

Open and Distance Learning as a Tool for Community Empowerment: An Empirical Study with Reference to YCMOU Learners

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Abstract

Open and Distance Learning (ODL) has increasingly gained prominence as an alternative mode of higher education that supports equity, flexibility, and lifelong learning. In the Indian context, ODL institutions have played a critical role in addressing disparities in access to higher education among diverse learner populations. Yashwantrao Chavan Maharashtra Open University (YCMOU) has been instrumental in extending educational opportunities to learners from rural, working, and socially disadvantaged backgrounds. The present empirical study investigates learners' access to and utilization of ODL at YCMOU, their learning experiences and development of self-learning abilities, the nature of skills acquired through ODL, and the contribution of ODL to social and community empowerment. Employing a descriptive survey design, primary data were collected from 50 learners enrolled in undergraduate B.Ed. Special Education programmes. The findings reveal that participation in ODL positively influences learners' academic autonomy, skill development, socio-economic status, and engagement in community life. The study underscores the potential of ODL as a viable mechanism for individual advancement and community empowerment.

Keywords: Open and Distance Learning, Community Empowerment, Self-learning Ability, Skill Development, YCMOU

1. Introduction

Education is globally acknowledged as a central mechanism for enhancing social mobility, fostering economic development, and promoting inclusive and sustainable societies. Access to higher education equips individuals with knowledge, skills, and critical capacities that enable participation in the workforce, informed citizenship, and community leadership (Sen, 1999; Tilak, 2018). Despite its recognized importance, conventional face-to-face systems of higher education continue to exclude large segments of the population due to structural and contextual constraints such as geographical isolation, financial hardship, occupational responsibilities, gender roles, and socio-cultural barriers (Altbach, Reisberg, & Rumbley, 2019).

In response to these limitations, Open and Distance Learning (ODL) has emerged as a flexible and learner-centred mode of education designed to overcome barriers of time, place, and pace. ODL enables learners to pursue education alongside employment and family responsibilities, thereby widening

participation among non-traditional learners such as working adults, women, rural populations, and first-generation learners (Moore & Kearsley, 2012). By emphasizing openness, flexibility, and learner autonomy, ODL aligns closely with the principles of lifelong learning and inclusive education promoted by international agencies such as UNESCO (2015).

In the Indian context, the expansion of ODL has played a significant role in the democratization of higher education. The establishment of national and state open universities has contributed to increasing the Gross Enrolment Ratio (GER) and addressing regional and social disparities in educational access (Agarwal, 2020). Yashwantrao Chavan Maharashtra Open University (YCMOU) was founded with the explicit mission of “Reaching the Unreached,” aiming to provide higher education opportunities to learners who are unable to participate in the conventional university system. Through its extensive network of study centres, learner support services, printed and digital self-learning materials, and flexible curricular design, YCMOU caters to learners from rural, tribal, economically disadvantaged, and socially marginalized communities.

Beyond academic access, education through ODL has the potential to function as a catalyst for personal empowerment and community development. Improved educational attainment can enhance learners’ self-confidence, employability, social awareness, and participation in community life, thereby contributing to broader processes of social and community empowerment (Tait, 2018). Against this backdrop, the present study seeks to examine the extent to which ODL at YCMOU supports learners’ personal development and facilitates empowerment at both individual and community levels.

2. Review of Related Literature

A substantial body of literature has examined the role of Open and Distance Learning in expanding access to higher education and promoting lifelong learning. Early studies emphasized the capacity of distance education to reach learners who are excluded from conventional systems due to economic, geographical, or social constraints (Perraton, 2007). ODL institutions have been particularly effective in serving non-traditional learner groups, including working adults, women, rural populations, and first-generation learners, thereby contributing to equity and social inclusion in higher education (UNESCO, 2015).

One of the defining features of ODL is its emphasis on learner autonomy and self-directed learning. Knowles, Holton, and Swanson (2015) argue that adult learners benefit from educational environments that encourage responsibility for learning, self-motivation, and independent decision-making. ODL environments, characterized by flexible pacing and self-instructional materials, provide conditions conducive to the development of self-learning abilities. Empirical studies have shown that learners enrolled in distance education programmes often demonstrate improved time management, self-regulation, and confidence in learning when compared to their initial stages of enrolment (Garrison, 2017).

Research has also highlighted the role of ODL in enhancing employability and skill development. Participation in distance education has been associated with the acquisition of transferable skills such as communication, problem-solving, critical thinking, and digital literacy (Anderson, 2011; Mishra & Panda, 2021). In developing economies, these skills are particularly significant as they improve learners’ capacity to access employment opportunities and adapt to changing labour market demands. Studies conducted in the Indian context suggest that ODL programmes contribute positively to learners’ professional growth and income enhancement, especially among working learners and those in semi-skill

led occupations (Tilak, 2018).

Beyond economic and professional outcomes, education acquired through ODL has been linked to social and community empowerment. Several scholars have reported that increased educational attainment through distance learning enhances social awareness, civic participation, and leadership within local communities (Tait, 2018; Sen, 1999). Educated individuals are more likely to engage in community activities, participate in decision-making processes, and contribute to social development initiatives. However, the literature also identifies persistent challenges, including unequal access to digital technologies, limited digital literacy, and motivational constraints, which disproportionately affect learners in rural and marginalized contexts (Selwyn, 2016).

