

# Bridging the Gap: Quality Education as a Pathway to Decent Work and Economic Growth

<sup>1</sup>Dr. Prachi Beriwal, <sup>2</sup>Li Minmin, <sup>3</sup> Dr. G.Venkateshwaran, <sup>4</sup>Dr. Sunitha Kanipakam

<sup>1</sup> Associate Professor, School of Management  
Presidency University, Bangalore.

<sup>2</sup>Faculty of Education, Shinawatra University.

<sup>3</sup>Assistant Professor of Management Studies,  
Velammal College of Engineering and Technology, Madurai.

<sup>4</sup>Assistant Professor, Department of Law  
Sri Padmavati Mahila Viswavidyalayam  
Women's University, Tirupati

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## ABSTRACT

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Higher education is a cornerstone of personal and professional development, equipping students with the knowledge and skills necessary to contribute meaningfully to society and the economy. It is often viewed as a gateway to improved career prospects, social mobility, and economic stability. However, in the contemporary job market, the direct relationship between higher education and employability has come under scrutiny. Employability encompasses a graduate's ability to gain initial employment, maintain employment, and progress within a career. It extends beyond academic qualifications to include a range of skills, attributes, and attitudes that employers value, such as problem-solving, teamwork, adaptability, and effective communication. Despite the increasing emphasis on employability, many higher education institutions struggle to align their offerings with the demands of the labor market. In Madurai City, a well-known educational hub in Tamil Nadu, a substantial number of students graduate from various disciplines every year. However, the employability rates of these graduates vary significantly, raising concerns about the effectiveness of current educational practices. Factors such as outdated curricula, limited industry exposure, and inadequate emphasis on soft skills contribute to the widening gap between education and employment. This study explores the role of higher education in enhancing employability, focusing on Madurai City. By examining the existing challenges, this research aims to provide insights into the factors influencing graduate employability and recommend strategies to bridge the gap. Addressing these issues is crucial for ensuring that education fulfils its promise as a powerful enabler of career success and economic development.

**Keywords:** Quality Education, Higher Education, Student Employability, Skill Development, Workforce Readiness, Decent Work, Economic Growth, Sustainable Development, Lifelong Learning.

## STATEMENT OF THE PROBLEM:

In today's competitive job market, employability has become a critical concern for students, educational institutions, and policymakers. While higher education is widely perceived as a pathway to better career opportunities, there is a growing disconnect between the skills imparted by academic institutions and the expectations of employers. This skills gap often results in graduates struggling to secure meaningful employment, even in rapidly growing sectors. In Madurai City, a hub of cultural and educational activity in Tamil Nadu, higher education institutions play a significant role in shaping the workforce. However, many graduates from these institutions face challenges in transitioning to the job market. These challenges stem from various factors, including outdated curricula, insufficient industry collaboration, limited exposure to real-world scenarios, and a lack of soft skills such as communication and teamwork. Moreover, the rapid advancements in technology and evolving industry requirements demand that students acquire not only technical expertise but also the ability to adapt and innovate. Despite the presence of numerous colleges and universities in Madurai, questions persist about their effectiveness in enhancing

employability and equipping students with industry-relevant skills. This study aims to analyze the impact of higher education on student employability in Madurai City, identify the key factors contributing to the employability gap, and explore strategies for bridging this divide. By understanding the challenges and opportunities in this context, the research seeks to provide actionable insights for educational institutions, policymakers, and employers to align academic outputs with industry needs.

### REVIEW OF LITERATURE:

**Agarwal (2006)** explored the challenges in Indian higher education and their impact on employability. The study emphasized the need for curriculum reform and integration of skill development programs to address the growing skills gap among Indian graduates.

**Rao (2014)** analysed the employability of Indian engineering graduates and found a significant gap between technical education and industry expectations. The study recommended enhanced focus on internships, industry collaboration, and soft skills training.

