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# A Research for Measuring Administrative Effectiveness

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**ABSTRACT** The purpose of this research is to develop an instrument for the evaluation of administrative effectiveness, by discussing the aspects of organizational effectiveness and organizational levels in a university. The sample of the research consisted of 203 academic personnel as the study group of the research. The results of the study indicated that university organizations can be evaluated through administrative effectiveness criteria that are developed by synthesizing four levels into organizational structure of the universities. The results of the study also showed that there is a fifth level at policy-strategy level and a study which is conducted without considering this aspect will be insufficient. The results also revealed that evaluation tool for administrative effectiveness which is developed to that end and be used in administrative effectiveness research and studies in universities.

## **INTRODUCTION**

Although many studies have been conducted, only some of them have focused on administrative actions and behaviors. This kind of researches have introduced intuitions and ideas about formal and informal elements of the administrative duties, allocation of time among these duties, interpersonal interaction network, basic subjects of characteristics of administrative duties (Steward 1989). This relationship was noticed by a rarely applied research trend and examined delicately. This trend dealt with the actions and behaviors of managers to measure the effectiveness (Cammock et al. 1995).

The concept of administrative effectiveness has been defined differently by different authors due to its complex nature (Bao 2009). Some researchers defined it as "administrative effectiveness is the positive response to administrative efforts and actions with the intention to accomplish stated goal (Akomolafe 2012; Ademilua 2012). Although, administrative effectiveness is defined as the product of a series of complex

Address for Correspondence: Dr. Mehmet Durdu Karsli, Department of Educational Administration, Faculty of Education, Eastern Mediterranean University, Famagusta, North Cyprus via Mersin 10 Turkey Telephone: +90 392 630 4044 Fax: +90 392 630 4038 E-mail: mehmet.karsli@emu.edu.tr nested relations and an interaction pattern (Cammock et al. 1995).

An administration's capacity to forecast problems beforehand shows itself as a result of the characteristics and behaviors in his personal relationships and consulting criteria. In leading a group, the concept of leadership is regarded as effectiveness (Adeniyi and Omoteso 2014). Effective administration requires a balance of skills among many dimensions (Cammock et al. 1995) and these dimensions and parameters are influenced to a different degree by personal, organizational, and environmental contextual factors (Analoui 2007). This balance includes not only a series of quality behaviors but also many personality traits as an administrator.

Organizational size is another contingency variable which is thought to affect the effectiveness of different organizational forms (Hofler 2010). Small organizations can behave informally while larger organizations tend to become more formalized. The owner of a small organization may directly control most of the organizational processes, but large organizations require more complex and indirect control mechanisms. Large organizations can have more specialized staff, units, and jobs (Amah et al. 2013).

Organizational development is regarded as improving the organizational effectiveness and defined as the process of preparing and managing the change in an organization (Gibson et al. 1994). Based on this definition, organizational development is considered as an administrative technique or tool to complete main changes in an organization. Organizational development as an administrative technique fulfills real administrative values without regard to the values of means of change. Thus, organizational development is evaluated in an ethical frame and regarded as an ethical concept (Garza 1991). Administrators can perform organizational development in a number of ways. This is because managing the change includes very important and non-ignorable ethical matters. Additionally, administrators can use various approaches to manage the planned change (Lovelady 1994).

In an organization, the knowledge worker is the production factor that makes highly developed societies and economies, such as the United States of America, Western Europe, Japan and some other countries. These countries keep up their competitive edge maintaining their status simultaneously. The real fortune of the US that gives the country a competitive advantage is education. Education itself is something that offers tremendous advantage. Thus, knowledge workers become productive. For a knowledge worker, productivity is the ability to have the right things carried out. This is the administrative effectiveness itself (Drucker 1994).

Every knowledge worker employed in a modern organization is an administrator because s/ he displays actions that affect their organization positively or negatively. Someone in this kind of a position must make his/her own decisions. He or she cannot be the person who is following the orders only. Such person must take responsibility for his/her own contribution. This person can be deactivated, relieved of his/her powers or dismissed. However, as soon as s/he has a job, his/ her goals, standards and contribution are under his/her own supervision.

Whether a knowledge worker is an administrator, does not depend on whether s/he administers people. The knowledge work cannot be defined in terms of figures, money and cost. It can only be defined with its results. Furthermore, the structure of the group and size of administrative staff are not that determinative. This is because the authority of knowledge is effective as much as the authority of position (Drucker 1994).

