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# [FROM CLASSROOM TO CAREER: A PROPOSED MODEL FOR INCREASING EMPLOYABILITY THROUGH INDUSTRY PARTNERSHIPS AND PRACTICAL LEARNING]

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**ABSTRACT**

*In this study, a coherent model is proposed that will utilize Social Learning Theory (SLT) for strengthening graduate employability backed by quantitative research through surveys to test the hypotheses. This study let's all academic institutions collaborate with industries in order to have a transition from classroom towards career. The study identifies important factors including work-integrated learning (WIL) opportunities, industry advisory board involvement, capstone projects, entrepreneurship programs, and research collaboration. The problem addressed is an existing gap between educational outcomes and evolving market demands, leading to a more concerted alignment of academic programs in tune with industry needs. The main objectives of this study are to clarify how these educational strategies influence essential skills and competencies enhancing employability. Important variables include student involvement in WIL, mentorship by industry practitioners, collaborative learning in capstone projects, participation in entrepreneurship initiatives, and involvement in research collaborations. The study hypothesizes that the more these activities are engaged with, the more positive employability and skills development outcomes for graduates will arise. Using Social Learning Theory as a principal theoretical orientation, the study sets forth a quantitative approach to surveying employability outcomes and hypothesizing results. This seeks to offer empirical evidence for how the principles of SLT can be sustainably adopted into education. Implications from this study then apply to educational institutions, policymakers, and employers to highlight the need for collaborative involvement in adequately preparing graduates for the workforce. By facilitating environments for observational learning, mentorship, and hands-on experience, educational institutions are better able to equip students for the labor market's challenges. Future directions in research will focus on attempting empirical verification of the proposed model concerning the particular contribution of research collaborations to employability. Longitudinal studies will help recognize the permanence of educational strategies on graduates' career successes. This study intends to significantly contribute to the debate on improving graduate employability through uniquely designed educational premises that are well-anchored in Social Learning Theory.*

**Keywords:** Social Learning Theory, graduate employability, work-integrated learning, industry engagement, capstone projects, entrepreneurship programs, research collaborations, skill development.

**Background of the Study**

Students highlight a transition from classroom-based learning to employability in the real world; that is the challenge facing many graduates across the globe. The way the labor market has been evolving requires educational institutions to continually do well and modify both their curricula and teaching methodologies in line with changing industry demand. This is increasingly evident in the mismatch between the skills learnt in the academic world and those required of the employee.

In fact, a model that has been proposed for increasing employability through industry partnerships and practical learning provides incentive to facilitate such models. These types of models address the needs of the United States, Europe, China, India, and Pakistan. Unlike some regions, however, these places have their own particular

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challenges and opportunities because their educational frameworks and labor-market structures are different.

In the USA, the promotion of WIL as one of the dominant concerns of graduate employability has attracted endorsement. This involves internships, cooperative placements, and apprenticeships during which students can engage in hands-on exposure to learning that is "foundational" to their course studies. Students who undertook internships in the credits-bearing section, according to a report from the National Association of Colleges and Employers (NACE), were significantly more likely to find a job upon graduation than those who did not participate in internships. More often than not, those students received higher starting salaries than their counterparts who did not take such experiences (NACE, 2021). Meanwhile, as more such programs develop and become available at different institutions, the universities are collaborating with local business enterprises to create customized programs geared toward better tailoring educational outcomes to workforce needs. Among the more recognizable programs is the Career Pathways Partner Program in Rutherford County, an example of locality wherein industries are partnered for real-world exposure and mentorship opportunities for students (Rutherford Works, n.d.).

In Europe, the dual education system, especially in Germany and Switzerland, has always been a hallmark in terms of bridging the gap between education and employment. This system provides for the complementary tracking of classroom with vocational training, in which students acquired practical skills while improving their credentials. Results from research show that graduates of dual education programs are less likely to be unemployed and more satisfied with their jobs than those who followed the traditional route into academia (BMBF, 2016). Furthermore, the European Union has also launched some programs, such as Erasmus+, which boost student mobility as well as promoting collaborative international work among universities, thus facilitating further improvement in employability as students are exposed to more varied work settings and cultural viewpoints (European Commission, 2020).

The rapid economic growth and transformation of labour market in China have brought about several changes in higher education. Development of knowledge-based, durable workforces remains as priorities of relating Chinese government authorities. Within this framework, universities get more encouragement to tie themselves up with industry for producing an internship programme and collaborative research projects. Practical learning experiences in curricular integration are very different for internship students, better job-ready and much more knowledgeable regarding industry practices, according to Liu et al. (2019). Policy statements have also been developed by the Chinese Ministry of Education relating to entrepreneurship education. Thus, these encourage innovative skills fittingly conforming to the needs of the market (Ministry of Education of the People's Republic of China, 2018).