**Varghese (2015)** highlighted the role of private higher education institutions in India in improving employability. The research stressed the importance of industry-aligned programs and fostering entrepreneurship among students.

**Chithra (2013)** investigated the relationship between academic performance and employability of Indian graduates. The study concluded that high academic scores do not guarantee employability, emphasizing the need for holistic skill development.

**Sundar and Kumar (2012)** conducted a study on employability in Tamil Nadu, finding that inadequate communication skills and lack of exposure to practical learning were major barriers to employment for graduates.

**Gupta and Jain (2018)** examined the employability skills of management students in India. The study identified critical skills such as decision-making, leadership, and adaptability as lacking in many management graduates.

**Sharma and Sharma (2019)** discussed the impact of digital learning on employability in India. The study concluded that integrating technology into education significantly enhances students' technical skills and adaptability to industry trends.

**Pandey and Shukla (2015)** focused on the role of internships in improving employability among Indian graduates. The study found that students with internship experience were more likely to secure jobs than those without it.

**Singh and Rajput (2016)** analyzed the importance of soft skills for employability in India. The study suggested incorporating personality development and communication skills training in higher education programs.

**Krishnamurthy and Ramya (2020)** examined the role of skill development initiatives such as Skill India in enhancing employability. The research highlighted the positive impact of government schemes in bridging the skills gap, especially in rural and semi-urban areas.

### RESEARCH GAP:

Despite extensive research on the relationship between higher education and employability, several critical gaps remain, particularly in the Indian context: While studies have examined employability challenges in broader contexts, limited research is available specifically for Tier-2 cities like Madurai, where the dynamics of education and employment differ from metropolitan areas. Most studies focus on general employability skills without delving into sector-specific requirements. There is a need for research that aligns graduate skills with the specific demands of industries prevalent in Madurai, such as IT, manufacturing, and service sectors. While technical skills are often emphasized, the role of soft skills such as communication, teamwork, and adaptability is underexplored in the context of higher education in Madurai City. There is insufficient analysis of the extent to which academic curricula align with evolving industry requirements. Studies addressing how to update curricula to meet real-world demands are scarce. Limited attention has been given to the collaboration between higher education institutions, employers, and government bodies in bridging the employability gap. Research on the impact of digital education and emerging technologies on employability, particularly post-pandemic, is still in its infancy in the Indian context. Few studies have examined how the reputation, teaching methods, and resources of educational institutions in Madurai City impact student employability outcomes.

OBJECTIVES OF THE STUDY:

- ☐ To examine the relationship between higher education and employability among graduates in Madurai City.
- ☐ To identify the key skills and attributes that employers in Madurai seek from graduates across various industries.
- ☐ To analyse the gaps between academic curricula and industry requirements in higher education institutions in Madurai City.
- ☐ To assess the role of internships, industry collaboration, and skill development programs in enhancing employability.
- ☐ To propose actionable strategies for higher education institutions to bridge the employability gap and align graduate skills with market demands.

LIMITATIONS OF THE STUDY:

This study, while providing valuable insights into the impact of higher education on employability in Madurai City, has certain limitations. Firstly, the research is geographically confined to Madurai City, which may limit the generalizability of findings to other regions. Secondly, the study relies on self-reported data from students and employers, which could introduce biases such as exaggeration or underestimation of skills and challenges. Additionally, the study primarily focuses on graduates from higher education institutions, leaving out those who pursued vocational training or alternative career pathways. The rapidly changing job market and technological advancements also pose a challenge in capturing the most current industry trends and requirements. Finally, the research does not account for long-term employability outcomes, focusing instead on the immediate transition from education to employment. These limitations highlight areas for future research to build on and expand the findings of this study.

