

INFO QUEST

(A Technical Magazine)



Volume : 12

Issue : 2

Year : 2019

ABOUT THE COLLEGE

Dr.Mahalingam College of Engineering and Technology (MCET) was established in the year 1998 by Dr.M.Manickam with a view to commemorate the 75th birth year of his beloved father Arutchelvar Dr.N.Mahalingam with a mission to impart high quality competency based education in Engineering & Technology to the younger generation with the required skills and abilities to face the challenging needs of the industry around the globe. MCET is a self financing, co-educational Engineering College and it is approved by AICTE, New Delhi & affiliated to Anna University. The Institute has been accredited by NAAC with A++ and 7 UG Programmes (CSE, EEE, EIE, ECE, Civil, Mech., Auto.) are accredited with Tier-1 by NBA. The MCET currently offers 10 UG, 6 PG and 5 doctoral programme in Engineering, Technology and Science.



ABOUT THE DEPARTMENT

The department of Information Technology was established in 1999, offers B.Tech (IT) programme, Affiliated to Anna University and Approved by AICTE. The faculties of the department have over 100 publications in conferences and journals like IEEE Transactions, Springer Verilog, Wiley, IET, CSI, etc. During the last five years, the department has conducted handful of National conferences, seminars and skill trainings sponsored by AICTE, CSIR, PMKVY, Infosys, TNSCST. The areas of expertise of the faculty members include Information processing, Data Base Management, Software Engineering, Web Technologies and Networking, etc.,

Our Department and EMC2, Bangalore have signed an MOU to provide training to the students in information storage management. Our department and SAP, Bangalore have signed an MOU to provide training for students on SAP products and business applications. Our department and VMware, Bangalore have signed an MoU to provide training for the students on VMware products and business applications. Our department and National Research Development Corporation have signed an MoU to provide support on patenting & technology commercialization.



Vision & Mission



InfoBee



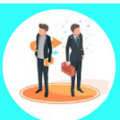
Student Activity



Staff Activity



Training & Placement



**Drawing And
Photography**



Articles





Vision :

To become a Centre of Excellence in education and research in the field of Information Technology, to meet global challenges in computing industries.

Mission

- ▶ To impart world-class knowledge in the field of Information Technology.
- ▶ To promote industry-institute interactions to empower the faculty members and students.
- ▶ To support and facilitate research and development activities.
- ▶ To develop all round personality by inculcating the values and skills needed for students to upgrade themselves as IT professionals.

Programme Educational Objectives (PEOs)

The graduates will:

PEO1. Technical Expertise:

Have high level of technical competency to identify problems and to generate innovative solutions, which would conform to the needs of IT industry.

PEO2. Lifelong Learning:

Successfully adapt to changes in roles and responsibilities, through lifelong learning, for collaborating professionally with various stakeholders.

PEO3. Ethical Knowledge:

Ethically apply their computing knowledge and skills considering societal, economic and environmental factors.

- PO 1. Engineering knowledge
- PO 2. Problem analysis
- PO 3. Design/development of solutions
- PO 4. Conduct investigations of complex problems
- PO 5. Modern tool usage
- PO 6. The engineer and society
- PO 7. Environment and sustainability
- PO 8. Ethics
- PO 9. Individual and team work
- PO 10. Communication
- PO 11. Project management and finance
- PO 12. Life-long learning

Programme Specific Outcomes (PSOs)

- PSO 1. Open Source Software
- PSO 2. Data Science

Info Bee



InfoBee – IT Technical Association

REPORT OF TECHNOFETE'19 TECHNICAL EVENT
"CODE O' FIESTA"

InfoBee An IT Technical Association organized a Technical Event **"CODE-O-FIESTA"** in the Inter College Symposium **"TECHNOFETE '19"** on **25.09.2019**. Students from various departments of various colleges participated in the Event. The Event was divided into Three Rounds with two participants per team.

A Screening process was done on each round and selected participants will move to the next round. The top three teams in the Final round were selected and provided with certificates and cash prizes. The rounds details are provided below.

