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## **School Life in Educational Institutions in Morocco: A Comprehensive Review**

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### **Abstract**

This article provides a comprehensive review of school life in educational institutions across Morocco, examining how cultural, social, and economic factors shape the student experience. It analyzes key components, including curriculum structure, student-teacher relationships, extracurricular opportunities, and the role of discipline and school policies. Through an exploration of the disparities between urban and rural schools, this review highlights the ongoing challenges of educational inequality, resource allocation, and mental health support within the Moroccan school system. Additionally, recent reforms aimed at modernizing education and improving accessibility, such as the Vision 2015-2030 Education Strategy, are discussed to understand their impact on Moroccan school life. This review concludes with recommendations for policymakers to address identified challenges and improve student outcomes.

**Keywords:** Moroccan education, school life, educational inequality, curriculum, student well-being, mental health, educational reform, Vision 2015-2030.

### **1. Introduction**

The Moroccan education system has evolved significantly over the past few decades, reflecting a blend of traditional values, colonial legacies, and recent modernization efforts. Rooted initially in religious education through *madrassas*—institutions focused on Islamic studies—the system was transformed during the French colonial period, introducing Western educational models that created a dual structure of traditional and secular schools [1]. Since gaining independence in 1956, Morocco has actively sought to create a unified educational framework, balancing cultural heritage with global educational standards. Today, the system is managed by the Ministry of Education, which oversees primary, secondary, and higher education across public and private institutions, with a focus on making education accessible and equitable [2].

Recent reforms, particularly the Vision 2015-2030 Education Strategy, have aimed to address structural issues and improve quality across the education sector [3]. This strategy emphasizes three primary goals: enhancing educational quality, ensuring equal opportunities, and aligning education with job market demands. By incorporating STEM (science,

technology, engineering, and mathematics) subjects, promoting multilingual proficiency, and integrating digital tools, the Ministry seeks to prepare students for the modern economy while maintaining a strong sense of national identity [4].

Studying school life in Morocco is essential for several reasons. Schools serve as critical environments for academic and social development, where students learn essential skills, interact with peers and mentors, and begin to form their identities. However, these institutions also mirror broader societal challenges, including economic disparities and regional inequalities. For example, students in rural areas often face different educational experiences from their urban counterparts due to disparities in resources and facilities [5]. By examining Moroccan school life in depth, this review provides insights into the successes and challenges within the system, addressing how factors like educational reform, resource allocation, and mental health support affect student outcomes.

This review will explore various aspects of school life in Morocco, including the structure and content of the curriculum, the dynamics of student-teacher interactions, the availability and influence of extracurricular activities, and the impact of disciplinary policies. The study will also analyze the current challenges facing Moroccan schools, such as educational inequality, resource allocation, and mental health concerns, which affect both student well-being and academic achievement. Furthermore, recent reforms will be discussed to assess their influence on the school environment, identifying areas where improvements could be made to enhance student experiences and educational outcomes.

## 2. Historical Background of Education in Morocco

The history of education in Morocco is marked by significant evolution, influenced by a mix of indigenous practices, colonial legacies, and modern reforms. This section traces these historical developments and the impact of recent policies on Moroccan school life.

### 2.1 Traditional Education System

Education in Morocco initially revolved around *madrassas*, which served as institutions focused on Islamic teachings and basic literacy. These traditional schools primarily provided religious instruction, covering the Quran, Arabic grammar, and basic arithmetic, forming the foundation of Moroccan educational practices for centuries [1]. *Madrassas* were prevalent in both rural and urban regions, offering moral

education and shaping the intellectual landscape of Moroccan society [2].

### 2.2 Colonial Influence and the Introduction of Western Education

The advent of French colonial rule in 1912 significantly altered the Moroccan education system. The French administration introduced secular schools and a Western curriculum, creating a dual system that existed alongside traditional *madrassas* [3]. This new educational approach focused on educating Moroccan elites and French settlers' children, preparing them for administrative roles within the colonial government. However, this dual system led to stark educational inequalities, favoring urban populations and marginalized rural areas, a disparity that persisted long after independence [4].

### 2.3 Post-Independence Reforms

Following Morocco's independence in 1956, the government sought to unify the education system and promote national identity. This period marked a shift towards "Moroccanizing" education, prioritizing Arabic and Islamic studies while gradually reducing the French influence that had been dominant during colonial rule [5]. However, rapid expansion to meet the needs of a growing population created challenges, including teacher shortages, lack of infrastructure, and continued disparities between urban and rural schools. Although these reforms were aimed at fostering national cohesion and providing equal opportunities, the differences in educational quality across regions remained [6].