Universities are the organizations with the highest number of knowledge workers and these organizations are actually complex systems. Complex systems are divided into power levels hierarchically (Miller 1978). In organizations, these levels are defined as individual, group, intergroup and organizational levels (Rousseau 1985; Staw 1984). This kind of typology of organizational levels is common in works and studies on organizational behavior and organizational development.

A model developed by Rashford and Coglan (1987) regarding the organizational levels is recommended to harmonize four different behavior levels in a systematic manner and to cover them together. In this model, organizational levels are determined as individual, face-to-face team, group-divisional and policy-strategy.

The study by Rashford and Coglan suggests that effectiveness of university administration can be maintained by using four levels of organizational behavior (individual, team, group-division, policy and strategy) or organizational behavior levels in a university, because these levels are important and critical for effective administration.

Effectiveness within the scope of organizational behavior is defined as the optimal relationship among productivity, quality, effectiveness, flexibility, satisfaction, competitiveness and development (Gibson et al. 1994). The field of organizational behavior defines three levels of analysis. These are individual, group and organization (Gibson et al. 1994, Rashford and Coglan 1992). Accordingly, these analysis levels determine three levels of administrative responsibility. These are effectiveness of individuals, effectiveness of groups and effectiveness of organizations (Gibson et al. 1994).

Determination of administrative effectiveness criteria may be useful in the evaluation of university administration by combining four aspects of organizational effectiveness (adaptation, goal attainment, integration, and creating and sustaining original values) and four organizational levels of the university (individual, team, group-divisional and policy-strategy).

## Aim

The purpose of this research is to develop an instrument for the evaluation of administrative effectiveness, by discussing the aspects of organizational effectiveness and organizational levels in a university.

To achieve this purpose, the following research questions guided the study:

- 1. What are the anticipated effectiveness criteria for each organizational level in a university?
- 2. To what extent are the criteria determined for each organizational level associated with the aspects of organizational effectiveness?

## **Importance of the Research**

The evaluation of effectiveness depends on its purpose and the area of effectiveness (Miles 1979). This research will contribute to existing knowledge by defining the areas of administrative effectiveness in a university in line with administrative objectives.

In modern society, the focus of attraction has shifted towards the knowledge workers in these organizations. Those who know how to use knowledge, theory and conceptual thinking can become effective as much as they contribute to the organization. What makes the knowledge work effective is to focus on achieving the set goals of an organization. It is impossible to supervise knowledge workers directly or thoroughly. They can only be assisted. They must guide themselves to increase their performance and achieve efficiency (Drucker 1994). With this research, it is expected to offer useful insight and guidance to universities where knowledge workers are densely populated.

Apparent organizational characteristics of higher education institutions pose special problems for researchers in selecting the criteria of organizational effectiveness and evaluating such criteria. By this reason, just like the problems related to the concept of organizational effectiveness, the characteristics of institutions operate as obstacles in evaluating the effectiveness of universities and higher education institutions in an empirical manner. The researchers could not be reached any research directly related with this context in the literature for measuring administrative effectiveness in higher education institutions directly. Although there are implications and theories about the administrative effectiveness of universities or higher education institutions, there is no research encountered directly on administrative effectiveness. Thus, the results of this research will be a guild for future researches.

### MATERIAL AND METHODS

This is a descriptive research with a survey prepared for literature review and evaluation of effectiveness criteria in order to develop an instrument for measuring administrative effectiveness.

## **Population and Sample**

Population of the research consists of all academic staff working at faculties and vocational high schools of Abant Izzet Baysal University.

The research is conducted on the entire population, without sampling. However, not all population has been reached because some of them were on sick leave or abroad. Only 203 of 315 academic personnel could be reached (see Table 1). Thus, they are the study group of the research.

 Table 1: Breakdown of the population and study group

Academic title	Total	Contacted
Professor	23	16
Associate Professor	7	6
Assistant Professor	38	28
Research Associate	105	62
Instructor	100	55
Lecturer	34	29
Expert	8	7
Total	315	203

## **Data Collection**

The data was gathered in four stages. In the first stage, researches on organizational and administrative effectiveness in the literature were reviewed, and then effectiveness criteria used in these researches were determined and listed.

In the second stage, all determined criteria were arranged in the form of judgment and an inventory with 200 items was created. This inventory was given to experts in the fields of educational administration and measurement and evaluation in education to determine the content validity, and necessary adjustments were made based on the opinions and recommendations of these experts.

