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The Employability Skills of Higher Education Graduates: A Review of Literature

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Abstract: Employability skills are identified as one of the valuable policy tools to upgrade mobility and earnings. Organization's employees are required to possess the knowledge and skills for increasing the organization's performance and competitiveness. Employability of graduates has become an issue that is not easy to be ignored in the global economy. However, the key employability skills need to be identify and categorised according to specific industry like interior design. It is a necessity to have a right set of employability skills for employer satisfaction. The purpose of this paper is to find out the required skill set for enhancing the employability of graduates and employees majorly focusing on interior design sector. This paper proposed the set of skills important for employability of interior design. Prominent databases were searched using combination of keywords and based on that 105 papers were selected for study. They were further filtered based on their title, abstract and findings and finally 25 papers were left. We have majorly focused upon eight sets of skills: communication skills, problem solving skills, teamwork skills, design skills, project management skills, computer skills, personal attributes and pre-graduates work experiences. On the basis of above-mentioned skills a checklist has been proposed which has been verified based on the literature review. The implications of this study will be helpful in guiding both industry and academia in incorporating and enhancing these skills among professionals

Keywords: Communication skills, problem solving skills, teamwork skills, design skills, project management skills, computer skills, personal attributes and pre-graduates work experiences

I. INTRODUCTION

In the context of education employability understand as employment rate gaining job during 6 months after graduate form higher education (Dacre Pool & Sewell 2007). According (Lees 2002) the UK government used the employability rate as evaluation tools to measure the higher education performance Historically review presented in above, provide an overview of some of the main approaches to concept, and moreover, bring into light a variety of theoretical issues concerning employability. Employability can be used in various contexts but in operation context, it may not be that clear or precise (Hillage and Tamkin, 1999).

Tuble 1. Definitions of the Employueinty				
Reference	Definitions of the Employability			
Hillage & Pollard (1998)	"Employability is the capability to move self-sufficiently within the labour market to realize potential through sustainable employment."			
Lefresne (1999)	"The probability, for a given group, at a given time, of finding a job or emerging from unemployment."			
Harvey 2001	"Employability is the ability of the graduate to get a satisfying job."			
Vander	"The continuously fulfilling, acquiring or creating of work through the optimal			
Heijaden(2005) use of competencies."				
Bernston sverke &	ston sverke & "human capital indicated by education, competence development and j			
Marklund (2006) tenure, has a positive relationship with perceived employability."				
Berntson (2008)	"Employability refers to an individual's perception of his or her possibilities of			
	getting new, equal, or better employment."			

Table 1: Defini	tions of the	Employ	yability
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According to some researchers, employability may be defined or described as the qualities, skills, competence and the ability to get a job and stay employed. (Berntsson, 2012; Knight & Yorke, 2006; Van Der Heijde& Van der Heijden, 2006; Hillage& Pollard, 1999; De Grid, Van Loo and Sandlers, 1999). But at the same time, few other come up with the



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argument that employability is just not about getting and acquiring abilities and qualities to get a job but it is related to the development and learning these abilities and qualities for the whole working life. (Harvey 2003; Bhaerman& Spill, 1988). Various researchers have strived hard to know and understand what qualities, skills and abilities are needed to make a person employable. Many researchers found out that an emplyer should be mixture of experience, education and personal traits which impact individual emplyability. (Knights & Yorke 2006; Hillage and Tamkin 1999; Van Der Heijde& Van Der Heijden 2005; Harvey 2003). The perspectives and viewpoints of various researchers have been explained below to show the different views on employability.

II. LITERATURE REVIEW

Definitions of employability skills: Over the decades, the employability skills have been interesting countries like Canada, united states, New Zealand, Denmark, UK, Australia, and others...(Sung et al. 2013) and Malaysia, to define employability skills as part of their supporting to microeconomic target. Employability skills are known by a number of different terminologies of concept in different countries, such as 'core competencies', 'transferable skills', 'personal skills', key competencies', 'soft skills', describe the skills demanding in workplace(Naanda 2010). in the table 2.2 list of different concepts getting used for employability skills in different countries oversees.

Table 2	Different concept and terms of employability skills
Country	Framework
Canada	Employability skills
France	Transferable skills
Germany	Key qualifications
Switzerland	Trans-disciplinary goals
Denmark	Process independent qualifications
United Kingdom	Key skills, common skills, core skills
USA	Workplace know-how, necessary skills, Basic skills
Australia	Key competencies, employability skills, generic skills
Singapore	Critical enabling skills training
Malaysia	employability skills

According to (Sung et al. 2013; Matters & Curtis 2008; Kämäräinen 2002) there are lack of common agreement language and understanding concept to employability skills can use in different forums in contexts. Find common terminology for employability, it is desirable between stakeholders for example higher education, individuals, employers and communities, as Kearns 2001 added (Naanda 2010).