Round 1: BUG FIXER

Number of Minutes:30mins

In BUG FIXER C Programming questions were given with bugs. The participants are asked to find the error residing in the program. The participants are asked to solve 'n' number of problems in the given time. The top 20 teams selected based on the mark they scored.

Round 2: CODE STOMP

Number of Minutes: 30 mins

In CODE STOMP, each team was given a question and three minutes to discuss. One member of each team was asked to code for the programming question. The code done by member 1 is not known for the other member. After 5 mins, the other member is asked to complete the code for the given scenario. The participant should not tamper/replace the other member's code. The teams were ranked based on the time taken for round completion. The Top 10 Teams were chosen for the final round.

Round 3: PUZZLE**Number of Minutes: 30 mins**

In this round a team was provided with a puzzle that has a hidden information. The team was asked to solve the puzzle as soon as possible and after solving it the question will be revealed. The time of solving the puzzle, finding the question and solving it will be noted. The team which solves the problem effectively with minimum time and space complexity are considered and the first three prizes was awarded.

WINNERS DETAIL:

First Price : Muthu kumar.P(17BIT010) & Navanitha Krishnan.S(17BIT018)

Second Price : Vishnu.T(19BIT009) & Mukeshwaran.V(16BME028)

Third Price : Rajeshkumar(16BMC029) & MohanPrasad(16BMC034)

Date: 25.09.2019

Venue: C315

Timing: 02.00AM-4.30PM

No. of Participants: Team: 49(2 per team) = 98 participants



HACKATHON EVENT REPORT TECHNOFETE'19

Date: 28.09.19

Infobee-An IT Technical Association and DigiFlash- CSE department Technical Association organized 24 hours Hackathon event during TECHNOFETE'19, on September 25.09.2019 (09:00 A.M) to 26.09.2019 (09:00 A.M).

DATE: 25th & 26th September

EVENT NAME: Hackathon

Hackathon is a good platform for the participants to learn and express their creativity and their talent in the field of software development. Students of various colleges had eagerly participated in the hackathon event. Both internal and external college students participated in the event. Totally "17 teams" (34 participants) participated in Hackathon.

The participants were given a socially useful and reliable topics for the development. The participants were given a choice to choose their domain as either Android/Web development. The topics were given as, on spot for example, Online movie ticket reservation system, Online food ordering etc., After, choosing the topic the team chose the domain of their interest and started implementation of the project.

The review team conducted periodic reviews for analyzing the state of development of the module and provided suggestions for the team. All the teams worked with a winning spirit and showed an update in each review. Based on the level of completion of the modules and efficient development of the software and considering many other criteria's, the top three teams were selected and given Prizes.





STUDENT ACTIVITY

Workshop

Paper Presentation

Inter & Intra collegiate competition

Seminar

Inplant training

Workshop on “Machine Learning and its Applications” During 13th & 14th September 2019 Report of the event

Brief of the event, Guest details and Participants details:

Department of Information Technology has organized two days' workshop on "Machine Learning and its Applications" for external and internal participants during 13th & 14th September 2019. The resource person for the workshop was Mr. Bala chandar Raju, Data Analyst, Target Corporation India Limited, Bengaluru. Dr.A.S.Muthanantha Murugavel, Asso. Prof. /IT and Ms.S.Ponni@Sathya, AP/IT acted as organizing secretaries for the workshop. There were 26 external participants and 12 internal participants participated in the workshop. The workshop was inaugurated by Dr. S.Ramakrishnan, Prof. and Head/ IT

Conclusion: The workshop provided valuable inputs for participants to learn about Machine learning algorithms and its applications in industry perspective. All the participants actively involved in the hands on training with enthusiasm. All the sessions went in an interactive manner which made participants to gain knowledge and also to clarify their doubts. The workshop ended with a vote of thanks by Ms.S.Nithya, AP(SS) / IT.

Evaluation / benefits to the students:

- Internal faculty participants shared their knowledge with our students.
- Students will be able to apply the knowledge gained through the workshop to use machine learning algorithms for real world applications

Total income generated through

Registration Fee : Rs. 15,600/-

Total expenses incurred : Rs. 14,353/-

Management contribution : Nil

Venue : Cloud Computing Lab

Date & Time : 13th & 14th September 2019 & 9.00 A.M – 4.30 P.M



Report of Data Science Using Python Workshop

InfoBee-An IT Technical Association always aims in empowering students to help them learn new and innovative technologies which would scale their career. In the view of this motto, we organized one day workshop on “Data Science Using Python”.