In India, aligning education with requirements from industries faces a severe challenge due to the diversified economy and various qualities of education quality available in different regions. The realization of the government's need for reforms in higher education pertaining to employability has put an initiative in place such as the National Skill Development Mission, which focuses on providing vocational training and skill development programs for youth (Government of India, 2015). In addition,

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universities are becoming more proactive in collaborating with industries to develop curricula that reflect up-to-date market trends and needs. For example, the Indian Institute of Technology (IIT) Bombay links with highly reputed internationally and nationally ranked companies to provide students internship and project-based learning experiences, preparing them for their careers (IIT Bombay, n.d.).

The Pakistani scenario also reflects an apparent sharp divide between education and employment. A positive gap of this nature, high on graduates, is turned into valuable unemployment. To complete Pakistan's efforts at bettering the employability of higher education graduates, the Higher Education Commission of Pakistan has developed programs such as establishing career counseling centers and embedding internship job placements linking paradigm industries (Higher Education Commission, 2020). Universities are increasingly adopting competency-based education over skill training approaches in relationship to job market applicability. Practical learning experiences are seen to pave the way for graduate employability by Ali et al. (2021), among other areas calling for university and industry collaboration to develop relevant training programs.

That model is the one possible solution above of improving employability through institution-industry partnership and practical learning addressing the graduate problems in the USA, Europe, China, India, and Pakistan. This lets all academic institutions collaborate with industries in order to have a transition from classroom towards career. Major components of the model are inclusion of work-integrated learning options, industry advisory boards, final capstones, promotion among entrepreneurial programs, and facilitation of research collaborations. These elements increase the ivory bottle standards of graduates besides ensuring that education outcome tallies, as the market labor changes.

#### **Research Problem**

Graduates in recent times have increasingly found the transition from higher education to the workforce to be a problem. Even with an increasing demand for skilled labor in most industries, many graduates are not prepared to withstand employer expectations. This glaring issue reflects a disconnection between what graduates learn in school and what the job market demands. As work gets liberated with fast-paced technological advancement and changing economic conditions, it has become paramount for educational institutions to get on board with reforming their curriculum and developing partnerships with industries.

Recent studies indicate that a substantial number of graduates feel unprepared for the workforce. The Employability Report (Cengage Group, 2024) reports that over half (55%) of respondents of recent graduates indicated that their educational programs have not sufficiently prepared them to use emerging technologies, including Generative AI (GenAI) tools, which are growing in relevance in the workplace.

It is worrying that almost two-thirds (62%) of employers expect candidates to have general knowledge of such technologies. The fear of being superseded by AI has also added to the uncertainty among graduates, with Cengage Group (2024) revealing that 51% have admit their decision was to pursue their careers against fast-paced technological advancement.

To complicate the situation further, employers still find it difficult to recruit and retain skilled talent. A healthy labor market is marked by many organizations citing problems

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locating candidates with requisite skills and competencies (Practera, 2024).

Having repercussions beyond the personal career prospects of individuals, this skills mismatch between graduates and employer expectations holds significant consequences for broader economic growth and productivity. Growing industries are demanding employees that are adaptable, tech-savvy, and able to negotiate complex work environments. However, the current educational frameworks often do not equip students with these skills.

In response to this growing issue, educational institutions are beginning to appreciate the need for practical learning experiences in their curricula. WIL programs promote employability by integrating the students' learning and experiences with real-life challenges through internships, co-op placements, or industry projects. Research has shown that graduates participating in WIL have greater employment outcomes and job satisfaction than their counterparts who do not (Journal of Teaching and Learning for Graduate Employability, 2024). Nevertheless, WIL continues to face significant challenges in implementation in most universities owing to poor resources, lack of effective industry partnerships, and institutional support.

The contribution of industry partnerships in refining the employability of the graduates cannot be overemphasized. The partnerships between educational institutions and the industry will help develop for students programs that meet current market needs and help them acquire appropriate skills for their careers. For example, where industry advisory boards have been fully integrated with academic programs, they will be able to give ongoing feedback for adapting curricula to meet changes in employer needs (Practera, 2024). However, it requires huge investments and a to-the-hilt commitment from both educational institutions and industry players to set up such partnerships.

This picture is worse particularly in developing countries as the gulf between education and employment is generally more noticeable. Countries such as India and Pakistan have depressingly high rates of unemployment among graduates, which create an intense need for higher education reform in such countries, not for generating graduates but trained recruits for the industry. The National Skill Development Mission, for instance, is just one of those causes that will take the wider reach in India to provide the youth vocational and skill development training. But there are still grounds on which this alignment requires improvement with the industry man. In Pakistan, the Higher Education Commission has launched many initiatives to enhance graduate employability. Yet, these will have to serve some word in due course to determine their efficacy (Government of India, 2015).