In the third stage, the reliability of prepared inventory was tested in 50-person pilot group every 15 days by using test-retest method (see Table 2). In the final stage, 32 draft items which are inoperative according to the test-retest results were excluded, and 168-item inventory was administered personally by the researcher to the sample group between the dates December 10, 2012 and January 20, 2013, and data collection was completed on February 30, 2013. After that, reliability coefficient of the data collection tool was calculated as (a = .8910).

## **Analysis of Data**

The data were analyzed in three stages.

In the first stage, inventories were numbered, the answers of subjects were grouped and coded and made ready for processing.

In the second stage, the coded data were entered in "SPSS (Statistical Package for Social Sciences) for Windows", and refined and made ready for analysis.

Finally, the data were analyzed using SPSS. In the analysis of data, factor analysis was used. The following actions were made in sequence in the analysis of data. MEHMET DURDU KARSLI AND SEVILAY SAHIN

The items were subjected to factor analysis and their distribution to suitable factors was determined.

## FINDINGS AND DISCUSSION

Research findings and comments about them are given in two sub-headings, namely the findings about the demographic characteristics of subjects and the findings about the sub-problem. Findings related to demographic characteristics are given in Table 1. The results of analysis that determine the distribution of items by factors and their relations are given and discussed (Table 2).

 Table 2: Test-retest correlation

Variable	Ν	Arithmetic mean	Standard deviation	
Pretest	50	165.8700	41.5213	
Posttest	50	165.3200	41.6014	
Correlation	50	r = .8680		

The results of factor analysis which shows to what extend the effectiveness criteria deter-

Table 3: Factor analysis on the aspects of organizational effectiveness at individual level

Aspects	Items		Factors		
		Factor 1	Factor 2	Factor 3	Factor 4
Creating and sustaining the	6	.73793	.24633	.16852	07962
values system	4	.72888	.30507	.05499	.10835
•	1	.72290	.22768	.21166	12072
	15	.71233	.14417	00197	.15348
	5	.69766	.20909	.16349	.15903
	2	.67897	.38338	.19671	01380
	2 8	.64852	.31533	.00492	.09612
	7	.64394	.15370	.29199	.01213
	14	.59635	.16772	.31486	.18541
	17	.56846	.40173	.44414	.02420
	9	.55781	.34205	.39538	.04991
	16	.52675	.43157	.34520	01992
	3	.45699	.43442	.32236	19114
Goal attainment	27	.38847	.77425	.09359	01663
	20	.12155	.73963	.01857	.13015
	18	.29694	.67362	.36245	.05605
	26	.52027	.54557	.09648	.09499
	28	.45429	.53770	.25676	13985
Integration	13	.07775	13061	.79187	.03132
6	12	.05931	.15842	.68919	.01441
	10	.18547	.08857	.68003	.06438
	9	.29820	.14888	.56407	.33407
	11	.45159	.25111	.51501	.11823
	21	.45362	.27508	.49258	.13767
Adaptation	22	.12091	.18176	11688	.80513
<b>I</b>	24	.25302	.14034	.15754	.73088
	30	03766	.00412	.14549	.69578
	23	.27159	.02230	.31103	.66022
	25	.34749	.02916	.10664	.63752
	19	.05628	.12397	.25665	.42695
	Variance (%)	40.4	7.4	5.9	4.3
	Eigen values	12.1	2.2	1.7	1.3

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mined for "individual level", the first organizational level in an university, are associated with the aspects of organizational effectiveness, and the distribution of items by aspects are given in Tables 3 and 4.

Table 4: Factor transformation matrix at individual level

	Factor 1	Factor 2	Factor 3	Factor 4
Factor 1	.71545	.56630	.39096	.12073
Factor 2	05051	52080	.85202	01691
Factor 3	41166	.23903	.13894	.86839
Factor 4	.56224	59239	31924	.48067

As it is seen in the tables, effectiveness criteria determined at individual level are grouped in four factors. This result supports previous researches about the four aspects of organizational effectiveness (see, for instance, Hoy and Miskel 1987). The result also sustained recent studies on the positive behavioral statements of managerial effectiveness (Wang 2011).

In the factor analysis on effectiveness criteria at individual level, the items above .45 are taken into account. Although loading of item 19 is .42, it is included there, because individual level is the most concentrated level among other factors.

According to Factor Analysis on the Aspects of Organizational Effectiveness at Individual Level, items about fourth aspect (creating and sustaining the values system), second aspect (goal attainment), third aspect (integration) and first aspect (adaptation) of organizational effectiveness are covered under the first factor, second factor, third factor and fourth factor, respectively. Percentage of variance of these items are calculated as follows; 40, .04 in the first factor, 7, .04 in the second factor, 5, .09 in the third factor, and 4; .03 in the fourth factor. Eigen values are found as follows; 12.1 in the first factor, 2.2 in the second factor, 1.7 in the third factor and 1.3 in the fourth factor.