Student's registration was done through google forms, and we got huge response from the students which made us split the sessions and make them attend the interesting workshop. There were 33 students from various reputed colleges of Tamil Nadu and 19 students from Dr.Mahalingam College of Engineering and Technology of various departments had participated in the workshop.

Four Faculty members, Mr.K.Balasamy(AP), Mr.N.PraveenSundra Kumar(AP), Ms.A.G.Priya Varshini(AP) and Mr. N.Krishnaraj(AP) from our department conducted the workshop, these four faculty members were well trained in developing projects on Data Science Using Python.

The session started by 9.00AM and students were introduced to the basics of python and the basic tools available in data science. Later on the students were trained on various data science packages such as Numpy, Pandas, Matplotlib and Scipy using which the functionalities are developed for the applications in the Data Science. Then the students were given hands on training on various packages of Data Science Using Python.

The workshop was an igniting point for the data science career of those students who attended the workshop.

Date: 26.09.2019 Venue:VP & OSS Lab(C317,C318)

Timings: 09.00AM-4.00PM No. of Participants: 52 Students



**Participation of Inter and Intra Collegiate
Competition / Events by the Students**

SRiSHTi 2k19-Gavel

PSG college of Technology

Date : 29.09.19

Branch and Department : II - IT

No.of.participants : 4

Technofete'19-Tech Hunt

MCET

Date : 26.09.2019

Branch and Department : II - IT

No.of.participants : 7

Technofete'19
Code-o-fiesta,50-50 coding
MCET

Date : 25.09.2019

Branch and Department : II-IT

No.of.Participants : 9

Cryosat'19
Master mind,code crackers,Google Rush
Nandha college of Technology

Date : 14.09.2019

Branch and Department : III-IT

No.of.Participants : 3

Technofete'19-Code o holics

MCET

Date : 25.09.2019

Branch and Department : II-IT

No.of.Participants : 34

C.M.Ezhilarasan (18BIT061)



Technofete'19

Code O Holic,Code O Fiesta

MCET

Date : 25.09.2019

Branch and Department : II & III-IT

No.of.Participants : 20

Technofete'19
Code O holics,Techhunt

MCET

**Date : 25.09.2019 &
26.09.2019**

Branch and Department : II-IT

No.of.Participants : 4

Technofete'19-
Techhunt,Code O holics,Code O fiesta

MCET

**Date : 25.09.2019 &
26.09.2019**

Branch and Department : II-IT

No.of.Participants : 3

ECHO 2K19

Code Mania, C hunt

Coimbatore Institute of Technology

Date : 13.09.2019

Branch and Department : III-IT

No.of.Participants : 10

TEKSPRK'19

Techno buzz,Debug your soul

Karpagam Institute of Technology

Date : 07.09.2019

Branch and Department : III-IT

No.of.Participants : 2

Hemarithika S(17BIT041)

Techno buzz



Nandhini K(17BIT017)

Debug your soul



Technofete'19-Hackathon

MCET

**Date : 25.09.2019 &
26.09.2019**

Branch and Department : III-IT

No.of.participants : 6

Tharhana N D (17BIT091)





Training & Placement

Industry-Institute Interaction Activities

ZOHO Corporation Pvt. Ltd., Chennai



Name : Revathi K (16BIT079)

Date : 02-09-2019 to 27-09-2019

Name : Nishali Singanallur Babu (16BIT042)

Date : 02-09-2019 to 20-09-2019

Name : Palsamy M (16BIT098)

Date : 09-09-2019 to 30-11-2019

Name : Barath R (16BIT060)

Date : 20-11-2019 to 30-11-2019

Name : B Prakash (16BIT098)

Date : 20-11-2019 to 30-11-2019

Name : Princy.R (16BIT011)

Date : 20-11-2019 to 30-11-2019

VVDN Technologies Pvt. Ltd., Pollachi



Name : Abhiramkumaar A (16BIT019)

