



Scientific Review

ISSN(e): 2412-2599, ISSN(p): 2413-8835

Vol. 2, No. 5, pp: 68-73, 2016

URL: <http://arpgweb.com/?ic=journal&journal=10&info=aims>

Information Science Vs. Information Management: An Analytical Perspective

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Abstract: Information is power and great stakeholder of development many ways. Information and Knowledge consider as prime mover of the society. In knowledge market many subjects are responsible and deals with information activities. Fundamentally these works are collection, selection, organization, processing and management of information and similar facet. Some knowledge related subjects are Information Studies, Information Management, Information Science, Information Technology, Information Systems, Documentation and Librarianship. There are many tools are use for managing information. Present paper highlights various aspects of two leading information management subjects these are Information Science and Information Management including their similarity and comparison, briefly. Paper also presents a brief on carrier opportunities in these two domains.

Keywords: People; Information management; Information science; Management; Administration; Community and Information.

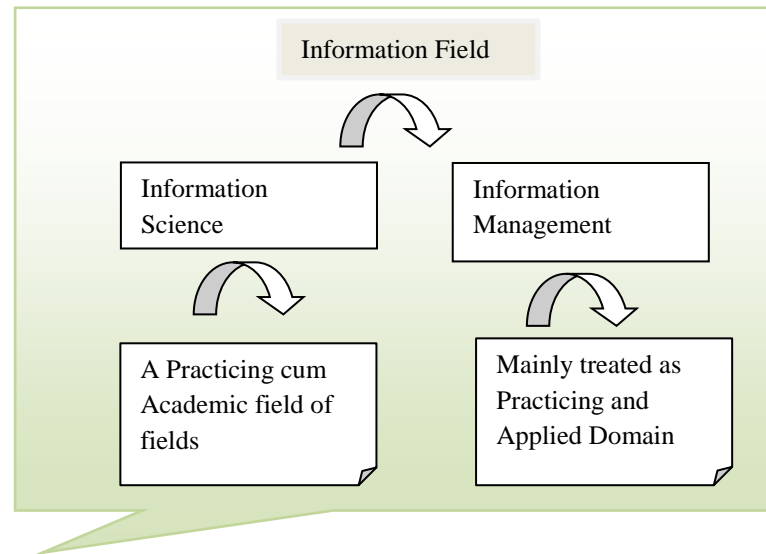
1. Introduction

Information Science and Information Management both are Applied Science and originated from social science and humanities domain such as Information Studies, Communication, documentation, Librarianship and so on. The main activities of both these domain are processing information and make a better information presentation systems and also promote healthy Information Transfer Cycle. Both the field are considered as prime mover and oxygen for several academic department, other non academic section, agencies and institutions. However Information Science and Information Management are two closed field but having some disparities. As far as scope and periphery, information science is much wider than information management in terms of knowledge clustering [1], [2], [3],[4]. The professionals practioner and department in between two are also results that information science departments are maximum in numbers than that of information management [5-7], [8], [9]. Information Science many ways in built with several aspects of information management (See Fig: 1). Due to their interdisciplinary nature information science and information management domain are provide several research domain and also prosperous carrier or job opportunities. [7, 10, 11], [12], [13], [14]. Still as like IT and computing, courses on Information Science and Information Management is limited around the world.

2. Objective

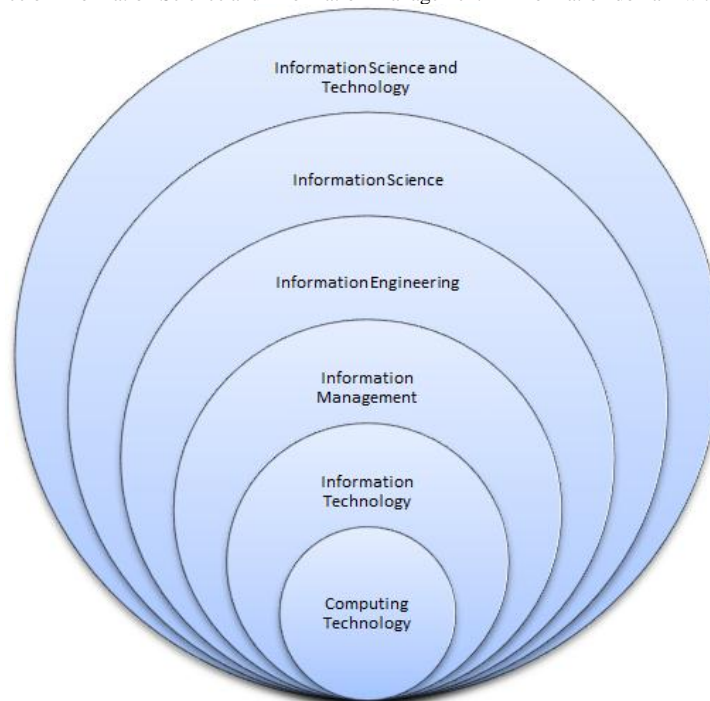
The main aim and objective of this study is includes:-

