

Criteria 3- Research, Innovations and Extension

3.3- Research Publications and Awards

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year.

Sr. No	Description	Page No
1	Publications	1-9




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measurement, and upgrading the software process itself. This paper present comparative study of various process models in software development based on various parameters; also listed various factors for choosing partial software model in the world of software development.

Waterfall Model:-The waterfall model is the classical model of software engineering. This model is one of the oldest models and is widely used in government projects and in many major companies. As this model emphasizes planning in early stages, it ensures design flaws before they develop. In addition, its intensive document and planning make it work well for projects in which quality control is a major

V-Shaped Model:- It work same as waterfall model, the V-Shaped life cycle is a chronological lane of implementation of processes. Each phase is compulsory to complete before the next phase begins.

Incremental Model:- It Combines elements of the waterfall model applied in an iterative fashion each linear sequence produces deliverable "increments" of the software.

Spiral Model:- The spiral model is same as to the incremental model, with more highlighting on risk analysis. The model divided in four phases: Planning, Risk Analysis, Engineering and Evaluation

Rad Model:- Its Rapid Application Development model. One type of incremental model. In this model the components or functions are developed in parallel as if they were mini projects. The development are time boxed, delivered and then bring together into a working prototype

Extreme Programming:- An approach to development, based on the development and delivery of very small increments of functionality. It relies on constant code improvement, user involvement in the development team and pair wise programming.

Agile Model:- Agile development is one kind of iterative and Incremental development model. Where Software is developed in incrementally, rapid cycles.

XP and Agile principles:-1. Incremental development is supported through small, frequent system releases.

Keywords: Introduction of Process Model, Comparative Study of Process Model with Different parameter, factors affecting to Choose Process Model.

IC-NAIASD-2023/358

ROLE OF IT SERVICES IN AGRICULTURE IN THE PERIOD OF COVIC-19 PANDEMIC

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Abstract - The rise and spread of the coronavirus pandemic (COVID-19) has created an imbalance in all sectors massively disrupting the economy. Social distancing, quarantine regulations, and strict travel restrictions have led to restrictions on movement of agriculture produce. The agriculture sector was completely exposed. The initiation of a nationwide lockdown by the government resulted in the shutdown of industries globally impacting the overall supply chain from farmer to consumer. The need of the hour is to propose effective solutions which can serve the dual purpose of market growth as well as customer satisfaction. This paper reviews the impact of COVID-19 on the agriculture system and its economy stressing critical factors like food production, demand, price hikes, security, and supply chain resilience. Possible advancements like the use of digital tools, mainly artificial intelligence, machine learning, deep learning, and block-chain technology, in the agriculture sector have been discussed as they could be a promising tool to develop a self-reliant society. This work would be a perfect platform to understand the impact of the pandemic as well as supporting cost-effective solutions for a green ecosystem.

Keywords: Covid, Agriculture Production, Supply Chain, Farmer, Digital Tools, Green Ecosystem.



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INTERNATIONAL MULTIDISCIPLINARY CONFERENCE "Need of Anthropogenic Intervention in Achieving Sustainable Development" (IC-NAIASD-2023) 17 July 2023

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links' optical spectra. Two heuristic algorithms are designed: LaLRCLaSP, which achieves better blocking performance than LRC-LaSP and an existing benchmark algorithm, and consecutiveness-aware LRC-K shortest-path-first fit (CaLRC-KSP-FF), which reduces the request blocking probability significantly. Simulation results show that layered local resource capacity (LaLRC)-LaSP achieves better blocking performance than LRC-LaSP and an existing benchmark algorithm. The paper also proposes a LRC metric that considers the spectrum consecutiveness of substrate fiber links, resulting in a novel heuristic for opaque VONE.

Keywords: Optical Fiber Networks, Substrates, Bandwidth, Algorithm Design And Analysis, Topology.

IC-ICMRP-2023/C-291

SOFTWARE PROCESS MODELS AND ANALYSIS ON FAILURE OF SOFTWARE DEVELOPMENT PROJECTS

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Abstract: A software process model is a set of activities performed to design, develop and maintain software system. Various software process models have been developed to structure, describe and specify software development process. Software process models play a very important role in software development and therefore form the core of software development. Software Products. The failure of a software project is often devastating to a company. Progress meters, bug releases, etc. Missing features can mean the end of a project or even the financial ruin of a company. Strangely, there is disagreement about what it is. It means the project failed. This article discusses current process models and software failure analysis developments, indicating the need for new research. Many software development models are described in software engineering, which describes the states through which software evolves. The lifecycle focuses on the product, defining the state through which a product passes from when it starts to be built to when software enters into operations and finally retires. A software process model is an abstract representation of the architecture, design or definition of the software process. In software development, process models are implemented to manage various concerns associated with cost, time, and quality and changing requirements of client's etc. The particular life cycle model can significantly affect various concerns associated with a software product. If the process is weak, the end product certainly will suffer. Enough effort has been done in this field; the ever changing requirement during the development process for large software development is still not managed by software process models, which results in software projects not meeting their expectation in terms of functionality, cost and delivery schedule. The reason for failure can be project team, suppliers, customers and other stakeholders, but the most common reasons for project failure are rooted in the project management process itself and the aligning of IT with organizational cultures.

