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CONTENTS

Sr. No.	TITLE & NAME OF THE AUTHOR (S)	Page No.
1.	CHANGES IN EDUCATIONAL POLICIES: AFFECT ON STUDENTS <i>ANJALI TRIVEDI</i>	1
2.	DEMONETIZATION: A GAME CHANGER FROM BLACK ECONOMY TO DIGITAL ECONOMY <i>POOJA MAKEN & Dr. SHASHI SHEKHAR</i>	5
3.	CARROLL'S PYRAMID AND THE IMPLEMENTATION OF CORPORATE SOCIAL RESPONSIBILITY IN "PT PUPUK KALIMANTAN TIMUR" <i>ADILLAH LAURA AYU NASTITI, Dr. EKO GANIS SUKOHARSONO & Dr. NURKHOLIS</i>	10
4.	IMPACT OF ADOPTING HRIS ON THREE TRIES OF HRM EVIDENCE FROM DEVELOPING ECONOMY <i>Dr. C. M. JAIN & SUBHASH CHANDRA SONI</i>	16
5.	PERCEPTION OF RURAL CUSTOMERS ON THE FACTOR DETERMINANTS OF CRM PRACTICES OF PUBLIC BANKS: A STUDY WITH REFERENCE TO THENI DISTRICT, TAMILNADU <i>S. THOWFEEK KHAN & Dr. I. MOHAMED SHAW ALEM</i>	20
6.	STUDENT ENGAGEMENT AND EMPOWERMENT THROUGH PEDAGOGICAL APPROACH – A CASE OF INTEGRATING CURRICULUM WITH COMMUNITY SERVICE <i>SMITA KAVATEKAR & Dr. G. S. VIJAYA</i>	25
7.	A STUDY ON CRM ACTIVITIES AND ITS IMPACT ON CUSTOMER SATISFACTION IN BIG BAZAAR, VIJAYAWADA <i>Dr. D. PRASANNA KUMAR & KHAJA MOHIDIN SHAIK</i>	29
8.	EFFECTS OF KNOWLEDGE MANAGEMENT FACILITATORS AND MECHANISMS ON ORGANIZATIONAL PERFORMANCE IN THE HOSPITALITY INDUSTRY <i>JOSEPH MUSYOKI, THOMAS BOR & Dr. TIRONG ARAP TANUI</i>	37
9.	SOCIO-ECONOMIC DEVELOPMENT OF WOMEN'S SELF-HELP GROUPS (SHG) IN RURAL AREA <i>Dr. R. THIRUMOORTHY & S. SIVAKAMI</i>	43
10.	THE EFFECTS OF CORPORATE GOVERNANCE PRACTICES ON FIRM PERFORMANCE: EMPIRICAL EVIDENCE FROM TURKEY <i>GULHAN SUADIYE</i>	45
11.	FDI IMPACT UPON INDIA'S ECONOMIC DEVELOPMENT - WITH SPECIAL REFERENCE TO RETAIL SECTOR <i>Dr. DHIRENDRA OJHA</i>	51
12.	A STUDY ON WASTE MANAGEMENT PRACTICES IN PRIVATE HOSPITALS IN KHAMMAM DISTRICT <i>LAGADAPATI LAKSHMANA PRASAD & P V VIJAY KUMAR REDDY</i>	53
13.	COUNTERFEIT PRODUCTS: A SERIOUS PROBLEM OF RURAL MARKET <i>Dr. APAR SINGH & RANU KUMAR</i>	58
14.	A STUDY ON INDIAN START-UPS AND HR CHALLENGES <i>V. HEMA ABHINAYA & JIKKU SUSAN KURIAN</i>	63
15.	IMPACT OF GOODS AND SERVICE TAX (GST) ON DIFFERENT SECTORS <i>RISHU KHERA</i>	66
16.	A COMPARATIVE STUDY OF HUMAN RESOURCE DISCLOSURE AND REPORTING PRACTICES OF SELECTED PUBLIC AND PRIVATE SECTOR BANKS IN INDIA <i>Dr. JAI PRAKASH GARG</i>	68
17.	A STUDY ON THE IMPACT OF CUSTOMER RELATIONSHIP MANAGEMENT IN HEALTH SECTOR: AN EMPIRICAL APPROACH <i>GARIMA SHAH</i>	72
18.	A STUDY ON SUSTAINABILITY OF SHGs THROUGH FINANCIAL INCLUSION IN TELANGANA STATE <i>M. NAGALAKSHMI</i>	76
19.	THE IMPACT OF BRAND PERSONALITY ON CONSUMER BUYING BEHAVIOR <i>UTPAL CHAKRABORTY</i>	83
20.	COLLEGE STUDENTS' PERCEPTION ON LIFESTYLE PRODUCTS PURCHASED THROUGH E-COMMERCE PLATFORMS <i>TANISHQ AGARWAL & ADITYA JHA</i>	88
	REQUEST FOR FEEDBACK & DISCLAIMER	94