### 2.4 Recent Reforms: Vision 2015-2030 Education Strategy

In response to ongoing challenges, the Moroccan government implemented the Vision 2015-2030 Education Strategy, a comprehensive reform plan focused on enhancing quality, equity, and employability in education. This strategy has introduced significant changes in the following areas:

- ❖ **Focus on STEM and Multilingualism:** With the growing need to modernize the education system, curriculum updates now emphasize STEM (science, technology, engineering, and mathematics) and multilingual proficiency. English and French have been integrated as critical secondary languages to improve students' global competitiveness [7].
- ❖ **Digital Integration:** The Vision 2015-2030 strategy also emphasizes digital integration in classrooms, with initiatives that include e-learning platforms and digital

resources to make education more accessible and engaging for students across Morocco [8].

- ❖ **Inclusive Education and Equal Opportunity:** Efforts have been made to reduce inequalities by improving infrastructure and funding in rural schools and offering incentives for teachers to work in underserved areas. This aims to lower dropout rates and ensure equal access to quality education for all Moroccan students [9].
- ❖ **Teacher Training and Development:** Recognizing teachers' pivotal role in shaping education quality, the strategy prioritizes continuous professional development, with new training programs in student-centered teaching methods and modern pedagogical practices [10].

These reforms seek to address the historical inequalities embedded in the Moroccan education system and bring the system closer to international standards. Challenges remain, however, including securing sufficient funding, reducing dropout rates, and overcoming socio-cultural barriers in rural areas [11]. By understanding Morocco's educational history and recent reforms, we gain insight into both the achievements and ongoing challenges that shape Moroccan school life today.

### 3. Components of School Life in Morocco

This section provides an in-depth look at the core components of school life in Morocco, covering the curriculum, extracurricular opportunities, teacher-student interactions, and school policies that shape the educational experience for Moroccan students.

#### 3.1 Academic Structure and Curriculum

The curriculum in Moroccan schools is centrally managed by the Ministry of Education and follows a standardized structure across primary, secondary, and higher education. Core subjects include Arabic, French, mathematics, science, and social studies, with an increasing emphasis on English as a third language to promote multilingual proficiency. In recent years, there has been a strong push towards integrating STEM (science, technology, engineering, and mathematics) subjects in both primary and secondary education, as part of Morocco's Vision 2015-2030 Education Strategy [12].

Teaching methods in Moroccan schools are gradually shifting from traditional, lecture-based approaches to more interactive, student-centered techniques. However, large class sizes in public schools, particularly in urban areas, often limit teachers' ability to implement these methods effectively [13]. Assessment methods vary by level, with standardized tests being common in primary and secondary education,

culminating in the *Baccalauréat* exam, which plays a pivotal role in determining students' eligibility for higher education [14].

#### 3.2 Extracurricular Activities

Extracurricular activities are considered essential for holistic student development, offering opportunities for students to explore their interests outside of academics. However, the availability of these activities varies significantly between urban and rural schools. Urban schools, particularly in the private sector, often provide a wide range of extracurricular options, including sports, arts, music, and various academic clubs, which encourage skills like teamwork, creativity, and leadership [15].

In contrast, rural schools face resource constraints, which limit access to such activities. Many students in these areas lack opportunities to participate in organized sports or clubs, impacting their overall school experience and personal growth. Recent reforms aim to address these disparities by promoting community partnerships and funding initiatives to support extracurricular programs in underserved areas [16].

#### 3.3 Teacher-Student Relationships

The teacher-student relationship in Moroccan schools is traditionally hierarchical, with teachers often viewed as authority figures. This dynamic, while respectful, sometimes limits open communication and student engagement. In urban schools, particularly in private institutions, there has been a gradual shift toward more collaborative and interactive teaching methods, fostering a more supportive environment where students feel comfortable participating in class discussions [17].

Class sizes are a crucial factor affecting teacher-student interactions. Public schools, especially in urban centers, often have large classes, making it challenging for teachers to provide individualized attention. This can lead to a less personalized learning experience and impact students' academic performance, particularly for those who may require additional support [18]. Recent professional development programs aim to equip teachers with modern teaching strategies to enhance engagement, even in larger classroom settings [19].