A number of researchers have established several employability models from a wide range of conceptual and disciplinary perspectives, for example (Hillage and Pollard 1998, & Harvey, 2004). Perhaps, one of the most comprehensive models is provided by McQuaid and Lindsay (2005) (M&L) because, before proposing the model, they analysed different conceptual and disciplinary perspectives of employability from previous literature. Alternatively, one may simply consider the M&L (2005) model of employability because of the prominence is given to the employability skills necessary for employability.

a. The employability skills in Review of the literature in Malaysia

In this section the research review previous studies done in Malaysian context to identify the employability skills from employers' view about preparation of graduates as direct way to identify employability. In Malaysian context skills workplace have been studied widespread attention in their scholars and commonly debated in in different fields and various places. Architect (Salleh et al. 2016), Engineering and information and communication technology (computer) (Saad & Majid 2014), real estate (Adnan et al. 2012), Manufacture industry (Rasul, Abd Rauf, et al. 2012), General (Islam et al. 2013), open university Malaysia(Latif 2014), Accounting (Shamsuddin et al. 2015). Attributes of graduate's architects; an industry perspective (Salleh et al. 2016), they were studied view of employers according importance of graduate's attributes of architecture to collection data, 65 finalized were returned. The items of questionnaire identified by reviewed and screening process employability skills in different pervious literature review after that the experts finalized final list of attributes by determined 10 attributes such as teamwork, leadership, creativity, positives attributes. The finding that the teamwork, positive attitude and responsibility were ranked the



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highly important by 4.62, 4.65 and 4.73 respectively. The study contributed by providing the industry perspective according to employability skills wanted. Education provides productivity enhancing skills that employers value and reward (Bol, 2015) and through education, individuals can increase their relative position among other suppliers of labor. Moreover, although employability has been broadly defined as a collection of skills, attributes, and characteristics that employers expect from workers (Lowden et al., 2011), there is a lack of research to indicate how employability may be uniquely defined for graduate students. As detailed later, the skills, attributes and characteristics developed by graduate level students differ than those developed at the undergraduate level, yet the limited empirical studies on employability remain focused on employability of individuals who recently completed undergraduate level education (Finch et al., 2013; Wickramasinghe and Perera, 2010). Additionally, while researchers (e.g. Wickramasinghe and Perera, 2010) identify a need to empirically evaluate and define employability, our understanding of employability remains largely theoretical. Furthermore, even though employers are important decision makers in labor market outcomes, the limited empirical studies on employability focus largely on employee or student perceptions of employability (e.g. Blackwell et al., 2001; Gault et al., 2000).

Table 3: Employability	skills according to	various reference	from review of literature
racie et Emprogracime	similar according to		

	Teamwork	Problem solving	Decision making	Leadership	Time management	Communication skills	Interpersonal
Salah et al (2015)	х	х	х	Х	Х		
Anon (2016)					Х	х	X
Asmaak & Corresponding (2010)	х	Х					X
Shamsuddin et al. (2015)						Х	
Islam et al. (2013)						Х	Х
Adnan et al. (2012)	х	Х					
Rasul, Abd Rauf, et al. (2012)							х
(Sermsuk et al. 2014)		Х				х	

III. RESEARCH METHODOLOGY

It is the systematic and methodical process of searching, filtering, and classifying research papers. After reviewing 105 research papers which were selected via an automated search in seven prominent databases ProQuest, Elsevier, Emerald, Springer, Deloitte, TechSci Research, LSI Financial Services and Google Scholar. To identify the relevant research papers from these databases subsequent combination of keywords are used like "Employability skills," "Interior design Industry," "Employability Skills," "Employment," "Training Need Analysis," and "Training". The papers considered for this research were published on or before December 2016. The preliminary search resulted into a total of 105 hits, and then afterwards these research papers were filtered in two steps. In initial step of filtration-involves the manual scanning of the titles of all the research papers so as to remove the irrelevant ones. This resulted in the segregation of research papers, elimination of duplicates and opinion articles. The next step of the filtration involved reading the abstract and complete text of the research papers, if requisite. By applying this process of filtration, we were able to removed papers that didn't talk about employability skills and Interior design Industry as the pivotal concept, but simply cited them in the text. After this step, we were remained with only 25 peer- reviewed papers which are closely related with the concepts of the employability skills needed in Interior design Industry. This result reflected the need of identifying the skills required in Interior design Industry. This result us to identify the nine employability skills needed in the Interior design Industry.