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IMPACT OF ADOPTING HRIS ON THREE TIER OF HRM EVIDENCE FROM DEVELOPING ECONOMY**Dr. C. M. JAIN****PROFESSOR****DEPARTMENT OF ABST****UNIVERSITY COLLEGE OF COMMERCE AND MANAGEMENT****MOHANLAL SUKHADIA UNIVERSITY****UDAIPUR****SUBHASH CHANDRA SONI****RESEARCH SCHOLAR****DEPARTMENT OF ABST****UNIVERSITY COLLEGE OF COMMERCE AND MANAGEMENT****MOHANLAL SUKHADIA UNIVERSITY****UDAIPUR****ABSTRACT**

Cross-sectional studies are needed to uncover missing linkage between Human Resource Management and Information Technology. Consequently, Human Resource researchers and practitioners need to rethink about achieving organizational objectives through adoption of modernized technology. Objective of this study is to investigate the contribution of Human Resource Information System (HRIS) for Operational, Functional and Strategic Human Resource Management (HRM) processes. Results depict that adopting HRIS facilitates Operational and Functional HRM Processes, while HRIS does not supportive for Strategic HRM Processes. It is therefore recommended that HRIS usage for operational and functional HRM is beneficial for organization.

KEYWORDS

human resource management, human resource information system.

1. INTRODUCTION

Rapid economic growth and increased competition attributes to multifarious business environment which has led to exponential growth of technology applications in all areas of business including Human Resource Management (HRM). Consequently, this change has forced Human Resource professionals and researchers to rethink about achieving organizational objectives through adoption of modernized Information Systems (IS). Growing importance of HRM with increasing organizational size requires the maintenance of employee related data and generating appropriate HR reports enforcing organizations for adoption of computer based HRM systems (Tripathi, 2011). Although HRM (Absar and Mahmood, 2011) and Information Technology (IT) have drawn the attention of researchers (Saleem et al, 2011), industry and academia, yet linkage between two disciplines is still at cutting edge and need more exploration (Mishra and Akman 2010) in developing economy like India. It has also been noticed that IS have been applied to HRM for decades, nonetheless way of using IS has improved dramatically (Zhang and Wang, 2006). Accordingly, HR professionals and Executives need to use IS to help them meeting their organization's information (Teo et al, 2001) which in turn improves professional standing of HR professionals in the Organizations of good repute (Hussain et al, 2007). The article starts with introducing significance of integrated research areas of IT and HRM. Subsequently study presents related literature review, conceptual framework, research findings regarding HRIS adoption and research conclusion.

2. LITERATURE REVIEW

Emergence in technology and telecommunications mandate the transformation of HRM (Cleland et al, 2000). HR Professionals thus need to respond to changing business conditions by demonstration of new competencies (Ulrich et al, 2007) which enforces today's enterprise management to be digitized (Zhang and Wang, 2006). Human Resource Information System (HRIS) meet the needs of a number of organizational stakeholders including HR professionals, managers in functional areas and employees in general (Power, 2004) and provides the vital link between IT and HRM. HRIS software HRIS are application systems that collect data and produce information about the workforce of an organization to facilitate personnel control, planning, development, and forecasting (Romm, Pliskin & Weber, 1995). HRIS package is designed to help organize the myriad of administrative and strategic variables of which the HR department is responsible (Van-der-Linden and Parker, 1998). HRIS is being used since many decades. Early example of the application of IT in HRM includes the development and use of optical scanning equipment (Cronin et al, 2006). However, in the present days, managers are using it for every business process to facilitate all stakeholders of company including HR. Resultantly IT usage in HRM is becoming critical (Shaw, 1994). HRIS has also been improved from simple Database Management Systems to more sophisticated Web-based repository of Organizational HR information to be used at all levels of organizations including first line, middle line, top line managers and executives. The bottom line of any comprehensive HRIS have to be the HR information validity, reliability and utility first and the automation of the process second (Kovach et al, 2002) that may be used for all organizational levels. Thus there is great need to explore the adoption of HRIS at all three managerial levels, which is discussed in next Section in the light of historic studies.