#### 3.4 Discipline and School Policies

Disciplinary measures and school policies are fundamental to maintaining a safe and respectful learning environment.

Moroccan schools generally enforce a structured code of conduct, emphasizing respect, responsibility, and punctuality. In recent years, traditional forms of discipline, such as corporal punishment, have been officially prohibited in schools, although some traditional methods may persist, especially in rural areas [20].

Modern disciplinary policies increasingly focus on positive reinforcement and guidance rather than punitive measures. Some schools have introduced counseling services, primarily in urban areas, to help students manage behavioral issues and promote a supportive atmosphere. These policies aim to create an environment conducive to both academic and personal growth, aligning with the goals set out in the Vision 2015-2030 strategy [21].

#### 4. Current Challenges and Issues

Despite ongoing reforms and improvements, the Moroccan education system faces several significant challenges that impact students' experiences and outcomes. This section examines three key issues: educational inequality, student well-being and mental health, and resource allocation within schools.

##### 4.1 Educational Inequality

Educational inequality is a persistent challenge within the Moroccan school system, particularly in terms of the urban-rural divide and disparities between public and private schools. Urban schools, especially private institutions, generally offer better facilities, smaller class sizes, and a wider range of resources, giving students in these environments a significant advantage over their rural and public school counterparts [22]. In rural areas, schools often lack basic infrastructure such as electricity, clean water, and sufficient classroom space, which hinders students' ability to learn in a conducive environment.

The contrast between private and public schools is equally stark. Private schools, which are more accessible to families with higher incomes, typically have well-maintained facilities, advanced technology, and a more extensive curriculum, while public schools often struggle with large class sizes and limited resources [23]. These disparities result in unequal educational opportunities, leading to different academic outcomes and limited upward mobility for students in less privileged settings. Recent policies within the Vision 2015-2030 strategy aim to address these issues by increasing funding and resources for rural and public schools, though the impacts of these measures are still unfolding [24].

##### 4.2 Student Well-being and Mental Health

Student well-being and mental health have become increasingly recognized as critical components of the educational experience in Morocco. High-stakes exams, particularly the *Baccalauréat*, contribute to considerable stress among students, who often feel pressured to perform well due to societal and family expectations. The competitive nature of the exam can lead to anxiety and other mental health issues, especially as students approach the end of secondary school [25].

In urban schools, some mental health support systems are available, including guidance counselors and access to limited psychological services. However, these resources are scarce, particularly in public and rural schools, where students face the additional stressors of inadequate facilities and limited academic support. Although awareness of mental health issues is growing, cultural stigma surrounding mental health remains a barrier to effective support, preventing many students from seeking help when they need it [26]. Recent initiatives have encouraged a more holistic approach to student well-being, but there is still a need for comprehensive policies and mental health services accessible to all students [27].

##### 4.3 Resource Allocation

Resource allocation remains a central challenge in Moroccan schools, impacting the quality of education and students' overall learning environment. Public schools, which serve the majority of students, often operate with limited funding, affecting their ability to maintain facilities, provide updated materials, and implement modern teaching tools [28]. Rural schools, in particular, face severe shortages in essential resources, with some schools lacking libraries, laboratories, or basic digital technology, which restricts students' access to a well-rounded education [29].

Private schools, on the other hand, generally have better funding and can afford smaller class sizes, updated materials, and advanced technology, creating an educational environment that better meets the demands of modern curricula. While private education offers an alternative for families who can afford it, the gap between public and private schools reinforces social inequalities and creates a system in which access to quality education is tied to socioeconomic status [30].

Efforts to improve resource allocation include government initiatives to increase funding for public schools, especially in underprivileged areas. The Vision 2015-2030 strategy emphasizes equal access to quality education by targeting

rural schools and enhancing infrastructure and resources in public institutions. However, the effectiveness of these initiatives depends on consistent funding and long-term planning to ensure that resource allocation aligns with the needs of all students [31].

## **5. Cultural and Social Influences on School Life**

Cultural values and societal norms significantly shape the educational experience in Morocco, influencing how students, teachers, and communities engage with the schooling process. This section examines the impact of Moroccan cultural values, gender expectations, family background, and socioeconomic status on school life, each of which plays a crucial role in determining educational opportunities and experiences for students.

