International Indexed & Refereed Research Journal, ISSN-0975-3485,(Print) E- ISSN-2320-5482, Seminar Special Issue, Feb-2018
Research Paper - Management

Developing Leadership Skills For Women In Engineering And Science

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ABSTRACT

Leaders are required to set direction and achieve results. Leaders should not be confused with managers. Leaders and managers, both have a distinct but complimentary roles. Each role has its own set of characteristics, duties and responsibilities. Both leadership and management abilities are required within an enterprise in order for it to succeed in today's highly complex and competitive global environment. Management is primarily about dealing with complexity while leadership is concerned with change. The potential for an organization's success is greatly enhanced when both strong leadership and strong management capabilities are combined in a balanced yet synergistic manner within the organization. Technologies, such as computers, software tools, and global networking, have contributed to the globalization of business and have created the potential for unprecedented volatility and change. Trying to cope with increasing change always generates an increasing demand for more leadership. The need for leadership skills is not confined to only a few executive officers. It is possible for many persons to play an important leaderships role within an organization. Many organizations do not simply wait for leaders to come along but actively try to develop them by seeking out persons with leadership potential and exposing them to career experiences that are designed to develop their leadership skills. With a proper program of providing leadership learning opportunities combined with a nurturing and mentoring environment many persons can develop and exercise leadership skills effectively within the organization. Obviously if students were given a chance to develop leadership skills as part of their education they would have a competitive advantage after graduation. This paper attempts to summarize the characteristics of leaders together with the styles of leadership that have proven to be most effective.

Introduction

Leadership is currently a popular topic, [1], [2], [3], [4], [5], [6], yet the development of leadership skills in the context of a an undergraduate Engineering or Science program needs further elaboration. There are many definitions of leadership [2], but the most common elements that appear in leadership definitions are to show direction and achieve results in a changing environment. Showing direction in the context of leadership means creating a Vision. A Vision is a short concise, often heroic, statement that infuses people with a sense of purpose by providing longterm direction and forms the basis for a more expansive mission statement. A mission statement is a more comprehensive than the vision statement in stating what to do and become. An excellent mission statement will challenge and inspire every one to personal dedication and effort by generating enthusiasm for the future. Goals serve as milestones orstrategic targets for tracking an individual's or an organization's performance and progress in realizing their objectives. Achieving results also requires that a strategy, or commitment to undertake one set of actions as opposedto another, is necessary to achieve targeted performance goals and produce successful organizational performance.Crafting a strategy is an entrepreneurial action as some degree of venture and risk taking is inherent in choosingamong alternate approaches. The strategies proposed must be consistent with the realization of the goals and theymust be realizable with available resources. Statements of the vision, mission, objectives and goals are usually foundin a strategic plan. Not surprisingly, strong leadership is at the core of the formulation and implementation of anyrobust strategic plan. If we can agree that the primary tasks of leadership are to set direction and to get results, thenit is possible to try to determine the characteristics of leaders together with the styles or methods of leadership, so asto ultimately create a learning environment that provides the opportunity for the development of leadership skills.While leadership is most often analyzed in terms of leading an organization, it really means developing a better andstronger person. All undergraduate students in Engineering and Science can develop and enhance their leadershipskills. Leaders have self-esteem, initiative, a commitment to excellence and empathy skills that can be advantageousin not only a business context, but also in all personal aspects of life. The authors encourage their students toformulate a personal strategic plan that will help them in providing a course of action that will enhance theprobability that they will realize their dreams and aspirations.

Characteristics of Leaders

There is often a debate as to whether leaders are born or made. In either case it is advantageous to identify thoseproperties or characteristics that seem to be common to many persons that have demonstrated an

ACCEPTANCE OF E-BANKING AMONG CUSTOMERS
(An Empirical Investigation in India)

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Abstract
Financial liberalization and technology revolution have allowed the developments of newand more efficient delivery and processing channels as well as more innovative products andservices in banking industry. Banking institutions are facing competition not only from each otherbut also from non-bank financial intermediaries as well as from alternative sources of financing.Another strategic challenge facing banking institutions today is the growing and changing needsand expectations of consumers in tandem with increased education levels and growing wealth.Consumers are becoming increasingly discerning and have become more involved in theirfinancial decisions. This paper investigates the factors which are affecting the acceptance of ebankingservices among the customers and also indicates level of concern regarding security andprivacy issues in Indian context. Primary data was collected from 200 respondents through astructured questionnaire. Descriptive statistics was used to explain demographic profile ofrespondents and Factor and Regression analyses were used to know the factors affecting e-bankingservices among customer in India. The finding depicts many factors like security and privacy andawareness level increased the acceptance of e-banking services among Indian customers. Thefinding shows that if banks provide them necessary guidance and ensure safety of their accounts,customers are willing to adopt e-banking,
Keywords: **Security, Privacy, Awareness, Customers, E-banking**

INTRODUCTION

The rapid advancement in electronicdistribution channels has produced tremendous changes in the financial industryin recent years, with an increasing rate ofchange in technology, competition amongplayers and consumer needs (Hughes, 2001).The proliferation of and rapid advances intechnology-based systems, especially thoserelated to the internet, are leading tofundamental changes in how companiesinteract with customers (Ibrahim et al, 2006;Bauer et al., 2005; Parasuraman and Zinkhan,2002). Internet banking has become the selfservicedelivery channel that allows banks toprovide information and offer services totheir customers with more convenience viathe web services technology The evolutionof e-banking has fundamentally transformedthe way banks traditionally conduct theirbusinesses and the ways consumers performtheir banking activities (Eriksson et al., 2008;Sayar and Wolfe, 2007). Today e-bankinghas experienced phenomenal growth and hasbecome one of the main avenues for banks todeliver their products and services (Amato-McCoy, 2005).Electronic banking (e-banking), alsoknown as Internet banking is defined as theautomated delivery of new and traditional banking products and services directly tocustomers through electronic, interactivecommunication channels (Daniel, 1999;Sathye, 1999). E-banking includes thesystems that enable financial institutioncustomers, individuals or businesses, toaccess

ELSEVIER

Energy

Volume 126, 1 May 2017, Pages 766-795

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Performance evaluation of profile modifications on straight-bladed vertical axis wind turbine by energy and Spalart Allmaras models

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https://doi.org/10.1016/j.energy.2017.03.071

Highlights

- Investigated the effect of Profile modifications on VAWT symmetrical aerofoils.
- Energy model is used for aerofoil and its surroundings.
- Spalart-Allmaras model is used for the combination of domain and aerofoil setup.
- Combined dimple and Gurney flap modification shows best results for NACA 0015.

Abstract

In this paper, we investigated the effect of profile modifications on straight bladed VAWTs equipped with symmetrical aerofoil (NACA 4-digit series of

dimple and combination of both Gurney flap and dimple. In this work, we focused on the values of lift, aerofoil velocity and aerofoil forces as these are the vital parameters, which are used as the parameters to measure for power generated by the turbine by Energy and the Spalart Allmaras models. All the design modifications and simulation analysis have been done with the help of CFD by using ANSYS Fluent. The results of the modified profiles are compared in terms of lift coefficient (C_L), velocity (V) and blade force (F). These results are further validated with previous experimental results at same boundary conditions for to ensure the reliability of the analysis. The overall results show that NACA 0012 and NACA 0015 gives better performance in all three aspects of results (coefficient of lift, velocity, and force). Hence, present modifications are best suitable for increasing the performance of NACA 0012 and NACA 15 symmetrical aerofoil straight bladed VAWTs.