ROLE OF ACADEMIC-DRIVEN STARTUPS IN ECOMOMY

Edited By

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Proceeding of
शिक्षा कुंभ 2023

Department of Holistic Education

Proceeding of

शिक्षा कुंभ 2023

THEME

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Department of Holistic Education

The Department of Holistic Education is the brainchild of Dr. Thakur SKR who is a distinguished scientist of ISRO, a dedicated social worker and an accomplished author. The foundation of DHE is based on the ideology that the level of education should not be gauged by academic scores alone. Rather, in true essence, education should aim at holistic development of children and should be multi-disciplinary focusing on skill development, physical fitness, emotional well-being and development of strong ethics in students. Holistic education will transform young minds into not only professionally skilled adults but also responsible individuals who are an asset for the nation.

Keeping pace with the technology driven world, there is an imperative need for integration of technology with value-based education. Considering the present lacunae and the dynamically evolving landscape of education, the structure of DHE has been designed to effectively bridge the gaps in present education system to make it more effective. At present, DHE has 25 dedicated cells- IT Cell, Industry Coordination Cell, Learning Management System Cell, CSR Cell, R&D Cell, Entrepreneurship Cell, Foreign Language Cell, Atal Tinkering Labs, Environment Cell, Sports Cell, etc., catering to various aspects of education system with dedicated coordinators to lead these cells. Exhaustive research and development are carried out prior to running pilot projects and implementing them in schools and society.

Since inception, the Department has multiple revolutionary projects- E-cycle, Super 100, Tredul App, Sarvatr App, Swadeshi Bazaar App, TUDU App, Jobs360° App, Holistic Harbor App, Pooja Wala App, Surbhi Diye, Surbhi Piggy Bag, Surbhi Flowerpot, etc. to its credit. The department has successfully organised mass outreach events such as Shiksha Mahakumbh at NIT Jalandhar and Shiksha Kumbh at NIT Kurukshetra in the year 2023 which were attended by dignitaries and stakeholders from all fields – viz politics, bureaucracy, educational stalwarts, corporate houses, media and speakers from all domains. DHE has also launched its quarterly journal "Viksit India" which offers

comprehensive coverage of a multitude of educational aspects, from school education to higher education, language pedagogy to technological advancements, child pedagogy to scientific research and explores the realms of ever-evolving domain of education. With the same vigour and enthusiasm, the Department is gearing up for organisation of Shiksha Kumbh at NIT Srinagar and Shiksha Mahakumbh at IIT Ropar in the year 2024 along with launch of various innovative projects- One child one-hour compulsory work per day, Recycling of cloths, paper & plastic, One school one product, international collaborations, etc., in the upcoming months.

Forward

Siksha Kumbh – 2023 stands as a commendable initiative undertaken by the Department of Holistic Education at Kurukshetra, bringing together academia, intelligentsia, educationists, policymakers, and various stakeholders in the education ecosystem. The event has been a significant success, uniting around one thousand participants from across the country, particularly from Haryana, to engage in discussions on recent advances in education against the backdrop of the National Education Policy (NEP) and National Curriculum Framework (NCF). This serves as a crucial catalyst for the correct implementation of the national education policy.

As an active participant, I had the opportunity to interact with numerous academicians and luminaries. Their wholehearted involvement throughout the three-day program was truly exceptional. I am optimistic that the commitment to perpetuate Siksha Kumbh as an annual event will materialize, fostering societal education and continued engagement in policy implementation.

I extend my congratulations to all the visionaries and missionaries who contributed to making this grand event a memorable one. May your recollection encapsulate the essence of all proceedings, deliberations, interactions, guidance, and panel discussions. My heartfelt appreciation goes to all the individuals who dedicated their efforts to this Maha Vidya Yajna. I also extend my greetings to the readers of the proceedings of the inaugural Shiksha Kumbh.

D. Ramakrishna Rao
President,Vidya Bharati

Forward

With immense pleasure and pride, I extend my warmest greetings to all participants of the Shiksha Kumbh and readers of its proceedings. This noteworthy initiative, presented in six comprehensive chapters, encapsulates the collective efforts, aspirations, and accomplishments of educators, institutions, and visionaries dedicated to transforming education in Bharat.

Education lies at the heart of our nation's progress, and initiatives like the Shiksha Kumbh serve as guiding lights, illuminating the path toward excellence. The varied topics covered in these chapters, ranging from media campaigns to the establishment of Centers for School Education Studies in Institutes of National Importance, underscore the diverse nature of education's challenges and opportunities.

This document not only mirrors the dedication and innovation of the educational community but also highlights the spirit of collaboration and unwavering commitment to enhancing society through education. As we explore the pages of this document, a profound understanding of the transformative potential of education unfolds.

I commend the organizers, contributors, and all involved in bringing this vision to life. May the insights and ideas shared within these chapters inspire and guide readers toward a brighter and more equitable future for education in Bharat.

Vijay Kumar Nadda
Organisational Secretary
Vidya Bharti (North Zone)

Editor's Message

Dear Esteemed Readers,

It brings me immense joy and enthusiasm to extend a warm welcome to the Shiksha Kumbh proceedings, a venture that encapsulates the essence of educational excellence, innovation, and collaborative efforts. This extensive document, spanning six chapters, stands as a testament to the dedication and foresight of educators and institutions actively shaping the future of education in Bharat.

Education, far beyond a mere means to an end, represents a journey of exploration, growth, and transformation. The chapters contained herein offer a diverse exploration of this journey, covering aspects from media campaigns disseminating educational initiatives to the establishment of a dedicated journal in the education field. Each chapter serves as a unique exploration of the challenges and opportunities inherent in the realm of education.

In my capacity as the Director of the Department of Holistic Education, where the concept of Shiksha Kumbh originated, I am profoundly inspired by the dedication and passion demonstrated by those involved in the Shiksha Kumbh and its subsequent initiatives. The idea of fostering collaborative efforts for societal betterment, such as the notion of couples working together, and the establishment of the Institute of Teacher Training, have emerged from this monumental movement.

I extend my heartfelt appreciation to all contributors, organizers, and participants who have contributed to the resounding success of this initiative. I encourage all readers to explore these chapters, as within them lie the keys to a more luminous and equitable future for education in Bharat.

May this document serve as a source of inspiration, information, and empowerment for all those committed to the noble cause of education.

Dr. Thakur SKR
Director
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Preface

The Shiksha Kumbh initiative stands as a unique endeavor globally, drawing inspiration from the cultural ethos of the ancient Kumbh traditions in Bharat. The inaugural edition concluded on a grand note, and an attempt is made to encapsulate the essence of this inaugural edition in a concise document known as the proceeding. Education, as the guiding light leading us toward progress and prosperity, takes center stage in these pages, showcasing how the Shiksha Kumbh is dedicated to amplifying this light more than ever. The entire proceeding is structured into seven insightful chapters.

The inaugural chapter initiates a comprehensive exploration, delving into the genesis of this grand event, the organizations instrumental in translating the idea into reality, the voluntary organizations contributing to societal transformation, and the support from the ministries of the Government of Bharat.

Chapter 2 unfolds the heart of the Shiksha Kumbh initiative – a campaign heralding a new era in educational excellence. Within these pages, we unravel the meticulous planning, dedication, and tireless efforts invested in spreading the message of holistic education far and wide. The campaign is more than a call to action; it is an invitation to collectively shape a brighter educational future.

Chapter 3 serves as a testament to the resilience and determination of the educational community, sharing stories of transformation from participants spanning schools, institutions, industry, and society. The Shiksha Kumbh is not merely about lofty ideals; it's about actionable change. This chapter celebrates educators and institutions making a tangible difference.

Chapter 4 takes us into the heart of the conference, exploring the wealth of knowledge, ideas, and solutions presented at the Shiksha Kumbh to address the pressing challenges in our education system. These contributions are the foundational blocks of a brighter educational landscape, shaping the future.

Chapter 5 shifts the spotlight to media and its role in amplifying the Shiksha Kumbh message. The diverse mediums, from posters to radio, electronic to print media, highlight the campaign's extensive reach. This chapter invites readers to journey through the media campaign igniting a passion for education.

Chapter 6 marks the culmination of our exploration into the Shiksha Kumbh initiatives. Reflecting on outcomes, achievements, and impact, this chapter underscores that the Shiksha Kumbh is not just an event; it's a catalyst for change. Readers are invited to measure the results and envision a future where education continues to be a force for good.

Each chapter contributes to the narrative of educational transformation, forming a cohesive story of dedication, innovation, and unwavering commitment to the betterment of education in our society. Readers are encouraged to join this enlightening journey through the pages ahead.

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CHAPTER 1
Introduction

1.1. Shiksha Kumbh

Shiksha Kumbh is the brainchild of Dr. Thakur SKR, a prominent ISRO scientist and staunch RSS worker, which took shape under the able guidance of Mr. Vijay Kumar Nadda, a visionary and forward-looking RSS Pracharak and Organising Secretary of Vidya Bharti (North Zone).

The first Shiksha Kumbh was organized by the Department of Holistic Education, a think tank of Vidya Bharati in collaboration with NIT Kurukshetra. Shri Krishna Ayush University and Hindu Shiksha Samiti of Haryana were partners in organizing this event. This Shiksha Kumbh was on the topic of impact of startups started by students in educational institutions on the country's economy. It was inaugurated by the blessings of His Excellency Governor of Haryana Mr. Bandaru Dattatrey. The conference was held on December20, 2023 at the esteemed premises of NIT Kurukshetra.

1.2. Objectives

"Role of Academic-driven Startups in Economy" is to explore and discuss the crucial role that academic-driven startups play in contributing to the economy. This includes examining how educational institutions, particularly technical and technology-focused institutions, can foster a culture of entrepreneurship and innovation, thereby helping students and society at large to benefit from startup ventures.

The main objectives of the conference include

- **Highlighting the importance of academic-driven startups:** Showcasing the impact that startups originating from academic institutions can have on the economy, job creation, and innovation.
- **Fostering collaboration:** Encouraging collaboration between educational institutions, government bodies, and industry to create a conducive ecosystem for startups.
- **Promoting skill development:** Discussing the relevance of skill education tailored to meet the demands of the modern economy and how academic-driven startups can facilitate this.
- **Exploring incubation support:** Evaluating the role of incubation centers in nurturing and shaping academic-driven startups.
- **Expanding the reach:** Investigating how various educational institutions, including ITIs, schools, NITs, and others, can work together to support and nurture startups.
- **Rural development:** Exploring the potential for tech institutions to adopt villages and create a startup-friendly atmosphere in rural areas.
- **Cultivating a startup culture:** Delving into the introduction of startup culture at the school level to encourage entrepreneurship from an early age.

- **Infrastructure utilization:** Discussing how socially grown startups can leverage the infrastructure and resources of educational institutions.

1.3. Theme

Role of Academic-driven Startups in the Economy

1.4. Organizing Institutes

*Shiksha Kumbh*was an initiative of Department of Holistic Education in collaboration with NIT Kurukshetra. A brief description of these pioneer institutions ofKurukshetraHaryana is provided in subsequent sections.

1.4.1. Vidya Bharti

Vidya Bhartihas been providing quality education since 1952 and is committed to educate the young generation according to Bhartiya values and culture. Some committed and patriotic people, who considered education as an artifice to educate the young generation according to Bhartiya values and culture started the first school in Gorakhpur, UP, in 1952. They named this school as Saraswati Shishu Mandir-Temple of the Goddess Saraswati dedicated to the children. Thanks to their zeal, dedication, and hard work that similar schools began to be established in Indian states and within a few years, many schools were established. To manage the affairs, the formation of a national body came in 1977 and Vidya Bharti - Akhil Bharatiya Shiksha Sansthan was established with its registered office at Lucknow & functional headquarters in Delhi. Today, Vidya Bharti has more than 25000 schools all over the country. It is the largest Non- Government Organization in the world which provides the model of education. It organizes workshops, seminars, conferences, and capacity-building programmes to promote the standard of education as per the need of the times.

