The Significance of Sanskrit in Information Technology - It's Limitation and Relief

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I. INTRODUCTION

Sanskrit is an ancient language of the world and it is also included in indo- Aryan Language. Today it is considered as one of the 22 scheduled languages of India. The official language of the state Uttarakhand in India is Sanskrit. Sanskrit language is regarded as an encyclopedia which consist so many knowledge and most valuable awareness in ancient period like Veda, Puranas and scientific field etc. Now we have to deeply think about that the need for Sanskrit Informatics. Sanskrit has a rich tradition of Poetry and Drama as well as Scientific, Philosophical and religious.

Even though the common language of Computer is English somewhere using their mother tongue in computer as a common language. Here have attention that Some application of computer is working by using Sanskrit Language because the eminent scholars said that Sanskrit is serviceable language in computer because the pattern of *panini'* s grammatical system is arranged as mathematical rules and regulations. In other way it is systematically arranged as Binary system of Computer language. So the role of Sanskrit in informatics and Communication Technology is unique. The application of computer in Sanskrit is evolving into a new subject, which can be termed as Sanskrit Informatics[1]

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[1] Sanskrit Informatics, P. 1

The grammatical structure of Sanskrit language is the most attractive among the other language all over the world. The systematic structure of this language is most helpful to use in computer. So some researchers find out that Sanskrit is the best language for use with computers. The vocabulary of Sanskrit is derived from root syllables. The scientific and technological terms in Sanskrit have been hidden in the verse found in the Vedas. There are many new knowledge of the India is seen in compassions and treatises of Sanskrit in the present scenario like Architecture, Medicine, Mathematics, Astronomy and Advanced technological areas(Aero nautical engineering). All modern scholars said that the Sanskrit is an encyclopedia in which consist of many various knowledge and even now almost knowledge resources is available in it.

Sir Monier- William Said, *India though it has more than five hundred spoken dialects, has only one sacred literature, accepted and revered by all adherents of Hinduism alike however diverse in race, dialect, rank and creed. That language is Sanskrit and Sanskrit literature the only repository of the Veda or Indian knowledge in its widest sense, the only vehicle of Indian mythology, philosophy, law, the mirror in which all the creeds, opinions and customs and usages of the Indians are faithfully reflected and the only quarry whence the requisite materials may be obtained for improving the Vernaculars or for expressing important religious and scientific idea.[2]*

India has seen amazing strides in almost all fields. All the same time the students are less aware about the bonding between Sanskrit and the computer and their usage. The blindness about this topic is the main reason for it. Most of the students did not giving as much value to the Sanskrit, and also considered it as a specific region language for communication only it all due to the lack of resource to provide coherent information about the in estimated topic. So many problems will face to step up a farfetched topic to the public. In this paper widely discusses about the major issues and reliefs of computer studies with Sanskrit in academic.

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[2] ibid, P. 3

Some scholars deeply think turning point by the unity of the Sanskrit and the informatics. As a result presently some of the universities redesigned the syllabus and provide Sanskrit as a subject in their new courses. Though this Sanskrit aspirants gets more ideas.

Academic Websites

Every language of the world has many academic and research resource. There are thousands of websites on Sanskrit. Internet is the most important tool to get information and it provides today without it any learning and teaching process is not existed. It is discarded on day to day life. To collect the data for current information on research and teaching field this is used. Many internet sites have an extensive role in the information technology in which from many data and information to collect for students and teachers on their interesting areas. Many have links to connect academic resources and many online related to Sanskrit Sahithya, Nyaya, Vyakarana, Jyothisha and Vedanta.

It is widely using by researchers to collecting their own research works. From it so many material available in variety sources on variety styles. It is not only for the researchers or student or others faculties of academic but also for the public. There are different kind of information will be get to us like research articles, book reviews, news and abstracts. Some relevant articles related to Sanskrit Research is given below:- Evolution of Sanskrit Language, History of Sanskrit Literature, Eminent Sanskrit authors, Well-known works in Sanskrit, Sanskrit and others classical languages, Sanskrit and modern Indian languages, Sanskrit and the Sciences, Sanskrit Metaphysical subjects, Sanskrit Humanities, Sanskrit and Religion, Sanskrit and arts, Sanskrit hymns and *subhashitas*.