While a growing body of research has examined ODL at national and international levels, empirical studies focusing specifically on state open universities and their role in community empowerment remain limited. In particular, there is a need for context-specific investigations into learner experiences within institutions such as YCMOU. The present study addresses this gap by examining learners' access to ODL, learning experiences, skill development, and empowerment outcomes within the specific socio-economic context of Maharashtra.

3. Objectives of the Study

The study was undertaken with the following objectives:

1. To examine learners' access to and use of Open and Distance Learning (ODL) at YCMOU.
2. To analyze learners' learning experiences and the development of self-learning abilities through ODL.
3. To identify the nature of skills developed among learners through ODL.
4. To explore the role of ODL in promoting social participation and community empowerment.
5. To assess the overall impact of ODL on learners' lives and their communities.

4. Research Methodology

4.1 Research Design

The present study adopted a **descriptive survey research design** to examine B.Ed. Spl.Ed. learners' perceptions and experiences of Open and Distance Learning (ODL) at Yashwantrao Chavan Maharashtra Open University (YCMOU). Descriptive research is appropriate when the objective is to systematically describe characteristics, attitudes, or experiences of a defined population without manipulating variables (Creswell & Creswell, 2018). This design enabled the researcher to capture existing conditions related to learners' access to ODL, learning experiences, self-learning abilities, skill development, and perceptions of social and community empowerment. The survey approach was considered suitable for collecting standardized data from a geographically dispersed learner population typical of ODL systems (Cohen et al., 2018).

4.2 Sample

The sample for the study comprised **50 learners** enrolled in B.Ed. Spl.Ed. undergraduate programmes offered by YCMOU during the 2025-26 academic year. Participants were selected using **simple random sampling**, ensuring that each learner had an equal chance of being included in the study. Random sampling was employed to enhance representativeness and reduce selection bias (Fraenkel et al., 2019). Efforts were made to ensure diversity in terms of academic discipline, gender, employment status, and

rural–urban background so that the findings would reflect a broad range of learner experiences within the ODL context.

4.3 Tool for Data Collection

Primary data were collected using a **structured questionnaire** developed by the researcher based on a review of relevant literature on ODL and community empowerment. The questionnaire consisted of both closed-ended and Likert-scale items and was divided into five sections:

- access to and use of ODL resources,
- learning experiences and self-learning abilities,
- skill development outcomes,
- social and community engagement, and
- perceived overall impact of ODL on learners' lives.

The questionnaire was reviewed by subject experts to ensure **content validity**, and necessary modifications were incorporated based on their feedback. A pilot administration was conducted with a small group of learners to check clarity, relevance, and reliability of the items before final data collection. Such procedures are recommended to enhance the validity and reliability of survey instruments in educational research (Cohen et al., 2018).

4.4 Data Analysis

The collected data were analyzed using **descriptive statistical techniques**, including frequencies, percentages, and mean scores. These techniques were considered appropriate for summarizing learners' responses and identifying overall trends in perceptions and experiences related to ODL (Fraenkel et al., 2019). The analyzed data are presented in the form of tables to facilitate clarity and comparison. Interpretations were made in direct relation to the objectives of the study, focusing on how ODL contributes to learners' academic development, skill acquisition, and community empowerment.

5. Analysis and Interpretation of Data

Objective 1: Learners' Access to and Use of Open and Distance Learning (ODL) at YCMOU

Access to learning resources is a critical prerequisite for the effective functioning of any Open and Distance Learning system. The first objective of the present study was to examine learners' access to various ODL resources provided by Yashwantrao Chavan Maharashtra Open University (YCMOU).

Table 1: Learners' Access to ODL Resources (N = 50)

Access Indicators	Percentage (%)
Access to Study Material	92
Access to Digital Resources	68
Access to Study Centres	85
Use of Online Platforms	64

The data presented in Table 1 indicate that a substantial majority of learners (92%) reported having regular access to printed self-instructional study materials provided by YCMOU. This highlights the continued relevance of print-based resources in ODL, particularly for learners residing in areas with limited digital infrastructure. Similarly, 85% of respondents indicated satisfactory access to study

centres, suggesting that YCMOU's decentralized learner support system plays an important role in facilitating academic guidance and counselling.

In contrast, access to digital resources (68%) and the use of online learning platforms (64%) were reported at comparatively lower levels. This finding suggests a persistent digital divide among ODL learners, especially those from rural and economically disadvantaged backgrounds. While a majority of learners are gradually engaging with online platforms, a significant proportion still face challenges related to internet connectivity, availability of devices, and digital literacy.

These findings are consistent with earlier studies which have noted that although ODL institutions have expanded access to higher education, technological access remains uneven across regions and social groups (Selwyn, 2016; Mishra & Panda, 2021). The results underscore the need for strengthened digital support mechanisms, including orientation programmes, offline digital content, and improved infrastructure at study centres, to enhance learners' effective use of online ODL resources.