#### **Gap Analysis**

The widening gap that exists between graduate employability and industrial needs is some kind of area important for investigation. This gap can be further divided into certain types, such as, literature gap, knowledge gap, theoretical gap, methodological gap, and empirical gap. Each of these gaps depicts some deficiencies in terms of the current understanding and research on graduate employability.

#### **Literature Gap**

The literature gap is thus defined as the absence of a more or less general inquiry into the efficacy of work-integrated learning (WIL) programs in enhancing graduate employability across different educational contexts. Of course, there are increasing streams of

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research dealing with the advantages of internships and co-op programs, but there exists hardly any literature that critically and systematically evaluates how these programs could be tweaked to address such needs across various industries and regions. Meanwhile, since many studies focus on specific disciplines, there is no way to develop an understanding of how WIL influences employability across a wide range of study areas (Robinson et al., 2024).

### **Knowledge Gap**

A knowledge gap can be described as a disparity between what is known today about graduate employability and what ought to be understood to close the gap between education and industry. For example, it is known that employers are looking for candidates with particular skills; however, little is known about which exact competencies are the ones that are most marketable. Such then becomes a question for educational institutions that may wish to evolve their course offerings in line with industry-specific needs (Ali et al., 2024). Another area of study that requires the attention it is being denied is the long-term impacts of WIL experiences on career pathways.

### **Theoretical Gap**

A theoretical gap means there are no sound theories explaining how educational practices relate to graduate employability. The existing theories mostly do not consider how quickly the labor market changes and how maybe technological changes influence skill requirements. That is, the existing models may not do well in explaining how new technologies, such as artificial intelligence and automation, dynamically alter the competencies that should be available in graduates (Kavuri & Milne, 2024). It is therefore necessary to develop an encompassing theoretical framework that would contain these aspects and guide future research and practice in this area.

### **Methodological Gap**

The methodological gap does point out problems in the research designs and approach of the study of graduate employability. Numerous studies make use of qualitative methods and hence rich in insight yet lacking generalizability. Obviously, these quantitative studies fail to capture the rich texture of graduates' and employers' experiences. There is a definite need for employing mixed methods that combine quantitative and qualitative data in order to arrive at a fuller view of the employability picture (Müller-Bloch & Kranz, 2024). This requires longitudinal studies that will follow the graduates over time, for reasons of assessing the long-term efficacy of educational interventions.

### **Empirical Gap**

The empirical gap refers to the absence of data-based evidence that particular educational practices are efficient in increasing employability. Although anecdotal evidence has maintained that WIL programs improve job readiness, empirically measurable studies of the impact of these programs on employment outcomes are very few and far between. Few case studies exist linking internships with placement rates, particularly in non-Western contexts (Liu et al., 2024). Closing this empirical gap is vital for fashioning policies and good educational practice aimed at improving graduate employability.

### **Research Objectives**

To ascertain the effect of work-integrating learning opportunities on employability for

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graduates. To find out how industry advisory board involvement impacts the employability of graduates.

To establish the connection between capstone projects and employability.

To evaluate the influence of entrepreneurship programs on graduates' employability.

To analyze how research and collaboration with the private sector improve graduate employability. To analyses the mediating role of skill development in between all factors (WIL, industry advisory engagement, capstone projects, entrepreneurship programs, and research collaborations) and graduate employability.

### Research Questions

What is the relationship between Work-Integrated Learning opportunities and graduates' ability to be employed?

How does industry advisory board engagement influence the employability of graduates?

In what ways do capstone projects contribute to graduates' employability?

What impact do entrepreneurship programs have on the employability of graduates?

How do research collaborations between universities and industries affect graduate employability? To what extent does skill development mediate the relationship between these factors (WIL, industry advisory engagement, capstone projects, entrepreneurship programs, and research collaborations) and graduate employability?

### Significance of the Study

This research's great significance lies in its implications for addressing the widening gap between graduate employability and demand in the industry, which today represents a serious concern in our labor market. Thus, the contributions of this research can be summarized in the following key areas:

**Furthering Educational Practice:** This research will consider ways to enhance educational practice by explaining effective strategies for integrating work-based experiences into the curricula. Improved educational practice would better prepare students for employment and thus notably enhance their employability (Robinson et al., 2024).

**Informing Policy Development:** The study findings can help inform the necessity for alignment between industry demands and educational programs to politicians. Such an alignment is necessary for developing policies supporting skill development initiatives able to partner educational institutions and industries (Ali et al., 2024).

