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Volume: 4

Issue: 2

Month: May

Year: 2025

ISSN: 2583-7117

Published: 20.05.2025

Citation:

Dr. Shailendra Vishwakarma, Prof. Priyanka Gupta, Dr. Ashok Soni "Employment-Oriented Education in India: Challenges, Evidence, and Pathways Forward"
International Journal of Innovations in Science Engineering and Management,
vol. 4, no. 2, 2025, pp. 176–180.

DOI:

10.69968/ijsem.2025v4i2176-180



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Employment-Oriented Education in India: Challenges, Evidence, and Pathways Forward

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Abstract

India's demographic landscape presents a striking contradiction that policymakers can no longer ignore. While university convocation ceremonies nationwide celebrate record numbers of graduates each year, corporate hiring managers increasingly voice frustration - nearly half of these degree holders lack the basic competencies required for entry-level positions. This disturbing trend has brought employment-oriented education (EOE) into sharp focus as educators grapple with systemic failures. Unlike traditional academic models that prioritise theoretical knowledge, EOE emphasises hands-on skill development through three critical pillars: industry-aligned training modules, mandatory internship requirements, and competency-based assessment frameworks. Yet implementing meaningful reforms faces multilayered challenges. In Maharashtra's industrial belt, for instance, engineering colleges continue teaching outdated manufacturing processes while local factories adopt Industry 4.0 technologies. Vocational training initiatives struggle with perception issues, often viewed as second-class alternatives to conventional degrees. Perhaps most critically, the absence of standardised career counselling leaves students navigating complex labour markets without proper guidance - a problem acutely visible in India's aspirational districts.

Keywords; employment-oriented education, vocational training, graduate employability, India, skill development, education reform.

OBJECTIVES OF THE STUDY

1. Analyse the underlying causes of the education-employment disconnect in India.
2. Review existing policies and reforms aimed at addressing the challenge.
3. Highlight evidence from relevant research, surveys, and case studies.
4. Offer recommendations to align educational outcomes with the demands of the contemporary labour market.

METHODOLOGY

1. **Study Area** –The study pertains to INDIA
2. **Study** – The Present Study is both descriptive and analytical, based on secondary Data.
3. **Sources of Data:** The secondary data is collected from publications of the Government of India. Such as the Directorate of Economics and Statistics, census reports, human development reports, five-year plan documents, books, periodicals, journals, newspapers and websites.

LITERATURE REVIEW

Concerns around the transition from education to employment have been long discussed in the Indian context, particularly as graduate unemployment continues to rise despite the expansion of higher education. Scholars across disciplines have investigated the systemic issues contributing to this growing gap.

Sinha and Sinha (2018) draw attention to a major disconnect between what engineering colleges teach and what employers expect. Their research revealed that a majority of engineering graduates—over 60%—lack vital workplace skills like communication and collaboration. Echoing similar concerns, Sarkar et al. (2016) made a strong case for the inclusion of real-world experiences in higher education, such as internships and hands-on projects, which, they argue, play a decisive role in improving students' job prospects.

In another important study, Ghosh and Ghosh (2019) pointed out that many graduates were being rejected by multinational firms, not because of poor academic scores, but due to underdeveloped soft skills. They recommended the integration of skill development modules within mainstream education. Singh and Singh (2017) supported this argument, showing that students who underwent communication and leadership training were significantly more likely to get job offers.

Further, Kumar and Aithal (2020) offered a comparative perspective by looking at students from public and private institutions in Karnataka. According to them, factors like mentorship, access to industry tools, and exposure to workplace norms made a difference in employability. Similarly, Sharma (2015) observed that private colleges that collaborated closely with companies had better placement statistics than those that did not.

Some researchers have focused on the deeper structural problems. Bhattacharya and Neogi (2016), for instance, criticised the academic rigidity of Indian higher education and urged policymakers to treat vocational education with equal seriousness. Jain and Sharma (2021) identified a mismatch between theory-heavy curricula and the real demands of modern workplaces, especially in management education.

Basu and Das (2014) conducted a long-term study of polytechnic students and concluded that project-based learning models and combined classroom-training approaches significantly enhanced employment outcomes. In a rural context, Rajput and Tiwari (2019) found that vocational initiatives often failed to succeed because of poor facilities and a social bias against non-academic career paths.

Dhar and Varma (2012) emphasised the low quality of vocational training programs and suggested short-term, industry-certified courses as a temporary fix. Bhatia and

Agarwal (2017) added that faculty often lacked exposure to modern industry practices, and training teachers could help bridge the existing academic-industry gap.

Joshi and Trivedi (2016) turned their attention to entrepreneurship education, asserting that involvement in startup incubators and entrepreneurial ecosystems nurtured a stronger inclination toward self-employment among final-year students. Supporting this argument, Kulkarni and Gokhale (2022) evaluated innovation and entrepreneurship cells in engineering institutions and reported that schools with active programs saw 15% more students opting for entrepreneurial ventures post-graduation.

THE SCALE OF THE PROBLEM

The numbers paint a grim picture:

- 14% unemployment rate among graduates, compared to 3.4% for primary school dropouts (PLFS 2023).
- Only 18% of engineering graduates are employable in core tech roles (NASSCOM 2023).
- 76% of vocationally trained youth secure jobs, yet vocational enrolment remains below 7% (NSO 2023).