Keywords: Bug, Failure, Process Model.

IC-ICMRP-2023/C-292

ROLE OF IT SOLUTIONS TO EMPOWER THE RURAL PEOPLE OF INDIA

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Abstract: The agriculture sector plays a vital role in strengthening the Indian economy. , its relevance cannot be ignored. In addition to helping farmers become more efficient and productive in agriculture and related activities, the potential of information technology lies in improving overall quality of life by providing timely, high-quality information input for decision-making. Information technology-enabled services can also be effectively used to strengthen the supply chain of agricultural companies, thereby enabling farmers to achieve better prices. The Department is undertaking a number of information technology-based efforts, many of which are ongoing, to demonstrate the tangible benefits of information technology to rural populations. This article attempts to discuss the various IT-based

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IC-VITS/RFI-2023/208

COMPATIBLE ICT FARMING SYSTEMS TO ENABLE FARMERS TO PROCESS THEIR OWN DATA

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Abstract: Various ICT initiatives dedicated to agriculture in India have primarily focused on the larger-scale farming population, ignoring the specifics of individual farms and agricultural endeavors. Literature review, sampling of initiatives dedicated to ICT in Agriculture and our understanding of existing agricultural information systems showed that the majority of the ICT implemented on farms were general in nature and primarily facilitated information transmission to farmers instead of allowing for a reciprocal exchange of information. Only a handful of personalized and situated MISs for day-to-day farm management were available. Other than the commonality of their design and use, there are still issues to be addressed due to the overly-generalized nature of the system designer's and developer conceptualization of the ICT device. With the intention of determining if a more contextually-based Agricultural Information System for farming was more effective than a general purpose system, we studied the current state. Other than the exhibited creation of the developed artefact, this paper presents the research results that demonstrated that there is still a necessity for compatible ICT agricultural systems that allow farmers to process their own data in a bidirectional manner and having the ability to create and utilize their own data. As such, it was observed that there is still a lot of space for agricultural digitization, especially if the context is considered.

Keywords: Information Systems, ICT, agriculture, agriculture digitization

IC-VITS/RFI-2023/209

THE OLD MAN AND HIS GOD: DISCOVERING THE SPIRIT OF INDIA

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Abstract: "The Old Man and His God" by Sudha Murty is a poignant novel that delves into the heart of India's spiritual essence. Set against the backdrop of rural India, the novel chronicles the life of an elderly couple navigating the trials and tribulations of poverty with unwavering faith and humility. Through their journey, Sudha Murty eloquently portrays the resilience and grace of ordinary Indians, revealing the profound wisdom embedded in their simple way of life. The novel serves as a captivating exploration of the enduring spirit of India, encapsulating themes of gratitude, contentment, and spiritual fortitude. Sudha Murty's narrative transcends geographical boundaries, offering readers a glimpse into the soul of India and inspiring them to embrace life's challenges with courage and serenity. Now days when one is not satisfied even after possessing many houses, vehicles, jewellery and bank balance. This time it is very necessary to learn satisfaction. One must understand his

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IC-IESP-MULTI-2023/619

THE EFFECTS OF COVID 19 ON DAIRY FARMING

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Abstract - The pandemic known as COVID-19 has had a significant and diverse impact on dairy farming globally. These effects were influenced by factors like the disruption of supply chains, shifts in consumer behavior, and government actions. Lockdowns and social distancing led to the stoppage of dairy plant operations. This, in turn, affected the production and distribution of dairy products. Restrictions on movement and transportation posed problems for the timely delivery of raw milk from farms to processing facilities and the distribution of finished products to consumers. The closure of restaurants, coffee shops, and other food establishments led to a decrease in demand for specific dairy products, such as cheese and butter, which are commonly used in these locations. Conversely, the amount of retail purchases of dairy products increased during the pandemic. Dairy farms had problems with shortages of labor due to disease, quarantines, migration of labor, or limitations on the movement of labor. This altered the way daily operations on the farm were conducted, including milking and caring for animals.

Occasionally, extra milk was needed to be discarded or left as a byproduct of the processing of the plant. This prompted concerns about waste and the ethical behavior of animals. Some dairy farmers attempted to diversify in order to adapt to market uncertainties. This may involve changing the product line or exploring new markets. The pandemic's experience led to discussions about the necessity of increased resilience in the dairy supply chain. This involves attempting to make the sector more resilient to future disasters.

Keywords: COVID, lockdown, dairy products, transportation, milk, market, pandemic.