**These Findings Will Shape Future Research:** This study will create avenues for future studies by highlighting lapses in the literature with respect to undergraduate employability. It will usher prompt attention by scholars to other less-investigated areas, namely, long-term effects of work-integrated learning and comparative effectiveness of interventions (Kavuri & Milne, 2024).

**Economic Growth Support:** Graduates help boost the economy by improving overall productivity and innovation of the workforce; therefore, findings from this study can narrow that skills gap and promote economic growth across sectors (Müller-Bloch & Kranz, 2024).

**Graduates' Powers are Strengthened:** This research would saliently equip and enhance the graduates' capability for career success in possession of requisite knowledge and competences and an accumulation of rich experiences. This information on employability-related variables will enable institutions to be better placed to assist their graduates toward achieving their career goals (Liu et al., 2024).

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### **Literature Review**

The graduate employability phenomena are increasingly taking center stage in consideration by educational institutions, industry and policymakers alike across the globe. In view of the constantly evolving labor market, characterized by technological advancement and changing economic situations, the need for graduates has become paramount to be equipped with skills and competencies relevant and applicable to industry. This literature review therefore seeks to examine the interrelationships among various factors influencing graduate employability, including work-integrated learning opportunities, industry advisory board engagement, capstone projects, entrepreneurship programs, and research collaborations, in addition to the mediation by skill development on such relations.

### **Work-Integrated Learning Opportunities and Graduate Employability**

Work-integrated learning is one of the processes by which several experiential learning engagements, namely internships, co-op programs, and placements, assist students in gaining practical experience in actual settings. It has been widely studied that work-integrated learning promotes employability, as it allows students to apply theoretical knowledge in practice while developing necessary skills and networking (Jackson, 2021; Liu et al., 2024).

Jackson (2021) found that graduates who undertook any WIL programs have reported a greater sense of confidence in their employability skills and were more likely to secure employment soon after graduation, while the systematic review done by Liu et al. (2024) confirmed the finding, asserting that WIL experiences have beneficial impacts on graduates' job readiness and employability outcomes.

Besides, WIL has been shown to help develop soft skills: communication, teamwork, and problem-solving, which employers highly value (Bennett et al., 2023). These skills are difficult to build in conventional classrooms, making WIL a significant feature of a valid educational experience. Understanding the significance of WIL, many institutions are resolving to integrate this aspect in their curricula to boost graduates' employability (Robinson et al., 2024).

### **Industry Advisory Board Engagement and Graduate Employability**

The involvement of an industry advisory board is one vital factor that determines graduate employability. The members of these boards normally comprise professionals from the industry who will orient the curriculum toward current developments in the industry in order to ensure that education aligns with industry trends. Research further finds that when industry members participate actively in the design of the curriculum, it allows for the embedding of pertinent skills and competencies that foster the employability of graduates (Ali et al., 2024).

In a study undertaken by Ali et al. (2024), it was found that programs that are heavily engaged with industry advisory boards reported higher levels of graduate satisfaction concerning preparedness for the workforce. This kind of engagement helps close the gap between education and industry and also creates links between students and prospective employers' (Kavuri & Milne, 2024).

In addition, another function of the advisory board is networking opportunities for students so that they can link with professionals in their field and gain insights into the industry's expectations (Müller-Bloch & Kranz, 2024). That exposure may lead to



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internships, job offers, or even mentorships, which in turn would yield better employability impacts.

### **Capstone Project: Graduate Employability**

Capstone projects are referred to as the final experience where students have to engage their knowledge and skills in solving problems related to real-life situations, typically in partnership with industry actors. They serve as adjuncts between academic learning and professional practice, providing students with the chance to exhibit competencies for future employers' (Tomlinson & Holmes, 2017).

As recent research indicates, capstone projects are a highly effective vehicle toward enhancing graduate employability, demonstrating critical reasoning, problem-solving, and teamwork competencies (Gurung et al., 2023). The Gurung et al. (2023) study further reported that students in capstone work had their confidence increased regarding their ability to solve complex problems in the workplace. In addition, these projects produce tangible outputs like reports or prototypes to support their employability through showcasing their work in portfolios (Hinai et al., 2020).

Likewise, in many instances, capstone projects bring students into immediate collaboration with industry partners. This means that students are exposed to the working environment and working expectations (Nugraha et al., 2020). This will shape the students' skills but may also enable them to build professional networks that will assist their job placement immediately after graduation.

### **Entrepreneurship Programs and Graduate Employability**

Higher education institutions have adopted entrepreneurship programs to promote innovation and increase graduate employability. The graduates learn skills and mindsets needed to combat the complex realities of the modern workforce: creativity, adaptability, and resilience (Khare, 2023).