According to the Correlation of the factors, the first factor is correlated positively with itself and second factor with the third factor, while the third factor is correlated positively and most densely with the fourth factor that is negatively correlated with the second factor. The result that the factors are correlated with each other in this way can be interpreted as another expression of proper distribution of items to factors.

The results of factor analysis which shows the extent to which the effectiveness criteria determined for "team level", the second organizational level in an university, are associated with the aspects of organizational effectiveness, and the distribution of items by aspects are given.

As it can be seen in the Tables 5 and 6, effectiveness criteria determined at team level are grouped in four factors. These results are similar with the results of previous researches about the team level which is one of the levels in a university (Cameron 1978).

In the factor analysis on effectiveness criteria at team level, the items above .53 are taken into account. The fact that the results are considerably high degree is regarded significant in terms of internal consistency of items. As displayed in tables, items about the second aspect (goal attainment), the fourth aspect (creating and sustaining the values system), third aspect (integration) and first aspect (adaptation) of organizational effectiveness are covered under the first factor, second factor, third factor and fourth factor, respectively. Percentage of variance of these items are calculated as follows; 68.5% in the first factor, 4.4% in the second factor, 3.8% in the third factor, and 2.6% in the fourth factor. Eigen values are found as follows; 18.4 in the first factor, 1.1 in the second factor, 1.0 in the third factor and .6 in the fourth factor.

According to correlation of factors at the team level, the first factor is correlated positively with itself and second factor with the fourth factor, while the fourth factor is correlated positively and most densely with the with the third factor, and the third factor is negatively correlated with the second factor. The result that the factors are correlated with each other in this way can be interpreted as another expression of proper distribution of items to factors.

The results of factor analysis implied the extent to which the effectiveness criteria determined for "group-divisional level of university", the third organizational level at a university in Turkey, are associated with the aspects of organizational effectiveness, and the distribution of items by aspects are given.

As it can be seen in the Tables 7 and 8, effectiveness criteria determined at group-divisional level of university are grouped in four factors. This supports the results of previous researches about the university group-divisional level which is one of the levels in a university (Rashford and Coglan 1992).

Aspects	Items		Factors			
		Factor 1	Factor 2	Factor 3	Factor 4	
Goal attainment	24	.84879	.35967	.15829	.12567	
	26	.81949	.39248	.10379	.15745	
	25	.81653	.37590	.11990	.20664	
	23	.80319	.38521	.19550	.15322	
	22	.78352	.46293	.14609	.20662	
	27	.73729	.31607	.31569	.12497	
	19	.70702	.47253	.29412	.02802	
	20	.66590	.49748	.26779	.08624	
	18	.64985	.51878	.31690	.08091	
	10	.60425	.55405	.17479	.21935	
Creating and sustaining the						
values system	4	.29913	.81287	.02413	.24097	
2	7	.32520	.79942	.08044	.16990	
	2	.41989	.70574	.18625	04435	
	8	.34805	.69925	.40859	.08497	
	6	.47424	.69035	.07112	.27228	
	5	.51235	.68087	.19772	.13439	
	13	.42846	.65770	.29687	.17755	
	3	.45626	.64460	.25068	.22365	
	17	.52233	.63815	.32713	.12111	
	11	.55171	.63760	.14302	.14018	
	16	.55152	.59743	.34263	.07144	
Integration	9	.22172	.14127	.70370	.56789	
6	12	.42136	.22922	.69918	.15386	
	15	.47614	.37881	.55525	09127	
	14	.32764	.03847	.53915	.53645	
Adaptation	1	.15519	.23224	.06605	.89070	
*	21	.22732	.07081	.55087	.68565	
	Variance (%)	68.5	4.4	3.8	2.6	
	Eigen values	18.4	1.1	1.0	.6	

Table 5: Factor analysis on the aspects of organizational effectiveness at team level

Table 6: Factor transformation matrix at team level

	Factor 1	Factor 2	Factor 3	Factor 4
Factor 1	.67815	.65215	.28444	.18415
Factor 2	53940	.30274	.08626	.78100
Factor 3	.41358	69439	.26585	.52545
Factor 4	27950	02945	.91705	28290