III. FINDINGS AND DISCUSSION

Out of 25 research papers reviewed following skills were identified needed for employees in Design. Table 1, represents the nine skills viz. Communication skills, computer skills, Work Psychology skills, Teamwork skills, Interpersonal skills, Critical Thinking and Problem Solving skills, Self-management skills, Planning and Organizing skills and Conceptual and Analytical skills were identified, which are the backbone of any successful organization. Table 4 provides a list of employability skills used by each study discussed above. A comparison was made on the



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employability skills perceived to be important to graduates. The importance of the various skills of each study concerned was ranked based on the frequency of their appearances in these studies. It is assumed skills that were highly ranked were important skill. Table 5 shows the ranking of employability skills in respect to the studies concerned. There were only three employability skills (ranked first and second) that were significantly important, and these are as follow:

Table 4: Employability Skills						
(Saunders	(Yuzainee,	(Islam, Abdul	(Mohd	(Shamsuddin,	(Munohsamy,	(Salah et
and Zuzel,	Zaharim and	Hamid and	Shamsuri and	2015)	2015)	al ,2015)
2010)	Omar, 2011)	Manaf, 2013)	Izaidin, 2014)			
Oral	Communicatio	computationa	Problem	functional	Interpersonal	Teamwor
Communicati	n Skills	l skills	Solving Skills	skills	Skills	k
on			Communicati		Team Working	
Enthusiasm	Decision-	management	on Skills	communicati	Solving	Problem
Understandin	Making skills	skills		on skills	Problem skills	Solving
g Concepts		interpersonal	Presentation		Communicatio	
Integrity	Problem	skills	Skills	Organizationa	n Skills.	Decision
Commitment	Solving Skills	critical		1 &	Leadership	Making
Cooperation	Professionalis	thinking	Team	management	Decision-	
Team-	m	skills	working	skills	Making	Time
Working	Team working	enterprise			Lifelong	Manage
Dependability	skills	skills	Tool		Learning	ment
Questioning/		communicati	Handling		Skills	Commun
Listening		on skills	Competency		computer	ication
Attention to					Skills	Skills
Details						
						Interpers
						onal

Table 5: The Ranks of Employability Skills Based on Previous studies.

1 2	•	
Employability	Rank (No. Of	Employability
Skills	Studies)	Skills
Communication	4 (1 Out Of 7)	Questioning/Listeni
Teamwork	4 (I Out Of 7)	Attention to Detail
Problem Solving	4 (I Out Of 7)	Enthusiasm/Willing
		To Team
Leadership Skills	4 (I Out Of 7)	Integrity
Skills	4 (I Out Of 7)	Commitment
Self-	4 (I Out Of 7)	Understanding
Decision Making	4 (I Out Of 7)	Self-Confidence
Interpersonal	4 (I Out Of 7)	Positive Attitude
		\\\Ork
Business Skills	4 (I Out Of 7)	Leaning Skills
Planning	4 (I Out Of 7)	Professionalism
Critical Analysis	4 (I Out Of 7)	Literacy and
		Relevant to The
Time	4 (I Out Of 7)	Initiative
Skills		
ENGLISH		
	Skills Communication Teamwork Problem Solving Leadership Skills Skills Self- Decision Making Interpersonal Business Skills Planning Critical Analysis Time Skills	SkillsStudies)Communication4 (1 Out Of 7)Teamwork4 (1 Out Of 7)Problem Solving4 (1 Out Of 7)Problem Solving4 (1 Out Of 7)Leadership Skills4 (1 Out Of 7)Skills4 (1 Out Of 7)Self-4 (1 Out Of 7)Decision Making4 (1 Out Of 7)Interpersonal4 (1 Out Of 7)Business Skills4 (1 Out Of 7)Planning4 (1 Out Of 7)Critical Analysis4 (1 Out Of 7)Time4 (1 Out Of 7)Skills4 (1 Out Of 7)

IV. CONCLUSION AND LIMITATIONS

Organizations need people with high employability skills. It becomes important to acquire best of talent, in order to survive in cut-throat competition. However there is dearth of studies in Interior design Sector on employability skills in Malaysia. Employability Skills are just not those minimum skills needed to perform a job, rather this is the backbone for any service providing organization. Since Interior design, deals directly with the design it is mandatory to assure



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right kind of skills are trained time to time. For training employees, it becomes essential to segregate the kind of skill required at various job profiles. This paper is an attempt to provide necessary employability skills needed in interior design from the previous studies. Most of the literature has not touched few skills like computer skills, design skills and pre-graduates work experience, but the escalating demand of technology based infrastructure has increased the use of computer at workplace. Most of the research work is confined outside Malaysia. For an industry which is booming so fast and employee's higher number of people, it becomes important to select, train or retain them as per the skill meter

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