Despite being proven that such participation produces positive dividends towards employability for graduates, through the development of transferable skills that are increasingly desired by the employers (Tomlinson, 2017), a study by Khare (2023) found that graduates engaging in entrepreneurship initiatives mentioned more job satisfaction and achieved greater career success than their peers who did not engage in these programs.

Scott (2016) adds that entrepreneurship programs also often motivate students to participate in concrete initiatives such as establishing new businesses or solving major business challenges, thereby improving their employability even further. Besides valuable knowledge gained, such experiences also demonstrate to employers the student initiative and their willingness to take risks as traits which are highly valued by them.

### **Research Collaboration and Graduate Employability**

Research collaboration between institutes and industries has emerged as a serious deterrent towards improving graduate employability. Most of these alliances involve joint research projects, internships, and knowledge transfer initiatives, wherein students can be engaged to resolve some worldly problems in practice with industry (Perkins & Neumayer, 2014).

Research collaboration contributes towards enhancing students' employability because of practical exposure to work environments it provides (Baker & Alhassan, 2019). According to McNaughton and Lichtenstein (2018), research collaboration has been

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beneficial for graduates, making them better job candidates as they report having improved problems and analytical skills.

Research collaboration enhances the acquisition of both hard and soft skills. Students on these projects are prepared better to tackle real workplace situations because of working together, communicating, and thinking critically (Kauffman & Tinsley, 2018). Again, such experiences provide a forum for networking, which can lead to openings and mentorship.

While the benefits of research collaboration have been established, little has been written in the research literature about the effect of research collaboration on graduate employability. More empirical studies are needed to quantify the relationship between the two and to better understand how research collaboration influences employability outcomes.

### **The Mediating Role of Skill Development**

Skill development has been a very important mediator among the above mentioned factors and graduate employability. While doing work-based learning, industry advisory board activities, capstone projects, entrepreneurship programs, and research collaboration-highlighted opportunities, students develop various other skills that improve their employability prospects at the end (Liu et al., 2024).

Research suggests that there is a need for hard and soft skill development for graduates to meet the perceived dimensions of their employers (Müller-Bloch & Kranz, 2024). For instance, a study by Jackson (2021) has shown that graduates engaged in WIL program experiences were able, besides improving their technical skills, to enhance critical soft skills, such as communication and teamwork that are vital for their success in the modern workplace. Skill development usually has to do with increasing self-efficacy and raising the self-confidence of graduates while transforming them into better employables (Bennett et al., 2023). Confident graduates feel liberated to chase up job possibilities and excel in interviews, fundamentally fairer employment outcomes (Robinson et al., 2024).

### **Underpinning Theory: Social learning Theory**

Social learning theory propounded by Albert Bandura underlines the fact that it is the most appropriate underpinning theory for the current proposed model as regards factors that influence graduate employability. This theory focuses on observational learning, imitation, and modeling, which help individuals adopt more new behaviors and skills.

### **Relevance to the Proposed Model**

Social Learning Theory states that a person learns when he observes what someone else is doing. Thus, it is in the context of the student's experience in the proposed theory of learning that he will observe as while he is doing an internship or co-op placement, he will work with professionals. It is through this opportunity that students gain life experience through demonstrating and participating in learn-and-practice activities which greatly boost their employability.

**Mentorship Theory:** the theory also suggests that role models and mentors are very significant in learning. Industry advisory boards and capstone projects might put a student in contact with some professionals who may act as mentors. This could help the student develop relevant skills and competencies for his or her career path, and ultimately evidence improved employability outcomes.

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**Reciprocal Determinism:** Social Learning Theory introduces the concept of reciprocal determinism, where personal factors, behaviors, and environmental influences interact. This would mean that all interplay through which they have been actively involved in programs that foster entrepreneurship and working in group projects were supported by means of an environment that encourages the application of one's skills and self-efficacy. Those graduates who are convinced of their ability will be more likely to chase opportunities and do well in interviews.

**Skill Development as a Mediator:** Any focus on learning within this theory corresponds to the proposed model on using skill development as a mediator. Learning experiences enabled students to acquire hard skills and soft skills through observation, trial and error, and feedback from peers and teachers that sometimes lead to higher employability.

With Social Learning theory as the backbone of the model proposed, it will give a perfect explanation for how any educational intervention contributes toward skills development that will, in turn, improve the employability of graduates in a job market that becomes increasingly competitive.

### **Theory in Practice: Applying Social Learning Theory to Enhance Graduate Employability**

Application of Social Learning Theory (SLT) in education presents a good platform for objective improvement of graduate employability. Through exposure learning, mentorship, and interactive learning environments, education can make possible programs that meet industry needs and equipped graduates with appropriate skills. This section will give some practical ideas for applying SLT in work-integrated learning settings such as industry engagement, capstone projects, and entrepreneurship programs ladder into research collaboration.