1.4.2. NIT Kurukshetra

NIT Kurukshetra is one of the premier technical institutes in the country. Founded in 1963 as Regional Engineering College Kurukshetra, the institute was rechristened as the National Institute of Technology Kurukshetra on June 26, 2002. The institute offers 4-year BTech degree courses in seven engineering streams, 2-year MTech degree courses in 22 areas of specialization of science & technology, and postgraduate courses leading to the degree in MBA and MCA. The infrastructure is geared to enable the institute to run out of technical personnel of high quality. In addition to providing knowledge in various disciplines of engineering and technology at the undergraduate and post-graduate levels, the institute is actively engaged in research activities in emerging areas including Nanotechnology, Ergonomics, Robotics, CAD/CAM, Energy and Environment. The placement record of the institute has been commendable and consistent due to strong vigor and commitment to generating talent.

1.4.3. Hindu Shiksha Samiti

Vidya Bharati Haryana is the provincial unit of Vidya Bharti All India Institute of Education. Hindu Shiksha Samiti, Kurukshetra, Haryana is carrying on the healthy tradition of taking direction from the aims and goals of Vidya Bharati and putting the concept of all-round development of the child into practical form through the Indian educational philosophy. The concept of development of a complete human being is never possible through the teaching process based on western psychology. Today the whole world is looking towards India and Indian education philosophy with hopeful eyes for the solution of all kinds of problems. In such a situation, for nation building and world brotherhood, India will have to recognize its roots and adjust its education accordingly. Keeping these challenges in mind, Bhagiratha's efforts started with the launch of 'Hindu Shiksha Samiti' in the field of education in 1946. At present, under Vidya Bharti Haryana, the urban schools of the state are being managed and managed by the Hindu Shiksha Samiti, while the schools running in Kurukshetra and rural areas are being managed by the Rural Education Development Committee, Haryana.

1.5. Supporting Institutes

1.5.1. Shri Krishna Ayush University Kurukshetra

Vision

Global acceptance of AYUSH system of medicine for creating a complete state of Physical, Mental, Social and Spiritual Wellbeing through the premier education provided to Under-Graduate & Post-Graduate leaders of the Nation and providing wealth of knowledge to the nation through research based on natural resources in the most natural way.

Mission

The University shall develop proficient, empathetic, optimistic, and cheerful expert by imparting well thought out quality edification, through erudite mentors and divulging them to the community for gaining insight of clinical appreciative incorporeal, senses, intuitive and spiritual domain, which shall be achieved by evidence-based multidisciplinary research and collaboration."

- To revitalize and strengthen the AYUSH systems making them as prominent medical streams in addressing the health care of the society.
- To provide Premier Education to upcoming leaders of the Nation.
- To enlighten the World with the AYUSH system of medicine by educating international students.
- To facilitate the newer dimensions of Research in the AYUSH system of medicine for Global acceptance.

- To distribute awareness amongst the citizens of the Nation about the positivity of the AYUSH system of medicine so that to make them the Stalwarts.
- To attain economic self-reliance by cost-effective methods through educational and such associated programs and resource generating services.

1.5.2. Kurukshetra University

The Kurukshetra University was established in 1956 as a unitary residential University and its foundation stone was laid by late Dr. Rajendra Prasad, the first President of India. Located in the holy city of Kurukshetra, land of the historical battle of 'Mahabharata' and the great message of Bhagwad Gita, its campus is situated on the western bank of Brahm Sarover (the holy tank) and extends over an area of over 400 acres. Starting with only the Department of Sanskrit, it has grown into a multi-faculty University as one of the premier centres for advanced study and research in the region.

1.5.3.Institute of Training and Research

A dynamic and progressive institution committed to empowering educators, fostering pedagogical innovation, and preparing teachers for excellence in their educational endeavors. VB Institute of Training and Research serves as a guiding light for educators, offering a comprehensive platform that blends advanced teaching methodologies with robust research practices. We are dedicated to shaping teachers who not only impart knowledge effectively but also inspire and guide students towards academic success and holistic development.

Vision

At the Institute of Training and Research, our vision is to be a catalyst for transformative learning and pioneering research. We strive to create an environment where knowledge is not only disseminated but actively generated, pushing the boundaries of what is possible in training and research.

Mission

Our mission is to cultivate a culture of lifelong learning and scholarly inquiry. We aim to empower individuals with the skills, knowledge, and critical thinking abilities needed to excel in their professional endeavors, all while contributing to the broader body of knowledge through impactful research initiatives.

1.6. Supporting Organisation

1.5.1. Bureau of Indian Standards

BIS is the National Standard Body of India established under the BIS Act 2016 for the harmonious development of the activities of standardization, marking and quality certification of goods and for matters connected therewith.BIS has been providing traceability and tangibility benefits to the national economy in a number of ways – providing safe reliable quality goods; minimizing health hazards to consumers; promoting exports and imports substitute; control over proliferation of varieties etc. through standardization, certification and testing.

1.5.2. Hayana Yog Aayog

Haryana Yog Aayog underwent a transformative shift, transitioning into an Aayog under the legislation of the State Government of Haryana, as per Notification Number 58-2021 dated April7, 2021. The newly enacted Act of Haryana Yog Aayog delineates the specific work domain and functions mandated for the promotion and propagation of Yoga and Naturopathy.

Under the provisions of the Act, Haryana Yog Aayog will comprise 5 official members and 11 non-official members, including the Chairman. The decisions and resolutions made in Aayog meetings will be authenticated by the Registrar of Haryana Yog Aayog, ensuring compliance with the Act.

Promotion and propagation activities, including training and regulation of Yoga or Naturopathy, will be conducted in consultation with the State Government. Additionally, Yogasana competitions, focusing on Yoga postures, will be organized at various levels, including State, District, Corporation, Municipal, Tehsil, and Panchayat, targeting primary, middle, and senior schools.

The citizens of the State will be educated and made aware through campaigns and inclusion in the school syllabus. Haryana Yog Aayog holds the responsibility of periodically reviewing Yoga courses, syllabi, and educational standards, providing recommendations to the State Government accordingly.

The Registrar plays a pivotal role by registering qualified Yoga and Naturopathy practitioners from recognized institutions. Maintaining a comprehensive register of practitioners in the State, the Registrar regulates their professional conduct through a defined code of ethics. Disciplinary actions, including suspension or removal from the register, may be taken after providing an opportunity for the practitioner to be heard.

1.5.3. National Council for Vocational Education and Training

The National Council for Vocational Education and Training (NCVET) was established as a regulatory body by the Government of India through Gazette Notification No. SD-17/113/2017-E&PW dated December 5, 2018. It has been fully operational from August 1, 2020. The NCVET serves as an overarching national regulator with the aim of setting standards, developing comprehensive regulations, and improving the vocational education, training, and skilling ecosystem.

The primary objective of NCVET is to ensure strong industry interfacing and implement effective regulations that enhance the quality and outcomes of vocational education and training. It is responsible for the development, qualitative improvement, and regulation of vocational education and training systems. Additionally, NCVET grants recognition to and monitors the functioning of awarding bodies, assessment agencies, and skill information providers. It also performs other incidental functions as specified in its resolution.

NCVET's mission is to integrate the fragmented regulatory system and infuse quality assurance across the entire vocational education, training, and skilling value chain. By doing so, it aims to facilitate the availability of highly skilled manpower, improving employability and contributing to the accelerated growth of the Indian economy.

1.5.4. E2E Networks

E2E Networks is the leading hyper scaler from India with focus on advanced Cloud GPU infrastructure, listed on the National Stock Exchange (NSE). The company is popular for providing accelerated cloud computing solutions, including cutting-edge Cloud GPUs like NVIDIA A100/H100 GPUs and upcoming H100 on the Cloud, making it the leading IAAS provider focused on advanced Cloud GPU capabilities in India.

E2E Networks Cloud computing solutions are built on the principles of affordability, assistance, accessibility, accommodative, and Atmanirbhar Bharat (self-reliant India), which are collectively referred to as the 5As of E2E Cloud. The company has been instrumental in helping India become self-reliant in the cloud infrastructure by offering a true public cloud platform that is multi-region, smart dedicated compute, and designed to cater to the unique needs of Higher Education and Research, Enterprises businesses and next generation of AI/ML startups in the country.

Our platform has further strengthened its position as the leading accelerated computing cloud platform from India by demonstrating its capabilities in the AI/ML, NLP, Computer Vision and Generative AI on its Cloud GPU platform. The company has well earned its reputation as a trusted and reliable partner of choice for Higher Education and Research Institutions, Enterprises and AI/ML startups in India as well as globally.

E2E Networks was amongst the first few providers out of India providing contractless computing with low latency. The company's advanced Cloud Computing solutions,

including Cloud GPUs like NVIDIA A100/H100 and upcoming GH100 are aimed at helping India rise as an AI/ML superpower transforming Higher Education, Research and Enterprises across industry and academia.

1.5.5. NIT Kurukshetra Alumni Association

It was during the mid-nineteen seventies when the Alumni Association of our institute, then Regional Engineering College Kurukshetra, came into being as RECKOBA (Regional Engineering College Kurukshetra Old Boys Association). It was a humble beginning with Prof. B.K. Kaul and Dr. A.K. Kachroo as the first President and Secretary, respectively.

The membership was open to all the graduates and faculty of the College. However, very soon the membership was extended to all the students who had obtained an approved degree course from the institute and the faculty. Later, with the entry of a substantial number of girl students to the college, a need to change the name of the association was felt. Various names including RECKOSA, Alumni Association etc. were suggested and finally, Alumni Association, REC Kurukshetra Alumni, was finalized. Then with the changeover of REC Kurukshetra to NIT Kurukshetra, i.e., Regional to National, Engineering to Technology and College to Institute, today our association stands as National Institute of Technology Kurukshetra Alumni Association. It is a registered body whose strength has crossed the five-figure mark.

The Association has a written constitution. Among the various objectives of the Association enshrined in the written document, the major objective is to promote and encourage fraternity among the alumni. The affairs of the Association are managed by an Executive Committee which strives to act in accordance with the directions given by the General Body. General Body meeting takes place once in a year while the Executive Committee meets at least quarterly. The EC comprises of 12 members including the Patron. Director of the Institute is the ex-officio Patron of the Association, and the remaining eleven members are elected by the General Body for a two-year term. Since the office of the Association is housed in the Institute, the President and Secretary are preferred to be from the Institute itself, as a convention.

Later with the change in Society Registration Act of Haryana, the society was freshly registered as NIT Kurukshetra Alumni Association in 2016 under the Haryana Registration and Regulation of Societies Act, 2012. The Society registration was approved vide registration number 06-004-2016-01269 on 24.10.2016. Now the EC comprises of 11 members elected by the General Body for a three-year term. Director of the Institute is the ex-officio Patron of the Association.

1.5.6. Swami Vivekananda Association

Swami Vivekananda Association is a non-profit organization dedicated to creating positive societal impact. Rooted in Swami Vivekananda's principles, our mission encompasses raising awareness about AIDS, educating youth on sexual diseases, and improving the well-being of the elderly. Emphasizing the importance of yoga, we conduct camps and establish Yoga Centres for holistic wellness.

Our commitment extends to education, advocating for girls' education, supporting talented but economically disadvantaged students, and publishing educational resources. Through open meetings and yoga camps, we foster community engagement. Open to aid from various sources, we aim to amplify our impact and contribute meaningfully to societal progress. Swami Vivekananda Association, though property-free at registration, is rich in the collective dedication of its members working towards positive change.

1.5.7. Viksit India

"Viksit India" is a quarterly journal, a transformative evolution of the revered "Echoes of Shiksha Mahakumbh." This journal stands as an integral component of the Shiksha Mahakumbh initiative, a distinguished effort spearheaded by the Department of Holistic Education (DHE). DHE, a visionary endeavor founded by Dr. Thakur SKR, renowned scientist of ISRO, dedicated RSS worker, and accomplished author, envisions education as more than just marks on a page. It represents the complete transformation of young minds into valuable assets for society. In this spirit, "Viksit India" is dedicated to the advancement of education. We firmly believe that education's worth cannot be solely gauged by academic scores. True education involves the holistic development of individuals, infusing them with energy, skills, and values that go beyond textbooks. Our journal is an open invitation to all those who share this vision and are committed to nurturing discussions, research, and insights that pertain to the global educational landscape. "Viksit India" offers comprehensive coverage of a multitude of educational aspects, from school education to higher education, language pedagogy to technological advancements, child pedagogy to scientific research. It encompasses pioneering research, visionary perspectives, and in-depth explorations of every facet of the ever-evolving domain of learning and teaching. It is a passport to a realm filled with knowledge, inspiration, and innovation within the field of education. The subjects covered in "Viksit India" are a testament to our commitment to a holistic education approach. We explore school and university education, language education, child pedagogy, research and development, legal education, sports, technology, and basic science. The multidisciplinary approach of our journal ensures that you remain at the forefront of the ever-changing educational landscape.