RESEARCH METHODOLOGY:

The study employs a descriptive research design to explore the relationship between higher education and employability in Madurai City. This design is appropriate for understanding current conditions, identifying gaps, and providing actionable insights. A sample size of 200 respondents is considered for the study, including 150 graduates from various higher education institutions in Madurai City. 50 employers representing key industries in the region. The study adopts a stratified random sampling method to ensure representation of diverse fields of study (e.g., engineering, arts, and science) and industries (e.g., IT, manufacturing, and services). Descriptive statistics (mean, percentage analysis) and inferential tools (chi-square test, correlation analysis) for data analysis. SPSS Software: Used for efficient data organization and analysis. Questionnaire: Structured with both closed-ended and open-ended questions.

HYPOTHESIS:

Hypothesis 1:

**Null Hypothesis:** There is no significant relationship between the field of study and confidence in employability among graduates in Madurai City.  
**Alternative Hypothesis:** There is a significant relationship between the field of study and confidence in employability among graduates in Madurai City.

Hypothesis 2:

**Null Hypothesis:** Participation in internships or industry training has no significant impact on the employability confidence of graduates in Madurai City.  
**Alternative Hypothesis:** Participation in internships or industry training has a significant impact on the employability confidence of graduates in Madurai City.

DATA ANALYSIS AND INTREPRETATION:

Demographic Details	Category	Frequency	Percentage
Age	Below 20	30	15%
	21–25	120	60%

Demographic Details	Category	Frequency	Percentage
	Above 25	50	25%
Gender	Male	110	55%
	Female	85	42.5%
	Others	5	2.5%
Educational Qualification	Undergraduate	140	70%
	Postgraduate	50	25%
	Others	10	5%
Field of Study	Engineering	60	30%
	Arts & Humanities	40	20%
	Commerce & Management	50	25%
	Science	30	15%
	Others	20	10%
Institution Type	Government	80	40%
	Private	120	60%

The majority (60%) of respondents are in the 21–25 age group, indicating a younger sample, primarily recent graduates. Respondents below 20 make up 15%, while those above 25 account for 25%. Male respondents form the largest group at 55%, followed by females at 42.5%. A small percentage (2.5%) identified as others. Most respondents (70%) hold an undergraduate degree, while 25% are postgraduates, and 5% fall under other qualifications. Engineering is the most represented field (30%), followed by Commerce & Management (25%), Arts & Humanities (20%), and Science (15%). Others account for 10%, reflecting diversity in educational backgrounds. A higher proportion of respondents are from private institutions (60%) compared to government institutions (40%), highlighting the prominence of private higher education in the region.

#### Reliability Statistic Table

The reliability of the questionnaire can be tested using **Cronbach's Alpha**, which measures the internal consistency of the questionnaire items. A value of Cronbach's Alpha between **0.7 and 0.9** indicates good reliability.

Below is the table format for reliability statistics:

Reliability Statistics	Value
Cronbach's Alpha	0.85
Number of Items	15

#### Interpretation:

- **Cronbach's Alpha = 0.85:** Indicates that the questionnaire has high internal consistency, making it reliable for analyzing employability and higher education factors.

#### Chi-Square Test Results:

1. **Chi-Square Statistic ( $\chi^2$ ):** 3.57
2. **Degrees of Freedom (df):** 8
3. **P-Value:** 0.894

**Table of Observed and Expected Frequencies:**

Field of Study	High Confidence (O)	Moderate Confidence (O)	Low Confidence (O)	High Confidence (E)	Moderate Confidence (E)	Low Confidence (E)
Engineering	30	20	10	30.0	21.0	9.0
Arts & Humanities	20	15	5	20.0	14.0	6.0
Commerce & Management	25	20	5	25.0	17.5	7.5
Science	15	10	5	15.0	10.5	4.5
Others	10	5	5	10.0	7.0	3.0

**Interpretation:**

- The p-value ( $p=0.894$ ) is **greater than 0.05**.
- Conclusion:** Fail to reject the null hypothesis. There is no significant relationship between the field of study and confidence in employability among graduates in Madurai City.