3. TECHNOLOGY BASED HRM

Researchers agree that HRIS has capabilities in shaping the integration between HRM and IT by supporting administration (Teo et al, 2007), planning (Hussain et al, 2007) and strategic decision-making (Johnston and Carrico, 1988; DeSanctis, 1986). Scholars have agreed on the fact that HRIS supports most of HR applications including Record Keeping (Ball, 2001), Recruitment & Selection (Chapman and Webster, 2003), Compensation (Kanthawongs (2004), Training & Development (Chan and Ngai, 2007). In organizations, HR Managers have to manage plethora of HR activities including recruiting & selection, training, promoting & demoting, and recordkeeping, therefore essential component in the success of managing HR data is HRIS (Kassim, Ramayah & Kurnia 2012; Hubbard et al, 1998) that functional HRIS must create an information system that enables an assimilation of policies and procedures used to manage the firm's human capital (Hendrickson, 2003).

Managers rely on capabilities of HRIS to provide superior HR data collection and analysis, for making decisions regarding performance appraisal, performance management and many other HRM processes. Thus HRIS should be introduced for automation of HR Department (Absar and Mahmood, 2011). However, important factors associated with the implementation of new HRIS as the conditions that support successful implementation for HR staff differ from those for line managers (Wilson-Evered and Härtel, 2009). Above discussion focuses this research to identify role that HRIS can play to support to HRM at three tiers including Operational, Functional and Strategic HRM Processes. In the view of last section following main proposition has been developed.

Proposition: HRIS Adoption supports Operational, Functional and Strategic HRM.

4. OPERATIONAL HRM

HRIS is adopted to automate HRM activities in order to obtain some general administrative routine purposes (Altarawneh and Al-Shqairat, 2010). Transaction processing layer of Management Information System in HR function deals with routine activities like attendance recording and payroll calculations also called operational HRM activities (Tripathi, 2011). IT is being used in HR Department for Administrative purpose including employees record keeping, prepare of salaries and attendance record (Teo et al, 2001; DeSanctis, 1986). Additional HR functions that could be streamlined technology include selection (Davies and Calderón, 2005) whereas online recruitment has become popular tool of IT (Cronin et al, 2006). Thus HRIS can support to perform traditional activities and supports day to day functions of HRM at Operational Level which includes Record Keeping, Payroll Preparation and Recruitment & Selection. Based on this section, following proposition has been developed.

Proposition A1: HRIS Adoption supports Operational HRM Processes.

5. FUNCTIONAL HRM

Functional HRM include includes Training Need Assessment (Absar and Mahmood, 2011), Performance Appraisal (Huselid and Becker, 2011) and Compensation Management (Chen et al, 2011). Chan and Ngai (2007) have observed that Web-based training has become prevalent in business organizations. The typical HRIS user is HR officer (middle level for functional usage) in HR department (Al-Shibly, 2011). It is also identified that HRIS supports training (Ball, 2001). HRIS is becoming important for modern organizations to manage human assets effectively (Troshani, Jerram and Hill, 2011). HRIS allows the HR staff to dedicate more time to strategic decision making and planning, which consequently provides more value to the organization to enhance its position (Shani and Tesone, 2010) and provide facilitation at Functional Level. Thus HRIS can facilitate to perform at Functional HRM Processes which includes Training Need Assessment, Performance Appraisal and Compensation Management. Based on this section, following proposition has been developed.

Proposition A2: HRIS Adoption supports Functional HRM Processes.