CHAPTER-2
The Campaign

2.1. Introduction

The campaign was initially not planed and thought. However, as the message of this Shiksha Kumbh reached the people, their response was overwhelming on listening to this very noble and innovative idea. Therefore, it was decided at later stage to lead the campaign from front in terms of press conferences and invitations.

In totality, **1 press conference**were held in NIT Delhi. The invitation campaign was lead through personal invitations to the prominent educationists and the members of the society who contributed significantly to make a difference in the field of education. The campaign was further extended to send letters & emails to reach those who can't be contacted through personal invitation mode due to shortage of time. More than 2K personal invitations in more than 3 states and 1 UTs were given through Zonal and District Co-ordinators. More than 5K invitations through letters and more than 10K invitations through emails were sent in entire Bharat covering Bureaucrats to Influencers to Change Makers to Law Makers to Academicians to Education Ministers to Chief Ministers to Cabinet Ministers to Prime Minister to President of Bharat.

The purpose of this mass movement of press conferences and invitations was to make aware one and all of this country of Shiksha Kumbh. Covering the whole campaign in pictorial form is next to impossible in a Chapter. Therefore, the details of this campaign in terms of geographies covered and numbers sent are provided in subsequent sections and sample pictorial form to depict the campaign is used.

2.2. Press Conferences

1 press conference were conducted at Capital of Bharat.

Date: 12/12/2023
District: Delhi
Venue: NIT Delhi
Conference Addressed by: Dr. Thakur SKR

2.3. Invitations

The invitation campaign planned and executed in inaugural edition of Shiksha Kumbh was one of its kind across the globe. The methodology of inviting the dignitaries through Placards, releasing the brochure with each dignitary and presenting the kit in eco-friendly Shiksha Kumbh bags was not only liked by each and everyone but also the novelty of the campaign was appreciated. A total number of personal invitations given across different districts of 2 states and 2 UTs are described in subsequent sections.

2.3.1. Personal Invitations

2.3.1.1. Haryana

Haryana was the 1st state of North Zone where massive personal invitations were rendered to the educationists, academicians, change makers and politicians. More than 2K invitations were given in various districts of Haryana. Samples of the pictorial campaign are depicted here.

Dr. Ankit Goel and Dr. Nitish Bansal inviting Dr. R.K. Gupta, Professor & Head, Department of Zoology, College of Basic Science & Humanities, CCS Haryana Agricultural University, Hisar

Dr. Ankit Goel, Dr. Nitish Bansal and Dr. Kanishk inviting Prof. (Dr.) Narsi Ram Bishnoi, Vice Chancellor, Guru Jambheshwar University of Science and Technology, Hisar, Haryana

Dr. Ankit Goel and Dr. Nitish Bansal inviting Prof. (Dr) B. R. Kamboj, Vice Chancellor, CCS Haryana Agricultural University, Hisar, Haryana

Dr. Tanvi Bhatia inviting Dr. Naresh Kaushik, Principal, College of Agriculture, Bawal (Rewari)

Dr. Jeetendra Sharma inviting Dr. Harpreet Singh, Scientist, HPVK, LUVAS, Karnal

Dr. Ankit Goel inviting Dr. Manoj Kumar Rose, Dean, LUVAS, Hisar, Haryana

Dr. Ankit Goel and Dr. Nitish Bansal inviting Dr. Gulshan Narang, Dean and Dr. S. K. Dhaka, Registrar, LUVAS, Hisar

Dr. Ankit Goel inviting Dr. Naresh Jindal, Director of Research, LUVAS, Hisar, Haryana

Dr. Jeetendra Sharma inviting Dr. Sandeep Potliya, Scientist, LUVAS, Hisar, Haryana

Dr. Ankit Goel inviting Dr. Rajesh Khurana, Director of Human Resource Management, LUVAS, Hisar, Haryana

Dr. Ankit Goel and Dr. Jeetendra Sharma inviting Mr. Parvesh Sharma, Chief Manager and Mr. JP Sain, Circle Head PNB

Prof. Deepti Dharmani inviting Mr. Arvind Bansal, Chairman, Sirsa Education Society, Sirsa

Prof. Deepti Dharmani inviting Prof. Kuldeep Singh Dhindsa, Director General, JCD Vidyapeeth, Sirsa

Prof. Deepti Dharmani inviting Dr. Harjinder Singh, Vice Principal, Govt. National College, Sirsa

Prof. Deepti Dharmani inviting Prof. Ajmer Singh Malik, Vice Chancellor, Chaudhary Devi Lal University, Sirsa

Prof. Deepti Dharmaniinviting Dr. Gita Monga, Principal, Shah Satnam Singh Girls College, Sirsa.

Prof. Deepti Dharmaniinviting Dr Kumud Bansal, former Director of Haryana Hindi Sahitya Akademi , Haryana

Dr. Thakur Sudesh Raunija, Dr. Jitesh Pandey, Mr. Ramendra Singh, and Colonel KK Kakkar invitingProf. Kartar Dhiman, Vice Chancellor, Shri Krishna Ayush University Kurukshetra

Dr. Thakur Sudesh Raunija, Dr. Jitesh Pandey, Mr. Ramendra Singh, and Colonel KK Kakkar inviting Prof. Naresh Bhargava, Registrar, Shri Krishna Ayush University, Kurukshetra

2.3.1.2. Punjab

Punjab was the 2nd state of North Zone where massive personal invitations were rendered to the educationists, academicians, change makers and politicians. More than 0.2K invitations were given in various districts of Punjab. Samples of the pictorial campaign are depicted here.

Dr. Thakur Sudesh Raunija, Dr. Jitesh Pandey, Mr. Ramendra Singh, Advocate Vikram Verma, Advocate Bhupinder, and Colonel K. K. Kakkar inviting Mr. Mantri Srinivasulu, Organizing Secretary, BJP, Punjab

2.3.1.3. Chandigarh

Chandigarh was the 1st UT of North Zone where massive personal invitations were rendered to the educationists, academicians, change makers and politicians. More than 0.1K invitations were given in various Places of Chandigarh. Samples of the pictorial campaign are depicted here.

Dr. Thakur Sudesh Raunija and Colonel K. K. Kakkar inviting Swami Bhitiharananda Maharaj, Secretary, Ram Krishna Mision, Chandigarh

2.3.1.4. Delhi

Delhi was the 3rd state of North Zone where massive personal invitations were rendered to the educationists, academicians, change makers and politicians. More than 0.3K invitations were given in various districts of Delhi. Samples of the pictorial campaign are depicted here.

Dr. Thakur Sudesh Raunija, Dr. Neeraj Pant inviting Sardar NS Kalsi Retd. IAS, Chairman, NCVET

Dr. Thakur Sudesh Raunija, Mr. Vijay Nadda, Dr. Neeraj Pant, Dr. Jitesh Pandey, Mr. Suresh Bhati, and Prof. Sathans, inviting Mr. Shobhit, Director, M/s Luxfer-Uttam

Dr. Thakur Sudesh Raunija, Mr. Vijay Nadda, Dr. Neeraj Pant, Dr. Jitesh Pandey, Mr. Suresh Bhati, and Prof. Sathans, inviting Mr. Ashwini Vaishnav, Union Minister of Information and Technology and Union Railways

Dr. Thakur Sudesh Raunija, Mr. Vijay Nadda, Dr. Neeraj Pant, Dr. Jitesh Pandey, Mr. Suresh Bhati, and Prof. Sathans, inviting Mr. Nand Kumar, Organizing Secretary, Pragya Pravah

Dr. Thakur Sudesh Raunija, Mr. Vijay Nadda, Dr. Neeraj Pant, Dr. Jitesh Pandey, and Prof. Sathans, inviting Prof. Ajay Sharma, Director, NIT Delhi

Dr. Thakur Sudesh Raunija, Mr. Vijay Nadda, Dr. Neeraj Pant, Dr. Jitesh Pandey, Mr. Suresh Bhati, and Prof. Sathans inviting Prof. Yogesh Singh, Vice Chancellor, University of Delhi, and Chairman, NCTE

Dr. Thakur Sudesh Raunija, Mr. Vijay Nadda, Dr. Neeraj Pant, Dr. Jitesh Pandey and Prof. Sathans, inviting Mr. Dnyaneshwar Singh, Deputy Director, NCB

2.3.2.E-mails

Throughout Bharat, more than 10K invitationswere sent to the dignitaries via email for the purpose of invitation in Shiksha Kumbh. The breakup of these emails is depicted in the Table.

Sr. No.	Particulars	Sent via Email
1	Companies	2990
2	National Institute	160
3	Chief Ministers	30
4	Governors	31

5	Education Ministers & Secretaries	91
6	Union Ministers, PM, VP,	105
7	Spiritual Leaders	1022
8	Politicians	2535
9	You tubers	1597
10	Singers	724
11	Universities	1083
12	Organizations	198
Total no. of Emails		**10517**

2.4. Conclusion

In conclusion, the campaign for Shiksha Kumbh emerged as a dynamic and widespread initiative that gained momentum organically. Initially unplanned, it quickly garnered immense support from the people, compelling the organizers to take a proactive approach in leading the campaign through press conferences and invitations.

The press conferences, conducted across various states of Bharat, served as a crucial platform for disseminating information about Shiksha Kumbh. Notably, the overwhelming response from the people underscored the significance of the noble and innovative concept. A detailed breakdown of press conferences held in different states has been presented for further insight.

Simultaneously, the invitation campaign unfolded with a unique and unprecedented methodology. Personal invitations were extended to prominent educationists and societal contributors, complemented by letters, emails, and eco-friendly Shiksha Kumbh bags. The sheer scale of this campaign is highlighted by the vast numbers involved, including invitations sent to a diverse array of individuals ranging from bureaucrats to influencers, change makers, and even the highest echelons of political leadership.

The purpose of this extensive outreach was to create widespread awareness about Shiksha Kumbh, transcending geographical boundaries. The intricacies of the campaign, including the coverage across different states, districts, and the sheer magnitude of invitations, are elucidated for a comprehensive understanding.

The subsequent sections delve deeper into the state-wise details of press conferences and provide pictorial representations of the personal invitation campaign in various states, showcasing the diversity and richness of the initiative.

In essence, Chapter-2 encapsulates the vibrant and inclusive nature of the Shiksha Kumbh campaign, setting the stage for the subsequent chapters to unveil the unfolding narrative of this educational movement.

CHAPTER-3
Turn Around

3.1. Introduction

In the dynamic landscape of event management, the concept of a turnaround represents a crucial process of transformation and rejuvenation that can significantly influence the impact of an event. The Shiksha Kumbh, with its meticulous planning, innovative strategies, and unwavering dedication, marked a remarkable success. This chapter unfolds the narrative of the inaugural edition of Shiksha Kumbh, illustrating the pivotal role of a turnaround in orchestrating a significant gathering of educators, dignitaries, and students.

Registration and Paper Presentation-The event commenced with the spirited registration of participants, setting the stage for the eagerly awaited paper presentation session. Distinguished authors from diverse academic disciplines shared their work, fostering a vibrant exchange of scholarly ideas.

Panel Discussion -A dynamic panel discussion unfolded, featuring notable speakers such as Col K.K. Kakkar, Prof. Manjit Bansal, Prof. Amit Kansal, Dr. Manoj Kumar Teotia, and others. Moderated by Col K.K. Kakkar, the discussion delved into the challenges, opportunities, and trends within the startup ecosystem.

Exhibition and Networking - An engaging exhibition showcased innovative projects and ideas, providing a platform for participants to explore groundbreaking initiatives. Emphasis was placed on networking and collaboration, fostering connections among academia, industry professionals, and startup enthusiasts.