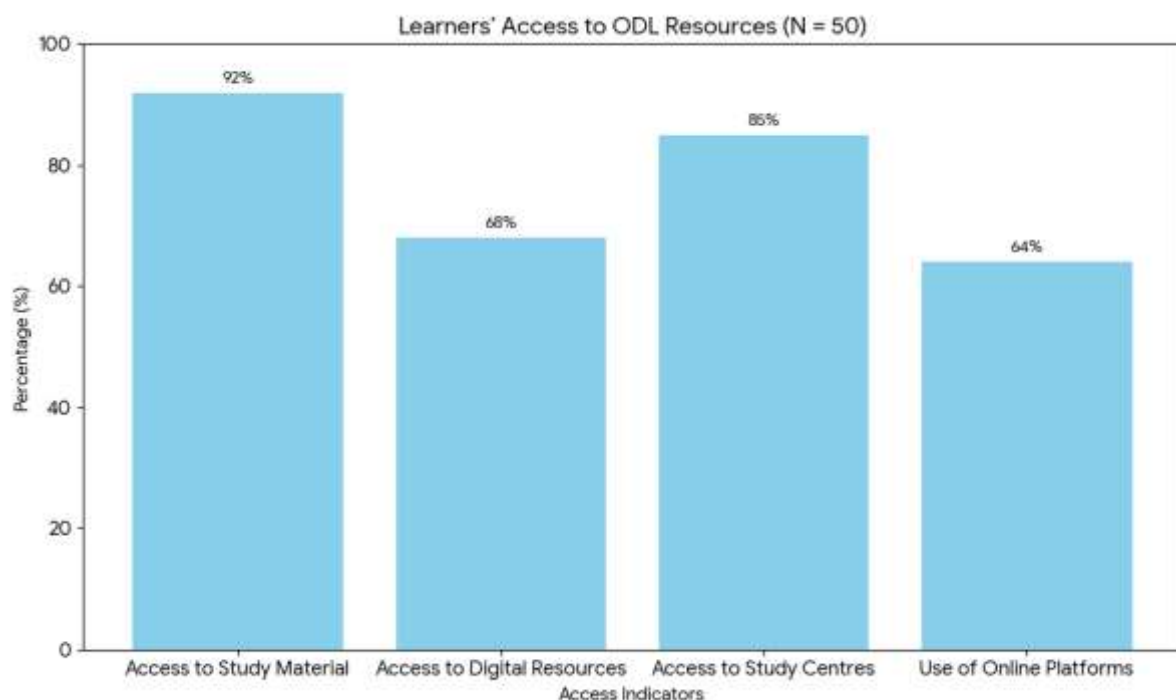


Figure 1. Learners' Access to ODL Resources at YCMOU

The bar graph illustrates four access indicators—study materials, digital resources, study centres, and online platforms—on the horizontal axis, with percentage of learners on the vertical axis (ranging from 0 to 100). The tallest bar corresponds to access to study materials (92%), followed by access to study centres (85%). Lower bars represent access to digital resources (68%) and use of online platforms (64%), visually highlighting the gap between traditional and digital modes of access.

Objective 2: Learning Experience and Self-Learning Abilities Developed through Open and Distance Learning (ODL)

An essential dimension of Open and Distance Learning is its capacity to promote independent, self-directed learning among learners. Unlike conventional classroom-based education, ODL requires learners to assume greater responsibility for planning, organizing, and monitoring their own learning

processes. The second objective of the present study was to examine the learning experiences of YCMOU learners and the extent to which ODL contributes to the development of self-learning abilities.

Table 2: Learners' Learning Experience and Self-Learning Abilities (N = 50)

Learning Aspects	Mean Score (5-Point Scale)
Independent learning	4.10
Time management	3.90
Learning motivation	4.00
Confidence in learning	4.20

Note. Mean scores range from 1 (very low) to 5 (very high).

The data presented in Table 2 indicate that learners enrolled in ODL programmes at YCMOU reported a positive learning experience across all measured dimensions. The highest mean score was recorded for **confidence in learning** ($M = 4.20$), suggesting that participation in ODL has significantly enhanced learners' academic self-confidence. This finding implies that sustained engagement with self-instructional materials and independent learning tasks enables learners to develop a stronger sense of self-efficacy.

The mean score for **independent learning** ($M = 4.10$) further reflects the effectiveness of ODL in fostering learner autonomy. ODL learners are required to plan their studies, engage with course materials independently, and take responsibility for meeting academic requirements. Such practices contribute to the development of self-directed learning skills, which are considered central to adult education and lifelong learning.

Learning motivation also emerged as a strong component of learners' experiences ($M = 4.00$). The flexibility of ODL programmes, combined with the relevance of course content to learners' personal and professional goals, appears to sustain motivation despite limited face-to-face interaction. This finding supports the view that learner-centred and flexible educational models can enhance intrinsic motivation. In comparison, **time management skills** received a slightly lower yet positive mean score ($M = 3.90$). While most learners reported improvement in managing their study schedules, this result indicates that balancing academic responsibilities with work, family, and social obligations remains a challenge for some learners. This is particularly relevant in the context of ODL, where learners often juggle multiple roles simultaneously.

