

An Educational Management Information System (EMIS) to Enhance Decision Making Process at Managerial Level in Najran University. K.S.A.

Dr Mohd Abdelgadir Mohd Khairi, Mohamed Hussain Tawarish
Najran University

Abstract:- Management Information System (MIS) plays a major role in taking management decisions in today's organizational system. MIS is used for correct, timely and effective decision making and Education Management Information System (EMIS) in particular for education management in implementing policies and decisions. Basic leadership oblivious process is reliant of data. Each course of action has mickle of information yet they need from applicable data required for settling on the choice. This paper will suggest enhancement in decision making process at managerial level in education sector with the help of EMIS. Case studies of different countries and other literature related to EMIS will be discussed in order to achieve the aim of this paper and suggestions to improve the decision making at Najran University.

I. INTRODUCTION

The mission of organization is to organize personnel to the very best level of psychological feature at that clip in history. University shouldn't be simply a neutral Synonyms/Hyponyms (Ordered by calculable Frequency) of noun set , however the place within which to make and portion data, Associate in Nursing innovative and prolific historiographer in interaction with the economic, body, and cultural surroundings. The support received by the determination takers, whether or not they square measure high of the frame administrator , manager placed on totally different levels (rector, dean etc.) consultant and alternative assistants lies primarily in serving to them to beat the sure of data concerning the matter, doable alternatives for action and technique of study utilized in the choice.

The determination -devising method in a company ought to be program and resolved in an exceedingly comp , reliable, and clear mode Managers ready with data concerning their relevant structure cultures, interconnected with the data transfer, will amend their data management theme to create their organizations additional economical, and to judge and maneuver in effective theme . Quality and well-timed decision-qualification is key within the success of any organization. They necessitate sure-fire implementation of call support tools to adequately inform the choice method, however conjointly alternative fascinating characteristics like imagination and artistic thinking. [1]

Data based higher subjective process inside the course of the instruction framework has as its objective broadened get to code, proficiency, viability, value, and bore of training through compelling frameworks of watching and rating , concocting and higher intellectual process at various social control levels, protection enquiry and examination. Training administration specific entropy frameworks (EMIS) change these educated definitiveness to be made by giving important data information and learning and data} related by raising a setting amid which the interest for this data exertion its utilization. The get together of scholarly learning and learning could be a critical premise on that this data based basic leadership system is shape. Insufficiencies or deficiency in its comfort, PC customized, or quality have broad import.[2]

This clause can examine the suggestion to improvement in call qualification method at social control level in education sphere in EMIS, setting.

II. EDUCATIONAL MANAGEMENT INFORMATION SYSTEM

The signifier EMIS stands for "Education Management Information System". It's arrangement for organizing selective information foot in a very organization ice manner for the direction of Department of Educational maturation it's a data focus inside the service of reproducing liable for grouping, preparing, examining, production, circulation, rendering information administrations for clients of Educational information.

The EMIS center of the ministry of education is answerable for the promotion and use of knowledge at intervals the ministry of education for policy designing, designing and implementation, higher cognitive process, proctoring and analysis of the education system. As we tend to are inside the cutting edge period, the achievement exists in the utilization of learning for creating. Nonattendance of use of learning for acknowledgment making practices ends up in a unintelligent grouping of change works out.

EMIS is also responsible to spring an extensive guide inside the endeavors made to evaluate the closure of instruction framework and screen nearly the impartial appropriation of asset. Take dynamic half in giving data high administration to exercises like preparing of educator,

understudy show and judgment and interior power of the instruction system. [3]

- *Three Key Measures of EMIS Success in Decision making.*
 - EMIS supports Decision areas and management Levels
 - Effective use of Information for better decision making at Education Sector.
 - Timely and Reliable generation of Data and Selective data.
- *EMIS supports Decision areas and Management Levels*

Hierarchical structure essentially can be isolated in three layers of progressive system: top administration level, center administration level and lower administration. Each level takes decisions according to their roles.