The above mentioned items are mostly published by reputed national organization such as the *Rashtriya Sanskrit Sansthan,* Sanskrit Universities and research institutions.[3]

[3] ibid, P. 31

Sanskrit Specific Sources

There are numerous sites and resources for Sanskrit and other subjects. Among them Sanskrit voice is the most important one which can be reached at http://sktcoice.com. These types of sites are very helpful to the listeners for their interesting area. From this site we will get different kinds of Sanskrit dictionaries like Sanskrit- English dictionary, Spoken Sanskrit Dictionary, A practical Sanskrit Dictionary etc… Various online resources and online tutorials are also accessible through this site.[4] In this site are linked with other organizations and resources like Wikipedia, e Sanskrit, Rashtriya Sanskrit sansthan, the Vedic foundation, American Sanskrit Institute, the Shaiva manuscripts. Some Similar Sanskrit and indology related websites and other resources are listed below:-[5] Sanskritlinks.blogspot.com, Kalidas.blogspot,com,Sanskritbhasha.blogspot.com,samskritham.wordpress.com,Ya
ajushi.blogspot.com,Sanskritquote.blogspot.com,http://sanskritvoice.com,http://ww
w.sanskrit.eduitc,http://samskrutam.com/sanksrit/,resources/websites.aspx

Sanskrit Related Soft ware

Software is the intelligence of the Computer system. Without software programme will not work the hardware of the computer system. Two types of software are Operating system and Application Software. Computer Application to Sanskrit as well as developing programmes to process Sanskrit in computers are developed by Various department of the Government like Centre for development of advanced Computing(CDAC) at poona, TDIL under dept of IT Govt. of India, ILDC, JNU and other NGOs like CIRD, academy of Sanskrit Research at Melkote etc. "Technology Development for Indian Languages" is a major project of DIT and its aim were (Department of Information Technology) to develop information processing tools to facilitate human machine interaction in Indian languages and develop technologies to access knowledge resources remaining in various Indian languages including Sanskrit.[6]

[4] Acharya, vedamu, Chitrapurmath
[5]ibid, P.7 1
[6] Ibid., P.46

There are various programme of computer system was developed by TDIL to motivate Sanskrit scholars and students. They are able to use ICT tools and Technology perfectly. Word processing, presentation, preparation, spread sheets preparation; web page surfing &designing, messaging etc. are the main work in Sanskrit. So there many opportunity are for students and also most helpful to researchers can find out various subjects and topics in Sanskrit.

Available Sanskrit Software Tools and Fonts are given below:-[7]
Sanskrit Language True Type Fonts with Keyboard driver, Sanskrit Language Unicode Complaint Open Type Fonts, Sanskrit Language Unicode Compliant Keyboard Driver, Sankrit Language Version of Bharathiya 00.o (Open Source), Content Management System, Sanskrit Scribes Layout and Publishing Software, Sankrit Pradipika, Online Multilingual Amarakosa, Mahabharatha Indexer, Sanskrit Sandhi Generator, Sanskrit language Subanta analyzer, Sanskrit language subanta Generator, Sanskrit Langauge Tinanta ISM Publisher, I Leap, Generator, Sanskrit Language Karaka Analyser, Sanskrit Language parts of speech (POS) Tagger, Sanskrit language Letter pronunciation, Sanskrit Language alphabet writing, Nitya Archive.

The above Version of Sanskrit languages many different functions can be done as well as modules for e-mail client and browser etc. Moreover some functions can be done with MS office in English. There are many possibilities in computer study of Sanskrit Informatics and several Chances and opportunities in this field especially the Sanskrit Students. They have to try it as good as. Here have the chief role of the authorities to afford the awareness of computer study to the Teachers. In the present scenario the teacher should be awake to the syllabus.