#### **1. Work-Integrated Learning (WIL)**

##### **Strategies for Implementation**

**Internship Programs:** Establish partnerships with businesses local to the area and create possibilities for internships for students. This enables the students to experience and view professional behaviors, workplace norms, as well as industry-specific skills in action. There can be regular feedback sessions where the supervisor is modelling effective practice and giving advice in a systematic internship programme.

**Peer Learning:** Encourage students to share internship experiences in a workshop or seminar. This type of peer-to-peer learning should foster a provision for students to learn from each other's observation and insights, thereby increasing their knowledge about employability skills.

##### **Expected Outcomes**

Learners involved with WIL are typically empowered to develop their practical competencies and self-assurance as they observe and model the practices of successful professionals in their field.

#### **2. Industry Advisory Board Engagement**

##### **Implementation Strategies**

**Mentorship Programs:** Initiate mentorship arrangements with students matched with professionals from the viewpoint of the advisory industry. They will have personal experiences to share their lives with students and demonstrate their effective practices in the workplace.

**Guest Lectures and Workshops:** Organize events in which industry leaders share their

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insights and experiences. Students can learn vicariously through these interactions, gaining valuable knowledge about industry expectations and career pathways.

### **Expected Outcomes**

Students, through mentorship and professional industry contact, gain a clearer understanding of the required skills for employability and build confidence in their professional abilities.

### **3. Capstone Projects**

#### **Implementation Strategies**

**Team Projects:** Design capstone projects involving a team working on solving one or more real-world problems proposed by the industry. This not only promotes teamwork among students but also allows them to learn from the strengths and weaknesses of each other.

**Feedback:** Include regular sessions in which the student presents their work to industry stakeholders, thereby enabling the student to gain external reviews. At the same time, observing the speakers also shows the student how industry professionals address problem-solving and management during presentations.

#### **Outcomes Expected**

Capstone projects that use SLT can result in improved critical thinking and problem-solving skills, and teamwork practices that are essential in getting employed.

### **4. Entrepreneurship Programs**

#### **Implementation Strategies**

**Startup Incubators:** Develop incubator programs for students to incubate and launch startup ideas. Through this experiential learning opportunity, students can observe successful entrepreneurs, learn from them, and apply those lessons to their startups.

**Workshops on Innovation and Creativity:** Conduct workshops that encourage creativity and innovation. Students learn through examples, case studies, and brainstorming sessions, conducive to skill development.

#### **Expected Outcomes**

Such programs means that it brings the SLT in the broader concept of real-life changes and will instill the new outlook for graduates-to-be into development that continues as the ever in debate causes for bringing innovations and flexibility in dynamic job worlds.

### **5. Research Collaboration**

#### **Methodologies for Implementation**

**Joint Research Endeavours:** Create cooperation projects involving students and faculty collaborating with industry partners. The projects will give students opportunities to engage in meaningful research while learning the methods and practices of experienced professionals in their area of research.

**Organizing Research Workshops and Seminars:** Organize workshops where industry researchers present their work and insights to students. They can learn about the current industry challenges and expectations with the mad skills needed for research and application in their professional environment.

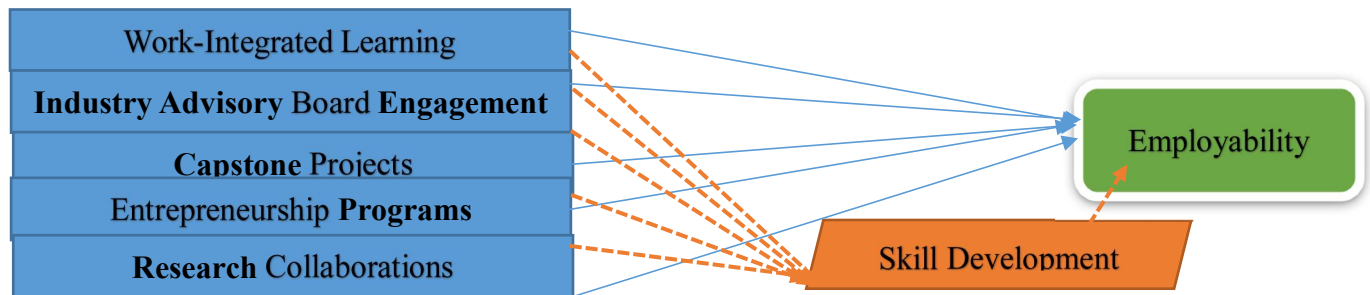
#### **Expected Outcomes**

Such research collaborations leveraging the principles of SLT will go a long way in sharpening the pupils' analytical and critical thinking skills. Students can develop an industry-relevant and thorough understanding of practices and expectations, which are

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vital in employability, just by observing and participating in research processes.  
CONCEPTUAL FRAMEWORK BASED ON SOCIAL LEARNING THEORY



### Hypotheses of the Study

These hypotheses will help guide this study on the factors responsible for graduate employability, based on the proposed methodology and the tenets of the Social Learning Theory:

#### Hypotheses

H1: An association exists between participation in Work-Integrated Learning (WIL) opportunities and the employability of graduates.