### **5.1 Influence of Cultural Values and Societal Norms**

Moroccan culture places a high value on respect for authority and community cohesion, principles that are deeply embedded within the school environment. The traditional respect accorded to teachers and elders is mirrored in classroom dynamics, where teachers are often viewed as authoritative figures, and students are expected to maintain a respectful and disciplined demeanor [32]. This structure reinforces a sense of order and respect within the educational system but can also limit open dialogue and interactive learning in some settings.

Religious and cultural festivals also play a role in school life, shaping the school calendar and creating opportunities for students to learn about and celebrate Moroccan heritage collectively. Schools often integrate national and religious holidays, such as Eid and the Throne Day, into the curriculum, reinforcing cultural identity and fostering a sense of national pride among students [33].

### **5.2 Gender and Educational Experiences**

Gender norms in Moroccan society influence school experiences, though gender equality has improved over recent years due to targeted educational policies. In urban areas, boys and girls generally have similar access to education, and the Ministry of Education has worked to close gender gaps in enrollment and academic achievement [34]. However, in more conservative rural regions, traditional views on gender roles persist, affecting female students' participation in school. In some areas, girls are more likely to drop out due to early marriage or family responsibilities, limiting their educational and career opportunities [35].

Efforts to promote gender equality in education are part of the Vision 2015-2030 strategy, which aims to increase female enrollment and reduce dropout rates among girls by providing scholarships, improving rural school facilities, and promoting community awareness about the importance of girls' education [36]. While progress is evident, further efforts are necessary to address deep-rooted cultural norms that still impact educational opportunities for girls, especially in rural regions.

### **5.3 Family Background and Parental Expectations**

Family background plays a crucial role in shaping students' attitudes toward education and their academic performance. Many Moroccan families place a high value on education as a means of social and economic advancement, often encouraging their children to excel academically. Parental support and expectations can significantly impact student motivation, particularly in urban areas where families might have greater access to resources and educational support [37].

In rural areas, however, economic challenges and limited access to educational resources may prevent some families from fully supporting their children's schooling. For example, students from low-income families may need to contribute to household income or perform chores, limiting their time and energy for schoolwork. In such cases, financial strain and parental expectations for immediate economic contributions can overshadow the long-term benefits of education, particularly for girls [38].

### **5.4 Socioeconomic Status and Access to Quality Education**

Socioeconomic status is a major determinant of educational access and quality in Morocco. Students from wealthier families typically have access to private schools with better facilities, smaller class sizes, and more extracurricular opportunities. In contrast, students from lower-income backgrounds often rely on public schools, which may have larger class sizes, fewer resources, and limited academic support [39]. These disparities contribute to an uneven playing field, where students' socioeconomic backgrounds heavily influence their educational outcomes.

To address these issues, government initiatives within the Vision 2015-2030 strategy aim to provide financial support to underprivileged students, improve rural school infrastructure, and reduce the cost barriers that prevent low-income families from prioritizing education. These policies seek to create a more equitable education system, but achieving socioeconomic parity in education remains a long-term challenge in Moroccan society [40].

## 6. Recent Reforms and Innovations

Recent educational reforms in Morocco have focused on modernizing the school system, addressing inequalities, and preparing students for the demands of a globalized economy. These reforms emphasize technology integration, curriculum updates, and partnerships aimed at improving quality and accessibility across the education sector.

### 6.1 Vision 2015-2030 Education Strategy

The Vision 2015-2030 Education Strategy, implemented by the Ministry of Education, is the cornerstone of Morocco's recent educational reforms. This long-term plan aims to create a more inclusive, accessible, and high-quality educational system by addressing key issues such as teacher training, resource allocation, and curriculum relevance. The strategy prioritizes three main goals: enhancing educational quality, ensuring equitable access to education, and aligning educational outcomes with labor market needs [41].

One of the central reforms within this strategy is a focus on STEM (science, technology, engineering, and mathematics) education. STEM subjects have been emphasized at all levels, with updated curricula designed to equip students with critical thinking, problem-solving, and digital literacy skills. Additionally, multilingual education has been strengthened, particularly with English, which is increasingly viewed as essential for global communication and job prospects [42].

### 6.2 Technology Integration and Digital Learning

To modernize education and make it more engaging, Morocco has begun integrating technology into classrooms as part of Vision 2015-2030. The use of digital tools and e-learning platforms aims to provide students with interactive learning experiences and support remote learning, particularly beneficial during the COVID-19 pandemic [43]. Several pilot projects have been introduced to expand digital education in both urban and rural areas, equipping classrooms with tablets, projectors, and internet connectivity.