6. STRATEGIC HRM

Roles and responsibilities are being evolved of HR professionals from a traditional perspective to a new strategic perspective (Delorme and Arcand 2010). The strategic level of support of HRIS has also been identified (Hussain et al, 2007; Boateng, 2007). Strategic HRM Processes includes Employee Career Development (Zhou, Zhang & Montoro-Sánche, 2011), Turnover Tracking Analysis (Hutchings et al, 2011), HR Planning (Absar and Mahmood, 2011) and Strategic HR Decision Making (Huselid and Becker, 2011). As human capital plays a larger role in competitive advantage, functional managers expect the HRIS to provide functionality to meet the unit’s goals and objectives (Power 2004). Another study on adoption of HRIS reveals that top management support and HRIS expertise are positively related to the adoption of HRIS (Teo et al, 2007). Effect of HRIS on strategic decisions reveals that banks can usage the HRIS in strategic decisions and thus HRIS generate business value (Rangriz et al, 2011). Role of IS in HRM show taking management decisions related to management function especially for the top management (Tripathi, 2011). Thus HRIS can facilitate to perform at Strategic HRM Processes which will include Employee Career Development, Turnover Tracking Analysis, HR Planning and Strategic HR Decision Making. Based on this section, following proposition has been developed.

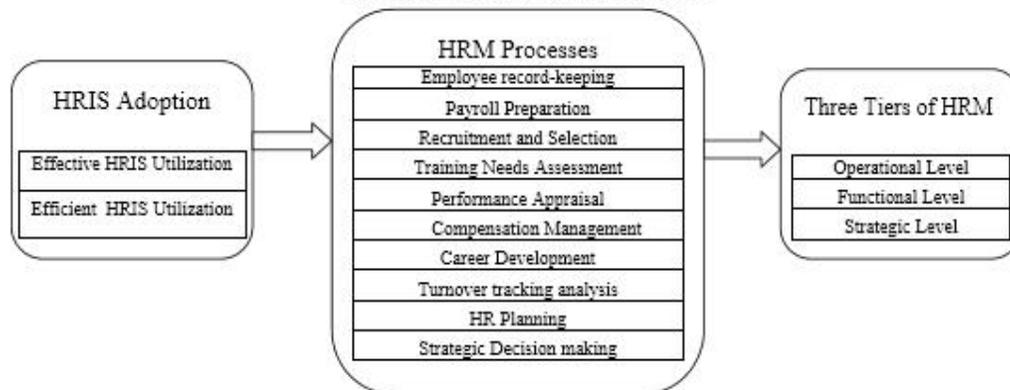
Proposition A3: HRIS Adoption supports Strategic HRM Processes.

7. CONCEPTUAL FRAMEWORK

Various research models can be used in HR research including Descriptive, Explosive, schematics and Mathematical models. For this research descriptive model is being used and illustrated below in Figure A. The support of this conceptual model has been described in the view of literature in previous section. In the light of literature review the followings propositions have been developed. The HR researchers have named HRM as HR best Practices (Qureshi and Hijazi, 2010; Shahzad et al, 2008). In the light of proposition and literature review following conceptual framework has been developed

8. RESEARCH DESIGN

Figure A: Conceptual Framework



This section focuses on population, sampling technique, instrumentation, data collection and findings. Research has mainly focused on service sector as population to find empirical evidence. Official websites have been used to retrieve most recent, complete and accurate list of organizations. “Snowball sampling” has been used for data collection with the reason that very few service sector organizations using HRIS and to make research process quicker. Aggregately 54 organizations responded with response rate of 51.43% including 29 Adopters and 25 Non-Adopters of HRIS. For data collection, HR Managers and HRIS Experts were mailed questionnaires. The process of data collection took more than three months’ period. Research analysis has used various statistical tools including Correlation and Regression analysis using SPSS 14 software package. Questionnaire for primary data collection was designed on a five point-Likert scale. To measure HRIS adoption Troshani, Jerram & Hill (2011) study and Teo et al (2007) study has been utilized. Hussain et al (2007) and Kovach et al (2002) studies are used to find the impact of HRIS. To quantify HRM relationship with HRIS main input has been scanned from earlier research studies of Qureshi & Hijazi (2010), Arthur & Boyles (2007), Boateng (2007) and Johnston & Carrico (1988).

9. CORRELATION AND REGRESSION ANALYSIS

This section will focus on correlation and regression analysis in order to empirically test the role and the impact of HRIS on three tiers of HRM.

