Challenging Job Demands as a Predictor of Work Engagement among Teachers: Role of Job Burnout

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Financial Disclosure: The authors declare no financial disclosure related to the submission.

Declaration of Competing Interest: The authors declare no conflicts of interest **Acknowledgement:** None

Author contribution: This paper was conceived by Amber Zahra based on her MS research work under the supervision of Dr. Najma Iqbal Malik. All authors contributed to the idea of work and all have co-written the manuscript. All authors approved the final version of the manuscript.

Abstract

Teaching as a profession has been considered to involve a wide range of job-related demands which required high flexibility and multidimensional skills. Though the teacher's core business is to enhance the achievements and learning of students yet many other underrated tasks such as university administration and development, cooperation outside and within and the university are required from the teacher, which become potential stressors and consequently acknowledged as a crucial feature for their burnout and turnover. The current research aimed to investigate challenging job demands, work engagement and job burnout among purposively selected universityteachers from Punjab Province, Pakistan. Challenging Job Demands (Makhdoom, 2017), Ultra-Short Measure for Work Engagement (Schaufeli et al., 2017) and Oldenburg Burnout Inventory (Demerouti et al., 2010) questionnaires were used to measure the variables of the present research. Results showed that challenging job demandshad a positive predictive relationship with work engagement, which meansthat those teachers who perceive their job as challenging were more engaged in work. Mediation analysis through Process Macron(version 3.5) revealed job burnout

significantly and partially mediated between challenging job demands and work engagement. The current study concluded that challenging job demands were a strong and positive predictor of work engagement among teachers. However, the present study also concluded a significant and partial mediating role of job burnout in the relationship of challenging job demands and work engagement of teachers. The present study has some recommendations for future researchers.

Keywords: Challenging job demands, work engagement, job burnout.

Introduction

Demands related to one's work have long been exclusivelylinked with undesirable consequences, i.e., it increases frustrationas well as anxiety (Ford et al., 2014). So, the pressure of time can be explained as "that individual perceives their time as not sufficient to complete a task and to complete the task one has to work more rapidly than routine" (Stiglbauer, 2018, p. 64) signifies a distinctive challengingjob demand that established on its ambiguous influences (e.g. Prem et al., 2018; Widmer et al., 2012). Time pressure or pressure of time is a dimension of challenging job demand that has revealed significant positive relations to engagement in work and exhaustion (e.g. Baethge et al., 2018; Prem et al., 2018; Schmitt et al., 2015).

In the academic world, worry/strain has been taken as themainobstacle, that is extremely disturbing the employee's performance at work, while researchers have emphasized that well educated and practisedemployeessuffer more from stress/strainin their professionsdue tooverloadedworksas for of the abilities they have in comparison to other workers (Shoaib, Mujtaba, & Awan, 2018). In accumulation, to the sector of the higher education department, teachers suffer from stress because ofextraordinaryexpectations related to the job and over workload which if not solvedaccurately, cause burnout (Yusoff & Khan, 2013).

Engagement in work is considered as a positive sign of well-being, signifying a fulfilled work-related and positive mental statewhich is categorized into three types as vigour, dedication & absorption (Schaufeli & Bakker2001). In literature, however, the notion of engagement in work is in its beginning, work engagement has primarilyattainedamplefocus theoretically (Byrne & Canato, 2017), it boosts the scholars to developever advanceindustrial &instinctualspeculativeconcepts into experimentalsciences for both societies& organizations. This type of strong emphasis is intendedforpromotingimpending and advantageousresults of work engagement, whichimproves the person's physical as well asmentalcomfort (Roelen et al., 2015), increasesthe enactment of organizations (Alessandri, Borgogni, Schaufeli, Caprara, & Consiglio, 2015), improves theinstitutional citizenship behaviour (Gupta, Shaheen, & Reddy. 2017), improves the institutional obligation (Hanaysha, 2016). employeesgratification with the job (Gutiérrez, Tomás, Romero, & Barrica, 2017), &individual'sretaining (Chen, 2017).

A survey revealed that work engagement slows down all over the world and is common throughout Asia (Roman & Frantz, 2013). It is obvious that if the supervisor/manager communicates well and identifiesthe difficulties/issues of his/her team members and empathizeswith them then staffsbecome extra engaged in their work (Byrne & Canato, 2017). Thus, organizations need to discoverbetter and effectivestrategies to boost their workers to diminishthe disengagement and exhaustion to help them in becoming even more absorbed and dedicated their place of work (Balch & Shanafelt, 2018; Southwick & Southwick, 2018).