H2: Engagement with industry advisory boards positively influences the employability of graduates.

H3: Capstone project involvement significantly correlates with the employability of graduates.

H4: Entrepreneurship programs have a very important effect on the employability of graduates.

H5: Research collaboration between universities and industries significantly affects graduates' employment.

H6: Skills development mediates the relationship between social learning experiences (WIL, industry engagement, capstone projects, entrepreneurship programs, and research collaborations) and employability of graduates.

### Proposed Methodology Using Saunders' Research Onion Model

#### 1. Research Philosophy

This research will incorporate an adopted positivist philosophy, which views knowledge as objective and can be gained through empirical observation and measurement. This belief is in line with the postulate of reality existing independent from the observer and thus that the research be that in which data cannot be qualitative but be analyzable statistically (Saunders et al., 2009).

#### 2. Research Approach

The deductive approach is based on the already well-established Social Learning Theory, which contends that people learn behaviors and skills by observing and interacting with their milieu. Thus, the study will also develop specific hypotheses from this theory, which will be verified or disproved using quantitative data collection (Saunders et al., 2009).

#### 3. Research Strategy

The method will be mono-method and will only rely on quantitative data for the purposes of the research. This is the appropriate method that facilitates hypothesis testing and relationship building between and among the variables in a design (Saunders et al., 2009).

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### 4. Time Horizon

A cross-sectional data design will be used so that the data can be collected at a single point in time. In this design is most suitable in terms of capturing a snapshot of the present state of graduate employability and factors that influence it, as perceived by the target population (Saunders et al., 2009).

### 5. Data Collection

**Primary Data:** Primary data will be collected via structured questionnaires to be given out to the target population. The survey will have the following types of questions: closed-ended types, which are meant to measure several facets of employability and skills development, as well as the effects of social learning experiences on the respondents.

**Target Population:** This study targets recent graduates from universities and colleges located in a certain geographic region. The target group is since these people are affected by employability factors directly, and they are most likely to provide firsthand experience and perceptions on the same toward social learning in creating their career readiness.

### 6. Proposed Data Analysis

The analysis of the collected data will include some key aspects: Descriptive Statistics: In this onset, description of initial data analysis is by means of SPSS so that descriptive statistics would be computed and present an overview of the respondents' demographic characteristics, summing up how those respondents responded to survey items.

**Hypothesis Testing:** To test the formulated hypotheses regarding social learning experiences and graduate employability, Structural Equation Modeling applying Partial Least Squares (SEM-PLS) will be used. This method provides an opportunity to analyze complex relationships existing between different observed and latent variables for determining the effect of several variables on employability outcomes.

### 7. Research Design

The research design will be composed of the following parts:

**Sampling Method:** The study therefore proposes a stratified random sampling from study field demography that cuts across various disciplines in the population under study, which minimizes bias and increases the generalizability of the findings (Saunders et al., 2009). **Survey Instruments:** The survey instrument will be developed on the basis of previously reported literature and validated scales for measuring employability skills, social learning experiences, and demographic information. The instrument will be pilot tested to ensure the items are clear and reliable before full deployment.

### Conclusions of the Study

This study introduces a proposed model to describe the myriad influences on graduate employability but with work-integrated learning opportunities, industry advisory boards, capstone projects, etc., entrepreneurship programs, and research collaborations as the core focus. The conclusion emphasizes the necessity of their integration into higher education curricula if the students are to be prepared for the demands of the labor market.

Analysis has established that WIL opportunities greatly enhance graduate employability. Giving students the opportunity to undergo internships, work experience, and placements allows them to apply their theoretical knowledge in real-life settings through WIL. Such experiential learning helps to build technical skills and develop

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important soft skills such as communication, teamwork, and problem-solving. The very confidence graduates gain through WIL activities raises their self-efficacy and thereby increases their market attractiveness to employers.

Likewise, the involvement of industry advisory boards is critical for bridging the gap between academia and industry. By bringing in insights from industry professionals to aid the development of the curriculum, the educational sector ensures graduates have the relevant skills and competencies necessary in the eyes of an employer. This, in turn, improves the educational experience, and students can actually build valuable connections with networks that can lead them to prospective employers and opportunities for internships and job placements.