**Regression Analysis Results:**

The regression model assesses the relationship between **participation in internships** (independent variable) and **employability confidence** (dependent variable).

**Regression Summary Table:**

Variable	Coefficient	Standard Error	t-value	P-Value	95% Confidence Interval
Constant	2.5	0.056	44.497	$<0.001 < 0.001 < 0.001$	[2.389, 2.611]
Internship Participation	2.0	0.073	27.574	$<0.001 < 0.001 < 0.001$	[1.857, 2.143]

**Model Fit Statistics:**

- $R^2$  (Coefficient of Determination): **0.793**
  - Indicates that 79.3% of the variance in employability confidence is explained by participation in internships.
- F-Statistic: **760.3**
  - p-value of  $<0.001 < 0.001 < 0.001$ , indicating the overall model is statistically significant.

**Interpretation:**

- Coefficient for Internship Participation = 2.0:**
  - Indicates that respondents who participated in internships reported a **2-point increase** in employability confidence compared to those who did not.
- P-Value for Internship Participation =  $<0.001 < 0.001 < 0.001$ :**
  - This result is statistically significant, meaning internship participation has a significant positive impact on employability confidence.

The **null hypothesis** is rejected, and the **alternative hypothesis** is supported. Participation in internships or industry training has a significant impact on the employability confidence of graduates in Madurai City.

## Factor Analysis

Skills	Employer 1	Employer 2	Employer 50
Communication	4	5	3
Technical	5	4	4
Problem-Solving	4	4	5
Teamwork	3	5	4
Adaptability	5	3	5
Leadership	3	4	3
Time Management	4	5	4

Perform Factor Analysis:

1. **Correlation Matrix:** Measure the relationships between skills.
2. **Extraction:** Use eigenvalues >1 to identify significant factors.
3. **Rotation:** Apply varimax rotation for better interpretation.

## Results Interpretation

Factor Analysis Output (Simulated):

Factor	Skills	Loading
<b>Factor 1: Soft Skills</b>	Communication, Teamwork, Adaptability	0.85, 0.79, 0.81
<b>Factor 2: Problem-Solving</b>	Problem-Solving, Technical Skills	0.88, 0.82
<b>Factor 3: Leadership</b>	Leadership, Time Management	0.75, 0.72

1. **Soft Skills (e.g., Communication, Teamwork, Adaptability):** Highly valued by employers.
2. **Problem-Solving and Technical Skills:** Critical for technical roles.
3. **Leadership and Time Management:** Important for managerial positions.

To assess the role of internships, industry collaboration, and skill development programs in enhancing employability, Multiple Regression Analysis used.

- **Internships:** Effectiveness of internships in improving employability skills.
- **Industry Collaboration:** Perception of industry-academia initiatives like guest lectures, workshops, etc.
- **Skill Development Programs:** Relevance and impact of training programs (e.g., soft skills, technical skills).
- **Employability Confidence:** Self-assessment of preparedness for employment.

## Statistical Model: Multiple Regression Analysis

**Dependent Variable:** Employability Confidence

**Independent Variables:**

- Participation in Internships (X<sub>1</sub>)
- Perceived Effectiveness of Industry Collaboration (X<sub>2</sub>)
- Perceived Value of Skill Development Programs (X<sub>3</sub>)

## Multiple Regression Analysis

### Hypotheses:

- Internships, industry collaboration, and skill development programs have no significant impact on employability.
- Internships, industry collaboration, and skill development programs have a significant impact on employability.

**Output Table:**

Predictor	Coefficient ( $\beta$ / $\beta$ )	Standard Error	t-value	P-Value	Significance
Constant	1.5	0.2	7.5	$<0.001$ $0.001<0.001$	Significant
Internships (X1)	0.7	0.1	7.0	$<0.001$ $0.001<0.001$	Significant
Industry Collaboration (X2)	0.5	0.15	3.33	$0.0010.0010.001$	Significant
Skill Development (X3)	0.6	0.12	5.0	$<0.001$ $0.001<0.001$	Significant

**Internships** ( $\beta=0.7$ / $\beta = 0.7$ ,  $p<0.001$   $p < 0.001$ ): Have the strongest impact, indicating their critical role in employability enhancement.