Overall, the findings suggest that ODL at YCMOU plays a significant role in enhancing learners' self-learning abilities, confidence, and motivation. These competencies not only contribute to academic success but also prepare learners for continuous learning and adaptation in changing social and occupational environments.

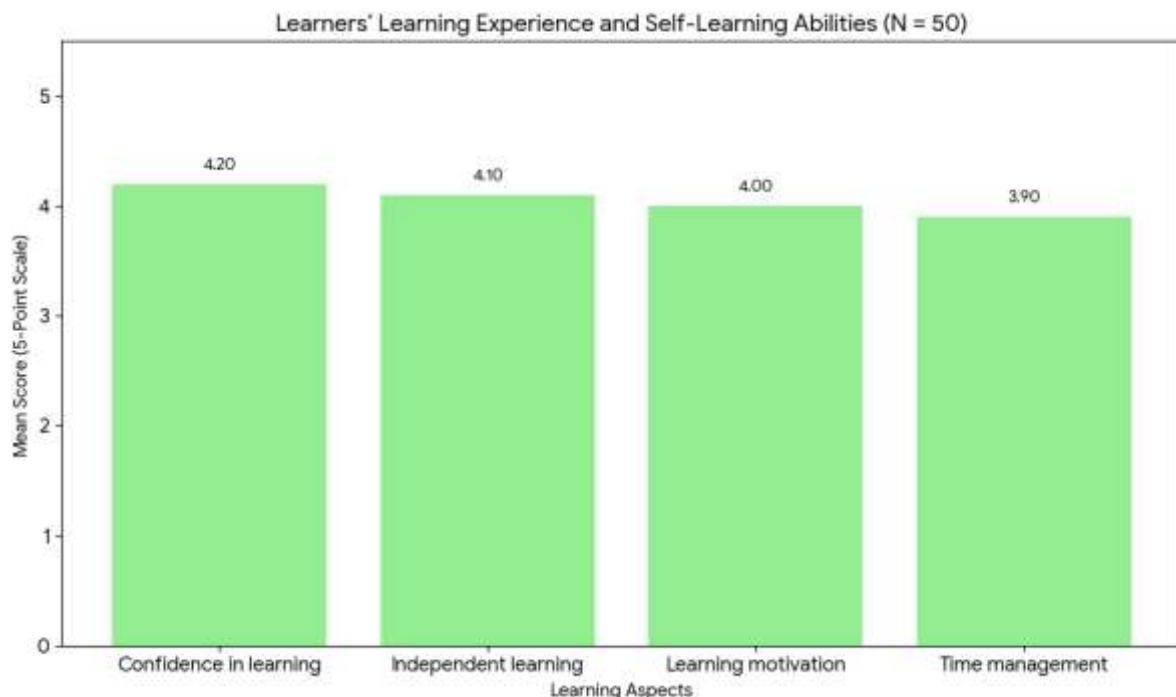


Figure 2. B.Ed. Spl.Ed. Learners' Learning Experience and Self-Learning Abilities

The bar graph depicts four learning dimensions—independent learning, time management, learning motivation, and confidence in learning—on the horizontal axis, with mean scores on the vertical axis ranging from 1 to 5. Confidence in learning shows the highest mean value, followed by independent learning and learning motivation, while time management displays a slightly lower mean score. The graphical representation highlights the overall positive learning experience of B.Ed. Spl. Edu. Program ODL learners while indicating areas that may require additional learner support.

Objective 3: Skill Development through Open and Distance Learning (ODL)

Skill development is a critical outcome of higher education, particularly in the context of rapidly changing labour markets and increasing demand for adaptable and employable graduates. Open and Distance Learning (ODL) is often viewed not only as a means of acquiring academic knowledge but also as a platform for developing transferable and professional skills. The third objective of the present study was to examine the extent to which participation in ODL programmes at YCMOU contributes to learners' skill development.

Table 3: Skills Developed by Learners through ODL (N = 50)

Type of Skill	Percentage of Learners (%)
Communication skills	62
Digital skills	58
Problem-solving skills	66
Professional skills	60

The data presented in Table 3 indicate that learners perceive significant skill development as a result of their engagement in B.Ed. Spl.Ed. ODL programme at YCMOU. A majority of respondents (66%)

reported improvement in **problem-solving skills**, suggesting that independent study, assignment-based evaluation, and application-oriented learning tasks inherent in ODL encourage analytical thinking and decision-making abilities. Such skills are essential for addressing real-life challenges in both personal and professional contexts.

Development of **communication skills** was reported by 62% of learners. Although ODL involves limited face-to-face interaction, learners engage in written assignments, online discussions, and academic correspondence, which appear to contribute positively to their ability to articulate ideas clearly and effectively. This finding supports the view that structured academic communication within ODL environments can enhance both written and interpersonal communication skills.

Professional skills, including work ethics, self-discipline, and organizational abilities, were reported by 60% of learners. The flexible nature of ODL requires learners to manage their study schedules independently while balancing work and family responsibilities. This process appears to foster professionalism, accountability, and time-conscious behaviour, which are valued attributes in the workplace.

