – Paris : Ophrys, 2007. – 186 p.
2. Calvet, L.-J. *La sociolinguistique*. – 9e éd. – Paris : Presses Universitaires de France, 2017. – 128 p.
3. Hugo, V. *Les Misérables*. – Paris : Le Livre de Poche, 1998. – 2 tomes.
4. Zola, É. *Germinal*. – Paris : Le Livre de Poche, 1971. – 608 p.
5. Céline, L.-F. *Voyage au bout de la nuit*. – Paris : Gallimard, 1952. – 624 p.
6. Charaudeau, P., Maingueneau, D. *Dictionnaire d'analyse du discours*. – Paris : Seuil, 2002. – 661 p.
7. Centre National de Ressources Textuelles et Lexicales (CNRTL). – URL: <https://www.cnrtl.fr> (accessed: 21.06.2026).
8. Bibliothèque nationale de France (BNF). – URL: <https://www.bnf.fr> (accessed: 21.06.2026).
9. Persée – Portail de revues scientifiques en sciences humaines et sociales. – URL: <https://www.persee.fr> (accessed: 21.06.2026).

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