Date : 18-11-2019 to 30-11-2019

Name : Mohanraj R (16BIT051)

Date : 18-11-2019 to 30-11-2019

Name : Srinath A (16BIT059)

Date : 18-11-2019 to 30-11-2019

Gain Insights Solutions Pvt. Ltd., Bangalore



Name : Sarmila D (16BIT048)

Date : 26-08-2019 to 30-09-2019

1024X Innovations(Servitor) Pvt. Ltd., Bangalore



Name : Mohan C (16BIT046)

Date : 01-09-2019 to 30-09-2019

Examly Inc., Bangalore



Name : Juhi Lesna M (16BIT004)

Date : 03-09-2019 to 30-09-2019

Placement Details

VVDN Technologies Pvt. Ltd.



Total No. of Students placed : 3

ZOHO Corporation Pvt. Ltd.



Total No. of Students placed : 1 + 8*
(*) Internship based placement

KAAR Technologies Pvt. Ltd.



Total No. of Students placed : 3

Ameex Technologies Pvt. Ltd.



Total No of students placed : 5

Cognizant Technology Solutions Pvt. Ltd.



Cognizant

Total No of students placed : 4

Sanmina Corporation



S A N M I N A

Total No of students placed : 1

Kaladi Consulting Pvt. Ltd.



Total No. of Students placed : 5

Sopra Steria Pvt. Ltd.



Total No. of Students placed : 1

Vuram Technology Solutions Pvt. Ltd.



Total No. of Students placed : 2

GainInsights Solutions Pvt. Ltd.



Total No. of Students placed : 1

1024X Innovations(Servitor) Pvt. Ltd.



Total No. of Students placed : 1

Examly Pvt. Ltd.



Total No of students placed : 1

Infosys Ltd.



Total No of students placed : 2

NTT DATA Global Delivery Services Pvt. Ltd



Total No of students placed : 12

IBM Pvt. Ltd.



Total No of students placed : 2

Value Labs Pvt. Ltd.



Total No of students placed : 2

Coding Mart Pvt. Ltd.



Total No of students placed : 1

Tata Consultancy Services Ltd.



CONSULTANCY SERVICES

Total No of students placed : 11

Solartis Technology Services Pvt. Ltd.



Total No of students placed : 5



THE INDUSTRIAL VISIT

BSNL, Coimbatore



BSNL

Connecting India

Class : IT-A (2nd Year)

Total No. of Students Visited : 46

Date : 10.10.2019

Class : IT-B (2nd Year)

Total No of students visited : 50

Date : 11.10.2019

SACL, Tiruppur



**Sakthi
Auto Component
Limited**

Class : IT-A (3rd Year)

Total No of students visited : 46

Date : 12.10.2019

**Extra-Curricular /
Co-curricular Activities :**

Physical Education Activities

Student Name : Viswateja N (17BIT019)

Year & Department : III - IT

Event : Zone 10(Kabadi)

Awards / Medals : Dhanalakshmi college of Engineering

Date : 25.09.19



Student Name : NavinKarthick M (17BIT093)

Year & Department : III - IT

Event : Basket Ball Zonals

Awards / Medals : Hindustan College

Date : 20.09.19 & 21.09.19



STAFF ACTIVITY

Workshop

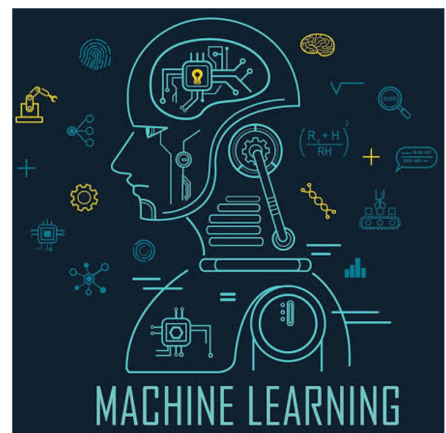
Seminar

Book Publishing

Paper Publishing



Ms.S.Soundariya, AP



Technofete'19
"CODE O' FIESTA"