In comparison, **digital skills** were reported by 58% of learners, indicating moderate improvement in the use of technology for learning purposes. While many learners have developed basic competencies such as accessing online content and submitting assignments digitally, the relatively lower percentage suggests that disparities in technological access and digital literacy continue to influence skill acquisition. This observation highlights the need for targeted digital skill development initiatives within ODL systems.

Overall, the findings demonstrate that ODL at YCMOU contributes meaningfully to the development of both academic and transferable skills. These skills enhance learners' employability and capacity to function effectively in diverse social and occupational environments, thereby reinforcing the role of ODL as a tool for individual and community empowerment.

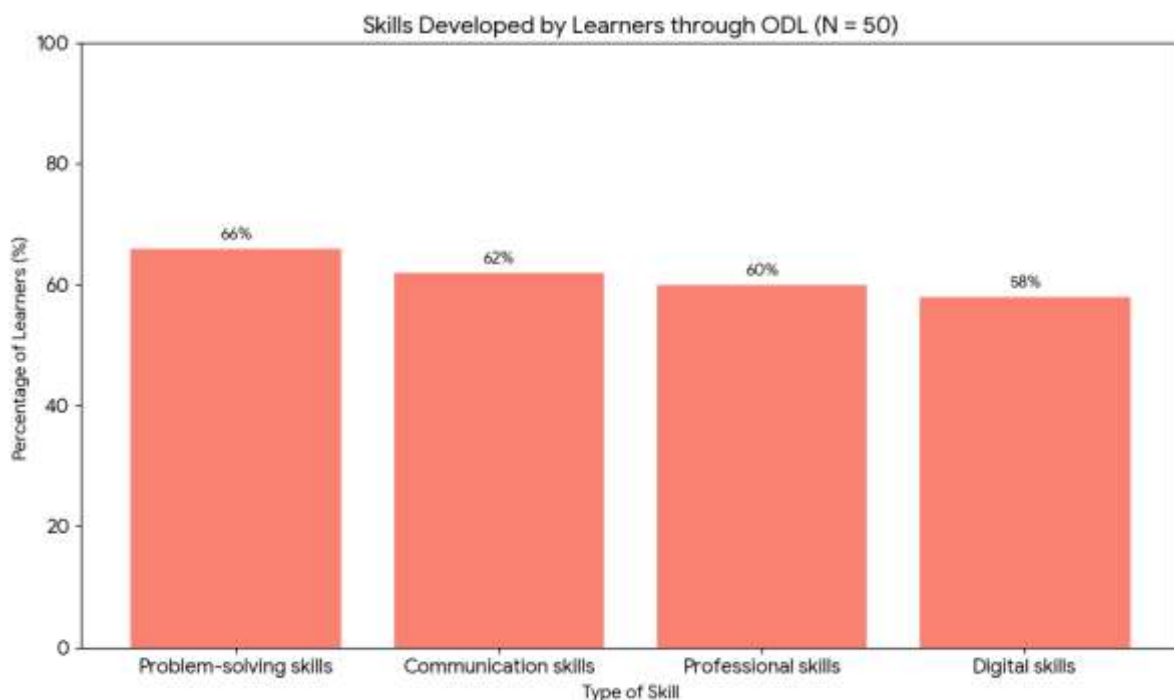


Figure 3. Skill Development among B.Ed. Spl.Ed.ODL Learners at YCMOU

The bar graph presents four categories of skills—communication, digital, problem-solving, and professional skills—on the horizontal axis, with the percentage of learners reporting skill development on the vertical axis (ranging from 0 to 100). Problem-solving skills show the highest percentage, followed by communication and professional skills, while digital skills display a comparatively lower percentage. The figure visually illustrates the balanced yet varied nature of skill development outcomes among ODL learners.

Objective 4: Role of Open and Distance Learning (ODL) in Social and Community Empowerment

Education is widely regarded as a key driver of social transformation and community development. Beyond individual academic and economic benefits, participation in higher education can enhance social awareness, civic engagement, and leadership capacities. The fourth objective of the present study was to examine the role of Open and Distance Learning at YCMOU in promoting social and community empowerment among learners.

Table 4: Social and Community Participation of Learners Before and After Enrolment in ODL (N = 50)

Indicator	Before ODL (%)	After ODL (%)
Participation in community activities	25	57
Awareness of social issues	38	72
Leadership roles	15	40

The data presented in Table 4 reveal a substantial increase in learners' social and community engagement following their enrolment in ODL programmes at YCMOU. Participation in community activities increased from 25% before enrolment to 57% after enrolment, indicating that educational engagement through ODL has encouraged learners to become more actively involved in local social initiatives. This finding suggests that exposure to higher education contributes to a greater sense of social responsibility and civic participation.

A marked improvement was also observed in learners' **awareness of social issues**, which rose from 38% prior to enrolment to 72% after participation in ODL. This increase may be attributed to the inclusion of socially relevant content within academic programmes, as well as learners' enhanced ability to access information, critically analyse social problems, and engage in informed discussions. Education delivered through ODL thus appears to play an important role in developing socially conscious and informed citizens.

