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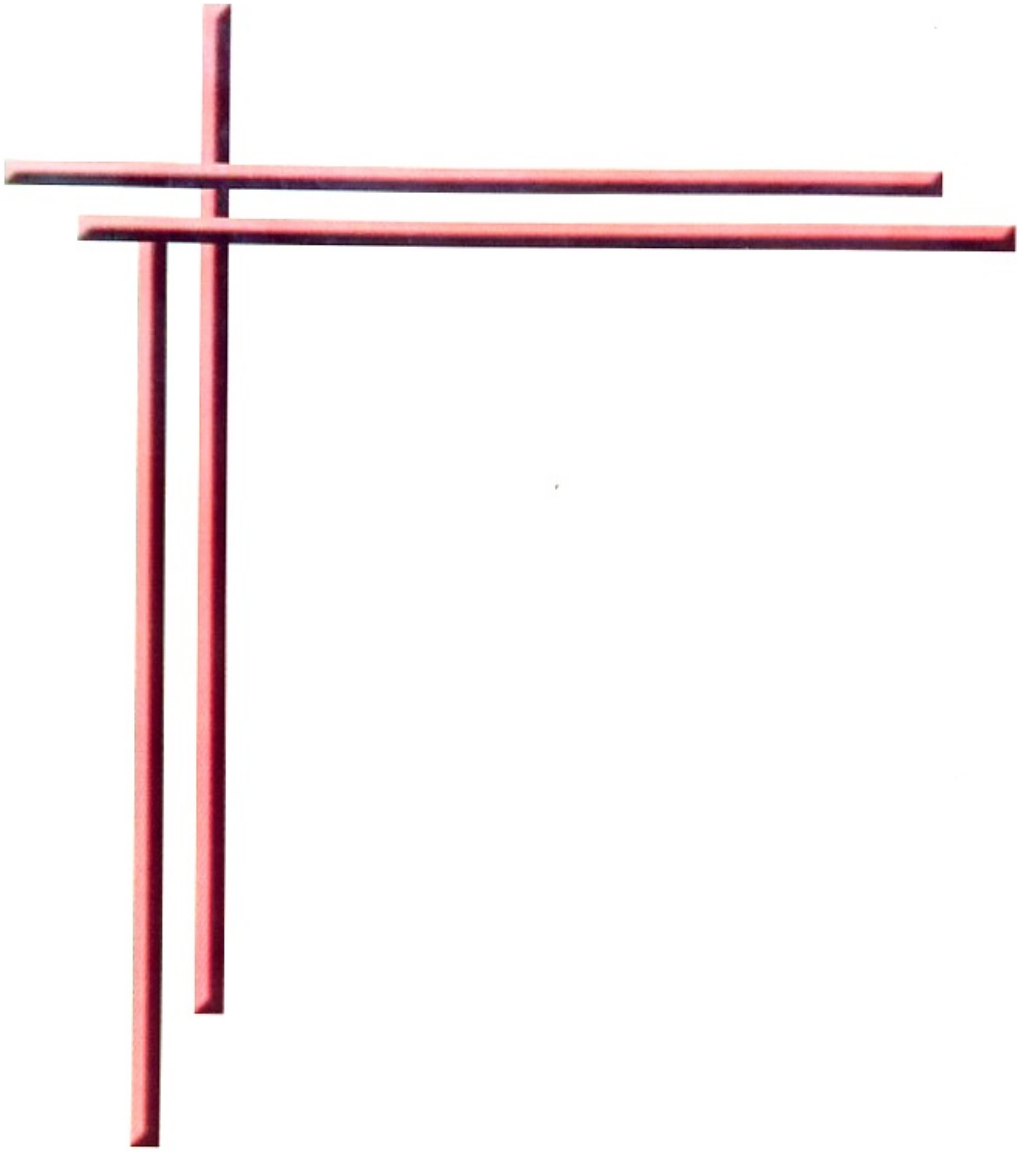