Inaugural Session: Role of Academic-driven Startups in Economy - The grand inaugural session welcomed the esteemed Chief Guest, Shri Bandaru Dattareya, Hon'ble Governor of Haryana. Keynote speakers, including Advocate Mr. Ashwini Upadhyay, Prof. Raj Nehru, and Swami Bhitiharananda Maharaj, shared profound insights on the event's theme.

Release of Publications -Dr. Thakur SKR, Sci/Engr-SF; ISRO, Conference Director, presided over the release of Shiksha Kumbh proceedings, Viksit India Journal, and Gurukul Se Naya Yug Ki Aur, symbolizing the intellectual wealth generated during the event.

Session-2 -Renowned speakers presented diverse aspects of Academic-driven Startups, providing participants with a multifaceted understanding of the subject.

Cultural Program -The day concluded with a vibrant cultural program at Jubilee Hall, NIT Kurukshetra, featuring a performance by Sardaar Ali, a renowned Sufi singer.

Participants and guests celebrated diversity and talent through various cultural performances, reflecting the richness of the region.

The Shiksha Kumbh was a monumental success, characterized by a diverse spectrum of participants and a fervent commitment to advancing education. The chapter details the Turn Around that contributed to the event's success.

Chapter Dynamics Unveiled - Speakers and Panel Discussion at Shiksha Kumbh

The Shiksha Kumbh conference, a beacon of knowledge and innovation, witnessed a stellar lineup of speakers and thought leaders who added profound insights to the discourse on academic-driven startups in the global economy. The event, hosted at the prestigious NIT Kurukshetra, became a melting pot of ideas, experiences, and expertise.

3.2. Speakers Who Ignited Minds of Shiksha Kumbh

1. Prof. Sathans, NIT Kurukshetra

- Topic Pioneering Innovations in Technical Education
- Prof. Sathans set the stage with a focus on technological advancements in education, emphasizing the need for innovation to bridge academic and industry demands.

2. Prof. B. V. Ramana Reddy, Director, NIT Kurukshetra

- Topic Fostering Entrepreneurial Spirit in Academic Institutions
-The Director shared valuable insights on cultivating an entrepreneurial mindset within academic institutions, creating a symbiotic relationship between education and startups.

3. Mr. Desh Raj Sharma, General Secretary, Vidya Bharti (North Zone)

- Topic The Role of Holistic Education in Nurturing Entrepreneurs
- Mr. Sharma shed light on the holistic approach to education and its pivotal role in shaping individuals not just academically, but as future entrepreneurs.

4. Advocate Mr. Ashwini Upadhyay, Senior Advocate, Supreme Court

- Topic Legal Framework for Academic Startups
- With a legal perspective, Mr. Upadhyay delved into the legal nuances of academic startups, providing valuable guidance on navigating the legal landscape.

5. Prof. Raj Nehru, VC, Shri Vishwakarma Skill University, Haryana

- Topic Skill Development The Cornerstone of Academic-Driven Startups
- Prof. Nehru highlighted the critical role of skill development in the success of academic-driven startups, emphasizing its impact on economic growth.

6. Swami Bhitiharananda Maharaj, Secretary, Ram Krishna Mission, Chandigarh

- Topic Spirituality and Entrepreneurship
- Swami Bhitiharananda brought a unique perspective, exploring the intersection of spirituality and entrepreneurship, fostering a holistic approach to business.

7. Mr. Jaideep Arya, Chairman, Haryana Yog Aayog

- Topic Wellness and Entrepreneurship
- Mr. Arya underscored the importance of wellness in the entrepreneurial journey, emphasizing how a healthy mind and body contribute to business success.

8. Dr. Thakur SKR, Sci/Engr-SF; ISRO, Conference Director; Director, Department of Holistic Education

- Topic Space Technology and its Implications on Academic Startups
- Dr. Thakur SKR provided a glimpse into the world of space technology and its potential impact on academic startups, exploring uncharted territories.

9. Shri Bandaru Dattareya, Hon'ble Governor, Haryana

- Topic Policy Perspectives on Academic-Driven Startups
- The Hon'ble Governor shared policy insights, elucidating the role of government in fostering an environment conducive to the growth of academic startups.

10. Prof. Kartar Dhiman, VC, Shri Krishna Aayush University Kurukshetra

- Topic Innovations in Ayurveda Education and Entrepreneurship
- Prof. Dhiman focused on innovations in Ayurveda education, highlighting its potential to spawn entrepreneurial ventures in the field.

11. Dr. Rishiraj Vashishtha, President, Hindi Shiksha Samiti, Haryana

- Topic Language Pedagogy and Entrepreneurial Ventures
- Dr. Vashishtha delved into the connection between language pedagogy and entrepreneurial ventures, emphasizing the role of linguistic skills in startups.

12. Major (Dr.) Gulshan Sharma, Secretary, Pravasi Bhartiya Association

- Topic Global Perspectives on Academic-Driven Ventures
- Offering a global outlook, Major Dr. Sharma discussed how academic startups can transcend borders, contributing to the global economic landscape.

13. Prof. Dr. B. S. Prasad, President, National Commission for Indian System of Medicine

- Topic Integrating Traditional Medicine into Academic Startups

- Prof. Prasad explored the integration of traditional medicine into academic startups, envisioning a harmonious blend of ancient wisdom and modern entrepreneurship.

14. Dr. Sourav Ghosh (Scientist C), Patanjali Research Foundation

- Topic Scientific Research in Entrepreneurial Ventures
- Dr. Ghosh delved into the role of scientific research in shaping successful entrepreneurial ventures, drawing insights from his work at Patanjali Research Foundation.

15. Prof. Madan Mohan Goel, PropounderNeedonomics School of Thought

- Topic Needonomics A Paradigm for Academic Entrepreneurship
- Prof. Goel introduced the concept of Needonomics, offering a unique paradigm for academic entrepreneurship rooted in addressing societal needs.

16. Mr. Shuchika Batra, Director of Institutional Programs of Art of Living

- Topic Mindfulness and Leadership in Academic Startups
- Mr. Batra explored the intersection of mindfulness and leadership in academic startups, emphasizing their role in fostering a positive and effective work environment.

17. Shri Sanjay Dixit, Retd. IAS and Founder, The Jaipur Dialogue

- Topic Navigating Challenges in Entrepreneurship
- Shri Dixit shared his experiences, guiding entrepreneurs on navigating challenges in the dynamic landscape of startups.

18. Col. Gunjan Chowdhary, Director, National Council for Vocational Education and Training

- Topic Vocational Education and Skill-Driven Entrepreneurship
- Col. Chowdhary shed light on the synergy between vocational education and skill-driven entrepreneurship, outlining pathways for success.

19. Dr. Devi Prasad Bhardwaj, President, Vidya Bharti, Haryana

- Topic Role of Educational Institutions in Fostering Entrepreneurship
- Dr. Bhardwaj explored how educational institutions play a pivotal role in nurturing an entrepreneurial mindset among students.

20. Dr. Avdhesh Pandey, General Secretary, Hindi Shiksha Samiti, Haryana

- Dr. Pandey delved into the realm of linguistic entrepreneurship, highlighting its significance in the context of academic initiatives.

3.3. Panel Discussion Voices of Experience and Innovation

The panel discussion, a centerpiece of the Shiksha Kumbh, brought together a diverse array of voices including startup CEOs, directors, academicians, and prominent YouTubers. Moderated by Col K.K. Kakkar, Founder Director of a startup in the food processing industry, the panel delved into the theme of the role of academic-driven startups in the economy, with a focus on skill development, entrepreneurship, and best practices.

Key Highlights of the Panel Discussion

-Prof. Manjit Bansal, Dean, MRS PTU

- Shared insights on academic institutions fostering a conducive environment for startups, emphasizing the need for collaboration between academia and industry.

- Dr. Manoj Kumar Teotia, CRRID, Chandigarh

- Provided a research perspective on the role of startups in regional development, shedding light on best practices for sustainable growth.

- Mr. Satender Singh, Founder, English Lover Youtube Channel

- Shared experiences as a YouTuber, emphasizing the role of digital platforms in skill development and entrepreneurship.

- Ms. Kanchan Kesari and Mr. Rupesh Keshari, Founders, English Connection Youtube Channel

- Explored the dynamic world of language education through digital channels, showcasing how startups can leverage online platforms for education.

- Mr. Rohit Vaidvan, Founder, Adhyayan Mantra Youtube Channel

- Discussed the impact of digital education in academic startups, providing insights into effective teaching methodologies.

- Mr. Varun Singhal, Founder Gate Smashers Youtube Channel

- Explored the landscape of competitive exams and the role of startups in providing quality education for aspirants.

- Mr. Abhinay Sharma, Founder Abhinay Maths Youtube Channel

- Shared insights into the niche of mathematics education through digital channels, discussing the reach and impact of online tutorials.

- Mr. Mudit Thakkar, Founder, YoungovatorYouTube Channel

- Explored the role of youth in entrepreneurship and how startups can be a platform for young innovators.

The panel discussion became a crucible of ideas, where the fusion of academic insights, entrepreneurial experiences, and digital innovations illuminated the path for the future of academic-driven startups.

3.4. Sponsorships that Fueled the Innovation Engine

The success of Shiksha Kumbh was made possible through strategic sponsorships from Ramaiah University Bangalore, Bureau of Indian Standers, Hayana Yog Aayog, Shri Krishna Ayush University and NCVET. These sponsorships not only added financial support but also underscored the collaborative spirit essential for the growth of academic-driven startups.

As we navigate through the dynamic presentations, discussions, and sponsorships of the Shiksha Kumbh, we witness the convergence of knowledge, experience, and vision, propelling academic-driven startups into the forefront of global economic transformation. This chapter unravels the tapestry of ideas and insights shared by eminent speakers and the vibrant panel discussion, painting a vivid picture of the conference's dynamic atmosphere.

3.5. Exhibition

Exhibitions play a pivotal role in fostering knowledge exchange, innovation, and networking within various domains. The Shiksha Kumbh exhibition went beyond being a physical space; it served as a conduit for showcasing cutting-edge solutions, sustainable practices, and transformative ideas. Stalls from distinguished entities like ATL Lab, Punjab Super 100, Tredul, Swadeshi Bazaar, TuDu, Jobs360^{0}, Sarvatr, E-Cycle, Viksit India, Ramaiah University Bangalore, Bureau of Indian Standers, Hayana Yog Aayog, and Shri Krishna Ayush University provided a dynamic showcase of their contributions to the educational sector.

The exhibition featured a range of stalls, each offering a unique perspective on education, sustainability, and technological advancements. It provided attendees with a unique opportunity to explore, interact, and engage with exhibitors at the forefront of their respective fields.

In summary, the Shiksha Kumbh exhibition was a hub of creativity, knowledge, and collaboration. It encapsulated the essence of the event—a holistic and transformative experience for all.

3.6. Cultural Programme

The Shiksha Kumbh 2023 was not only a platform for academic discourse but also a celebration of cultural richness. The cultural programs infused a vibrant and festive atmosphere into the event, fostering cultural exchange and providing entertainment for participants. Seamlessly integrated with the conference themes, these programs enhanced the understanding of Bharatiya culture and its profound connection to education.

Throughout the event, the cultural program showcased the diversity and artistic expression inherent in Bharat's culture. Participants embarked on a thematic journey that both entertained and educated, creating a dynamic and immersive experience that complemented the educational themes of the conference.

One notable highlight was the Sufi Night featuring the renowned Sufi Singer, Mr. Sardaar Ali. His mesmerizing performance added a spiritual and soulful touch to the cultural festivities, enriching the overall experience for attendees. The inclusion of such renowned artists contributed to making the Shiksha Kumbh 2023 not just a conference but a holistic celebration of education and culture.

3.7. Accommodation & Hospitality

The chapter provides insights into the arrangements made for the accommodation and hospitality of VIPs, guests from Sangathans associated with RSS, members of the organizing team, principals, professors, and student participants. The commitment to ensuring the ultimate comfort and convenience for all participants is highlighted.