In the factor analysis on effectiveness criteria at university group-divisional level, the items above .50 are taken into account. Although the loadings of the items 13 and 18 are lower than this level, they are included in the first factor. According to tables, items about the third aspect (integration), the second aspect (goal attainment), fourth aspect (creating and sustaining the values system) and first aspect (adaptation) of organizational effectiveness are covered under the first factor, second factor, third factor and fourth factor, respectively. Percentage of variance of these items are calculated as follows; 52.4% in the first factor, 4.9% in the second factor, and 4.0% in the third and fourth factors. Eigen values are found as follows; 19.9 in the first factor, 1.8 in the second factor, and 1.0 in the third and fourth factors. According to the Correlation of the factors, the first factor is correlated positively with itself and third factor is correlated positively and most densely with the fourth factor, while the second factor is correlated negatively with the third factor, and the third factor is also negatively correlated with the third factor. The result that the factors are correlated with each other in this way can be interpreted that a judgment can be made about other two factors based on their results.

The results of factor analysis which shows to what extend the effectiveness criteria determined for "policy-strategy level", the fourth organizational level in an university, are associated with the aspects of organizational effective-

Table 7: Factor	analysis on t	the aspects of	organizational	effectiveness a	at university	group-divisional
level						

Aspects	Items	Factors				
		Factor 1	Factor 2	Factor 3	Factor 4	
Integration	20	.84879	.35967	.15829	.12567	
0	19	.81949	.39248	.10379	.15745	
	25	.81653	.37590	.11990	.20664	
	34	.80319	.38521	.19550	.15322	
	26	.78352	.46293	.14609	.20662	
	12	.73729	.31607	.31569	.12497	
	27	.70702	.47253	.29412	.02802	
	35	.66590	.49748	.26779	.08624	
	32	.64985	.51878	.31690	.08091	
	14	.60425	.55405	.17479	.21935	
	29	.54990	.39551	.42850	.18300	
	16	.54366	.52772	.32824	.10919	
	15	.53069	.46807	.30666	.21862	
	24	.51472	.38095	.08513	.48428	
	13	.46979	.29859	.27203	.36973	
	18	.44676	.39736	.37641	.14012	
Goal attainment	8	.14478	.83771	.26439	.16226	
	22	.39184	.77485	.14144	.13656	
	21	.32124	.74492	.28280	05104	
	33	.29303	.73893	.31061	.11400	
	9	.25062	.67821	.44692	.13015	
	11	.37836	.58961	.29500	.05095	
	31	.50720	.56280	.30357	.13491	
	10	.42329	.54476	.38694	.21929	
Creating and sustaining the values system	6	.34544	.24759	.76210	.00436	
creating and sustaining the values system	3	.30533	.13512	.73849	.18027	
	1	.31512	.10200	.71864	.19367	
	7	.38075	.25846	.71640	.07187	
	4	.32004	.38202	.70309	.07865	
	2	.13055	.24350	.69449	.21657	
	5	.22676	.47370	.61556	.13378	
	17	.29280	.41358	.53239	.13378	
Adaptation	28	00953	.20736	.08797	.76926	
Adaptation	28 37	.13675	02569	.19120	.70920	
	36	10671	.30377	.22323	.63268	
	30	.41596	.34536	.12284	.60820	
	23	.40688	.26031	.03913	.51466	
	23 38		.33716			
¥7:		.16555		.43632	.50039	
Varianc	· · ·	42.4	4.9	4.0	4.0	
Eigen	values	19.9	1.8	1.5	1.5	

Table 8: Factor transformation matrix at university group-divisional level

	Factor 1	Factor 2	Factor 3	Factor 4
Factor 1	.66402	.50665	.48289	.26307
Factor 2	.38517	.03455	80802	.44447
Factor 3	51070	.03216	.21543	.83171
Factor 4	.38718	86086	.25982	.20373

ness, and the distribution of items by aspects are given in Table 9 and Table 10.

As it can be seen in the table, effectiveness criteria determined at university policy-strategy level are grouped in five factors. This result differs from the results of previous researches about the policy-strategy level which is one of the levels in a university (Cammock et al. 1995; Hardy 1991; Hitt 1988). In said researches, policy-strategy level has four aspects just like other levels. However, in this research, a fifth aspect has been determined. This finding supports the views that there could be other aspects and criteria of effectiveness at policy-strategy level in universities (Grasso 1994; Chapman 1993; Cameron and Tschirhart 1992). This fifth aspect is called as "fundraising strategies" because it includes items