The lower stratum overseeing chief are engaged with operational assurance , focus story overseeing executive “ heading on the strategic choice and meridian level administrators focus on key conclusiveness . A large portion of the demonstration exercises are program , executed and overseen by bring down level chiefs for instance compositional arrangement , programming and guaranteeing that all the customized are actualized as chosen. Center level directors invest generally less energy in the standard arranging exercises and concentrate more on strategic choices, for example, critical thinking, break systematic reasoning, completing examination and publicizing. The job of best supervisors is altogether different than the lower level and center level administrators.

They generally focus on the key issues like which item ought to be propelled in the market, which market ought to be tapped, how to make propelling into the space of the contenders, how to orchestrate different assets, how to enhance efficiency of the administration, how to lessen cost, with whom to team up, regardless of whether to mechanize, to what degree cybernation ought to be actualized, how to prepare the labor to lucifer with mechanical difficulties liable to be confronted and so on. Board 1 demonstrate the level of administration chain of command in a framework , related basic leadership jobs and the kind of data's required by them [4].

Types of info, management levels and kinds of selections			
Types of information	Levels of managers	Types of Decision Making	Examples of information from educational sector
Descriptive Information	Operational Level	Policy making and strategic decisions	Daily schedule of lectures, Teacher absent, . Surrogate arrangement for teacher
Diagnostic Information	operational / Middle Level	Tactical decisions	Why categories don't begin in time? Why students return late? Why academics area unit late within the class? Why projector or mic doesn't work satisfactorily?
Predictive Information	Senior Middle Level	Tactical decisions	How to ensure that social classes starting line at right time? How to improve up-time of projectors and mic systems in the class rooms.
Prescriptive Information	Top Level	Strategic decisions	How the administrative staff arranges the classes? Functioning of bio-metric system for attendance

- *Effective use of Information for better decision making at Education Sector*

To Promote Department of Educational evolution through informed decisiveness fashioning practices. To gather, arrange and report card exact, pertinent and convenient entropy for arranging and basic leadership job and to advance the utilization of data for preparing an improvement.

- To make a composed unit inside the service of Training Division to gather technique, examine, distribute, memory, scatter and give productive administrations of instructive data for client.

- To advance the utilization of instruction data both inside and remotely by expanding quality.
- Create a system of exploiter and makers and increment the job of data in the improvement of training.
- Cultivate the intensity of EMIS specialists in the territory of resume organization, information handling, capacity to break down and utilize instructive data, and the capacity to oversee, delegate, and assess the move of EMIS and make dynamic part in comparative exercises in alternate divisions of the ministry [5].

➤ *Timely and Reliable production of Data and Information*

Convenient result of data and data requires that there be a mutual understanding of the accompanying by all power information and data makers, clients, or customers:

- EMIS information created frequently should sports addressing the necessities of by and large instructive arranging and planning cycle.
- EMIS information delivered consistently should address the issues of instructive administrations, for example, the Coordination's Unit and different units of school supplies.
- 3 EMIS information created frequently should address the issues of instructive help, for example, the Coordination's Unit and different units of school building supplies chain) EMIS information delivered routinely should address the issues of instructive checking and assessment, and protection research and direction in an opportune manner.
- EMIS information delivered consistently should address the issues of Global joint effort and correspondence.

The auspiciousness of addressing these necessities inside the Service of Preparing is fundamentally vital for the achievement of EMIS development. Outdated information, even after created, might not have much an incentive for utilize, bringing about passed up on mediation chances and an unavoidable doubt from data customers inside or outside the association.

To warrantee opportune creation of information and data to address these issues, the psychological activity of information collecting, information section, information summoning, information reconciliation, information profundity brain science, and information detailing ought to be shortstop, effective, and profitable. This can be frequently accomplished by expanding the floor of exertion, starting arrangement prior, proposing and fortifying undertaking due dates, regulating EMIS as a standard bearing procedure, and reinforcing the planning electrical limit of EMIS information related exercises.[6].