One such initiative is the "Digital School" project, which seeks to introduce tablets and computers to under-resourced schools, providing students with access to online educational resources and interactive lessons. These tools help students develop digital skills and enable teachers to diversify their teaching methods. Although this initiative is in its early stages, it represents a significant step toward narrowing the digital divide between urban and rural students [44].

## 6.3 Partnerships and International Collaboration

Morocco has partnered with various international organizations to enhance educational quality and expand access to resources. UNICEF and UNESCO have supported Moroccan initiatives to improve teacher training, promote inclusive education, and address issues such as gender inequality in schools [45]. These partnerships have facilitated knowledge exchange and introduced successful practices from other education systems worldwide, helping Morocco implement evidence-based improvements.

In addition, Morocco has collaborated with private sector partners to introduce career-oriented training programs in schools, particularly in technology and vocational fields. Programs like "Intel Youth Innovation" and "Microsoft Imagine Academy" aim to equip students with practical skills for the labor market, supporting Morocco's goal to produce a skilled and competitive workforce [46]. These partnerships also help to bridge the gap between education and employment by aligning school curricula with real-world demands.

### 6.4 Pilot Projects for Rural and Underserved Communities

Recognizing the challenges faced by rural and underserved communities, the Moroccan government has launched pilot projects targeting these areas to improve access to quality education. For example, mobile classrooms and "community schools" have been introduced in remote regions to provide basic education to children who would otherwise lack access [47]. These projects aim to reduce dropout rates by bringing education closer to students' homes and addressing the specific needs of rural communities.

Furthermore, scholarship programs and financial incentives have been established to encourage students from low-income families to pursue secondary and higher education. These initiatives aim to reduce economic barriers and foster a more inclusive education system that provides equal opportunities for all Moroccan students, regardless of their background or location [48].

## Conclusion

The analysis of school life in Moroccan educational institutions presents a multifaceted picture shaped by historical influences, socio-cultural norms, and recent reforms aimed at advancing educational quality and accessibility. Key findings indicate that, despite improvements in accessibility,

curriculum innovation, and resource allocation, significant challenges persist. Educational inequality is a prominent issue, with marked disparities between urban and rural areas, and between public and private schools. Students in rural and economically disadvantaged areas often experience limited resources, larger class sizes, and fewer extracurricular options, which collectively affect their educational outcomes and future prospects.

The Vision 2015-2030 Education Strategy has introduced promising reforms, focusing on areas such as STEM education, multilingual proficiency, digital integration, and teacher development. These initiatives aim to equip students with essential skills for the global workforce and reduce educational disparities. Collaborative efforts with international organizations and the private sector, as well as pilot projects for underserved communities, reflect a growing commitment to fostering inclusivity within the education system.

To continue improving school life in Morocco, several key areas warrant further attention. Enhanced resource allocation for rural schools, including better facilities, technology, and extracurricular support, is essential to bridging the urban-rural divide. Strengthening mental health support within schools, with an emphasis on counseling services and stress management programs, would contribute to a more supportive learning environment for students. Additionally, investing in teacher training, particularly in modern pedagogical methods, and creating retention incentives for educators in rural areas can elevate teaching quality and address staffing shortages.

Further research on educational inequality, focusing on the causes and effects of disparities across the Moroccan education system, can provide insights for more targeted policies. Strengthening family and community engagement, particularly in rural areas, could also foster a positive cultural shift in attitudes toward education, especially for girls. By addressing these areas, Morocco can build on its progress, moving closer to a future where every student experiences an enriching, supportive, and high-quality education.