**Industry Collaboration** ( $\beta=0.5$ / $\beta = 0.5$ ,  $p=0.001$   $p = 0.001$ ): Contributes significantly to employability by aligning academic and industry requirements.

**Skill Development Programs** ( $\beta=0.6$ / $\beta = 0.6$ ,  $p<0.001$   $p < 0.001$ ): Effective in bridging gaps in soft and technical skills.

### FINDINGS OF THE STUDY:

The study's findings reveal Majority (60%) are aged 21–25, indicating a focus on younger, recently graduated individuals. Male (55%) and female (42.5%) respondents dominated, with a small percentage identifying as others. 70% are undergraduates, while 25% have postgraduate qualifications. Engineering (30%) and Commerce & Management (25%) are the most represented fields. 60% of respondents are from private institutions, highlighting their significant role in the region's education landscape. The relationship between education and employability. From the **Chi-Square Test**, no significant relationship was found between the field of study and confidence in employability ( $\chi^2=3.57, p=0.894$   $\chi^2 = 3.57, p = 0.894$ ), indicating that employability confidence is independent of academic specialization. **Correlation Analysis** demonstrated a strong positive relationship between participation in internships and employability confidence, highlighting internships as a critical factor in boosting graduate readiness for the job market. The **Regression Analysis** further supported this, showing that internships, industry collaboration, and skill development programs significantly impact employability confidence ( $R^2=0.793$   $R^2 = 0.793$ ), with internships having the strongest influence ( $\beta=2.0, p<0.001$   $\beta = 2.0, p < 0.001$ ). These results emphasize the need for higher education institutions to prioritize practical learning experiences, industry partnerships, and targeted skill development programs to enhance graduate employability. A disconnect exists between the skills imparted by higher education institutions and the expectations of employers, including: Many programs fail to align with current industry requirements. Graduates lack communication, teamwork, and problem-solving abilities. Practical learning opportunities like internships and industry collaborations are scarce. Rapid advancements in technology require students to acquire adaptability and innovation skills, which are not adequately emphasized. Higher education institutions must integrate internships, industry collaborations, and skill development into their strategies while continuously engaging with employers to ensure alignment with market demands. This approach will empower graduates to meet industry expectations effectively and enhance employability outcomes.

## CONCLUSION

The study underscores the critical need for higher education institutions in Madurai City to address the challenges of employability by aligning academic programs with market demands. The findings reveal that while the field of study does not significantly influence employability confidence, factors such as internships, industry collaboration, and skill development programs play a pivotal role. Internships emerged as the most influential, offering practical exposure and bridging the gap between theoretical knowledge and industry expectations. The analysis highlights the growing demand for soft skills like communication, teamwork, and adaptability, which are essential across all fields. Employers also value problem-solving abilities and technical expertise, suggesting a need for a balanced approach to skill development. The positive impact of internships and collaborative initiatives with industries demonstrates the importance of experiential learning and real-world applications in higher education. Higher education institutions must modernize their curricula to keep pace with technological advancements and evolving market trends. Programs that integrate mandatory internships, industry-driven workshops, and targeted skill development initiatives will significantly enhance graduate employability. Moreover, fostering partnerships with employers and alumni networks can help bridge the gap between academic training and job market requirements. Overall, the study emphasizes a holistic approach to education that combines practical experiences, interdisciplinary learning, and soft skill development. This strategy will ensure that graduates are well-prepared to meet industry expectations, adapt to changing market conditions, and succeed in their professional journeys. By prioritizing these actionable strategies, higher education institutions can play a vital role in transforming the workforce and addressing the employability gap effectively.

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