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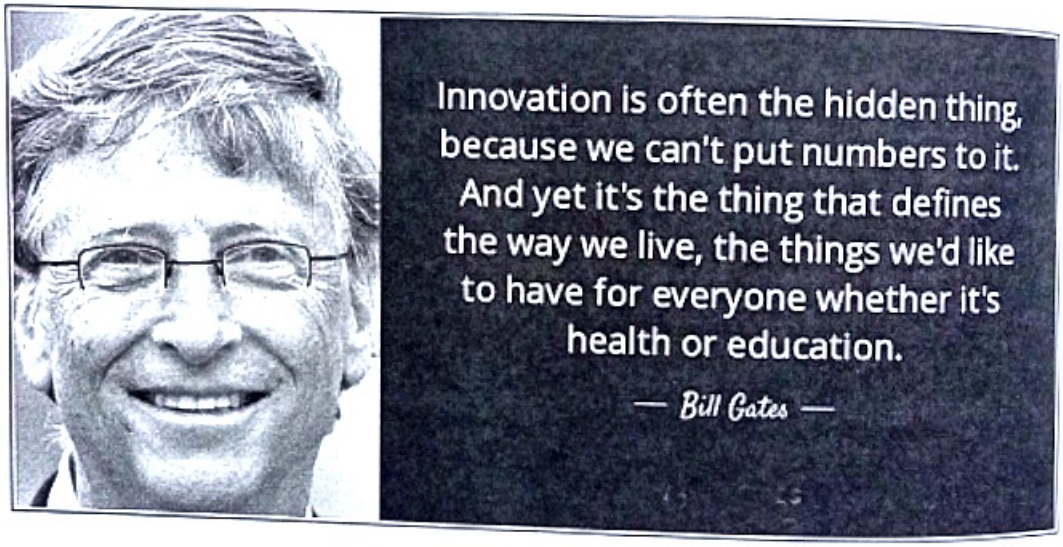
Innovation is often the hidden thing, because we can't put numbers to it. And yet it's the thing that defines the way we live, the things we'd like to have for everyone whether it's health or education.
— Bill Gates —

INNOVATIONS IN EDUCATION

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Chief Editor : **Dr. Jayan Erancheri Illam**

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Bhavya P.V.

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Preface

This book "**Innovations in Education**" is a collaborative initiative by Sreekrishnapuram V.T. Bhattathiripad College, University of Calicut. This aims to comprise the research perspectives of E-teaching and E-Content development. Researchers are from different educational backgrounds and they all are here to express their innovative ideas. Now, there is a lot of researches going on in this area of E-teaching and E-Content development. This book aims at motivating beginners in E-teaching by introducing new methodologies, going through discussions about the impact of digital teaching in the higher education area, and also provides new insights about E-teaching and E-learning. It is the need of the present day scenario. We extend our sincere gratitude to all who stood along with us in this great venture. We congratulate all the authors for their contributions to this volume.

This book suggests some approaches that they can adopt to manage this sudden shift of teaching and learning from physical classrooms to digital classrooms. Even though the internet and all the E-teaching technologies are around us for a long time, we were hesitant of implementing these into our Teaching-Learning process. This book aims to walk along with the teachers and guides them to a new era of E-teaching.

We must thank our publisher Mr. Suresh Chandra Sharma, Managing Director of Neelkamal Publications Pvt. Ltd., New Delhi-Hyderabad, who has taken a lot of interest in this book. His efforts to bring out the Book in the excellent form will always be remembered.

We feel happy to entertain any suggestions and additions for refinements of this book and all such modifications will be taken care of in the next issue of the book.

Editors

Dr. Jayan Erancheri Illam
Dr. Saritha Namboodiri
Bhavya P.V.

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Thanks to everyone on our publishing team and our publishing partner Neelkamal Publications Pvt. Ltd., for their sincere cooperation.

The technical support given by EMMRC, University of Calicut for our teachers and contributors to the book in related to educational technology is highly appreciated. We express our sincere gratitude to the team EMMRC for this successful endeavour.

We are extending our gratitude to all the contributors of the book.

Thank all those who contributed to the success of the physical creation to completion of this book.

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CHAPTER

5

E-resources and Coconut Sector

– Dr. Asish*

ABSTRACT

This paper describes what are electronic resources and the available e resources in agricultural sector particularly coconut sector. This article is based on secondary data and analysis reveals that there are vast information in agricultural sector in the form of e resources and in coconut sectorcontent is greater than that of non-animated e-learning content.

5.1 Introduction

E –resources means electronic resources which include websites –open access and full text, web sites bibliographic, electronicjournals, data files, youtube data etc. The term digital has been used to refer to the vast collection of information to which people gain access over the Internet. The current Information technology revolution brings major changes in the way of Information communication. Information Communication technology developments opened up new opportunities to e-resources, publishing in a big way. The E-resource is distribution of information in any electronic form such as CD-ROM, Floppy Disk or Magnetic tape or across a computer network like e-journals, E-Books, etc.