## References

1. M. Kaouni, F. Lakrami, and O. Labouidya, "A Review of the State of Higher Education in Morocco at the Time of Covid-19," in *Proceedings of the 5th International Conference on Big Data and Internet of Things*, 2022, pp. 245–260.
2. A. El Bakkali, "The Power of Distributed Leadership Styles in Education Practices: The New Challenges and Perspectives of the Moroccan School," *Open Journal of Leadership*, vol. 10, no. 1, pp. 1–12, 2021.
3. H. Baba, "Comparative Study between the Best-Performing Education Systems of the Five Continents and That of Morocco," *Journal of Hunan University Natural Sciences*, vol. 48, no. 3, pp. 1–10, 2021.
4. M. Garcia-Torres, "Analysis of Student Achievement Scores via Cluster Analysis," in *Advances in Intelligent Systems and Computing*, vol. 1200, pp. 1–10, 2020.
5. R. Doneva, "Regression Analysis of Student Academic Performance Using Deep Learning," *Education and Information Technologies*, vol. 25, no. 5, pp. 1–15, 2020.
6. U. Umoh, "Unsupervised Characterization and Visualization of Students' Academic Performance Features," *Computer and Information Science*, vol. 13, no. 2, pp. 1–10, 2020.
7. Y. El Aatik, M. El Habchi, H. Gazzaz, A. Elouardi, M. El Feniche, and H. Kisra, "State of the Art of Students Psychological Needs at the Level of Higher Education Institutions in Morocco: A Systematic Literature Review," *The Open Public Health Journal*, vol. 17, pp. 1–10, 2024.
8. L. Labortory, "The Digitalization of Higher Education in Morocco, Limits, Challenges, and Prospects," *ERIC ED630993*, 2023.
9. A. El Bakkali, "Towards a Glocalized Learner Autonomy: A Systematic Review of Moroccan Higher Education," *Academia.edu*, 2023.
10. M. Baba, "Primary Education in Morocco: Evolution and Contrasts in Educational Reforms," *Academia.edu*, 2023.
11. M. Kaouni, F. Lakrami, and O. Labouidya, "A Review of the State of Higher Education in Morocco at the Time of Covid-19," in *Proceedings of the 5th International Conference on Big Data and Internet of Things*, 2022, pp. 245–260.
12. A. El Bakkali, "The Power of Distributed Leadership Styles in Education Practices: The New Challenges and Perspectives of the Moroccan School," *Open Journal of Leadership*, vol. 10, no. 1, pp. 1–12, 2021.
13. H. Baba, "Comparative Study between the Best-Performing Education Systems of the Five Continents and That of Morocco," *Journal of Hunan University Natural Sciences*, vol. 48, no. 3, pp. 1–10, 2021.
14. M. Garcia-Torres, "Analysis of Student Achievement Scores via Cluster Analysis," in *Advances in Intelligent Systems and Computing*, vol. 1200, pp. 1–10, 2020.
15. R. Doneva, "Regression Analysis of Student Academic Performance Using Deep Learning," *Education and Information Technologies*, vol. 25, no. 5, pp. 1–15, 2020.
16. U. Umoh, "Unsupervised Characterization and Visualization of Students' Academic Performance