Date : 25.09.2019

Co-ordinator /
Co-coordinator with Designation

Mr.K.Balasamy, AP

Mr.N.Praveen Sundra kumar, AP

Ms.A.G.Priya Varshini, AP



Technofete'19
"CODE O'HOLICS"

Date : 25.09.2019

Co-ordinator /
Co-coordinator with Designation

Mr.K.Balasamy, AP

Mr.N.Praveen Sundra kumar, AP

Ms.A.G.Priya Varshini, AP



Technofete'19-HACKATHON

Date : 25.09.2019

**Co-ordinator /
Co-coordinator with Designation**

Mr.K.Balasamy, AP

Mr.N.Praveen Sundra kumar, AP

Ms.A.G.Priya Varshini, AP



LECTURES

TOPIC : QUALITY ASPECTS

CONDUCTED BY : IQAC

VENUE : HALL NO.1, NPTC, POLLACHI

DATE : 21.9.2019

NAME OF THE FACULTY WITH DESIGNATION :

MS.D.JANANI, AP

MS.S.SOUNDARIYA, AP



**Topic : Workshop on Augmented Reality
and IoT conducted**

Department : CSE

Venue : Lab1, Dept. of CSE, MCET

Date : 21.9.2019

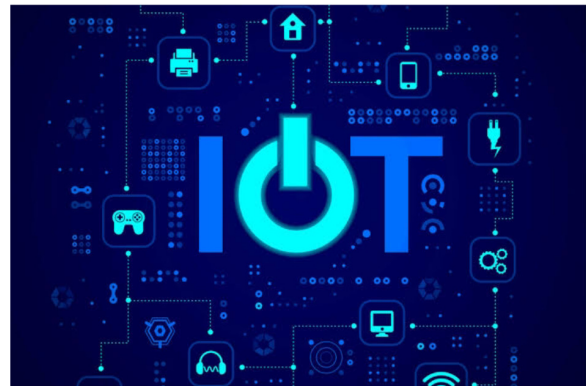
Name of the Faculty with Designation :

Mr. N. Krishnaraj, AP

Mr. J. Dhyaneswaran, AP

Mr. N. Praveen Sundra Kumar, AP

Mr. S. Sasidharan, AP



Technofete'19-Workshop on "Data Science Using Python"

Date : 26.09.2019

**Co-ordinator / Co-coordinator with
Designation**

Mr.K.Balasamy, AP

Mr.N.Praveen Sundra kumar, AP

Ms.A.G.Priya Varshini, AP





Books / Monographs Published



Author :
Dr.S.Ramakrishnan, Prof. & Head

Publisher : Intech Open Publisher

Published Month : September 2019

**Book name : Digital Image and Video Watermarking
and Steganography**

**Volume. / No. / Printed pages : DOI: 10.5772/
intechopen.84984**



Title Of The Paper :

Analysis of flight delays in aviation system using different classification algorithms and feature selection methods

Title Of The Journal :

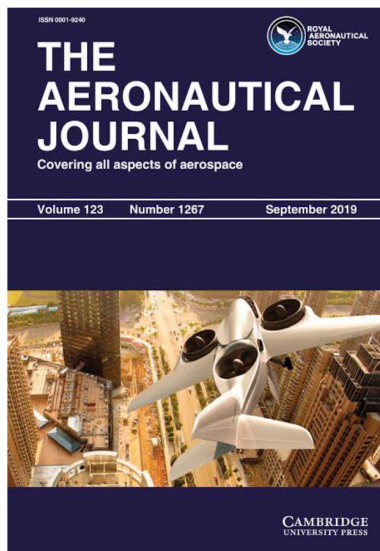
The Aeronautical Journal

Date : September 2019

Name of the author :

A.B.Arockia Christopher, AP(SG)

A.B.Antony Anderson



Title Of The Paper :

Detection of spectrum hole from n-number of primary users using machine learning algorithms