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**“STRATEGIC BUSINESS PLANNING PRACTICES IN THE PHARMACEUTICAL FIRMS,
WITH REFERENCE PUNE DISTRICT”**

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ABSTRACT:

It was observed and proved by many researchers that the non-professional approach and inaccurate Management practices is the basic reason for the low profitability of the Pharmaceutical Industry. Hence it was highly relevant to understand the existing practices and develop new Management practices for these kinds of Pharmaceutical Industry.

There are essential elements of business planning practices for long term business success. But many small and medium sized pharmaceutical organizations have not started any training to employees about business planning practices. In many cases, business development process initiated by owner's passion Pharmaceutical organizations running in profit may not be in the owner's initial plans. In other cases, owners are unable to develop good business practices due to routine work pressure. The main object of this research paper is to make guide available for easy to use of management practices in these pharmaceutical organizations.

The present study also look at the business Management practices with reference to the above elements in the selected Firms in Pharmaceutical Industry. The research also focuses on the existing practices and the probable changes in these practices as it had an effect on the overall profitability of the Pharmaceutical Industry. In my research, pharmaceutical firms evaluate processes and outcomes for using Strategies and Business Planning Practices. This paper describes the changing marketing planning practices and strategy for a pharmaceutical business from acute to chronic therapy.

KEYWORDS: Management Practice, Business Practices, Strategic Management, Management Process.

INTRODUCTION:

Indian pharmaceutical industry is ranked the third in the world in terms of volume, and it also stood at 14th in world in terms of value. Out of world's pharmaceutical production Indian pharmaceutical industry have share of around 8%. Indian pharmaceutical industry has ranked very higher in the use of advanced technology, quality and wide range of medicines manufactured. This industry satisfies 70% demand of domestic market for bulk medicines like bulk drugs, intermediaries, pharmaceutical formulations, chemicals, tablets, capsules, orals and injectable.

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2. Changing Global Scenario: A Study on Microfinance in India through Women Empowerment

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Abstract

Sustainable development depends on an equitable distribution of resources for today and for the future. It cannot be achieved without gender equality. Women's empowerment is a key factor for achieving sustainable economic growth, social development and environmental sustainability.

Microfinance sector has traversed a long journey from micro savings to micro credit and then to micro enterprises and now entered the field of micro insurance, micro remittance and micro pension. This gradual and evolutionary growth process has given a great opportunity to the rural poor in India to attain reasonable economic, social and cultural empowerment, leading to better living standard and quality of life for participating households. Financial institutions in the country continued to play a leading role in the microfinance programme for nearly two decades now. During the current year too, microfinance has registered an impressive expansion at the grass root level. This paper aims to provide a snapshot of the progress in the microfinance sector since 2006-2011. Most of the banks participating in the process of microfinance have reported the progress made under the programme. The various parameters are taken for analyzing the financial performance of MFIs and banks. The data presented in this paper covers information relating to savings of Self Help Groups (SHGs) with banks from 2006-07 to 2010-11, loans disbursed by banks to SHGs during the year 2006-07 to 2010-11, loans outstanding of the banking system against the SHGs. Based on these data and information, this paper attempts an assessment of progress on varied dimensions of the microfinance sector.

Keywords: Microfinance, MFIs, SHG, SGSY, NPA.




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GREEN BANKING IN INDIA: A STUDY FOR SUSTAINABLE DEVELOPMENT.

Abstract:

The global warming is becoming the national as well as international problem; it hampers on destroying the natural resources. For the controlling of global warming problem there should be focus on green and ecofriendly initiatives by all. Banking sector is generally considered as environmental friendly sector in terms of the pollutions and emissions. The Indian banking business is one of the largest banking business in the world which caters to the needs of different strata of society. The development of economy in all sector have the very bad impact on environment. Until the end of twentieth century, green was just the color of money for banks in India. With the introduction of Automated Teller Machines (ATMs) in 2001 in the banking sector of India, banking sector took initiative towards an environment-friendly banking system. Green banking means combining operational improvements, technology and changing client habits in banking business. There is need to banks should go for green and play a pro-active role to care environmental and ecological aspects as part of their lending principle, which would force industries to go for mandated investment for environmental management. Thereafter, many initiatives were undertaken viz. use of eco-friendly papers, solar-powered ATMs, green projects, energy efficiency practices, workplace health and safety, organizing awareness campaigns, online banking systems, etc. This paper deals with the green initiatives and developments took place in the banking sector in India and sites international developments. It sites opportunities for banks in areas like carbon credit business, green financial products, core banking solutions, integrated IT environment, etc. that can lead to development in green area and overall environment. The Role of the Reserve Bank of India in formulation of policies on green banking has been focused upon for green growth.

Keywords:

Green initiatives, core banking solution, sustainable development, ecological balance, tech-world, thumb economy, green growth, etc.

JEL Classification: A10




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