Burnout syndrome is a result of stress-related to one's work (Maslach et al., 2001; Elshaer et al., 2018). Maslach et al. (2001) defined burnout by way of psychological disease that appears in reaction to emotional stressors. It affect workers of the organizations i.e. teachers, police, nurses and doctors were affected mostly due to high job demands. (Sarisik et al., 2019). World Health Organization (WHO) follows the Inter1national Classification of Disease 11 for defining burnout, such as an outcome of theprolongedjob or officestrainthat cannot manage by workers at their workplace (WHO, 2019).

Disengagement, exhaustion and engagement in work throughoutthe higher teachingdepartment of an Islamic nation like Pakistanhave become one of the basicconcerns for policymakers, teaching staffand professionals who are directly or ultimatelyaffected by the worker's low performance in these particular sectors. However, workers problems related to disengagement, exhaustion and engagement in work have been increased in Pakistani organizations for a couple of years (Bhatti, Alshagawi, & Syah Juhari, 2018).

Jobthroughout theeducationaldepartment is perceived ashard and demandingbecause the teacher's had to worklengthilytough in fulfilling the demands of their specificorganization and also have to coverthe course work in the requisitetime (Maricuţoiu, Sulea, & Iancu, 2017). When talking about the teaching field, the wage is low in this field in comparison to the size of a class. So, by increasing class size, issues also take place to such alevel that a teacher can become exhausted because only the teacher has to dealwith the student problems. Furthermore, workload and work pressure are increasing with time which eventually leads to cynicism and exhaustion (Ahola, Toppinen-Tanner, & Seppänen, 2017).

Literature Review

Past studies exhibited that pressure of time has significant positive correlation with both engagement in work (Baethge et al., 2018; Schmitt et al., 2015) and fatigue (Leinhos et al., 2018; Prem et al., 2018).The pressure of time may be positively and linked to working engagement becauseemployeesobserve a positive linkamong the struggles and the probability of effectivelyfulfillingthese demands, which results in practices of individualachievement. This postulation is also in support of the Job Demand-Resource theory that these workplace demands may trigger workers to devoteextraenergies to achieve and may consequently also showrole related to

motivational which disturbs the motivation related processes (Bakker & Demerouti, 2017).

Though, the Job Demand-Resource concept (Bakker & Demerouti, 2017) postulates that workplace-relatedhassles, though when being thought-provoking, quietneed and ditchthe individual's physical andpsychological resources which contributeto being high in individually practised indications of stress. Therefore, the pressure of time may be positively linked with exhaustion because it depletes and needspersonal resources by reflecting the anticipated health-impairment proceduretriggeredbyexperiencingthe demands related to the job (cf. Bakker & Demerouti, 2017). Though research studies about teachers' work engagement are limited in comparison to teacher exhaustion and disengagement, although engagement in

workhasbeenrevealedtoforecastaffirmativeresults(Hanetal.2016;Bermejotoro,PrietoUrs úa, & Hernández 2016).

Burnout is linked with variousoutcomes i.e.not coming to the job(Maslach, 2017; Gusy et al., 2019), problems related to health (Maslach, 2017; Simionato et al., 2019), an increase in errorsthroughout the work period (Stehman et al., 2019; Bakker and Wang, 2020), employees enactmentrelated to the job (Bakker and Demerouti, 2017; Bakker and Wang, 2020), and despair (Gil-Monte, 2012; Nagy et al., 2018; Hatch et al., 2019). Job demands are of utmostvitalassociated with fatigue (Bakker and Demerouti 2017). Severaltypes of researchesrelated to teacher'soverall comfort (comfort, health)haveshown that exhaustion is anadverseconsequence of stress alliedto work (Renshaw, Long & Cook 2015). Cynicism is expected to disturb the cognitive abilities of aworkerwhich make him less dedicated to work. Research on Iranian substantialassociationamongdisengagement, teachers showsa exhaustion and engagement in work (Faskhodi & Siyyari, 2018).

Additionally, two-wave longitudinal research has been completed innearly eight by Llorens-Gumbau and Salanova-Soria (2014) months which revealeda negativecorrelationamong the dimensions of burnout such as cynicism, exhaustion and employees engagement in work (vigour, dedication). The workers feelfatigued at a job when demands related to one's work are so high to deal with.Next, a research study examined by Hakanen, Schaufeli, and Ahola (2008) shows a negative relationship load by burnout amonga quantitative of work mediated and lowbodilyfunctioningsettings on the job gratification of faculty members.