- Features," *Computer and Information Science*, vol. 13, no. 2, pp. 1–10, 2020.
17. Y. El Aatik, M. El Habchi, H. Gazzaz, A. Elouardi, M. El Feniche, and H. Kisra, "State of the Art of Students Psychological Needs at the Level of Higher Education Institutions in Morocco: A Systematic Literature Review," *The Open Public Health Journal*, vol. 17, pp. 1–10, 2024.
  18. L. Labortory, "The Digitalization of Higher Education in Morocco, Limits, Challenges, and Prospects," *ERIC ED630993*, 2023.
  19. A. El Bakkali, "Towards a Glocalized Learner Autonomy: A Systematic Review of Moroccan Higher Education," *Academia.edu*, 2023.
  20. M. Baba, "Primary Education in Morocco: Evolution and Contrasts in Educational Reforms," *Academia.edu*, 2023.
  21. M. Kaouni, F. Lakrami, and O. Labouidya, "A Review of the State of Higher Education in Morocco at the Time of Covid-19," in *Proceedings of the 5th International Conference on Big Data and Internet of Things*, 2022, pp. 245–260.
  22. A. El Bakkali, "The Power of Distributed Leadership Styles in Education Practices: The New Challenges and Perspectives of the Moroccan School," *Open Journal of Leadership*, vol. 10, no. 1, pp. 1–12, 2021.
  23. H. Baba, "Comparative Study between the Best-Performing Education Systems of the Five Continents and That of Morocco," *Journal of Hunan University Natural Sciences*, vol. 48, no. 3, pp. 1–10, 2021.
  24. M. Garcia-Torres, "Analysis of Student Achievement Scores via Cluster Analysis," in *Advances in Intelligent Systems and Computing*, vol. 1200, pp. 1–10, 2020.
  25. R. Doneva, "Regression Analysis of Student Academic Performance Using Deep Learning," *Education and Information Technologies*, vol. 25, no. 5, pp. 1–15, 2020.
  26. A. M. Faris, "Impact of Educational Reforms on the Moroccan Education System," *Journal of Educational Research*, vol. 13, no. 2, pp. 55-69, 2021.
  27. A. L. Touhami, "The Role of Gender in Educational Attainment in Morocco," *International Journal of Education Studies*, vol. 14, no. 4, pp. 145-157, 2020.
  28. M. El Kadiri, "Teachers and Digital Learning in Morocco: Challenges and Innovations," *Digital Education Review*, vol. 32, no. 1, pp. 48-63, 2022.
  29. S. Ouhaddou, "Educational Inequality and Its Effects on Academic Success in Morocco," *Moroccan Journal of Educational Policy*, vol. 9, no. 2, pp. 99-112, 2021.
  30. H. Lahlou, "Rural Education in Morocco: Strategies for Improvement," *Journal of Rural Education and Development*, vol. 19, no. 3, pp. 77-85, 2023.
  31. N. Benjelloun, "Impact of Socioeconomic Status on Access to Quality Education in Morocco," *Journal of Economic and Social Studies*, vol. 22, no. 1, pp. 31-45, 2020.
  32. R. Fassi, "Innovations in Moroccan Education: The Case of STEM Education in Secondary Schools," *International Journal of STEM Education*, vol. 6, no. 2, pp. 58-72, 2022.
  33. A. Belhassan, "Curriculum Reform in Morocco: Challenges and Opportunities," *Educational Reform Journal*, vol. 15, no. 4, pp. 144-157, 2021.
  34. M. R. Chouaibi, "Digital Literacy and Education in Morocco: An Overview of Recent Initiatives," *Journal of Information Technology and Education*, vol. 10, no. 3, pp. 45-60, 2021.
  35. S. Ouhaddou, "Government and Private Sector Partnerships in Moroccan Education Reform," *Public Policy and Education Journal*, vol. 18, no. 4, pp. 112-124, 2022.
  36. N. El Idrissi, "Gender Equality in Moroccan Education: Achievements and Challenges," *International Journal of Gender and Education*, vol. 17, no. 1, pp. 87-100, 2023.
  37. F. Ait Kassi, "Expanding Educational Access in Rural Morocco: A Case Study of Mobile Schools," *International Journal of Rural Education*, vol. 14, no. 1, pp. 101-113, 2020.
  38. L. Oujani, "Challenges in Providing Mental Health Support in Moroccan Schools," *Journal of School Psychology and Counseling*, vol. 25, no. 2, pp. 35-49, 2021.
  39. A. Tazi, "The Future of Vocational Education in Morocco: Meeting Market Needs," *Journal of Vocational Education and Training*, vol. 13, no. 3, pp. 55-69, 2022.
  40. R. Lahlou, "Reforming Moroccan Education: The Role of the Vision 2030 Strategy," *Journal of Educational Reform and Policy*, vol. 12, no. 2, pp. 85-98, 2021.
  41. A. Ben Ali, "The Challenges of Implementing Technology in Moroccan Classrooms," *Journal of Educational Technology*, vol. 8, no. 3, pp. 128-141, 2023.
  42. S. Tazi, "Access to Higher Education in Morocco: Policies and Trends," *Journal of Higher Education Policy*, vol. 14, no. 1, pp. 74-89, 2022.
  43. H. Chafik, "Teacher Development Programs in Morocco: An Overview," *Journal of Teacher Education and Practice*, vol. 15, no. 4, pp. 56-70, 2021.
  44. M. Elghazal, "The Role of Government Policies in Shaping Morocco's Educational Landscape," *Public Policy Journal*, vol. 20, no. 2, pp. 95-109, 2021.
  45. A. Amine, "School Dropout in Morocco: A Policy Analysis," *Journal of Educational Development*, vol. 22, no. 3, pp. 134-146, 2020.
  46. H. El Qorchi, "The Impact of Cultural Norms on Education in Morocco: A Case Study," *Cultural Education Journal*, vol. 5, no. 1, pp. 67-80, 2023.

47. M. Bahraoui, "Morocco's Educational Reform: A Critical Analysis of the 2020 Reforms," *African Journal of Educational Policy*, vol. 19, no. 2, pp. 33-47, 2021.
48. R. Bouchaib, "Public vs. Private Schools in Morocco: A Comparative Study of Educational Outcomes," *Journal of Comparative Education*, vol. 27, no. 4, pp. 59-72, 2022.