TABLE 1: CORRELATION MATRIX OF HRIS ADOPTION AND 3-TIERS OF HRM

3-Tiers of HRM	HRIS Adoption
Operational Level HRM	0.592**
Functional Level HRM	0.255*
Strategic Level HRM	0.150

* Correlation is significant at the 0.05 level (2-tailed).

** Correlation is significant at the 0.01 level (2-tailed).

HRM Processes have been grouped under the guidance of previous studies including Operational, Functional and Strategic HRM. Refer to Table, it is proved that HRIS highly support HRM Processes at operational level (r= 0.592). HRIS support moderately (r=0.255) At Functional HRM Processes. However, the relationship is found to be positive and weak in-case of Strategic HRM Processes(r=0.150). The combine effect is also significant (r=0.491)

HRIS Impact on Operational, Functional and Strategic HRM Processes. This part of study discusses HRIS adoption impact on Operational, Functional and Strategic HRM in emerging service sector of Indian economy.

Proposition A1 HRIS Adoption supports Operational HRM Processes is accepted. Refer to Table (Model E1), it is noted that correlation coefficient (r=0.592) is highly significant explaining 32.5% variation (r²=0.325). Regression equation is written as $Y = .675 + 0.886X$. Focusing on predictors, it is statistically proved that HRIS-Adoption (Beta/ b= 0.886) is highly significant (p=.001), and coefficient is positive indicating that HRIS-Adoption highly supports Operational HRM Processes.

TABLE 2

Model		Unstandardised Coefficients		Standard Coefficients	T	P value /Sig.
		B	Sd. Error	Beta		
E1	Constant	.675	1.015		.665	.051
	HRIS	.886	.241	.592	3.674	.001

Proposition A2 HRIS Adoption supports Functional HRM processes is accepted. Refer to Table (Model E2), it is shown that correlation coefficient (r=0.255) is positive. Regression equation is written as $Y = 2.646 + 0.345X$. It is also identified that HRIS Adoption (Beta/ b= 0.255) is significant (p=.009), which indicates that HRIS Adoption is facilitating for Functional HRM Processes.

TABLE 3: REGRESSION MODEL: FUNCTIONAL HRM

Model		Unstandardised Coefficients		Standard Coefficients	T	P valu/Sig.
		B	Sd. Error	Beta		
E2	Constant	2.646	1.101		2.403	.024
	HRIS Adoption	.345	.261	.255	1.320	.009

Dependent Variable: Functional Level HRM

Proposition A3 HRIS Adoption supports Strategic Level HRM activities is rejected. Analysis shows that correlation coefficient (r=0.150) is insignificant (PValue=0.454). However, coefficient is positive indicating that HRIS-Adoption can facilitate at strategic level of HRM Processes if more sophisticated HRIS are developed and better input is performed at operational level HRM.

TABLE 4: REGRESSION MODEL: STRATEGIC HRM

Model		Unstandardised Coefficients		Standard Coefficients	T	P value/Sig.
		B	Sd. Error	Beta		
E3	Constant	3.029	1.136		2.666	.013
	HRIS Adoption	.205	.270	.150	.760	.454

Dependent Variable: Strategic Level HRM

10. CONCLUSION

Research statistically proves that support for HRIS towards HRM is significant. Referring to preceding studies it is recognized that findings are consistent with many prior studies regarding HRIS support towards Operational HRM (Altarawneh and AlShqairat, 2010; Ball, 2001; Teo et al, 2001; DeSanctis, 1986). Notwithstanding, in-case of HRIS support towards Functional HRM, research results are partially consistent with various studies (Hussain et al, 2007; Davies and Calderón, 2005; Teo et al, 2001; DeSanctis, 1986). Nonetheless, research has found inconsistent results in-case HRIS support towards Strategic HRM with various studies (Hussain et al, 2007; Boateng, 2007; Davies and Calderón, 2005; Teo et al, 2001). Study gains an insight on current status of HRIS adoption in organizations in Indian service sector. Majority of survey respondents indicated that HRIS was used mainly at Operational and Functional Level. It is therefore suggested that there may be more benefits in adopting HRIS for operational and functional level HR processes rather strategic level HR processes as companies may seek to gain efficiencies through reduction in staffing levels for routine administrative and functional HRM processes. Further research need to focus on barriers preventing organizations from adopting HRIS at Strategic level and to quantify HR Professionals standing of those adopting HRIS to support HRM Functions.

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