The comparative and measurableamount of work of higheremploymenttakes one to disengagement and exhaustion which thentakeindividualstowardmental and physical symptoms which includeproblems related to headaches, cardiovascular and gastric system. Though, numerousresearches not insupport burnout as a third variable related to the job in the associationamong work-related demands and somatic wellbeing problemsamong thesample of Austrian blue-collar and white-collar employees. Thus, it lookslike demands related to the jobdisturbthe mental as well as physical health of employees directly or indirectly by burnout, which in resultdisturbsthe individual

and organizational results. It is obvious from the recentresearch findings that demands related to the job i.e. time pressure and cognitive loaddisturbworkers minds, andas a resultaffectsemployees engagement throughout the work (Bakker & Albrecht, 2018; van der Doef & Schelvis, 2018).

The present research aimed to examine the association of challenging job demands with work engagement and job-related burnout and to explore the influence of challenging job demands on teachers work engagement. Another objective was to find out the mediating part of job-related burnout in the relationship of challenging job demands and work engagement among teachers.

Based on the aforementioned discourse, it has been hypothesized for the current study that:

H1- Challenging job demands would be the positive predictor of teacher's work engagement.

H2- Job burnout would have a significant mediating role in the relationship amongchallenging demands related to job and work engagement among university teachers.

Method

Research Sample & Design

A purposive sample of 200 teachers was collected from different private and government universities in Punjab, Pakistan. So inclusion criteria were set as only teachers having two or more than two years of job experience, involvement in research-based activities with the educational level of M.Philand PhD were made part of this present research. Both male 51% and female 48% of teachers were part of the present study. Sample age range was 24 to 49 years (M = 35.14, SD = 6.15). The survey study design was applied in the present research and self-administered questionnaires were used.

Measures

Challenging Job Demands Urdu Version Questionnairewas developed by Makhdoom (2017). The scale consisted of 13 items and 3 subscales, time pressure, social load, and cognitive load with 5 points Likert scale response format range from (1= strongly disagree to 5= strongly agree). The realCronbach's alpha reported by the author for the total scale was .87, .87, .75and .84 for the total scale, time pressure, social load, and cognitive load, However, Cronbach's alpha for the present study was.89, .88, .77, and .77 for the total scale, time pressure, social load, and cognitive load respectively.

Work Engagement Scale called as Ultra-Short Measure for Work Engagement with 3 items constructed as well asauthenticated by (Schaufeli et al., 2017) was applied to measure teacher's vigour, dedication and absorption in their work. It was a 7 points Likert scale response format that ranges between (1= never to 7= always). RealCronbach's alpha was reported by the author across five countries Finland.80, Japan .85, Netherlands .82, Flanders .85 and Spain .77. For the current study work engagement scale was translated into the Urdu language. The scale was translated in

Urdu with the help of a committee approach. The committee approach is a more convenient and better way of translating the scalesas it involves more than one experienced persontherefore chances of mistakes and errorsbecome less. Furthermore, it also decreases the chances of biasnessdue to the involvement of more than one/two experts. Likewise, it also involves pretesting the translated scales which facilitate the translated scales and gives chance for modifications in these scales (Pan & Puente, 2005; European social survey, 2012). The translation procedure invents measures of all the constructs applied in Part-II of the present research study which wasrevealed excellent psychometric properties. However, the alpha value inthe present research was found to be good such as.90.

Oldenburg Burnout Inventory (OLBI) wasconstructed by Demerouti et al. (2010) and transformed into an Urdu version by Iqbal (2019). This scale consisted of 16 items with two subscales disengagementand exhaustion with 4 points Likert scale (1= strongly agree to 4= strongly disagree). For the current study, the Urdu translated version of the scale was used which was translated by Iqbal (2019). Thus original reliability reported by the author for the overallquestionnaire was .85. However, the alpha value for the present study was .69, .61and .63 for the total scale, disengagement and exhaustion respectively.