Aspects	Items			Factors			
		Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	
Adaptation	17	.78033	.22606	.13933	.15037	.12476	
	25	.75728	.35363	.25514	.05639	.01142	
	19	.73472	.43140	.11277	.12813	.13502	
	69	.73431	.12301	.15579	.18489	01778	
	11	.72999	.25500	.05538	.16294	.34035	
	34	.72719	.30094	.12708	.22442	.00930	
	29	.72437	.32859	.20281	.10698	.06917	
	30	.72097	.24894	.20326	07015	.06212	
	24	.71529	.31578	.20023	.09737	05285	
	9	.70606	.35613	.00406	.15494	.24001	
	33	.70600	.43306	.12044	.16154	.00338	
	21	.70391	.27275	.22717	.12286	.01898	
	32	.69879	.46085	.21821	.16910	.07079	
	31	.69225	.27333	.09097	.39078	.19731	
	8	.68580	.29747	.02557	.31273	.24638	
	20	.67925	.40118	.24511	.07062	03752	
	14	.67765	.22119	.19607	.12630	.24252	
	18	.67314	.28594	.10880	.36691	.25547	
	13	.66525	.25847	.26248	.00006	.05051	
	28	.65936	.17417	.32494	.24833	13257	
	16	.64082	.13419	.29504	.23581	.12299	
	26	.63260	.14531	.25110	.15516	.19748	
	6	.62985	.37110	.03050	00207	.24530	
	3	.58900	.42784	.17813	.07346	.19808	
	27	.58552	.41001	.34250	11384	.07045	
	15	.56988	.23830	.41077	.24236	.16726	
	1	.55732	.25920	.24705	13576	.40956	
	5	.54733	.25570	00645	.09335	.43229	
Cool attainment	2	.52285	.36709	.08300	.06591	.39725	
Goal attainment	55	.31546	.69739	.31067	.16777	.10868	
	67	.39079	.69309	.16333	.30842	.10974	
	49	.38527	.68948	.27416	.26633	.17445	
	22	.48878	.67017	.12484	.23915	.09687	
	48	.38293	.66510	.22445 .13183	.32797	.16697	
	47	.38809	.65176		.33661	.24418	
	56	.44636	.63483	.43135 .26518	.11502	.04571	
	46	.41209 .38786	.63475 .62124		.18306	.13075 .27874	
	$\begin{array}{c} 60\\ 42 \end{array}$	.33373	.62124	.25141 .35060	.03576 .08656	.27874	
	42 64	.36087	.60182	.43855	.30090	.07909	
	45	.40857	.59268	.43960	.18615	03057	
	36	.40657	.58830	.36776	.36585	.12569	
	43	.45265	.58827	.25608	.19979	.09056	
	35	.38169	.56879	.22421	.38169	.29081	
	54	.31606	.56563	.21234	.41025	.13848	
	51	.33469	.56370	.43970	08911	.22157	
	68	.45315	.55505	.42792	.17448	.01516	
	72	.43514	.54775	.41536	.14796	.10271	
	58	.33086	.54577	.43971	.16055	.09883	
	57	.39194	.53798	.40041	.02184	.21426	
	40	.43124	.51448	.41569	02645	.19323	
	73	.43303	.50386	.44781	.20573	.22951	
Integration	70	.14993	.24272	.75453	.13823	.04423	
integration	38	.12516	.25165	.75446	.04881	.19619	
	10	.17091	.33364	.75265	.09810	.14364	
	37	.05457	.21776	.72685	.06860	.09916	
	59	.35413	.31525	.72624	.00478	.19560	
	23	.09390	.38768	.72072	.11248	.15984	
	41	00506	.22876	.68536	08350	07658	
	+1	00500	.22070	.00330	00330	07030	

Table 9: Factor analysis on the aspects of organizational effectiveness at policy-strategy level

#### Table 9: Contd....

Aspects	Items	Factors					
		Factor 1	Factor 2	Factor 3	Factor 4	Factor 5	
	50	.40765	.33010	.66198	.23139	.08046	
	71	.20918	.33565	.62153	.37758	01529	
	65	.15289	.28492	.52297	.49951	.18593	
	63	.35109	.46046	.50106	.07747	.27165	
	39	.25333	.36657	.49399	.18526	.24647	
	62	.21862	.35525	.44531	.32227	.40879	
Creating and sustaining	52	.40260	.03911	.25774	.70067	.18335	
the values system	66	.11496	.34843	.30767	.68841	01386	
	7	.52350	.12536	09211	.54756	.30209	
	12	.41959	.11845	.26058	.44612	.03269	
Fundraising strategies	53	.36475	.11699	.23779	.13888	.76141	
6 6	61	.16350	.24891	.36626	.16443	.65302	
	4	.51548	.20136	03377	.08193	.54315	
	44	.36115	.38635	.00291	.24195	.41334	
Varia	ance (%)	54.2	6.6	2.6	2.6	2.1	
Eige	n values	39.5	4.8	1.9	1.8	1.5	

such as the university's attitude towards strategic planning, economic self-sufficiency, offering online facilities, and clarity of accommodation and nutrition policies (Dong 2000).