Furthermore, the proportion of learners assuming **leadership roles** within their communities increased from 15% to 40% after enrolment. This finding indicates that ODL contributes to the development of confidence, communication abilities, and decision-making skills that are essential for leadership. The flexible and learner-centred nature of ODL allows individuals to strengthen these competencies while remaining embedded within their communities, thereby enabling leadership to emerge organically at the local level.

Overall, the findings demonstrate that ODL at YCMOU extends beyond academic instruction and serves as a catalyst for social and community empowerment. By enhancing awareness, participation, and leadership, ODL supports learners in becoming active agents of change within their communities.

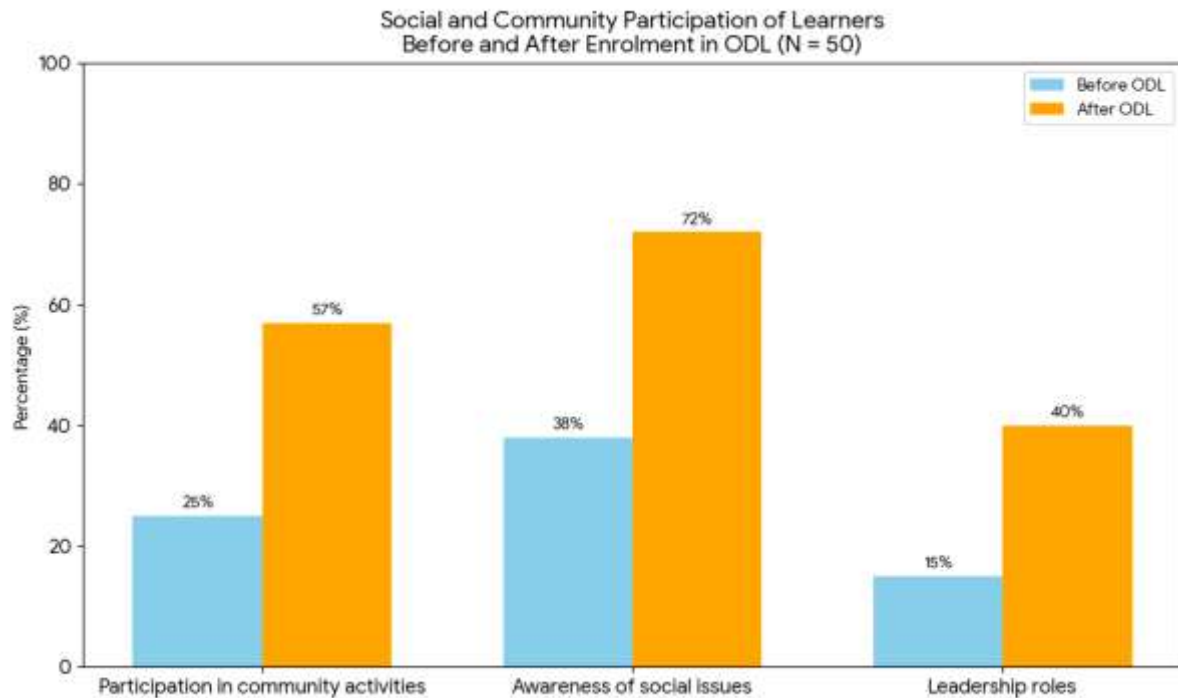


Figure 4. Social and Community Empowerment of Learners Before and After ODL Enrolment

The bar graph illustrates three indicators of social and community empowerment—participation in community activities, awareness of social issues, and leadership roles—on the horizontal axis, with percentage of learners on the vertical axis (ranging from 0 to 100). For each indicator, two bars represent learner responses before and after enrolment in ODL. The post-enrolment bars are consistently higher than the pre-enrolment bars, visually demonstrating the positive impact of ODL on social and community engagement.

Objective 5: Overall Impact of Open and Distance Learning (ODL) on Learners' Lives and Communities

One of the primary goals of Open and Distance Learning is to bring about holistic development by improving not only learners' educational attainment but also their socio-economic conditions and quality of life. Education attained through ODL is expected to translate into improved employment opportunities, higher income levels, enhanced self-confidence, and better social recognition. The fifth objective of the present study was to assess the overall impact of ODL at YCMOU on learners' personal lives and the communities in which they reside.

Table 5: Overall Impact of ODL on Learners' Lives and Communities (N = 50)

Impact Area	Before ODL	After ODL
Employment rate (%)	42	71
Average monthly income (₹)	12,500	23,000
Self-confidence	Low–moderate	High
Social status	Moderate	Improved

The data presented in Table 5 demonstrate a substantial positive impact of participation in ODL programmes on learners' socio-economic and personal development. The **employment rate** among learners increased from 42% prior to enrolment to 71% after completing or progressing through ODL programmes. This notable improvement suggests that qualifications and skills acquired through ODL enhance learners' employability and access to better job opportunities.

A significant increase was also observed in learners' **average monthly income**, which rose from ₹12,500 before enrolment to ₹23,000 after participation in ODL. This improvement indicates that ODL contributes to economic empowerment by enabling learners to secure higher-paying jobs, promotions, or additional income-generating opportunities. Enhanced income levels not only improve individual livelihoods but also have a multiplier effect on household well-being and local economic development.