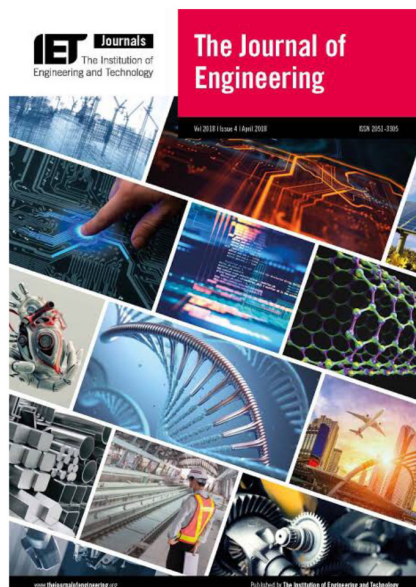
Title Of The Journal :

IET- The Journal of Engineering

Date : October 2019

Name of the author :

**Dr.S.Ramakrishnan, Prof. & Head
Venkdes h kumar U**





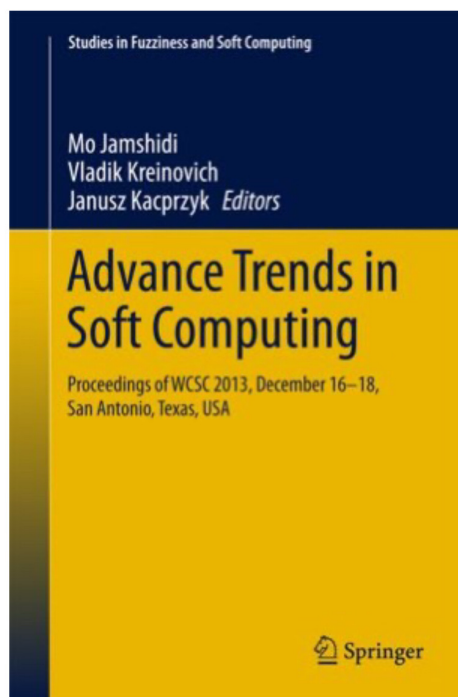
Research And Development

Research And Development



Mr.N.Krishnaraj, AP/IT

**Handled the review process of a paper in the
journal of Soft Computing published by
Springer**



ARTICLE

Agriculture Using IT

Overview :

Today, information system is being widely incorporated with agriculture. Information technology always had the potential to increase the quality of farming and farming products, but it demands efficiency and information in every area of agriculture. The world Trade Organization has recently made a laudable effort in promoting the information technology as an integral part of farming sector around the world. Information Technology (IT) has a substantial role to play in all facets of Indian agriculture.

Those personnel who work for the welfare of Indian farmers such as extension workers, do not have access to the latest agricultural practices which hinders their ability to serve the farming community effectively. This manuscript focuses on the opportunity for people living in the e-powering India, as well as those peoples who work for their welfare. Latest developments and changing patterns of IT in rural India facilitate the effective penetration of IT for information requirements.

Introduction :

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Role Of Agriculture in IT :

The role of Information technology in agricultural sector is becoming more visible. We use IT to convey and spread information to people on matters relevant to crop production and crop protection. Promulgation of information alone can't sustain growth in agriculture; agricultural industry must have the ability to manipulate that information to make informed decisions. I.e. in the agriculture context, decisions which will have a positive impact on related activities are being made. Modern farming practices like satellite farming has already started getting popularity in other countries like America,germany,italy,etc. This precision farming uses IT to make direct contribution to maximize the crops productivity. Satellite technology, geographic information systems, remote sensing and soil science etc. can be used to increase agricultural production especially in large tracts of land where this approach is cost effective and useful.

However in Indian context , the potential of IT in farming sector seems unexploited. Lack of awareness about the technologies is a major constraint. Studies shows that the use of modern technologies is capable of making remarkable hike in agricultural production.

Needs :

***Decision Support System (DSS) For Farmers**

Farmers Should Be Cautious In Decision Making Which Help Them To Avoid Impending Risks. Harvesting Costs Effective Farming Methods And The Availability Of Data Inputs Against Imports Will Facilitate The Assessment Of The Market Value Of The Indigenous Products. Analyzing These Kind Of Data Will Help The Farmers To Make Necessary Steps And Corrective Measures To Face The Market Situations.

***Market Monitor**

Fluctuations In The International Market Will Directly Affect The Markets Too, So It Is Necessary To Be Sharp-Eyed To Defend External Shocks. The Market Watch Is That Important. Advance Warning Systems Should Be Developed Which Would Help Farmers To Make Last Minute Decision Changes To Avoid Huge Loss. Although Periodic Analytical Reports Are Needed To Enhance The Warnings.