The main advantage of e resources is it is easy to access whereas its main difficulty is it requires internet or connectivity. Electronic resources are easily accessible in remote areas. Electronic resources solve storage problems and control vast information. Electronic information sources are becoming more

* Dr. Asish, Assistant Professor, Department of Economics, Sreekrishnapuram V.T. Bhattathiripad College, Mannampatta, Palakkad.

and more important for not only the academic community but to the common people as well. The improvements in technology has made the libraries and people to add new things to collection of knowledge. The more prominent among them is the e-resources.

An electronic resource is defined as a resource which requires computer access or any electronic product that delivers a collection of data, be it referring to full text bases, electronic journals, image collections, other multimedia products and numerical, graphical or time based, as a commercially available title that has been published with an aim to being marketed. These may be delivered on CD-ROM, on tape, via Internet and so on.

5.2 Objectives

- To find out different types of E-resources available.
- To find out the E-resources available in agricultural sector in India.
- To find out the E-resources available in coconut sector and analyse the e-content available in coconut development board.

5.3 Methodology

Secondary data are used in the study. Different research papers, websites, articles and unpublished Ph.D. thesis named 'Economics of coconut cultivation in Kerala by Asish are used to collect data

5.4 Need of E-resources

E-resources enable the one institution to provide better service to the user community. The few considerable points are mentioned bellow:

a) To get access to an information by more than one user
b) It can be searched quickly.
c) It is easy to be found.
d) These resources can be stored in huge amount. In small devices
e) The user can analyse the purpose of usage
f) Know different types of e-resources commonly used by respondents
g) To collect, store, organize information in digital form.

5.5 Types of E-resources

1. **E-Book:** E-books is the many formats competing for prime time, including Adobe PDF, Microsoft Reader, eReader, Mobipocket Reader, EPUB, Kindle and iPad
2. **E-Journal:** An e-journal is very important part of every library collection. Ejournals are one application of information technology.
3. **E-Newspaper:** An E-newspaper is also known as online newspaper or web newspaper that exists on the World Wide Web or internet.
4. **E-Magazines:** An E-Magazine is very important part of every library collection. E-Magazines are one application of information technology.
5. **Indexing and Abstracting Databases:** These are the reference sources which provide bibliographic information about journal including abstracts of the articles.
6. **Full Text Database:** They are either free or with charges. E-databases is an organized collection of information of a particular subject or multidisciplinary subject areas, information within e-databases can be searched and retrieved electronically.
7. **Reference Database:** These are Dictionaries, Almanacs, and Encyclopaedia, etc., available on internet in electronic format.
8. **Statistical Database:** These databases contain the numerical data useful for the mass community.
9. **Image:** Images may be of jpeg, png or gif formats.
10. **Multimedia Products:** All the products which include more than one media are mentioned here.
11. **E-Thesis:** These databases are contained with Ph.D thesis and Dissertation published through e-format.
12. **E-Clipping:** The main objective of e-clipping is retrospective search and comprehensive analysis of new items.
13. **E-Patents:** E-Patents is the exclusive right granted by the government to make use of an invention for a specific period of time.
14. **E-Standards:** Written definition, limit rule, approved and monitored for complains by authoritative agency.

5.6 E-resources Related to Agriculture and Coconut in India

1. CeRA: Consortium for e Resources in Agriculture
   http://cera.iari.res.in/index.php/en/
2. Krishikosh: An Institutional Repository of Indian National Agricultural Research System
   http://krishikosh.egranth.ac.in/
3. IDEAL: Indian Digital Ensemble of Agricultural Libraries. A platform of Indian Agricultural Libraries,
   http://agricat.egranth.ac.in/
4. E-Course
   http://ecourses.iasri.res.in/
5. IARJ: Indian Agricultural Research Journals
   http://epubs.icar.org.in/ejournal/
6. DOAJ: Directory of Open Access Journals,
   https://www.doaj.org/
7. DOAB: Directory of Open Access Books
   https://www.doabooks.org/
8. OPENDOAR: Open DOAR is a Global Directory of Open Access Repositories and their Policies
   http://v2.sherpa.ac.uk/opendoar/
9. ICAR: Indian Council of Agricultural Research
   https://icar.org.in/
10. NAIP
    http://www.naip.icar.org.in/
11. IARI: Indian Agricultural Research Institute
    https://www.iari.res.in/
12. JSTORE:
    https://www.jstor.org/
13. Government of India, Agricultural Portal
    https://www.india.gov.in/topics/agriculture