➤ *A Similar Case of EMIS in Nigeria*

In Nigeria, Instructive Administration knowledge Arrangement of principles (EMIS) trick s associate degree insignificant persona in supporting at either the govt., nation or neighborhood specialists story s. Be that because it might, it's inappropriate to just accept that EMIS is not utilized within

the arrangement procedure since it's beginning to play an important use in encouraging the making ready of important arrange at the State workplace level. Also, the governmental problems has associate degree open comprehension of what job EMIS can play in future arrangement activity, each at the officialdom and condition of issue levels..

Despite the goodness intention of presidency, it's tough to ascertain correct quantitative targets for future plan because of lack of adequate base-strain data. For outsiders, consistent with them, it's tough to know however EMIS operates because of the various layer of presidency concerned within the accumulation and snack of education data.

➤ *A Similar Case of EMIS in India*

There unit of measurement various agencies involved inside the assortment and dissemination of statistics on faculty education. At the national level, there unit of measurement three main agencies that collect statistics on education on regular basis. they are (a) coming up with, observation and Statistics Division, Department of Education, MHRD on annual basis for all sectors of college education; (b) University Grants Commission on higher education; and (c) National Council of tutorial analysis and training (NCERT) on college education through occasional surveys.

The Census of state publications provides data on levels of tutorial attainment of population and age-education classification of kids inside the age-group 5-14 years. in addition, the National Sample Survey Organization (NSSO), International Institute for Population Sciences (IIPS) and National Council of Applied Economic analysis (NCAER) in addition collect statistics on tutorial variables typically through family sample surveys. discontinuous a trial tries} are created to develop processed tutorial management system with associate aim to collect and diffuse district-specific data among that the District Primary Education Programme (DPEP) is that the foremost distinguished one. One in each of the required aims of the recently launched social insurance Administration is to develop tutorial management system that info capture formats are evolved and infrastructure created at the district level inside the work of the District Project organizer. All the project districts are furnished adequate hardware and MIS softwares.

The data capture format is split into 9 components. Through the primary half, faculty location particulars square measure envisaged to gather which incorporates village name and ward variety, distance from block headquarters, variety of non-formal education centers during a village and whether or not is ruled by a voluntary organization or it's a Government school. This half additionally includes data with reference to Total skill Campaigns and Post skill Facilities and whether or not a Village Education Committee is well-grooved within the village.

➤ *A Similar Case of EMIS in Ghana*

The EMIS in Republic of African country is being maintained by the Ministry of Education. visible of the constraints in educational statistics, style of tries unit created to spice up the coverage, quality and consistency of educational information amongst that the Ministry of Education (MoE) and administrative unit Institute for Statistics (UIS) joint initiative to strengthen EMIS in Republic of African country is that the foremost outstanding and up so far one. Up to 1987, information up to the pre-tertiary education was collected and processed manually succeeding into delay in unleash of results.

As Associate in Nursing integral a region of the massive education reform launched in 1987, the UNESCO/UNDP Project for Strengthening Education arising with took off in 1988 resulting in computers being procured and software application developed (Dbase III/IV) for process. However, it was later accomplished that visible of entirely four computers being procured for MIS work, the same was found to be inadequate and since the information method was centralized that resulted inside the Headquarters' staff being overburdened and delay in unleash of information. Later in 1997, the Education Management system (EMIS) project was launched as Associate in nursing integral a region of the Free, needed and Universal Basic Education (FCUBE) Programme (Pilot Phase: Feb 1997 to August 1999 & Second Phase: January 2001 to March 2002) throughout these phases.

EMIS was piloted in ten Regional Education Offices, and twenty six of the then 100 10 District Education Offices, questionnaires for pre-tertiary institutions was revised; writing improved with each school given a completely unique code; laptops and their accessories more as package application (Microsoft Access/SQL/Visual Basic) for capturing data and generating reports were place in these sites; four officers from each of the thirty six sites were trained in basic and intermediate pc skills more as analysis of math data.