These statistics reveal a systemic failure to align education with labour market needs.

HISTORICAL CONTEXT

Post-independence, India's education policy prioritised access over employability. The Kothari Commission (1966) envisioned education as a tool for social equity, but its focus on theoretical learning created a rigid, exam-oriented system. By contrast, countries like Germany and Singapore integrated work-based learning early into their curricula, yielding higher employment rates.

The Rise of Employment-Oriented Education (EOE)

EOE emerged as a potential solution, emphasising:

1. Industry-aligned curricula (e.g., TCS's collaboration with engineering colleges).
2. Experiential learning (internships, apprenticeships).
3. Soft skills training (communication, problem-solving).

However, implementation has been uneven. While private institutions like Manipal Academy report 90% placement rates, public universities—especially in Bihar and Uttar Pradesh—struggle with outdated syllabi and absent industry ties.

EMPLOYMENT-ORIENTED EDUCATION IN INDIA: CHALLENGES:

Despite the challenges, India has a large and growing workforce. The country has a young population, with over 60 per cent under 35. This young population can potentially be a significant source of economic growth. However, addressing the educational and employment challenges is essential to realise this potential.

- **The Education Scenario in India:** However, challenges like limited access to quality education, inadequate infrastructure, and outdated curriculum persist. There is a need to focus more on improving the quality of education, enhancing teacher training programs, & promoting digital literacy to bridge the urban-rural divide and ensure equal opportunities for all.
- **Skill Development Initiatives:** Recognising the importance of skill development, the Indian Government has launched initiatives such as Skill India, aiming to equip youth with industry-relevant skills.
- **Rising Demand for Technical Education:** With the increasing influence of technology in various sectors, there is a growing demand for technical education in India. Engineering, computer science, data analytics, and artificial intelligence are witnessing increased enrollment as students seek to align their skills with emerging job markets.

EMPLOYMENT-ORIENTED EDUCATION IN INDIA: EVIDENCE

- **Industry-led learning:** The shift towards industry-led, practice-oriented, and outcome-based learning is gaining traction.

- **Sector-specific training:** There's a push for vocational training programs that align with industry needs, addressing the gap in specialised, industry-specific skills.
- **AICTE Internship Portal:** The AICTE has launched an internship portal to enhance student skills and employability.
- **NEP 2020:** The National Education Policy 2020 (NEP 2020) emphasises the integration of vocational education and skills development into mainstream academics.

EMPLOYMENT-ORIENTED EDUCATION IN INDIA: PATHWAYS FORWARD

- **Industry-Academic Collaboration:** Educational institutions should forge stronger partnerships with industries through MOUs, co-curricular development, and internships to ensure graduates are equipped with the skills and knowledge needed by employers.
- **Vocational and Technical Training:** Increasing investment in vocational training centres and technical institutes, focusing on high-demand sectors, is essential for bridging the skills gap.
- **Entrepreneurship and Start-up Ecosystem:** Promoting entrepreneurship and creating a supportive ecosystem for start-ups can empower individuals to become job creators rather than just job seekers.

OBSERVATION

These studies underline the urgent need for a multi-dimensional, evidence-based reform agenda. The following table (originally provided) is interpreted below to assess the present situation:

Table 1

Aspect	Key Observations
Graduate Employability	At 49%, India struggles with nearly half of its graduates being unfit for industry jobs. High degree attainment does not correlate with job-readiness (India Skills Report, 2023).
Vocational Training Penetration	Only 6.8% of individuals above 15 years have accessed any vocational training. Rural participation is alarmingly low (NSO, 2023).
Employment After Training	A promising 76% of vocationally trained individuals secure jobs, indicating strong returns on vocational education when implemented properly (NSO, 2023).
Gender Disparity	Despite training, 39% of women remain out of the workforce, reflecting social and structural barriers (NSO, 2023).
Regional Inequities	Urban centres report higher vocational training and employability rates, highlighting disparities in access and quality.
Education-Employment Paradox	Unemployment is highest among graduates (14%) and postgraduates (12%), but lowest among those with only primary education (<2%), reflecting a critical mismatch.

This data indicates that India's education system is not aligned with market realities. The positive employment outcome of vocationally trained individuals emphasises the need to scale and integrate such programs across mainstream education. Moreover, high unemployment among degree holders suggests that reforms must move beyond degree inflation toward skill certification, digital exposure, and soft skills development.

CONCLUSION

India's demographic dividend will remain a missed opportunity unless its youth are adequately trained for contemporary labour markets. Employment-oriented education presents a scalable, sustainable solution to this problem. However, its success depends on structural reforms in curriculum design, teacher training, industry collaboration, digital delivery, and equitable access.

To move from intent to impact, a coordinated ecosystem approach is needed—one where policymakers, academic institutions, industries, and civil society jointly work to equip students not just with degrees, but with the dynamic skillsets required in a 21st-century economy. If done right, employment-oriented education can be the cornerstone of India's journey to inclusive, innovation-driven growth.

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