- To learn about basic of information sciences.
- To find out similarities between information science and knowledge management.
- To find out department and academic unit where information science and information management programmes are taught.
- To examine probable and emerging research domain of both these field and of course their job potentials.

Fig-1. Depicted two Information focused field with different approaches and characteristics

3. Information Science: Basics

Information Science is actually a field of fields or discipline of disciplines responsible for information processing and dissemination [15], [16]. Though apart from these tasks, collection, selection, and organization of information also treated as main task of information science [11, 17], [12, 18]. It is actually incorporated with so many gradients of Information, computing, technology and humanities domain. Expert evidence clear that, Information Science originally evolved from Social Science domain and then integration of several tools, techniques and technologies made it an Applied Science domain but focused with society and humanities [19], [20]. Information Science has close relationship with Informatics domain; practically main differences between these two are- Informatics is a practice field where as Information Science mainly treated as academic domain and side by side professional field [21-23], [24]. The smallest to largest gradients related to the information field is depicted in Fig: 2.

Fig-2. Representing the existence of Information Science and Information Management in Information domain with their apex and smaller facets

4. Information Management: Basics

Information Management is a practicing domain responsible for information management and organization. The main task of information management is also treated as Information administration [25], [26], [27]. Information Management closely related with Information Resource Management. The indirect activities of Information Management are collection, selection, processing and delivery of information. Virtually, Information Management is practiced in all most all kind of industries, institutions, organization and academic venture as information consider as

valuable resources and without this it is not possible to run organization properly [28], [29]. Information management is a smaller domain than knowledge management many ways.

5. Information Science and Information Management: Some similarities

There are several similarities we can find in between information science and information management:-

- First of all Information Science and Information Management both are deals with information and similar facet and take care about its healthy identification, processing and management and ultimately dissemination.
- Both the subject are interdisciplinary in nature and basically constituted with some information and technology and applied science domain such as computer science, Information Studies, IT, Management and some allied domain [18].
- Literature review and research find out that, both the domain fundamentally originated or inspired from information domain such as information studies, librarianship, documentation science and similar domain. The changing domain of information management was the reason for development of information science and side by side information management [30], [31].
- Both the fields not only practiced in the respective department like [dept of information science/ dept. of information management] but also some other academic department and domain such as department of Information Technology, Computer Science and engineering, Management Information Systems, Information Systems, Computer Applications and in the allied domain [32].
- During last decade a new academic school emerged [i.e. I-Schools] there also, both Information Science and Information Management take places as a programme of study [33].
- Researchers from both the domain in many cases prefer and published research paper in same or same type of journal or conferences [26], [34-36].
- Information science and information management both the domain having academician and professionals from so many fields and departments. They hold degree in ECE, Electrical Engineering, Information Technology, Computer Science and Engineering , Management, Artificial Intelligence, Experts Systems and so on.
- A wrong perception is still exists in both the domain like, Information Science mistakenly considered as IT and Information Management as Knowledge Management.
- If we see the availability of academic programme and cause than it may be notice that these programmes are still limited than other domain like-Information Technology, Computer Science, and Management.

6. Information Science and Information Management: Some Dissimilarities

Some of the differences or dissimilarities in between Information Science and Information Management are as follows:-

- Information Science and Information Management both have some similarities that are connect and both are interdisciplinary; but the area of Information Management basically constituted with Computer Science, Information Studies, Information Technology, Management, Operation Research, Business and Systems Studies. Where as in Information Science does not much more deals with Business, Operation Research, Commercial aspects.