3.8. Conclusion

Shiksha Kumbh was a resounding success, marked by meticulous planning, diversity in participation, and a commitment to fostering excellence in education. Day was a tapestry of wisdom, innovation, and cultural celebration, reflecting the holistic vision of education and learning that ***Shiksha Kumbh*** embodied. This chapter provided a detailed glimpse into the heart of the conference, where ideas were born, connections were forged, and the future of education was illuminated. The event seamlessly blended cultural richness, innovative thinking, and recognition of talent, creating an unforgettable experience for all involved. With its transformative impact and unwavering dedication to the field of education, ***Shiksha Kumbh*** stands as a beacon of inspiration and progress in the world of educational events. The details about Papers, Media Coverage, and the potential Outcome are described in subsequent Chapters.

CHAPTER-4
Papers

Papers

4.1. Introduction

Chapter 4 of our National Conference on the Role of Academic-driven Startups in the Economy is dedicated to the scholarly exploration and insightful revelations encapsulated in the numerous paper submissions. This crucial segment serves as a platform for intellectual exchange, fostering an environment where ideas converge to shape the contours of academic-driven entrepreneurship. A total of 65 papers have been presented, representing a rich tapestry of perspectives and research endeavors.

These submissions, spanning both online and offline modes, exemplify the diverse dimensions of academic contributions to the entrepreneurial landscape. Categorizing these papers into three distinct themes – Skill & Startup, Entrepreneurship, and Best Practices & Innovations – provides a comprehensive lens to examine the multifaceted impact of academic-driven startups on our economy.

The papers offer a deep dive into the core areas, unraveling the symbiotic relationship between academia and entrepreneurship. Each category, with its unique focus, contributes to the overarching narrative of innovation, skill development, and the transformative role of startups in the economic paradigm.

As we traverse through the chapters of these intellectual contributions, we embark on a journey of discovery, exploring the nexus between academia and the vibrant entrepreneurial spirit that propels our nation towards progress and prosperity.

Skill and Startup

Session Chairs

Dr. Ankit Kumar, Scientist (Veterinary Medicine), Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar, Haryana

Dr. Ashwani, Assistant Professor, Dept. of Humanities and Social Sciences

Dr. Muralidhar Killi, Assistant Professor, Dept. of Electrical Engg.

G1-P1

Reducing the Wastage of Grains: Enhancing Grain Preservation Technique

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Abstract

A key component of food security is grain preservation, which guarantees year-round availability and access to food. Millions of people throughout the world rely heavily on grains like rice, wheat, maize, and sorghum as their main source of calories and minerals. To avoid deterioration and minimize loss, grain preservation is a complicated process that calls for meticulous attention to detail and effective management. Techniques for preserving grains include drying, cleaning, sorting, and storage. One of the most popular preservation techniques is drying, which entails bringing the grains' moisture content down to a safe level to avoid microbial development. Proper storage conditions such as temperature, moisture, and ventilation play a crucial role in preserving grains. During many phases of manufacturing, shipping, storage, and consumption, grain is wasted. Globally, up to one-third of all food produced for human consumption is lost or wasted, according to the Food and Agricultural Organization (FAO). Economic losses, food poverty, and environmental damage are brought on by the wasting of grains. Consequently, minimizing grain waste is essential to ensuring both sustainable development and food security. Grain wastage may be decreased by enhancing post-harvest handling procedures, putting in place efficient storage methods, and minimizing food losses during distribution and consumption. Implementing effective storage syste involves using appropriate storage containers, such as metal or plastic silos, to prevent moisture and pest damage. In conclusion, preserving grains and reducing the wastage of grains are essential for food security and sustainable development. By implementing appropriate preservation techniques and reducing wastage, we can ensure that food is available and accessible to all. The reduction of grain wastage requires a multi-faceted approach that involves improving post-harvest handling practices, implementing effective storage syste, and reducing food losses in distribution and consumption. By working together to address these issues, we can ensure that grains are preserved and utilized efficiently, reducing food insecurity, and promoting sustainable development.

Keywords: Food Grains, Quality Measures, Temperature Sensors, Humidity Sensor, Storage Methods.

G1-P2

Entrepreneurship Education and Training in Academic Institutions

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Abstract

Innovation is one of the key aspects of building blocks of our economy to redefine products and services meeting peoples' aspirations. The competitiveness of our economy must be raised by creating opportunities that empower young ones to earn sustainable incomes and growth. However, the number of local entrepreneurs emerging every year in India is very low before & during COVID-19 period till 2020. Afterwards, the innovative thoughts of emerging entrepreneurs enlarge the scale of growth of graph at the regular intervals in various sectors such as medical research & development, Space technology, transportation, agricultural as well drone technology. The healthier trend is that India is fast moving up the rank ladder. Though, further accelerating entrepreneurship especially based on innovations is crucial for large scale employment generation in the country. In wake of this, our Nation plans to foster entrepreneurial eco system to boost innovation and entrepreneurship competitiveness. The nation is committed to enhancing the strength of youngsters who will be job creators rather than job seekers. Innovative Entrepreneurs will lead the Nation & due to their combined efforts, the vision of becoming a developed nation with 3rd rank & to achieve the economy of 3 trillion dollars will only be achieved with the helping hands of these entrepreneurs. To inculcate entrepreneurship culture amongst its youth & equip them with skills to act as job creators and training to the students, government has formulated and launched various training programmes at the level of Centre and State with an aim to foster entrepreneurship among the students & for the generation of employment opportunities as well as creation of wealth. In this paper, an attempt has been made to describe the worth of various programmes and activities to be organized in academic institutions to drive & encourage innovations and entrepreneurship in society. These activities envision the civilization of self-motivated individuals grained with constructive and intense human beings driving & leading to positive outcomes for humanity.

Keywords: Civilization, Employment, Entrepreneurs, Entrepreneurship, Self-Motivated.

G1-P3

IoT-Enabled Devices: Innovation in Technology for the Promotion of Distance Learning and E-learning in COVID-19

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Abstract

Distance learning is in demand whenever education is widespread. Distance educational standards have received a significant amount of attention considering that they are necessary for everyone's safety during COVID-19. Despite having an impact on everyone's daily lives on a global basis, Covid-19 has severely destroyed everything. No industry appears to be immune from the effects of this pandemic. The education sector was significantly impacted by the lockdown in all nations, and the federal government and administrative organizations have opted to close academic departments for safety reasons. Nevertheless, at a certain period, technology and IoT gadgets played a crucial role in the continued existence of work, allowing people to transition from traditional jobs to work-from-home or online jobs, traditional classes to online classes, and from traditional money to electronic money. Furthermore, IoT gadgets, such as iPhones, smartphones, tablets, apps, desktops, and laptops, support and promote e-learning in virtually every aspect of life. Technology has advanced significantly. Thanks to the development of software and apps that meet the demands of business professionals, academics, educators, students, and the public. The Zoom app and Google Meet allow for the creation of virtual classroo, which facilitates distance learning. Additionally, by offering networks all around the world, telecommunications corporations promote the technology. Teaching cannot be halted for an extended period due to the timely availability of networks, performance enhancements, and upgrades. In the typical classroom, teachers might not have a well-thought-out lesson plan before entering the education services. The need for the virtual classroom demands that academics have carefully prepared notes, presentations, and database management. Thanks to the Internet of Things, in COVID-19, gadgets can now instantaneously provide services. This article will concentrate on technological developments for conferences, online meetings, and education through the optimal use of networks and their timely availability to promote E-learning and remote learning, which people no longer desire.

Keywords: IoT-enabled Devices, COVID-19, Distance Learning, E-learning, Technology, Gadgets.

G1-P4

Skill Education for Inclusive Growth: Need of the Hour for India

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Abstract

By 2030, India is expected to have the highest working-age population in the world. But according to data from the National Skill Development Corporation, just 2.3% of Indian workers have undergone formal skill training, which is very short if compared to 68% in the UK, 75% in Germany, 52% in the USA, 80% in Japan, 96% in South Korea, and many other developed countries.

This present study explores the state of skill development in India's existing educational system, from elementary schools to universities. It is an attempt to depict general trends in employment patterns across qualifications, literacy rates, enrollment in vocational programmes, and discrepancies between academically obtained abilities and those required by industry for jobs. Interviews done by industry experts reveal inadequacies in abilities such as analytical thinking, problem-solving, digital literacy, reading and writing in English and Hindi, and practical experience with the newest technology.

It is high time that teaching methods need to be drastically changed to adopt Mahatma Gandhi's experiential learning philosophy, which emphasises skill education right from schooling along with the aim of total development of oneself. The curriculum should place a strong emphasis on developing the skills and self-reliance necessary to make a meaningful contribution to society. This also aligns with Prime Minister Shri Narendra Modi's vision of developing and employing a trained labor force to transform India into a major global economic force by 2047.

The National Education Policy 2020 promotes the integration of vocational education across all educational institutions to reduce the discrepancy between knowledge and skills. The primary emphasis is on revising and updating the school-level curriculum to incorporate fundamental and essential skills for the 21st century. Critical thinking, creativity, communication, collaboration, information literacy, media literacy,

technological literacy, flexibility, cultural awareness, ethical responsibility, and leadership are key skills highlighted in India's National Education Policy 2020.
Improving textbooks to promote analytical and critical thinking skills, introducing compulsory hands-on project-based learning in secondary schools, incorporating cross-disciplinary topics with core subjects, incorporating industry/market/earnings-focused final-year projects, and boosting apprenticeship opportunities can significantly enhance students' potential for employment and entrepreneurship. Effective collaboration between the public and private sectors will be essential to ensuring inclusive growth in India.

Keywords: Employment Patterns, Vocational Education, Experiential Learning, 21st Century Skills, Narendra Modi's Vision.

"Skill education: A catalyst for inclusive growth, addressing the needs of the hour

G1-P5

Role of Research and Development in Academic - driven Startups

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Abstract

Academic driven startups are ventures that emerge from academic research institutions, typically universities or research centers. These startups leverage intellectual property, knowledge and expertise generated through academic research to develop commercial products or services. They represent a unique synergy between scholarly pursuits and entrepreneurial endeavors. The academic startup scenario in India has experienced remarkable growth in recent years, propelled by a convergence of academia, entrepreneurial spirits, and supportive government initiatives. India's rich academic landscape, encompassing prestigious institutions and research hubs, serves as a breeding ground for innovative startups that translate academic knowledge into practical solutions. Despite these positive aspects, many academic driven startups are facing challenges which results in them being a fiasco. The failure of academic driven startup can vary widely depending on several factors. According to various studies and industry analyses, a significant 10% of startups in India do not survive in their incubation years. The key factors behind this data include market fit, management team, technological risks and many more. To tackle these factors and curtail this percentage so that it does not affect academic driven startups, the role of research and development becomes enormous. It plays a crucial part in academic startups by fostering innovation, enhancing competitiveness, and advancing knowledge. Rigorous research and development not only enhance the credibility of academic startups by showcasing a commitment to quality and continuous improvement but also ensures the long-term sustainability of the operation by staying abreast of advancements in their respective field. In this paper, an attempt has been made to put light on the integration of research and development with academic driven startups, the former serving as catalyst for innovation, growth, and sustainability in the dynamic startup ecosystem for the latter.

Keywords: Intellectual Property, Ventures, Incubation, Sustainability, Innovation.

G1-P6

Collaboration between Start-ups and Academia

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Abstract

The intersection of startups and academia has emerged as a powerful force driving research and innovation across various industries. Traditionally, academia and entrepreneurship have been perceived as distinct worlds, with academia focusing on theoretical research and startups driven by practical applications. However, a growing number of successful collaborations between these two spheres are proving that their synergy can yield groundbreaking advancements, promote technology transfer, and foster economic growth. The most obvious advantage of collaboration between startups and academia lies in knowledge exchange. Universities are hubs of cutting-edge research and house experts in various fields, making them an abundant source of ideas and expertise. By collaborating with startups, academia can ensure that their research has practical applications and contributes to real-world problem-solving. In turn, startups benefit from access to groundbreaking research, allowing them to leverage new ideas and technologies for developing innovative products and services. The partnership between startups and academia has also played a crucial role in fostering an entrepreneurial culture. Universities that actively support and encourage entrepreneurship create an environment where students and faculty members are more likely to explore commercial applications of their research. This culture of innovation has led to an increase in the number of startup ventures originating from academic institutions, fueling economic growth and job creation. This article delves into the significance of collaboration between startups and academia, highlighting the benefits it brings society.