14. **Ministry of Agriculture and Farmers Welfare**
http://agriculture.gov.in/
15. **Department of Agriculture, Co-operation and Farmers Welfare**
http://agricoop.nic.in/
16. **Department of Agricultural Research and Education**
http://dare.nic.in/
17. **Directorate of Economics and Statistics, Ministry of Agriculture.**
https://eands.dacnet.nic.in/
18. **Ministry of Agriculture and Programme Implementation**
http://www.mospi.gov.in/
19. **Economic Survey, Govt.of India**
https://www.indiabudget.gov.in/economicsurvey/
20. **Agricultural Marketing Network**
https://agmarknet.gov.in/
21. **Farmers Portal**
https://farmer.gov.in/
22. **mkissan**
https://mkisan.gov.in/
23. **Department of Agriculture Development and Farmers Welfare, Govt. of Kerala**
https://keralaagriculture.gov.in/
24. **Official Web Portal Government of Kerala**
https://kerala.gov.in/agriculture-developement
25. **FIB:** Farm Information Bureau
https://www.fibkerala.gov.in/index.php?option=com_content&task=view&id=368&Itemid=139
26. **Department of Agricultural Co-operation and Farmers Welfare**
http://agricoop.nic.in/agriculturecontingency/kerala
27. **Kerala Agricultural University**
http://www.kau.in/

28. Economic Review, Government of Kerala

    https://kerala.gov.in/economic-review

29. State Planning Board

    http://www.spb.kerala.gov.in/

30. Social Welfare Schemes, State Planning Board

    http://www.spb.kerala.gov.in/images/e_book/ss/mobile/index.html

Coconut

31. Coconut Development Board

    http://coconutboard.nic.in/

32. International Coconut Community

    https://www.apccsec.org/

33. Central Plantation Crops Research Institute, CPCRI, Kasargod

    http://www.cpcri.gov.in/

34. Kissankerala Coconut

    https://www.youtube.com/watch?v=2rZFVTrk-w8

The E-resources available in the coconut development board are classified as below:

1. **Cultivation which includes**

   Package of practices, coconut varieties, plant protection, pest and diseases affecting coconut sector and monthly operations that have to be undertaken in coconut cultivation

2. **Health benefits which includes benefits of**

   Tender coconut, coconut, coco nut oil, virgin coconut oil and neera

3. **Coconut products which includes**

   Kernel based products, water based products, inflorescence based products, convenience food from coconut and coconut shell based products

4. **Processing technology of**

   virgin coconut oil, desiccated coconut, coconut milk, coconut cream, packed tender coconut and nata-de-coco

5. **Directory information which includes**

   Product manufactures list, farmers list, producer companies list and coconut tree climbers list

6. **Export promotion council section which includes**

   Coconut exporters list, export statistics and different application forms

7. **Statistics section which includes**

   Statistics on area, production, price rainfall data, temperature data and export, import data

8. **Farmer producer organisation section which includes**

   List of coconut producer societies, coconut producer federations and coconut producer companies

9. **Schemes of coconut development board which includes**

   Area expansion scheme,integrated farming scheme, planting material, technology demonstration, market promotion schemes, information technology, palm insurance scheme and replanting scheme.

10. **Technology mission on coconut sector which includes**

    The mission, goal, objectives, focus areas, components and programmes, pattern of assistance

11. **About coconut development board section which includes**

    Functions of coconut development board, thrust areas, act, rules and public information etc.

12. **Media section which includes** exhibitions, seminars, discussion forum etc.

The e-resources from coconut development board also include video films about different aspects of coconut cultivation, processing, marketing coconut foods etc. There is also a link to different agricultural related sites.

5.7 Problems

The main problem related to e resources in agriculture paricularly coconut is that most of the farmers and labours working in coconut sector are illiterate or they have no knowledge in using the information technology related devices.This poses difficulty in spreding e-content to farmers and labours in coconut sector.

The second problem related to e resource is it needed infrastructure such as availability of internet and connectivity .Agriculture particularly

coconut is on the rural side of the economy. In the rural sector IT Enabled infrastructure is not much developed. This leads to problems in spreding e-content or e-resource in rural areas including coconut sector.

5.8 Conclusion

The above study is based on secondary data. The main objective of this type of analysis is to get an insight into the world of electronic resources popularly known as e-resources. In this analysis the researcher explains what is e-resources, its need, e-resources available in agricultural sector and coconut sector. The researcher found that there is vast information available in the form of e-resources and the main problem is spreading this information in the rural areas.

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