In the factor analysis on effectiveness criteria at university policy-strategy level, the items above .41 are taken into account. According to Tables 10 and 11, items about the first aspect (adaptation), the second aspect (goal attainment), third aspect (integration) and fourth aspect (creating and sustaining the values system) of organizational effectiveness are covered under the first factor, second factor, third factor and fourth factor, respectively. Percentage of variance of these items are calculated as follows; 52.4% in the first factor, 4.9% in the second factor, and 4.0% in the third and fourth factors. Eigen values are found as follows; 19.9 in the first factor, 1.8 in the second factor, and 1.0 in the third and fourth factors. Under the fifth factor, the factors about a fifth aspect (fundraising strategies) which are determined as a result of research are covered. Percentage of variance of these items are calculated as follows; 54.2% in the first factor,

6.6% in the second factor, 2.6% in the third factor and 2,1% in the fourth factor. Eigenvalues are found as follows; 39.5 in the first factor, 4.8 in the second factor, and 1.9 in the third factor, 1.8 in the fourth factor, and 1.5 in the fifth factor.

Factor analyses of this research indicated five factors of administrational effectiveness. This result encouraged previous studies about the eight parameters of administrational effectiveness (Analoui 2007).

According to Correlation of the factors, the first factor is correlated positively with itself, second factor is correlated positively with the third factor, and third factor is correlated positively with fourth factor, and the fourth factor is correlated positively with the third factor, while the fifth factor is correlated positively and most densely with itself.

Measuring the effectiveness of relational efforts is imperative for determining future administrative performance (Padmavathy et al. 2012) but limited research has been conducted to evaluate its effectiveness (Mithas et al. 2005; Chen et al. 2009). In addition, most of the controver-

Table 10: Factor transformation matrix at policy-strategy level

	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
Factor 1	.66020	.57009	.37687	.23795	.20119
Factor 2	63981	.28676	.70334	.05954	10093
Factor 3	.04423	51722	.17974	.83558	00449
Factor 4	.37542	52054	.55678	46320	25207
Factor 5	10898	23300	.14484	16455	.94116

sies around organizational effectiveness research is due to the fact that a lot of the research assumes that organizational effectiveness is a single variable. More recent approaches have seen an increasing use of multi-dimensional conceptions (Jacob and Shari 2012; Farahbakhsh 2007). The results of this research support these approaches.

### CONCLUSION

The clear organizational characteristics of higher education institutions pose special problems for researchers in selecting the criteria of organizational effectiveness and evaluating such criteria. By having this, just like the problems related to the concept of organizational effectiveness, the characteristics of institutions operate as obstacles in evaluating the effectiveness of universities and higher education institutions in an empirical manner. In fact, no research has been made in the literature to measure the administrative effectiveness in higher education institutions directly.

Administrative effectiveness cannot be measured by a single aspect in order to be useful and operational. The results indicated that administrative effectiveness can be increased through organizational levels. The results also revealed that it is inevitable to associate these levels with the aspects of organizational effectiveness.

Therefore, it is possible to determine and evaluate administrative effectiveness in university organizations through administrative effectiveness criteria that are developed by synthesizing four levels in universities and aspects of organizational effectiveness. It is believed that evaluation tool for administrative effectiveness which is developed to that end and recommended below can be used in administrative effectiveness researches and studies at universities.

## RECOMMENDATIONS

- The efforts to evaluate administrative effectiveness in a university must be conducted with some certain criteria. The recommended questionnaire (see appendix 1) as a data collection tool could be useful and utilized for this kind of research.
- 2. This research could be repeated on a more extensive or different sample to improve the effectiveness criteria.

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- 3. By using this tool, a research can be conducted on the evaluation of administrative effectiveness in universities.
- 4. These tools can also be used to determine the administrative effectiveness of other educational levels.
- 5. This tool can be useful to make research on the administrative effectiveness of organizations other than educational institutions.

