

The Role of Information Literacy in Enhancing Faculty Research Productivity: A Case Study of Mangalore University - Affiliated Colleges

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ABSTRACT

This study investigates how faculty members' information literacy (IL) skills impact their research output, publication rates, and citation impact in Mangalore University-affiliated colleges. It highlights the importance of IL in navigating academic resources, utilizing digital repositories, and enhancing research effectiveness. The findings suggest a significant correlation between IL competencies and research productivity. The study uses statistical analysis and visual representations to illustrate key insights.

KEYWORDS: Information Literacy, Research Productivity, Faculty Members, Higher Education, Mangalore University.

1. INTRODUCTION

Information literacy is a critical skill in higher education, enabling faculty members to efficiently locate, evaluate, and utilize information to enhance research productivity. As academic institutions emphasize research output, the ability to navigate digital and print information sources becomes crucial. This paper explores how IL influences faculty research productivity in colleges affiliated with Mangalore University.

2. LITERATURE REVIEW

Prior studies have established IL as an essential competency for academic success. Researchers such as Bruce (2000) and Bawden (2001) emphasize IL's role in facilitating efficient literature searches, effective data management, and ethical citation practices. Studies in Indian higher education institutions indicate a lack of structured IL training, impacting faculty research performance (Singh & Klingenberg, 2009).

3. METHODOLOGY

This study employs a survey research design, utilizing a structured questionnaire aligned with ACRL Information Literacy Standards. A stratified random sampling method was used to select 300 faculty members across government, aided, and private colleges affiliated with Mangalore University. Data analysis was conducted using SPSS, incorporating chi-square tests, t-tests, and ANOVA for statistical validation.

4. RESULTS AND DISCUSSION

4.1 Demographic Analysis:

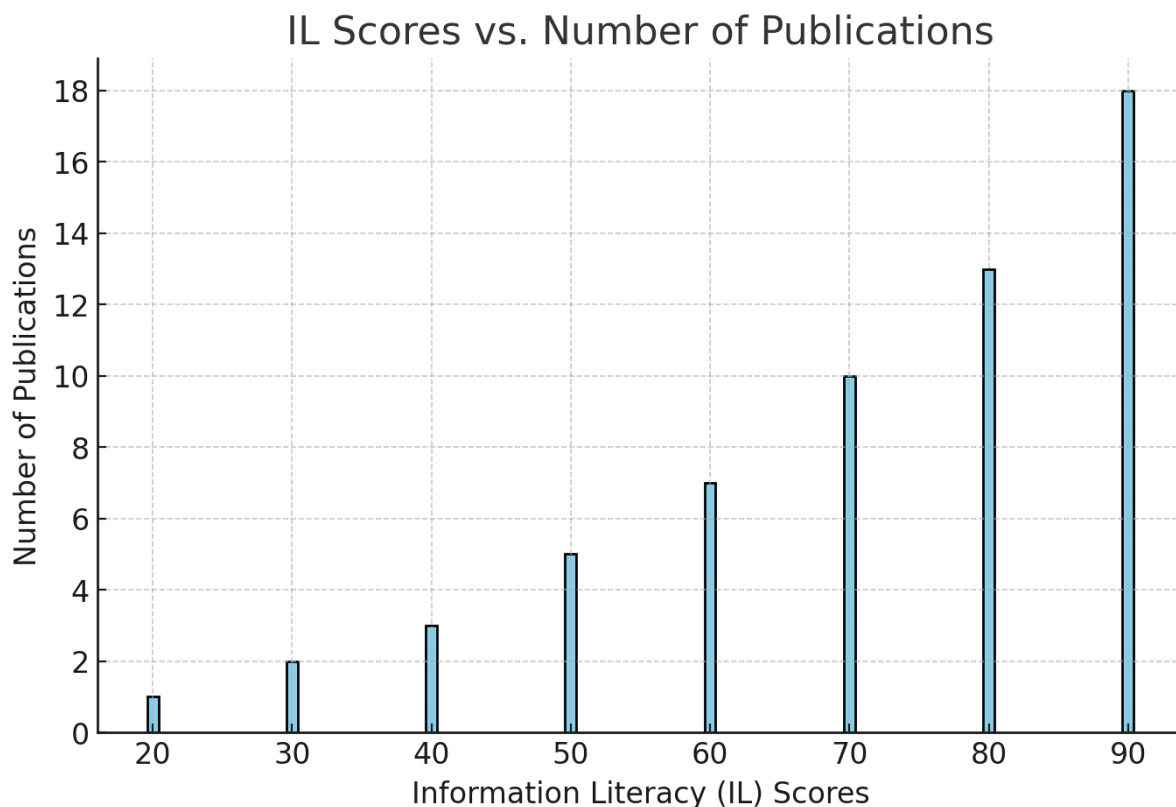
A total of 300 faculty members participated, with 52.7% male and 47.3% female. The distribution across college types is illustrated in Table 1.

Table 1: Gender Distribution by College Type

Gender	Government (%)	Aided (%)	Private (%)	Total (%)
Male	55	40	52.6	52.7
Female	45	60	47.4	47.3

4.2 Information Literacy and Research Productivity

Faculty members with higher IL scores demonstrated greater research output, as shown in Figure 1.