***Opportunities :**

Indian Farmers Should Grab The Opportunities. They Should Equip Their Business With Every Possible Technologies To Cop Up With The Business. The Whole Agricultural Sector Is In The Growth Of An Impending Revolution.

***IT and Agriculture in Future :**

As mentioned earlier it is possible to develop effective software systems using information technology to meet the needs of the Indian farmer. The availability of these kind of technologies can be ensured through efficacious internet tools and smart networks. For fulfilling the task the accumulation of the full spectrum of application packages and databases are imperative. Agriculture is an agglomeration of lot of tiny areas, an ocean of information inputs are necessary; amalgamating all these information is a strenuous task. So the practical option is to create technological solution for individual needs. It is recommended to frame the design of the system only after perusing the task, we have to step out from the traditional method of creating the system first before inputs to get practical results. A complete system is only possible after documenting the entire data to a single platform.

However many organizations have already developed systems globally that provide results in their area of specialization and it may be useful to get these programs in India from outsourcing software companies which will give a boost to India's software industry and will facilitate the rapid deployment of applications. In order to avoid duplication of efforts and for evolving a comprehensive design, a standard interface for monitoring progress could be useful by promoting a coordinating agency which will have an advisory role to play in the post WTO regime. It is an undeniable competitive advantage for the export of some agricultural products to maintain focus on the more useful side.

India has made rapid progress in state of the art technology where to make a call for an action, plans can be laid out using remote sensing, geographic information systems (GIS), bioengineering, satellite technology etc. Using remote sensing and GIS applications effective agricultural exhibition is possible to keep an eye on. Crop stress, soil problems, challenges, natural disasters etc. can be effectively tackled using this technology.

***Implementation :**

The IT mission itself got an edge over other awareness programs. The advanced subsidiary accessories which comes with the computer made it easier for a layman to communicate with the information systems. Agricultural extension service can be carried out by employees in outdoor and remote areas using the lightweight, portable data projectors which will fetch a wide audience. Similarly loud speakers can be connected to the computer and incorporated for voice-based training. Significant processing of data on the client side based on the increased processing speed of computers makes it possible for the widespread distribution of information.

Computers with greater memory capacity is common now it has enhanced the document storing process. It enables quick storage and access of information at the local level. Similarly, high capacity portable drives that can be connected to any kind of devices makes possible the transfer of large volumes of information from locations to locations.

Softwares with regard to the various operating systems are available which act as an interface between the user and the machine. Graphical user interface (GUI) has become a prerequisite for end users is widely accepted. Office automation packages, groupware applications, complex DB solutions for storing data and information, communication products, solutions based on remote sensing and geographic information systems for the shelf solutions are also available. Developed at an affordable price had become a downward trend in the industry . Rapid Application Development and Deployment (Radd) is a popular model for rapid development and deployment of applications. Project management and monitoring software is necessary for rural India to facilitate efficient implementation.

The ability of a modem to convert data from digital to analog and vice versa is employed popularly and has increased . Other networking devices like routers has the ability to make it easy and possible for large networks with data transmission.

The data transfer process has undergone a radical transformation, even though the main issues of reliability and low bandwidth telephone lines are yet still popular in India. High-capacity cables, optical fiber, radio, wireless local loops, satellite broadcasting or a combination of these different solutions are already in use in many parts of the country.

Uninterrupted Power Supply (UPS) devices ensures longevity of IT equipment and is crucial to provide backup methods. The country need to exploit the potential of solar power in rural areas to provide a possible solution to the shortage of power.

***Conclusion :**

By combining and analyzing the previous findings together, it is possible to make a complete and efficient IT platform for agricultural sector. Farmers and IT professionals together could contribute to the development of user friendly systems which uses local languages. Growth of Agriculture will be high when we implement IT in Field .



Chief-Editor



Dr.S.Ramakrishnan

**Editor &
Coordinator**



Dr.A.B.Arockia Christopher

**Co-Editor &
Coordinator**



Dr.M.Balakrishnan

DESIGNER



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