Procedure

The current research study was started after the formal approval of the research topic by the Institutional Research Board in Psychology, University of Sargodha, Pakistan. For conducting this study, proper permission was taken from the authors who constructed the scales. For the current research purposive sample of teachers was contacted at the different private and public universities of Sargodha, Lahore, Faisalabad and Islamabad and explained to them the aim of the study. However, the researcher adhered to APA ethical guidelines strictly and the sample was properly debriefed about the objectives of thisresearch study, informed permission was taken and confidentiality assurance about collected information was provided as ethical research is vital for good scientific inquiry and this standard was ensured. To reach the far respondent's online Google form was generated and for near respondents, questionnaire booklets were distributed. For this research data, the collection period was from January 2021 to April 2021. To test the study hypotheses and study was conducted on 200 samples and data transported to an SPSS data set.

Results

Table 1

Mean, standard deviation, Alpha reliability and Correlation analysis for Study Variables(N = 200)

Variable	М	SD	Range	Cronbach's α	CJDs	WE	JBO
CJDs	45.26	9.08	13-65	.89	-	.48**	27**
WE	15.93	4.58	3-21	.90		-	39**

JBO	35.74	5.05	21-50	.69			-
Note CIDs - shallonging job domends: WE - work angegement: IBO - job hymout							

Note.CJDs = challenging job demands; WE = work engagement; JBO = job burnout **p<.01.

Table 1 shows psychometric properties and Pearson correlation for study variables. Challenges related to job demands has significant positive correlation with engagement in work as (r= .48, p < .01) and has significant inverse correlation with job related burnout as (r= -.27, p < .01). This correlation might be inferred that challenging job demands have a positive relationship with engagement in work but have a negative correlation with job-related burnout. Results also indicated that work engagement has a significant negative correlation with job-related burnout as (r= -.39, p < .01).

Table 2

Regression	Coefficients of	Challenging Job	<i>Demands on Work Engagement</i> $(N = 200)$

Variable	В	β	SE
Constant	4.93**		1.45
Challenging Job Demands	.24***	.48***	.03
\mathbb{R}^2	.23		
***= < 001 **= < 01			

***p < .001. **p < .01.

Table 2 shows the influence of challenges related to job demands on work engagement among university teachers. The R² value of .23showed that the independent variable elucidated23% change in the dependent variable with F (1, 198) = 59.65, p <.001. The findings revealed that challenging job demands positively predicted work engagement (β = .48, p < .001).

Table 3

Paths	Outcome	Predictor Variable	β	SE	95% <i>CI</i>	
	Variable					
					LL	UL
a	WE	CJDs	20***	.03	.14	.27
b	JBO	CJDs	15***	.04	23	07
с	WE	JBO	26***	.06	37	15
d	WE	CJDs through JBO	.04	.01	.02	.06

Standardized Path Coefficients for Direct and Indirect Effects of CJDs (N = 200)

Note. CJDs = challenging job demands; WE = work engagement; JBO = job burnout. ***p < .001.

Results of table 3 indicated that challenges related to job demands was significant predictor for engagement in work ($\beta = .20$, SE = .03, 95%CI {.14, .27}, P< .001), challenges related to job demands was significant predictor for job burnout ($\beta = .15$, SE = .04, 95%CI {-.23, -.07}, P < .001) and that job burnout was significant predictor for work engagement ($\beta = -.26$, SE = .06, 95%CI {-.37, -.15}, P < .001). Results shows that job burnout was significant predictor of work engagement after controlling for the mediator, job burnout ($\beta = .04$, SE = .01, 95%CI {.02, .06}), consistent with mediation. Nearly, 30% of the change in work engagement was

accounted for by the predictors ($R^2 = .30$). The indirect effect was tested by applying a percentile bootstrap estimation method with the 5000 samples, and executed with the Process Macro Version 3.5 (Hayes, 2017). These above results revealed that indirect coefficient was significant, ($\beta = .04$, SE = .01, 95%CI {.02, .06}. the mediator job burnout, accounted for approximately 95% of the total effect on work engagement [PM = (.20) / (.04)].