However, form of problems were two-faced amongst that the foremost outstanding ones was the shortage of programming tool (Microsoft SQL); lack of routine maintenance of the computers; and inability to remain trained workers at intervals the regions and districts. Visible of the constraints, the Education Sector prepare (ESP) took note of the importance of the EMIS and planned ways that for its improvement and growth. The Ministry took advantage of the UN agency Institute for Statistics (UIS) capability Building Project in Republic of Republic of Ghana to accumulate UIS EMIS application that was expected to satisfy its EMIS desires. [9]

III. OBJECTIVES OF FASCINATING EMIS

The objectives of a fascinating EMIS are:

- To provide data on this standing, characteristics, functioning and so the results.

- To form data as one of the foremost elements of the administration, management and planning of education.
- To manage, analysis and prepare education by integration all the sources of data and to provide synthesized reports to the users.
- To provide a system capable of creating sure the evolution and suppleness of the total education system.

➤ *The fascinating decisions of a perfect EMIS unit of measuring represented here:*

- Associate in Nursing EMIS ought to be compelled to bridge the analysis and practices with the body info knowledge of info technology [10].
- EMIS have to be compelled to use web, network likewise Extranet to possess in no time transfer of data and build the selection methodology in no time. The information have to be compelled to be offered once needed for deciding.
- Latest trends in communication systems e.g. electronic communication and digital organization need to be incorporated in EMIS.
- The structure of the EMIS needs to be such all level need to be able to use the system effectively. The national, government, regime need to be connected with each other below the umbrella of living substance for education management at a similar time the localized system at the state and native levels need to in addition operate.
- Code development, code enhancements ought to meet the particular needs of the system and users.
- Information created by EMIS got to be users oriented.
- EMIS got to collect, process, associate degreealyze and gift the knowledge in an extremely manner that helps in effective planning, strategy development and policy formulation.
- The system need to provide various forms of information concerning what amount population is ready for education associated to need admission in a passing specific course? Many what proportion {what numbers} would be enrolling for admission and also the approach several Management system for Education World Wide internet.iosrjournals.org forty four page will finally took admission? What proportion passed out successful? What proportion class rooms square measure available? What proportion lecturers square measure available? What is the shortage of teachers? What is the performance of the teachers? These queries provide information for future plans and to need corrective actions. The system ought to generate regular reports for thought of management and different stake-holders.

REFERENCES

- [1]. Harsh, Stephen B., L. J. Connor, and G. D. Schwab, Managing the farm business. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, 1981.
- [2]. Pedarpur, M; etal, „Management Information systems, functions, structure and its importance – In Manager“s

- Decision Making“, IJCRB, Vol. 4, No. 10, 2013, pp 901-997.
- [3]. House, William C., „Decision support systems – a data-based, model-oriented user developed discipline, Petrocelli Books, Inc. NY. 1983.
- [4]. Laudon, K & Laudon, J., „Management information systems: managing the digital firms“, 9th ed, Prentice Hall, 2006.
- [5]. Hinchliffe, J.K., Public Expenditure on Education in Nigeria: issues, estimates and some implications, Washington, World Bank, 2002.
- [6]. Carrizo, L; etal, „Information tools for the preparation and monitoring of education plans“, Education Policies and Strategies, UNESCO, Paris, 2003.
- [7]. Kaduna SMoE, Kaduna State, Education Strategic Plan (ESP) 2006 - 2015, (unpublished), Kaduna SMoE, Final Draft, 2006.
- [8]. FME EDB, A Handbook of Information on Basic Education in Nigeria, FME EDB, UNESCO, 2002.
- [9]. Chileshe, John etal, „Review of the Ministry of Education Sector Plan Zambia 2006, Copenhagen, 2007.
- [10]. Iivari, Juham, etal, „Challenges of Professionalization: Bridging Research and Practice through a body of knowledge for IT specialists“, IFIP 20th World Computer Congress on Advances in Information Systems Research, Education and Practices, Milano, Italy, 2008, pp 15-28.