Keywords: Startups and Academia.

"Start-ups and academia: A symphony of collaboration, harmonizing innovation and knowledge."

G1-P7

Role of Incubations and Its Influence on Startup Development

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Abstract

Startups are important for economic growth and development. Entrepreneurs are also important in the process of structural change or industrialization, which is required for development. There is an increasing understanding of the need for industrial policy (IP) in overcoming a variety of startup failures that hinder innovative entrepreneurship in the creation of jobs and environmentally friendly industrialization. This means an industrial policy that highlights the importance of the connection between government and small businesses (the private sector). Startups can benefit from incubation centres by gaining access to new markets, consumers, and funding possibilities. It can also lead to more competition, which can promote innovation and enhance product and service quality. Startups may also have difficulty in obtaining finance and managing cross-border supply networks. As a result, understanding the role of incubators in the complexities of global commerce and establishing methods to deal with these difficulties is essential for innovators. Aside from that, incubations allow fir to gain access to new markets, consumers, and capital. Startups may strengthen their competitiveness and exploit their capabilities to achieve growth and success by engaging in global trade. Furthermore, to manage the complexity of the global market and thrive in international commerce, entrepreneurs must prioritize the formation of strong connections and networks. As a result, we may conclude that boosting the competitiveness of startup incubators is key to their success as international trade competitors.

Keywords: Incubations, Global Market, Industrial Policy, Startup, Industrialization.

"Incubations: Shaping the journey of startup development, nurturing ideas into impactful innovations."

G1-P8

Role of Engineers in the New Startups to Support Indian Economy

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Abstract

Unemployment is a critical issue that continues to challenge the economic landscape of India. Startups are key components of the National Innovation Syste (NISs) and have contributed to sustainable development in many countries. Recent studies show that India needs more than 100 million jobs a year. Startups may be small companies, but they play a major role in employment generation in India. When more jobs are created that generates more income for people and subsequently improves the economy of the country. In this era of technology, When the matter is relevant to startups, Engineering graduates are at an advantage. Engineers have a strong technical understanding, the potential for high growth and the ability to make a difference in the world. In the curriculum for engineering, addition of subjects on entrepreneurship along with technical subjects can help to acquire the skill and know-how supplements to turn their startup ideas into reality.

Keywords: Startup, Economy, Employment, Technology.

"Engineers: The architects of new startups, fortifying the pillars of support for the Indian economy."

G1-P9

Revolutionizing Education: A Comprehensive Review of the Machine Learning and Artificial Intelligence Era in Modern Learning

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Abstract

The modern education era is undergoing a transformative shift with the integration of Machine Learning (ML) and Artificial Intelligence (AI). This abstract explores the multifaceted impact of these technologies on contemporary education, highlighting the opportunities and challenges they bring to the forefront.

Machine Learning and Artificial Intelligence have propelled the concept of personalized learning, revolutionizing traditional teaching methodologies. Adaptive learning platfor, empowered by AI, cater to individual student needs, preferences, and learning paces, fostering a dynamic and tailored educational experience. This adaptability extends to intelligent content delivery, ensuring that educational materials remain current, relevant, and responsive to the evolving knowledge landscape.

Instructors benefit from AI-driven tools that automate grading processes, employ data analytics, and utilize predictive modeling to gain valuable insights into student performance. This data-driven approach empowers educators to make informed decisions, tailor teaching strategies, and enhance the overall quality of instruction.

The integration of AI in education extends beyond the physical classroom, breaking down geographical barriers through virtual learning environments and AI-powered educational tools. Virtual assistants provide additional support, facilitating interactive and engaging learning experiences, thus democratizing access to quality education on a global scale.

However, the incorporation of ML and AI in education is not without challenges. Ethical considerations, privacy issues, and the potential for algorithmic biases demand careful navigation. Striking a balance between leveraging the benefits of these technologies and ensuring ethical standards is paramount to fostering a responsible and equitable educational landscape. In this article, we describe the role of AI, ML background and Impact in education sector.

Keywords: AI, ML, Modern Education, Background, Impact.

G1-P10

Implications and Insights: Artificial Intelligence and Machine Learning's Revolution in Academic Startups

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Abstract

The current research delves into the important implications and groundbreaking discoveries that arise from the combination of AI and ML within the academic startup environment. This essay examines how, as technology continues to alter the face of entrepreneurship, AI and ML have spurred a paradigm shift in academically driven businesses, encouraging innovation, productivity, and sustainability.

The study starts with an overview of the evolving academic startup landscape and acknowledges the growing trend of combining AI and ML technologies. The intricate impacts of these technologies on several startup operations factors, including market penetration, scalability, and research and development, are then examined.

Through case studies and empirical analyses, the research delves into the practical implications of AI and ML, demonstrating how these technologies enhance decision-making processes. Insights are gleaned from successful implementations to illustrate the potential of AI and ML in converting traditional methods to entrepreneurship at academic institutions using real-world examples. It also emphasizes how AI and ML could aid in bridging the knowledge gap between theoretical study and real-world applications.

In summary, this study offers valuable insights into how artificial intelligence and machine learning could transform academic startups. It highlights the need for ethical and strategic use of these technologies and offers guidance to stakeholders in academia, business, and policymaking. As artificial intelligence and machine learning continue to push the boundaries of innovation, this research provides a roadmap for navigating the shifting landscape of academic entrepreneurship in the digital age.

Keyword: AI-ML Integration, Academic Startup Transformation, Innovation and Productivity,Ethical Technology Implementation.

G1-P11

Developing an Ecosystem for Inculcating Entrepreneurial Culture at Schools

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Abstract

India, known for its strong ancient education system of Gurukuls and renowned Universities such as Nalanda and Takshshila, has traditionally prioritised higher education. These institutions have remained an important part of the country's fabric, instilling in pupils' specific skills and knowledge that have fashioned them into pillars of society and contributors to the country's economic growth. However, according to industry observers, India has a lot of potential but has not been able to tap all of that into some ground-breaking and pioneering products. Many start-ups that could have blossomed into massive corporations died an untimely death. One of the many reasons why the start-up revolution has been delayed in India is the lack of an ecosystem for entrepreneurship culture. Unfortunately, the country's schools, colleges, and universities have been unable to give students an environment that fosters and encourages creativity, ideation, and invention. This paper ai to study the need for the development of Start-up culture in schools. While studying the various factors the authors have tried to develop a framework for the ecosystem required to develop the said culture in schools.

Keywords: Entrepreneurship, Ecosystem, Education, Culture, Start-ups.

Nurturing innovation, shaping academic startups, and fostering an ecosystem of progress."

G1-P12

Skill Development as per the Need of Hour

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Abstract

In the rapidly evolving landscape of the 21st century, characterized by technological advancements, globalization, and dynamic economic shifts, the imperative for skill development has become more pronounced than ever before. This abstract explores the significance of aligning skill development initiatives with the current needs of the hour, focusing on the multifaceted dimensions of education, workforce, and societal demands.

The modern era is witnessing unprecedented transformations across industries, with emerging technologies such as artificial intelligence, automation, and data analytics reshaping job requirements. As a result, the skill sets demanded by the job market are continually evolving, emphasizing the need for individuals to acquire adaptable and future-proof skills. Educational institutions and training progra must reorient their curricula to incorporate a blend of technical competencies, critical thinking, and soft skills to prepare individuals for the diverse challenges of the contemporary workforce.

Furthermore, globalization has interconnected economies and workforces, necessitating a set of skills that transcends geographical boundaries. Cross-cultural communication, global awareness, and proficiency in virtual collaboration have become integral components of skill development to foster a globally competent workforce. The ability to navigate diverse cultural contexts is crucial for individuals to thrive in an interconnected world and contribute meaningfully to their respective fields.

The societal landscape is also undergoing significant changes, with an increasing emphasis on sustainability, social responsibility, and ethical considerations. Skill development initiatives must incorporate values such as environmental consciousness, social equity, and ethical decision-making to address the broader needs of society. A holistic approach to skill development involves not only technical proficiency but also a commitment to social and environmental responsibility.

In conclusion, skill development aligned with the needs of the hour is pivotal for individuals, institutions, and societies to thrive in the 21st century. The ability to adapt to technological advancements, navigate a globalized world, and contribute responsibly to societal well-being defines the success of individuals and the collective progress of communities. As we continue to navigate an era of unprecedented change, prioritizing skill development in tune with contemporary demands is essential for building a resilient, innovative, and inclusive future.

Keywords: Contemporary Skill Development, Global Competence, Societal Responsibility.

"Skill development: The need of the hour, empowering individuals for a brighter tomorrow."

G1-P13

V2G as Academic Startup for Clean Environment

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Abstract

Sustainable development is considered as a "fluid concept" (IISD, 2010, p. 6) as it has been interpreted in multiple ways. Most interpretations of the term can be classified as either "technological" or "ecological" (Orr, 1992). The technological approach emphases on reducing the adverse impact on the environment through technological advancements and new legal rules and regulations, while following the same socio-economic growth trajectory. This technological approach is top-down in nature, as it is driven by experts in the fields of science, technology and law, instead of local community. The ecological approach, on the other hand, is bottom-up in nature, as it argues for social transformation by incorporating both expert driven science and technology-based knowledge as well as the efforts of common citizen. Ecological approach thus requires, collaborative efforts of both experts and people of the community. Presently, the technological approach is more widely accepted and valued, but there is dire need to shift our attention to the ecological approach which often goes unrecognized and underappreciated. To promote this United Nations dedicated a decade for Education for Sustainable Development (ESD), famously called DESD 2005-2014, which required "the concerns about sustainable development to be inculcated through education" and the efforts continue with the commitment of the nation's towards "Global Action Programme" on ESD (UNESCO, 2005). This paper presents one such model of a Green School, empowering young people to take responsible action to reduce, reuse and recycle waste with the overall long-term goal to be a zero-waste school. The researcher studied manuals, case studies, reports, and guides of fifteen green schools or eco-schools or sustainable schools from around the world, and primary data was collected from the five Jawahar Navodaya Vidyalaya of Delhi NCR using the tools developed by the researcher. The qualitative data collected from both secondary as well as primary sources were analyzed based on the principles of framework analysis to identify the best strategies for managing waste in schools. Further using the 'Whole School Approach', a thematic framework was prepared, and indexing was done using colour coding. Results present a model of a green school, engaging all stakeholders, in every aspect of school life, namely Governance, Teaching and Learning, Community Partnerships & Facilities and Operations, to effectively manage waste in school.

Keywords: Ecological Approach, Environmental Education, Zero-waste School, Whole School Approach.

G1-P14

Automatic Attendance System as a Part of Skill Education System

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Abstract

The dynamic world around us has transformed at a fast speed after the pandemic. With the growing dominance of technology, communication, and globalization, the global job markets have seen a major change in the nature and scope of work (jobs/employment). All in all, this means that 21st century skills for students are a passport to a successful career pathway in the upcoming years. The skill development progra also help the youth identify their interests and talents. It helps them develop flexibility, reliability, productivity, and efficiency. All of this goes on to improve their chances of successful careers and widen their career opportunities. One of the new technological advancements in attendance system is the example of skill development. This paper presents an RFID based automatic attendance system. The attendance system will work by scanning the ID card. The existing conventional attendance system requires students to manually sign the attendance sheet every time they attend a class. As common as it see, such a system lacks automation, where several proble may arise. Having a system that can automatically capture a student's attendance by flashing their student card at the RFID reader can really save all the mentioned troubles. The RFID reader, which is a low-frequency reader (125 kHz), is connected to the host computer via a serial to USB converter cable. The Time-Attendance System GUI is developed using Visual Basic.Net. The Attendance Management System provides the functionalities of the overall system such as displaying live ID tags transactions, registering ID, deleting ID, recording attendance and other minor functions. This interface was installed in the host computer.