## REFERENCES

- Adeniyi WO, Omoteso BA 2014. Emotional intelligence and administrative effectiveness of secondary school principals in Southwestern Nigeria. International Journal of Psychology and Behavioral Sciences, 4(2): 79-85.
- Adeyemi TO, Ademilua SO 2012. Conflict management strategies and administrative effectiveness in Nigerian Universities. Journal of Emerging Trends in Educational Research and Policy Studies (JETERAPS), 3(3): 368-375.
- Akomolafe CO 2012. A comparative study of principals' administrative effectiveness in public and private secondary schools in Ekiti State, Nigeria. *Jour*nal of Education and Practice, 3(13): 39-45.
- Amah E, Daminabo-Weje M, Dosunmu R 2013. Size and organizational effectiveness: maintaining a balance. Advances in Management and Applied Economics, 3(5): 115-123.
- Analoui F 2007. Strategic Human Resource Management. London: Thompson Learning.
- Bao C 2009. Comparison of public and private sector managerial effectiveness in China: A three-parameter approach. *Journal of Management Development*, 28(6): 533-41.
- Cameron K 1978. Measuring organizational effectiveness in institutions of higher education. Administrative Science Quarterly, 23: 604-632.
- Cameron K, Tschirhart M 1992. Postindustrial environment and organizational effectiveness in coolleges and universities. *Journal of Higher Education*, 63(1): 87-108.
- Cammock P, Nilakant V, Dakin S 1995. Developing a lay model of administrative effectiveness: A social constructionist perspective. *Journal of Administration Studies*, 32(4): 443- 473.
- Chapman J 1993. Leadership, administration and the effectiveness of schooling: A response to Mr Gradgrind. Journal of Educational Administration, 31(4): 4-18.
- Chen JS, Yen HJR, Li EY, Ching RKH, Measuring CRM 2009. Measuring CRM effectiveness: onstruct development, validation and application of a processoriented model. Total Quality Management & Business Excellence, 20(3): 283-99.
- Drucker, PF 1994. Etkin Yöneticilik, Istanbul: Eti Kitaplari.
- Farahbakhsh S 2007. Managerial effectiveness in educational administration: Concepts and perspectives. *Management in Education*, 21(2): 33-36.

- Garza CE 1991. Studying the natives on the shop floor. Business Week, 30: 74-78.
- Gibson JL, Ivancevich JM, J.H. Donnelly JH JR 1994. Organization: Behavior, Structure, Processes. R.D. Boston, Sidney: Irwin, Inc.
- Grasso AJ 1994. Administration style, job satisfaction, and service effectiveness. *Administration in Social Work*, 18(4): 89-105.
- Hardy C 1991. Configuration and strategy making in universities. *Journal of Higher Education*, 62(4): 363-393.
- Hitt MA 1998. The measuring of organizational effectiveness: Multiple domains and constituencies. *MIR* (Administration of Institutional Review), 28(2): 28-40.
- Hofler D 2010. Contigency approach to management. Journal of Business Research, 63(7): 763-771.
- Hoy WK, Miskel GC 1987. *Educational Administration: Theory, Research andPractice*. 3<sup>rd</sup> Edition, New York: Random House, Inc.
- Jacob NE, Shari B 2012. Organizational effectiveness in educational institutions. International Journal of Management Research and Reviews. 2(12): 2015-2025.
- Lovelady L 1994. Change strategies and the use of the OD consultants to facilitate change: Part I. Leader-

ship and Organizational Development Journal, 5(2):

- 3-5. Miles MB 1979. *Macro Organizational Behavior*. Santa Monica, CA: Inc. unknown.
- Miller JG 1978. *Living Systems*. New York: McGraw-Hill, Inc.
- Mithas S, Krishnan MS, Fornell C 2005. Why do customer relationship management applications affect customer satisfaction. *Journal of Marketing*, 69(4): 201-9.
- Padmavathy C et al. 2012. Measuring effectiveness of customer relationship management in Indian retail banks. Sivakumar International Journal of Bank Marketing, 30(4): 246-266
- Rashford N, Coghlan D 1987. Enhancing human involvement in organizations -A paradigm for participation. *Leadership & Organization Development Journal*, 8(1): 17-21.
- Rashford N, Coghlan D 1992. Effective administration through organizational levels. *Journal of Educational Administration*, 30(4): 63-72.
- Stewart R 1989. Studies of administrative jobs and behaviour: The ways forward. *Journal of Administration Studies*, 26(1): 1-10.
- Wang J 2011. Understanding managerial effectiveness: A Chinese perspective. *Journal of European Industrial Training*, 35(1): 6-23.