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[7] ibid, P. 47

Limitation
1.   Not open Source:-
Sanskrit is not a common language and most of them giving high priority to other languages like Malayalam, English, Hindi and other regional languages etc
2.   Modicum:-
Most of the parents and students willing to seek admission in science and commerce related topics due to the job opportunity and salary packages hence only little students opting Sanskrit.
3.   Insensibility:-
Most of the language teachers are not much good to teach informatics due to the ignorance of the topic because most of the language aspirant not studying science related topics.
4.   Limitation:-
If the topic are more digitalize its will help the students to understand more easily and catch the topic fast. Unfortunately most of the colleges do not have a smart class room. It will affect the students to get the apt knowledge of computer.
5.   Apathy:-
Students are not interested to study computer because they selected it in order to avoid the difficulties of arithmetic and reasonable logic in science and others.
6.   Insufficient:-
The students wouldn't digest the content of wide syllabus accurately and the faculty members couldn't able to cover all topics with its specific value/importance.
7.   Excessiveness:-
English is commonly used for the study of computer. Students cannot understand the specific words as properly. Some technical words are not used in Sanskrit.

RELIEFS
1.   Finesse:-
Here should be given Sanskrit education from the primary level to all. Help the students to crap the languages easily in the higher students. Also provide a simple exhibition or workshop to attract the students to know more about the Sanskrit informatics.
2.   Preference:-
The medium of Examination should be in Sanskrit. Reduce to choose English or others as optional. It helps the students to improve the reading and writing skill in Sanskrit.
3.   Sensibility:-
Afford the basic Computer awareness and at least one language lab class from the primary Level. They

become more eager to know the Sanskrit computer informatics. Also teach the relation between the Sanskrit and informatics in simple manner.

4.   Discipline:-

Language teaching faculties have no idea about the computer and its usage. And also they did not awareness about the Sanskrit related software in computer. They may to handle and the importance of technicality the computer through the vocational classes for them if conducted it.

5.   Practicable:-

Authorities should more care about the balancing the time and widens of the syllabus. And also provide facilities smart class and the digital study material for the easiness of students and teacher.

6.   Possibility:-

In order to attract the students the relevant authorities ride the opportunities like more jobs and others etc in the Sanskrit field.

7.   Attractiveness:-

New invention in the ICT gives awareness about the bond between the Sanskrit and informatics it's attract the students those who are interested in computer to this field. It helps awakens of Sanskrit in the world.

II.   CONCLUSION

The study of computer in Sanskrit basically is most relevant in the present scenario. Though the Technological side is developed but the study of the computer system are technically facing many problems. In the result of the survey from the Sanskrit students, they do not concern the need of the study of the computer because Sanskrit text is not available for the computer study to them. If the medium of communication of the computer study is Sanskrit more effective classes should be conducted in every class room. Such as the classes taken by using as the power point of presentation also good and speedily communicated the classes. The lack of facilities and exalted syllabus make a complicated situation.

It has been several sources and resources on Sanskrit and will get more information through the sites with Sanskrit related. But any information of the prescribed subject with linked to other resources. Searching any information on computer with Sanskrit related topic we can find out the peculiar blog or link in connection with it. The Sanskrit related sites mainly helpful to the researchers and other academicians. Though the limitation of this process is the site or other resources do not know how to use properly because the students do not awareness about these sites.

Due to the heavy syllabuses of the college students become a lazy tendency to study the computer. All students should be bothered about our new technology and possibility of the information technology. Through it should be done easy to study and to choose other any field of occupation.

Growth of the Technology is slowly changing the human life all over the world. Because his desire and attitude to life is constantly being changed and they have new expectation to their own life. His thought and decision were changed with the invention of Computers. Now we use the computers everyday and everywhere.

Computer becomes a part of human life. The main advantage of technology is getting any information from anywhere. It may help be to develop the country.

In this paper widely discussed about the role of the computer in information technology such as here also discussed the merits and demerits of the study of the computer study in Sanskrit. Anyway every field of knowledge especially technologically is focusing more difficult task in the modern era. The computer awareness and Sanskrit informatics is discarded in academic situation because it is inevitable part of our day to day life.

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