The main objective of this paper is to record the attendance of students using RFID tags. Each student is provided with his/her authorized tag to swipe over the reader to record their attendance. In classroo, time is wasted in roll calls as it is done manually. In this proposed system, authorized students are given an RFID tag. This tag contains an integrated in-built circuit that is used for storing, processing information through

modulating and demodulating of the radio frequency signal that is being transmitted. Thus, the data stored in this card is referred as the identification/attendance of the person. Once the student places the card in front of the RFID card reader, it reads the data and verifies it with the data stored in the microcontroller from 8051 family. If the data matches, then it displays a message on the LCD confirming the entry of that student else displays a message denying the attendance. The status of a student's attendance can be retrieved from this system by pressing the status button interfaced to the microcontroller. Hence, a lot of time is saved as all the students' attendance is directly stored in the data base. The paper can be further enhanced by adding features like sending an S of the daily attendance of students to their parents.

Keywords: RFID Attendance System, Skill Development Program,21st Century Skills,Automation in Education.

"Harnessing the sun's embrace for sustainable energy, illuminating rural India's path to a brighter tomorrow."

G1-P15

The Challenges and the Lessons Learned from the Experiences of Successful Startups in Business Communication

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Abstract

Start-ups often encounter unique challenges when formulating their communication approach.Frequently, the identities of the founders, the company, and the products remain relativelyunknown. This holds particularly true during the initial phase of establishing a business, whichis the focal point of this essay. It is of utmost importance to comprehend the target audiences forcommunication and tailor the strategies accordingly. The analysis of the different stages ofbusiness inception and the notable recipients of start-up communication strategies is followed bythe presentation of two actual instances. Ultimately, the derivation of advice for thecommunication strategy of start-ups is presented. The approach taken by these startups ischaracterized by a willingness to take risks and pursue high-reward opportunities. Thisapproach, however, often results in a high rate of failure and only a small percentage of startupsactually achieve success. Despite these challenges, it is important to recognize that the overallcontribution of these startups is crucial to the innovation and advancement of various industries.Hence, it is intriguing to observe that existing literature frequently overlooks the valuablelessons that can be learned from studying the experiences of failed startups. Instead, theemphasis is often placed on successful firm and quantitative studies that aim to identify factorsthat contribute to their success.

Keywords: Startups, Risks, Entrepreneurs, Failure.

G1-P16

Role of Academic - driven Entrepreneurships/Startups in Shaping Economy and Fostering Innovation

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Abstract

Academic-driven startups play a vital role in shaping the economy of a country and fostering innovation. Such startups are the embodiment of the synergy between academia and entrepreneurship, propelling us towards a future of unprecedented possibilities.

In the realm of academic-driven startups, we witness the transformation of knowledge intotangible solutions. Universities cannot remain just as institutions for class room learning; theyare hotbeds of ground-breaking ideas waiting to be unleashed. When these ideas transitionfrom the lecture hall to the open market, they become catalysts for economic growth.Startups bridge the gap between theory and practice, taking research findings and turningthem into products and services that address real-world challenges. In doing so, they createjobs, stimulate local economies, and contribute to the overall prosperity of our society.

Moreover, the culture of innovation embedded in academic startups is contagious. It fostersan environment where creativity thrives, encouraging a constant pursuit of improvement andadvancement. As these startups push the boundaries of what is possible, they inspire others tofollow suit, creating a ripple effect that elevates our collective innovative spirit.Let's not forget the role of academic startups in attracting talent and retaining expertise. Theybecome magnets for bright minds, offering a platform for researchers and students to activelyengage in shaping the future. The symbiosis between academia and startups creates adynamic ecosystem where knowledge is not confined to textbooks but in actively shapingindustries and markets.

1. **Innovations of SVSU:**(A brief overview/ presentation of our Super 30EntrepreneurshipDevelopment Programme)
2. **Best practices of SVSU:**(Showcase some of SVSU's best practices)

Innovative Support at Universities: There is a transformative potential of exploring incubation support within universitysystem Universities are not just hubs of education; they are breeding grounds for innovationand entrepreneurship. By integrating robust incubation support into the university ecosystem,we will be able to catalyze a paradigm shift in how we nurture and harness the potential ofbudding entrepreneurs.

Universities are treasure troves of talent, brimming with students and faculty members whoseideas have the power to reshape industries and solve real-world problems. However, thejourney from ideation to implementation can be challenging. This is where incubationsupport steps in, providing the necessary scaffolding for these nascent ideas to flourish.

Imagine a university environment where students and faculty members have access to state-of-the-art facilities, mentorship from seasoned entrepreneurs, and a network that extendsbeyond the classroom. By exploring incubation support within universitysystem, we createan ecosystem that not only encourages creativity but also empowers individuals to translatetheir visions into tangible, impactful ventures. Moreover, this approach bridges the gapbetween academia and industry. It's a collaborative effort that ensures the knowledgegenerated within the walls of a university doesn't stay confined but finds practicalapplications in the real world. In doing so, we prepare students not just for exam but for thedynamic challenges of the professional landscape.

To make this vision a reality, it requires a concerted effort from academic institutions,industry leaders, and policymakers. By fostering an environment where innovation is not onlyencouraged but also supported, we lay the foundation for a future where our universities arenot only centers of learning but hotbeds of entrepreneurial excellence too.

Rural Livelihood Development through Universities: Rural livelihood development is a powerful avenue for fostering economic growth anda university skilling ecosystem. In the intricate tapestry of our nations, rural communities oftenhold the key to untapped potential and sustainable progress. By leveraging the educationalresources of our universities, we can channel transformative skills to these often-overlookedregions, creating a ripple effect of positive change.

Universities, as centers of knowledge and learning, play a pivotal role in shaping the future.It's time to extend this influence beyond urban boundaries and into the heart of rural areas.Imagine a scenario where universities actively engage with rural communities, offeringtailored skill development program that align with local needs and aspirations.

By providing targeted skilling initiatives, universities can empower rural populations with thetools and knowledge necessary for economic self-sufficiency. This doesn't merely meanequipping individuals with technical skills; it encompasses a holistic approach, incorporatingentrepreneurial, agricultural, and community development skills.

Skilling initiatives tailored to rural contexts can unlock the potential of local industries, whether it be agriculture, craftsmanship, or sustainable practices. As

individuals gainexpertise, they not only enhance their personal prospects but also contribute to the overallgrowth and resilience of their communities.
Moreover, this approach aligns with the idea of sustainable development. It's aboutcultivating skills that harmonize with the local environment, preserving traditional practiceswhile integrating modern methodologies. The result is not just skill development; it's thecreation of a self-sufficient, empowered rural population capable of steering its own destiny.

To make this vision a reality, collaboration between universities, local governments, andcommunity leaders is essential. By pooling resources and expertise, we can establish aframework that ensures the seamless integration of university skilling progra into thefabric of rural life.

To conclude,
(i) The impact of academic-driven entrepreneurships and startups are not just felt inboardroom and profit margins, but they reverberate through the fabric of oursociety, influencing how we live, work, and interact. As we engage with thesestartups, we recognize them not just as business ventures but as agents of positivechange, driving us towards a future where innovation is not a luxury but a way oflife,
(ii) Let us embark on the journey of exploring incubation support within ouruniversitysystemBy doing so, we not only empower the next generation ofentrepreneurs but also position our universities as dynamic engines of innovation,driving positive change and contributing significantly to the economic and socialfabric of our society, and
(iii) We shall recognize the transformative potential of rural development throughskilling the rural youth and community. By harnessing the educational process ofour universities, we have the opportunity to kindle a flame of progress thatilluminates even the remotest corners of our nations. This isn't just abouteducation; it's about empowerment, sustainability, and the creation of resilientcommunities.

Keywords: Academic Entrepreneurship, Incubation Support,Rural LivelihoodDevelopment,Skilling Ecosystem.

G1-P17

Induction of Start Up Culture on School Level

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Abstract

Government's ambitious 'Startup India' campaign is essentially geared towards promoting the entrepreneurial culture in our country. But it will be more effective when it will be enforced at school level as youth is the future of India. The bootstrapping spirit has been missing in our country, partially due to lack of motivating governmental incentives and rest due to our age-old tendency to prioritise jobs over charting the new innovative course. Turbocharging the campaign; Startup culture in its full bloom would generate employment as well as pull the GDP up and when it will be at school level it will nurture their future and they have clear understanding from the beginning. It is important that the Startup spirit is instilled in students adequately to stop their reliance on ready-made employment opportunities. Students should be driven by the urge to utilise their potential for adding newer dimension to the Startup landscape. Spreading the Startup culture among blossoming youth is essentially concerned with embedding the passion for exploring newer avenues of professional success by optimising on acquired skills. Students possess the right blend of enthusiasm and knowledge to benefit maximally from the government's Startup related support from the beginning.

Keywords: Startup India Campaign, Innovative, Opportunities.

"Start-up culture on school level: Nurturing young minds, planting seeds for a future of innovation."

G1-P18

Biobased Bioplastic Printability: New Ecofriendly Approach

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Abstract

Guru Jambheshwar University of Science & Technology name after famous saint and environmentalist Guru Jambheshwar Ji Maharaj (15th Century Hindu Saint) to promote his lessons and best environmental practices. In view, university has devised its best practice with the vision to promote awareness about Environmental issues and Sustainability with thespecial emphasis on green practices which includes reducing carbon footprint, promotingbiobased biodegradable plastics, waste management and Rain Harvesting. During 4th cycle ofNAAC Accreditation, university own with its vision:

• "GJUST has undergone Environment and Green Audit. The focus is on Renewableenergy, Waste management, and Rainwater Harvesting and Green practices. The aimis to develop awareness of Environmental issues and Sustainability. This translatedinto a healthy increase in reliance on Renewable energy sources."In line with the vision of university best practice, the Department has taken green initiativefor promoting printing on biobased plastics and printing using biobased inks. GoI has takenan initiative to attain zero carbon footprint by 2080. So, to achieve this goal utility of bio-based bioplastic and biobased ink will be amongst the most appropriate and best practices.

Keywords: Environment Friendly, Carbon Footprint, Green Initiative, Biobased bio-degradable Plastics, Printability, Biobased Ink.

G1-P19

Blockchain Revolution: Transforming Industries Through Transparent Innovation

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Abstract

The development of advanced technology has led to changes in the current state of data creation, capture, and storage methods. With the potential to significantly improve security, blockchain technology has begun to ensnare numerous organisations in the fields of finance, government, healthcare, supply chains, and cyber security. To study the applications of blockchain technology is the main objective of the research study and covered the challenges and barriers of Blockchain technology in today's business era. This study is conceptual in nature and based on the review of different studies. This study finds out blockchain technology is widely used in the Healthcare Industry, supply chain management, education, banking and insurance, government and Farming and Fishing Industry.

Keywords: Decentralization, Peer-to-peer, Smart Contract, Blockchain.

"Blockchain revolution: Redefining industries, ushering in transparent and transformative innovation."

G1-P20

Provably Secure Identity-based Quantum SignatureScheme with Strong Security

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Abstract

The rapid development of quantum computers led to a competitive effort to develop quantum technology in both academic and industrial sectors. Quantum cryptography is a crucial instrument for ensuring secure services in the context of quantum communication. The designated verifier signature, a type of quantum cryptography, is highly advantageous in applications such as the Internet of Things (IoT) and auctions. This paper proposes a quantum-designated verifier signature (QDVS) system based on identification. The protocol we have developed incorporates security measures such as protection against eavesdropping, prevention of non-repudiation, designated verification, and defence against hidden sources assaults. Furthermore, it is safeguarded against fraudulent assaults, unauthorised resending, and impersonation. The suggested approach leverages the advantages of conventional designated verifier signature schemes. In the proposed scheme, the signer employs their private key to encrypt a message, while the designated verifier verifies the associated QDVS using the signer's public key, which is represented by their name or email address. This approach simplifies the key management of the quantum signature system. The signing and verification process utilises an entangled state, but the verifier does not need to compare quantum states. A comprehensive comparative examination with other similar schemes enhances the level of security for the proposed project. Moreover, the efficacy and practicability of the suggested method are confirmed by quantum simulations.

Keywords: Fraudulent Assaults, Key Management, Conventional Designated Verifier Signature Schemes.