Table-1. Showing some popular academic programme of each field

Popular Information Science programs	Popular Information Management programs
BSc-Information Science	BBA- Information Management
MSc-Information Science	MBA- Information Management
MPhil/PhD-Information Science	MSc-Information and Knowledge Management

- The nature of courses of Information Science and Information Management is also differs some way in Information Science courses are basically comes with MSc or BSc nomenclature offered at Information Science department where as Information Management is mainly offered as BBA/MBA or commerce stream specialization in many countries [37], [38], [39]. Thus, IM programme is offered mainly at Information Management or Commerce or Business related departments Some possible programs have depicted in Table: 1.
- Job scenario and possibilities are also differs in each cases, in Information Science one can go for traditional job as well as computational technological job. In Information Science [IS] are can go for traditional jobs like cataloguer, classificationist, indexer, abstractor, librarian, information officer, information manager and so on. And side by side computational job like networking, database administrator, web administrator, information scientists and so on. Whereas Information Management professionals basically able above mention computational job and some business-information job like- system manager, business analyst, BPO and so on.

- Practitioner of Information Science field basically comes from Electronics and Communication Engineering, Information Technology, Computing and Systems and so on. Whereas Information Management professionals are basically come from Information Science, Management Information Systems, Information Systems, Business studies and so on.
- Virtually Information Science is today is treated most sophisticated Information-Technological and People interactive subject. And Information Science was mainly backed by Library Science and Documentation Professionals. As far as Information Management is concerned, this is brought us some academic professionals like-Management and Business studies.
- Information Science is an academic and side by side a professional subjects where as Information Management is a professional and practicing field. rather than the academic in nature.

7. Information Science and Information Management

Information Science has several interdisciplinary research domains; classified as two foci [3], [40]. One foci is deals with traditional knowledge management like indexing, cataloguing, classification and other is knowledge organization tools. While, information science may also seen as computational foci with several new areas like—

- Cloud Computing.
- Informatics.
- Green Digital Repository.
- Green Information Science.
- Virtualized Network.
- Community Informatics.
- ERP and Information.
- Business Informatics and Intelligence and so on.

Other hand, Information Management is basically deals with some domain like- Information and Knowledge creation and organization, SAP, Knowledge Repositories, Decision Science and Management, Business Informatics, Information Systems, Project Management, Information Transfer [41], [42].

Thus, the research domain of Information Science is much larger than that of Information Management.

8. Carrier Opportunities

As far as carrier opportunities is concerned, Information Science provide several carrier opportunities like in traditional context knowledge organization profession such as cataloguer, classificationist, indexer, abstractor, librarian, information officer whereas most emerging and contemporary jobs are new technology based like Virtualization Expert, Information Engineering, Information Scientist, Green Computing Expert, Network and Security Administrator, Database and Data mining Expert, Multimedia Information System developer. Information Management job opportunities including- Information Manager, Decision Manager, Chief Technology Manager, Knowledge Broker, CIO and so on. Thus Information Science is deals with both traditional and computational information job while Information Management is mainly deals with Management powered Information dealing [8], [18].

9. Findings

- Information Science [IS] and Information Management [IM] both are information dealing subjects. while Information Science is much more affiliated with computing and technology rather than Information Management.
- Information Science is larger domain than that of Information Technology as it deals with Information Studies, Management, Psychology and some other topic.
- MSc-Information Science is most popular Information Science course in India and abroad while Information Management is mainly as MBA-Information Management.

10. Suggestions

- Further study is possible by analyzing curriculum of Information Management and Information Science.
- Information Science is still less offered in academic world. though it has several benefits for better information utilization and community development.
- It is better to integrate computing in both Information Management and Information Science for their further utilization.

11. Conclusion

Information is a vital resource for development of everything like educational, social, political, and economical and so on. Virtually Information and its better access and utilization is possible with Information Science and Information Management; than that of Information Technology or Computer Engineering. The disparities between 'have and have not' many ways possible with Information Management and Information Science as far as information is concerned, thus is also helps in removing digital divide.

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