In addition to economic outcomes, ODL was found to have a strong influence on learners' **self-confidence**. Prior to enrolment, learners generally reported low to moderate levels of confidence, whereas after participation in ODL, confidence levels were reported as high. This transformation can be attributed to academic achievement, improved communication skills, and the ability to successfully balance education with personal and professional responsibilities.

Learners also reported an improvement in their **perceived social status** within their communities following enrolment in ODL programmes. Educational attainment through a recognized university appears to enhance social recognition, respect, and credibility, thereby enabling learners to participate more actively in community decision-making and leadership roles.

Overall, the findings indicate that ODL at YCMOU has a comprehensive and transformative impact on learners' lives. By fostering educational advancement, economic stability, personal confidence, and social recognition, ODL contributes not only to individual empowerment but also to the broader process of community development.

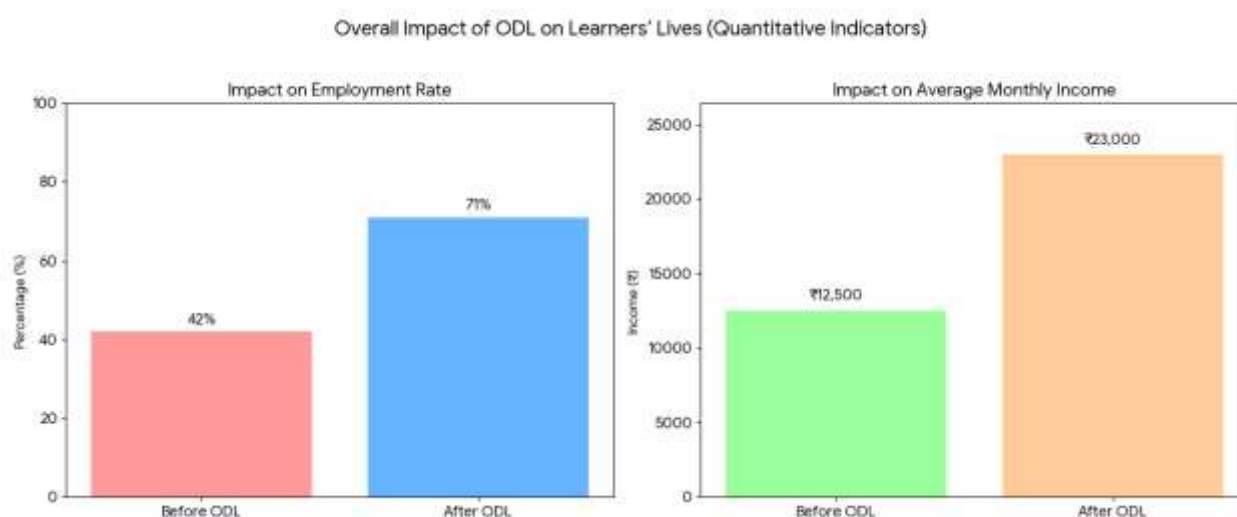


Figure 5. Overall Impact of ODL on Learners' Lives and Communities

The bar graph illustrates changes in employment rate and average monthly income before and after enrolment in ODL programmes. Employment rate and income levels are plotted on the vertical axis, while the horizontal axis represents the pre- and post-ODL conditions. The post-enrolment bars show a

clear increase in both employment and income, visually reinforcing the positive socio-economic impact of ODL participation.

6. Discussion

The findings of the present study provide empirical support for the growing body of literature that recognizes Open and Distance Learning (ODL) as a powerful instrument for learner empowerment and inclusive development. Across all five objectives, the results indicate that ODL at Yashwantrao Chavan Maharashtra Open University (YCMOU) contributes meaningfully to learners' academic, personal, economic, and social advancement.

The analysis of learners' access to ODL resources demonstrates that YCMOU has been largely successful in ensuring the availability of core learning materials and study centre support. Consistent with earlier studies (Mishra & Panda, 2021; Perraton, 2007), the continued reliance on printed self-instructional materials highlights their importance in contexts where digital access remains uneven. At the same time, the comparatively lower engagement with digital platforms underscores the persistence of the digital divide, particularly among rural and economically disadvantaged learners, as noted by Selwyn (2016).

The study further reveals that participation in ODL enhances learners' self-learning abilities, including independent learning, motivation, and academic confidence. These findings align with adult learning theory, which emphasizes autonomy, self-direction, and experiential learning as central to meaningful educational engagement (Knowles et al., 2015). The flexible structure of ODL enables learners to balance education with work and family responsibilities, thereby making learning more accessible and sustainable for non-traditional learners.

In terms of skill development, the results indicate that ODL contributes to both academic and transferable skills such as problem-solving, communication, professional behaviour, and digital competence. These outcomes support previous research suggesting that distance education environments foster critical thinking and adaptability through independent study and application-oriented assessment practices (Garrison, 2017; Tait, 2018). However, the relatively lower development of digital skills suggests the need for targeted interventions to strengthen learners' technological competencies.

Importantly, the study highlights the broader social impact of ODL by demonstrating increased community participation, social awareness, and leadership among learners after enrolment. These findings resonate with Freire's (2000) view of education as a process of empowerment that enables individuals to critically engage with their social realities. By allowing learners to remain embedded within their communities while pursuing higher education, ODL facilitates the translation of learning into social action and community leadership.