Capstone projects create even more opportunities to boost graduates' employability by exposing them to a real-world problem with industry partners. These projects mark the climax of students' academic sojourns, giving them chances to sell their competencies and critical thinking. The real outcomes from capstone projects, such as working prototype products or research reports, turn out to be very useful materials in students' portfolios to showcase their qualities to prospective employers.

Entrepreneurship programs emerged as well and have become significant contributors to graduates' employability. By cultivating an entrepreneurial mindset among students and equipping them with the skills to navigate the complexities of the present labor marketplace, they help engineering graduates promote creativity, adaptability, and resilience. Participation in the entrepreneurship initiatives allows students to demonstrate an ability to carry out realistic projects, thereby enhancing their employability through initiative and management of real-world challenges.

In the model developed, skill development assumes to be a rather important mediating factor. While during the WIL activities, students are taught to understand technical skills and soft skills through industry advisory board activities, capstone projects, and entrepreneurship programs. It is the concatenation of skills that make these acceptable to the changing demands of the employers. All these graduates who carry hard and soft skills have a better chance of making it in the competitive arena of employment.

Thus, the study recommends that educational institutions should integrate their curriculum design with experiential learning while engaging the industry. By prioritizing WIL, advisory board activities, capstone projects, and entrepreneurship programs, institutions will better prepare their graduates for employment opportunities. In addition, collaboration in research would further enhance the learning experience and prepare students for the world of work.

#### **Implications of the Study**

The implications of this study extend across various sectors, underscoring the need for a collaborative approach to enhancing graduate employability. By integrating experiential learning opportunities, fostering industry partnerships, and prioritizing skill development, educational institutions can better prepare graduates for the challenges of the modern workforce. Policymakers, employers, and students all have roles to play in this endeavor, creating a holistic ecosystem that supports employability and career success. Through these efforts, we can ensure that graduates are not only equipped with knowledge but also possess the practical skills and experiences necessary to thrive in an increasingly

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competitive job market.

### 1. For Educational Institutions

**Curriculum Development:** Educational institutions are expected to seek roles for WIL, input from industry advisory boards, capstone projects, and entrepreneurship programs in curricula. Thereby, students will be equipped with theoretical knowledge and practical skills and thereby able to gain prospective employment by their graduation.

**Experiential Learning Opportunities:** Institutions are supposed to develop partnerships with industries and organizations to provide their students with experiential learning opportunities. Internships, co-op programs, and collaborative projects give students real-world experience on which to build skills and confidence.

**Interdisciplinary Approaches:** The study argues that those curricula encouraging interdisciplinary approaches to education enhance learning experiences. Programs drawing from a number of disciplines provide students with a flexible skill set that meets the varied demands presented by different sectors.

### 2. To the Legislators

**Policy Formulation:** Legislators must concentrate on those policies designed to foster educational and industrial partnerships, thereby attempting to close the employment-related gap between education and the real world and giving graduates the experience of being market-fit.

**Funding and Resources:** Funding that sustains programs promoting work-integrated learning, research collaboration, and entrepreneurship will improve the quality of education and graduate employability. Essentially, a call should be made by the policymakers to the government to avail the funds aimed at developing work-integrated learning, research, and entrepreneurship.

### 3. For Employers

**Collaboration with Educational Institutions:** Employers are encouraged to actively engage with education institutions through their advisory boards and conduct internships and collaborative projects. This collaboration will ensure that the skill sets acquired by students meet the demands of the industry, leading to a more employable workforce.

**Investment in Skills Development:** Investing in the development of talent retains advantages for the employer, especially when he undertakes initiatives wherein universities are involved in the development of internship and mentoring opportunities. Such investments can groom a labor pool that is skilled and keeps pace with the changing requirements of the industry.

### For Students

**Proactive Engagement:** In a show of proactive education, students should seek WIL opportunities, engage in capstone-type projects, and participate in entrepreneurship programs. In so doing, students can increase their employability prospects and build valuable industry networks.

**Skills Makeover:** The study indicates the need to develop hard and soft skills. Therefore, students should prioritize skill-development activities such as workshops, networking, and career development programs that enhance their employability.

### Future Research

**An In-Depth Study of Research Collaboration:** The study notes that literature is lacking



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regarding the effect of research collaboration on employability. Future research should delve deeper into this relationship, substantiating the proposed model with empirical evidence.

**Longitudinal Studies:** The long-term consequences of different educational strategies on graduate employability could be observed by conducting longitudinal studies. Then, this could assist institutions to improve their practices and fit educational outcomes to labor market needs.

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