challenging job demands and work engagement

Discussion

The currentresearchstudy attempted to examine the association of challenges related to job demands with engagement in work and to see the influence of challenges related to job demands on work engagement among university teachers. One of the other objectives was to explore the mediating role of job burnout with challenges related to job demands and work engagement. Generally, all the hypotheses testing yielded significant results regarding the present study. The present study hypothesized that challenging job demands would be the positive predictor of teacher's engagement in work was accepted as significant findings revealed that challenging job demands ensure a strong significant and positive impact on employees work engagement. However present study results are in line with literature as time pressure one of the challenging job demands has the power to stimulate a motivational procedure (e.g. Baethge et al., 2018), on daily observations Baethge et al., (2018) expected a positive correlationamong the pressure of time and engagement throughout the work. Examining the influence of pressureof time on work-related consequencessuch as burnout and engagement in workinthe daytime is established on the inconsistentinfluences of the pressure of time on engagement in work when seeing intra-individual variants (withinindividualinfluences; e.g. Baethge et al., 2018; Prem et al., 2018). Furthermore, twoyear longitudinal research done by Mauno and colleagues (2007) revealed that pressure of timepredicts higher intensities of work absorption. Experimental studies showed that those individuals who are likely to be engaged in demanding tasks perform better because they focus their full attention on the duty (Hopstaken, van der Linden, Bakker & Kompier, (2015; Hopstaken, van der Linden, Bakker, Kompier & Leung, 2016).

This research also hypothesizes that burnout related to the job would have a significant mediating role in the association challenging job demands and engagement in work among teachers. This study results determined the significant and partial mediating role, which showed that burnout related to the job has a mediating

role in the relationship of challenging job demands and one's engagement in work. In the currentresearch challenges related to jobs, demands are measured by a new construct challenging job demands scale consisting of three subscales as time pressure, social load and cognitive load. Though these constructs are difficult to manage during working hours, if an employee wants a high position, high salary and a lot of achievements from the job then the employee will accept these constructs as a challenge. By accepting a challenge or tough job one has to perform duties with absorption, dedication and vigour which fulfil the criteria of work engagement. But, it is natural that at any point a person that may be a school teacher, college teacher, university teacher or is working in any other organization can become exhausted or may feel the strain from work.

Aresearch investigationdone by Hakanen, Schaufeli, and Ahola (2008) shows a negative relationship mediated by burnout among a quantitative load of work and deprivedbodily working settings on job gratificationamongeducators. The comparative and measurableamount of work of extraordinary job takes one's towarddisengagement and exhaustion which then takesindividuals tomental as well as somaticindications, such ascephalgia, issues of the circulatory system and gastric issues. Though, numerous researches don't confirm the mediating role of job-related burnout in the association of demands related to the job and somatic health problems in a sample of Austrian bluecollar and white-collar employees. Thus, it looks like demands related to the job disturb the mental as well as physical health of employees directly or indirectly by burnout, which in result disturbs the individual as well as organizational consequences. It is obvious by recent research investigations that demands related to job i.e. time pressure disturb member of staff minds, and as a result affectsdisengagement, exhaustion and engagement throughout work (Bakker & Albrecht, 2018; van der Doef & Schelvis, 2018).

Though, the Job Demand-Resource theory (Bakker & Demerouti, 2017) postulates that demands related to the job, though being challengingand quiet need and ditch the individual's physical and psychological resources which contribute to arise in individually experienced indications of stress. Therefore, the pressure of time may be positively linked to exhaustion because it depletes and involvespersonal resources, reflecting the suggested health-impairment procedure triggered with the experience demands related to the job (Bakker & Demerouti, 2017).

Limitations

Like other social science researches, the present study also had some limitations. The first limitation was that the current study used quantitative measures which may limit the respondents from freely expressing their burnout about their job. Present study results cannot be generalized throughout Pakistan because of self-report measures, limited sample and cross-sessional study design which prevents the researcher from exploring any conclusion regarding the causes of the relationship. **Practical Implications**

The present study might be helpful to facilitate the teachers to increase their level of engagement towards their work. This study is also helpful for those employees who face time pressure, social load as well as cognitive load in their organizations because it makes their job challenging and hence decreases the level of burnout. The present studyresults also indicated that university teachers become extra engaged in their work when they are facing time pressure, consequently,the university's management system must confirm that their staff are persistently been provided with a duty that requires to be accomplished in a restricted time of the frame. Moreover, this research study findingcould be helpful in business, educational psychology and also in human resource administration.

Conclusion

The current study concluded that challenges related to job demands strongly and positively predicted the engagement in work among university teachers. However, the present study also concluded the significant and partial mediating role of job burnout in the association challenging job demands and engagement in the work of teachers.

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Journal of Contemporary Issues in Business and Government Vol. 28, No. 01, 2022 <u>https://cibg.org.au/</u>

P-ISSN: 2204-1990; E-ISSN: 1323-6903 DOI: 10.47750/cibg.2022.28.01.001

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