Overall, the discussion suggests that ODL at YCMOU functions not merely as an alternative mode of education but as a comprehensive framework for individual empowerment and community development. The integration of academic learning with social engagement positions ODL as a vital tool for achieving inclusive and sustainable development goals.

7. Conclusion

The present study concludes that Open and Distance Learning at Yashwantrao Chavan Maharashtra Open University plays a significant and multifaceted role in empowering learners and strengthening communities. The findings demonstrate that ODL enhances access to higher education for diverse

learner groups, fosters self-directed learning abilities, promotes skill development relevant to employment, and encourages active participation in social and community life.

By improving learners' employment prospects, income levels, self-confidence, and social status, ODL contributes to both individual advancement and collective well-being. The flexibility and inclusivity inherent in the ODL model make it particularly effective for learners who are constrained by geographical, economic, or social factors. As such, ODL emerges as a viable and sustainable approach to expanding educational opportunities and promoting community empowerment in the Indian context.

8. Recommendations

Based on the findings of the study, the following recommendations are proposed to strengthen the effectiveness of Open and Distance Learning at YCMOU and similar institutions:

1. Efforts should be made to enhance internet connectivity, provide access to digital devices, and develop offline digital learning solutions at study centres, particularly in rural and remote areas.
2. ODL programmes should incorporate structured skill development modules focusing on employability, digital literacy, communication, and problem-solving to better align academic learning with labour market requirements.
3. Learners should be encouraged to participate in community-based projects, social initiatives, and local development activities as part of their academic programmes to strengthen the link between education and social empowerment.
4. Future research should involve larger samples and longitudinal designs to assess the long-term impact of ODL on learners' socio-economic mobility and community development outcomes.

9. References

1. Agarwal, P. (2020). *Indian higher education: Envisioning the future*. Sage Publications.
2. Altbach, P. G., Reisberg, L., & Rumbley, L. E. (2019). *Trends in global higher education: Tracking an academic revolution*. UNESCO.
3. Anderson, T. (Ed.). (2011). *The theory and practice of online learning* (2nd ed.). Athabasca University Press.
4. Cohen, L., Manion, L., & Morrison, K. (2018). *Research methods in education* (8th ed.). Routledge.
5. Creswell, J. W., & Creswell, J. D. (2018). *Research design: Qualitative, quantitative, and mixed methods approaches* (5th ed.). Sage Publications.
6. Fraenkel, J. R., Wallen, N. E., & Hyun, H. H. (2019). *How to design and evaluate research in education* (10th ed.). McGraw-Hill Education.
7. Freire, P. (2000). *Pedagogy of the oppressed* (30th anniversary ed.). Continuum.
8. Garrison, D. R. (2017). *E-learning in the 21st century: A community of inquiry framework for research and practice* (3rd ed.). Routledge.
<https://doi.org/10.4324/9781315667263>
9. Knowles, M. S., Holton, E. F., & Swanson, R. A. (2015). *The adult learner: The definitive classic in adult education and human resource development* (8th ed.). Routledge.
10. Mishra, S., & Panda, S. (2021). Distance education in India: Policy perspectives and emerging practices. *Indian Journal of Open Learning*, 30(2), 1–15.
11. Mishra, S., & Panda, S. (2021). Technology-enabled learner support services in open and distance learning: Challenges and opportunities. *Asian Journal of Distance Education*, 16(1), 1–15.

12. Moore, M. G., & Kearsley, G. (2012). *Distance education: A systems view of online learning* (3rd ed.). Cengage Learning.
13. Perraton, H. (2007). *Open and distance learning in the developing world* (2nd ed.). Routledge.
14. Selwyn, N. (2016). *Education and technology: Key issues and debates* (2nd ed.). Bloomsbury Academic.
15. Sen, A. (1999). *Development as freedom*. Oxford University Press.
16. Tait, A. (2018). Education for development: From distance to open education. *Journal of Learning for Development*, 5(2), 101–115.
17. Tait, A. (2018). Education for development: From distance to open education. *Open Learning: The Journal of Open, Distance and e-Learning*, 33(2), 85–97.
<https://doi.org/10.1080/02680513.2018.1458711>
18. Tait, A. (2018). Open universities: The next phase. *Asian Association of Open Universities Journal*, 13(1), 13–23.
<https://doi.org/10.1108/AAOUJ-12-2017-0044>
19. UNESCO. (2015). *Education 2030: Incheon declaration and framework for action*. UNESCO Publishing.
20. UNESCO. (2015). *Rethinking education: Towards a global common good?* UNESCO Publishing.
21. UNESCO. (2016). *Education for people and planet: Creating sustainable futures for all*. UNESCO Publishing.
22. UNESCO. (2016). *If you don't understand, how can you learn? Global education monitoring report*. UNESCO Publishing.
23. World Bank. (2020). *World development report 2020: Trading for development in the age of global value chains*. World Bank Publications.
24. Yashwantrao Chavan Maharashtra Open University. (2023). *Community outreach and learner engagement initiatives*. YCMOU.