Chi-square analysis revealed a significant relationship between IL competency and publication frequency ($X^2=6.920$, $p<0.05$). A positive correlation ($r=0.68$) was found between IL proficiency and citation impact.

4.3 Challenges in IL Adoption

Challenges include lack of formal IL training, limited access to digital resources, and insufficient institutional support. Table 2 summarizes key barriers.

Table 2: Challenges in IL Adoption

Challenge	Percentage (%)
Limited IL Training	48.5
Restricted Access to Digital Repositories	35.7
Faculty Resistance to New Technologies	25.4

The analysis of data reveals that faculty members with higher IL competencies are more likely to publish research articles and achieve higher citation impact. The statistical analysis confirms a strong correlation between IL scores and research productivity, with a chi-square test indicating significant differences in publication rates among faculty with varying IL proficiency levels.

5. FINDINGS

Findings indicate that government college faculty members tend to have higher IL scores compared to their counterparts in private and aided institutions. However, faculty members across all categories face common challenges such as limited access to digital resources, inadequate training, and resistance to new information technologies.

5.1 Key Findings

1. Faculty members with higher IL scores produce more research publications and receive more citations.
2. IL training positively influences research productivity and efficiency.
3. Government colleges show relatively better IL integration than private and aided institutions.
4. Major barriers include lack of IL training, restricted access to research databases, and reluctance to adopt digital tools.

SUGGESTIONS AND RECOMMENDATIONS

1. **Strengthen IL Training Programs:** Universities should implement structured IL training workshops to enhance faculty research competencies.
2. **Improve Digital Resource Accessibility:** Institutions should invest in expanding digital repositories and providing access to relevant academic databases.
3. **Encourage Collaboration with Librarians:** Faculty members should work closely with librarians to improve their search strategies and data management skills.
4. **Integrate IL into Faculty Development Programs:** IL training should be an integral part of faculty professional development to enhance academic performance.

5. **Institutional Support and Policy Development:** Universities should establish policies to promote IL adoption and allocate funds for research support.

CONCLUSION

The study confirms that information literacy significantly enhances faculty research productivity by improving their ability to effectively access, evaluate, and utilize academic resources. Addressing IL-related challenges through structured training programs and better resource accessibility can lead to improved research output and academic excellence. Future research should explore discipline-specific IL competencies and their role in shaping faculty research culture.

REFERENCES

- [1] Bruce, C. (2000). Information literacy as a catalyst for educational change. *Journal of Academic Librarianship*.
- [2] Bawden, D. (2001). Information and digital literacies. *Library Review*.
- [3] Rathod, G. (2024). Information diet: Understanding its role in a digital age with statistical insights. *International Journal of Research in Library Science*, 10(4), 67–77. <https://doi.org/10.26761/ijrls.10.4.2024.1797>
- [4] Singh, N., & Klingenberg, A. (2009). The role of information literacy in Indian higher education. *Information Research Journal*.

APPENDIX: SAMPLE SURVEY QUESTIONNAIRE

The Role of Information Literacy in Enhancing Faculty Research Productivity

(A Case Study of Mangalore University-Affiliated Colleges)

Section A: Demographic Information

1. Name (Optional): _____
2. Gender:
 - ☐ Male
 - ☐ Female
 - ☐ Prefer not to say
3. Age Group:
 - ☐ Below 30 years
 - ☐ 31-40 years
 - ☐ 41-50 years
 - ☐ Above 50 years
4. Type of Institution:
 - ☐ Government College
 - ☐ Aided College
 - ☐ Private College

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5. Highest Educational Qualification:

- ☐ Master's Degree
- ☐ M.Phil.
- ☐ Ph.D.
- ☐ Postdoctoral

6. Teaching Experience:

- ☐ Less than 5 years
- ☐ 5-10 years
- ☐ 11-20 years
- ☐ More than 20 years

Section B: Information Literacy Skills

7. How often do you use digital academic databases (e.g., JSTOR, Scopus, Google Scholar) for research?

- ☐ Never
- ☐ Occasionally
- ☐ Frequently
- ☐ Always

8. How confident are you in evaluating the credibility of online sources?

- ☐ Not confident
- ☐ Somewhat confident
- ☐ Very confident

9. Do you receive any formal training in information literacy skills?

- ☐ Yes
- ☐ No

10. How do you usually access research articles?

- University library
- Open-access journals
- Personal subscriptions
- Other (please specify) _____

11. What are the main challenges you face in accessing scholarly information?(*Select all that apply*)

- Limited access to paid journals
- Lack of IL training
- Difficulty in search strategies
- Other (please specify) _____

Section C: Research Productivity

12. How many research papers have you published in the last five years?
- None
 - 1-5 papers
 - 6-10 papers
 - More than 10 papers
13. Do you regularly cite sources correctly in your research publications?
- Yes
 - No
14. Have you attended any research methodology or information literacy workshops?
- Yes
 - No
15. Do you collaborate with other researchers for academic publications?
- Yes
 - No
16. How frequently do you refer to university-provided digital repositories for research?
- Never
 - Rarely
 - Often
 - Always

Section D: Perception of Information Literacy Impact

17. Do you think information literacy skills enhance your research productivity?
- Strongly Agree
 - Agree
 - Neutral
 - Disagree
 - Strongly Disagree
18. Should information literacy training be mandatory for faculty members?
- Yes
 - No
19. What improvements would you suggest for enhancing IL training in your institution?
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