G1-P21

Enhancing Security in The Metaverse: An Ecc-based Three-factor Authentication Approach

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Abstract

Metaverse is revolutionizing the future iteration of technology with the potential to ameliorate efficiency and innovation drastically. It fashions engaging spaces for user interaction that simulate the real world by integrating augmented and virtual reality. Metaverse furnishes immersive interactive experiences, unrestricted time and space, visualizations, minimal learning costs, and endorses communication. A metaverse offers various services, such as virtual environments and avatars for telecommuting, education, and gaming. Yet, to access services, users must register with the server, where the registration requires user's identity, password, and personal information. Additionally, the user interaction in metaverse is mediated through avatars over public channels, fabricating opportunities for security attacks such as replay and impersonation attacks. Consequently, we propose a secure mutual authentication scheme for safer user-server and avatar-avatar interactions utilizing Elliptic Curve Cryptography (ECC) and fuzzy extractor. The security of protocol is examined with Burrows-Abadi-Needham (BAN) logic, Real-or-Random (ROR) model, and Automated Validation of Internet Security Protocols Applications (AVISPA). We also conduct a comparative analysis of the computational and communication costs and the security features of the proposed scheme with pre-existing works. Hence, the suggested protocol offers magnificent security and efficiency, making it suitable for the metaverse environment.

Keywords: Metaverse, Authentication, Avatar, Fuzzy Extractor, BAN Logic, AVISPA.

Entrepreneurship

Session Chairs

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G2-P1

Role of the Universities in Industrial Development through Startup Programmes

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Abstract

Startups are the main components of the National Innovation Systems (NISs). It has made apivotal contribution to sustainable development in most countries because of the creation ofemployment opportunities and its contribution to the national Gross Domestic Product(GDP). Hence, universities across the world have identified the importance ofentrepreneurship training for students to help enhance their capability to develop theirstartups. This study tries to find out the various ways to develop the effectiveness of studentstartups to induce industrial development. The approach adopted was the development of ahybrid model to optimize the development of entrepreneurship skills in university studentsbased on existing theories and literature. The study was based on primary data collected from8 universities in Haryana state. The study shows that research funds, size of dedicated faculty,size of dedicated staff (academic and non-academic), practical entrepreneurship courses, andnon-regular curriculum startup activities are the main factors responsible for the profitabilityof student startups.

Keywords: Student Startups, Collaboration, Industrial Development, Change of Ownership, Entrepreneurship, Simulation.

"Incubations: Shaping the journey of startup development, nurturing ideas into impactful innovations."

G2-P2

Need of Cross DisciplinaryCollaborations in Academic Startups

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Abstract

For Academic or non-academic startups, one needs to work on diversified areas or diversified systems which need versatile people. But doing the all the things by one person is quite time-consuming as well as it needs versatile personalities, which is almost impossible nowadays.

Cross-function, cross-sector collaborations are very much essential in new age startups. Now a days in challenging and evolving environments even grass root innovations and startups need very much affiliation with Graphic Designing and Digital media experts. In the next few pages, we will discuss cross function teams on a case-to-case basis.

Keywords: Grass Root Innovations, Cost optimization, Cash Burning, Rurban etc.

Shaping the economy through the pivotal role of academic-driven startups."

G2-P3

Government Initiative and Policies for Promoting Academic - driven Startups - Case of Punyashlok Ahilyadevi Holkar Solapur University Solapur and Its Incubation Centre

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Abstract

Punyashlok Ahilyadevi Holkar Solapur University Solapur is a State University under Government of Maharashtra which has initiated several drives for Engaging and mobilization the academicdrivenstartups particularly Startup Yatras, Envirothon, Skeleton were conducted for forstaring the Innovation allied Entrepreneurship in one of the Most draught affected areas of the Maharashtra.

Government initiatives sowing the seeds for a thriving university startup ecosystem.

G2-P4

Role of National Education Policy 2020 in Fostering Academic Startup Ecosystem

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Abstract

India stands as the second-largest startup hub globally after UnitedStates, showcasing a paradox where academic startups remain on theperiphery despite the overall success of the startup ecosystem. This paperaims to dig into the challenges faced by academic startups in India, evaluateexisting government initiatives, and explore the potential provisions of the NewNational Education Policy 2020 (NEP 2020) that contribute to fostering a morerobust academic startup culture. Additionally, it will highlight factors thatmade some Indian institutes fertile for entrepreneurship within an academicsetting.

Keywords: National Education Policy, Academic Startup, Entrepreneurship, Startup.

Nurturing innovation, shaping academic startups, and fostering an ecosystem of progress."

G2-P5

A Comprehensive Overview and Analysis of Academic-driven Startup Failures and the Lessons Gained Through Them

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Abstract

A Comprehensive Overview and Analysis of Academic-Driven Startup Failures and The Lessons Gained Through Them

The highly dynamic and ever-changing landscape of our modern economy allows for ingenuity and creativity to act as key leading factors in further development. As such, it may be observed that startups act as the foundational spearheads, driving innovation and economic growth through their endeavors. Among these, those startups in which academic institutions show intimate involvement in and after the venture's creation - commonly known as Academic-driven startups (or ASUs) - stand out, harnessing the vast knowledge of academia to tackle pressing societal challenges and drive technological progress.

It is, however, clear to see that the journey to success is filled with obstacles, and a considerable number of pioneers fall short of their full potential. Examining startup stumbles to unveil their causalities and secrets is crucial for nurturing a thriving ecosystem that propels entrepreneurial success. A new set of interesting challenges arise when examining the class of startups that are Academically driven, due to their unique domain of functionality. Analyzing the challenges faced by ASUs may serve in providing a set of insights that are densely correlated to both business as well as intellectual and technological fields.

The proposed research paper embarks on an intricate examination of the complex and fascinating realm of ASU failure, unraveling the densely laid challenges faced by the academically propelled endeavors, by drawing on compelling case studies and hard-hitting empirical data. The study allows for the pinpointing of key areas where these ventures along with startups in general often stumble—be it a mismatched market, proprietary issues faced by inventors, or a reluctance to adapt and pivot, to name a few. By critically examining these factors, we not only shed light on the hurdles faced

by these startups but also offer invaluable insights and lessons. Further, by showcasing the lessons learned from these setbacks, the research can emphasize the vital role of thorough market research, astute classification and self-awareness, shrewd financial management, and resilient leadership, among other fundamental driving concepts.

The paper concludes with a resounding call to action, highlighting the indispensable role of academic institutions in crafting a supportive ecosystem. By providing access to resources, mentorship, and networking opportunities, universities become catalysts, empowering students, and researchers to morph innovative ideas into triumphant ventures that not only contribute to economic growth but also propel societal progress.

Keywords: Startup Failures, Academic- driven Startups, Case Studies, Analysis, Lessons, Success.

"In every failure, a lesson; in every lesson, a pathway to success for academic-driven startups."

G2-P6

Optimization of Biogas Production by Anaerobic Co-digestion for Sustainable Energy Development in India

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Abstract

Energy security, improved energy access, economic development, and climate change mitigation arethe main goals of India's use of renewable energy. Sustainable development is possible throughsustainable energy use and ensuring citizens have access to reliable, sustainable,affordable, andmodern energy. Biogas technology is useful technology to produce a sustainable and superior fuel.Solid waste (MSW) is one of the major components of India's flagship mission "Swatch BharatAbhiyan" Lifestyle changes, increasing urbanization, andrapid economic growth all contribute tohigh waste generation in India. People in urban and rural areas use biomass fuel to meet their energydemand. This demand is met by land degradation and deforestation resulting in various health andsocial problems and excessive emissions of greenhouse gases. Improper collection, unscientifictreatment, and low use of technology-basedsolutions to deal with solid waste led to threats such asenvironmental degradation, and air, water, and soil pollution. Biogas technology represents asustainable method of urban and domestic energy production, especially in developing countries. Thispaper highlights the overview of biogas generation in India and outlines method used to optimize thebiogas generation by anaerobic co-digestion.

Keywords: Urbanization, Anaerobic digestion, Solid Waste, Biomass Energy, Renewable Energy,VOS Viewer.

G2-P7

A Sustainable Solar Energy Source to Meet Energy Demand in Rural Area

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Abstract

The use of renewable energy (RE) as a future resource of energy is attracting significantattention worldwide. Solar energy is one of the abundantly available and environmentally friendly RE sources worldwide. The study highlights applications of solar energy and rank ofdifferent states of India in terms of solar energy potential. It is expected that solar energy willcontribute significantly to attainment of energy solutions for sustainable development. India'svast solar energy potential offers a clean and viable option of replacing the polluting, rapidlyrunning out, and harmful conventional energy sources for producing power. This paperpresents the solar energy overview in India, present status of solar energy and its importanceand different startups of solar energy in India. The study also highlights the sustainability ofsolar energy including economic and environmental development.

Keywords: Solar Energy, Renewable Energy, Sustainable Development, Startups.

"Harnessing the sun's embrace for sustainable energy, illuminating rural India's path to a brighter tomorrow."

G2-P8

Government Initiatives in Fostering Academic- driven Startups: Contributions, Challenges, and Barriers

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Abstract

This study aims to comprehensively examine the role of government policies and initiativesin nurturing the startup ecosystem, with a specific focus on promoting academic startupsamong students and faculty members in India. The research seeks to identify the keyinitiatives implemented by the government to support entrepreneurial endeavours withineducational institutions and evaluates their impact on the emergence and success of startups.

The primary objective involves an in-depth exploration of existing government policiestargeted at promoting innovation and entrepreneurship within academic institutions. Thestudy analyses the strategies employed by the government to encourage students and facultymembers to actively engage in startup ventures. This includes an examination of financialincentives, mentorship programs, and regulatory frameworks designed to facilitate thecreation and growth of academic startups.

Furthermore, the research also aimed to identify and analyse the challenges and barriers facedby startups in India. Through a comprehensive analysis of the impediments faced byentrepreneurs, the study seeks to provide a holistic understanding of the factors that mayhinder the success of academic startups. This includes regulatory complexities, access tofunding, market competition, and other pertinent issues that entrepreneur's commonlyencounter.

Keywords: Government Policies, Financial Incentives, Mentorship Programs and Challenges.

G2-P9

Challenges and Barriers Faced by Women Entrepreneurs: An Empirical Investigation

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Abstract

The aim of this research is to explore the difficulties that women entrepreneurs face when it comes to achieving success in their businesses. In this study, we propose a framework and examine the key factors—namely, "Social and family support," "Emotional intelligence," "Stereotyping," and "Knowledge"—that were major challenges faced by women entrepreneurs. The data were collected by distributing questionnaires with a Likert scale ranging from 1 to 5 to a sample of 150 women entrepreneurs. A convenient sampling technique had been used for this purpose. Based on findings, it is strongly recommended that the government should create policies aimed at promoting women's entrepreneurship through effective and practical training programs. This study can be particularly beneficial for women entrepreneurs who wish to improve themselves. They can achieve this by investing in their own knowledge through participation in academic programs and industry-specific networking conferences. Furthermore, authorities responsible for entrepreneurial development can use the insights from this study to design and implement human resource development programs that empower women entrepreneurs to achieve greater success. For future researchers, we suggest expanding the sample size and focusing on specific types of small and medium-sized enterprises within specific sectors or industries. Additionally, utilizing a mixed-method approach for data collection can lead to more comprehensive and meaningful conclusions.

Keywords: Women Entrepreneurship, Barriers, and Challenges.

G2-P10

Government Initiatives and Policies for Promoting Startup Ecosystems in Universities: Haryana

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Abstract

This abstract explores the various initiatives and policies implemented by governments globally to cultivate and support thriving startup ecosystems. Governments recognize the pivotal role startups play in driving innovation, economic growth, and job creation. This study provides an overview of the diverse strategies employed to encourage entrepreneurial ventures, with a focus on initiatives targeted specifically at students. The first category of government interventions involves financial support mechanisms. This includes grants, subsidies, and low-interest loans tailored to alleviate the financial barriers faced by student entrepreneurs. Access to capital is identified as a crucial factor in enabling students to transform innovative ideas into sustainable businesses. Secondly, the establishment of incubators and accelerators forms a key aspect of government efforts. These dedicated spaces provide students mentoring, resources, and networking opportunities, fostering an environment conducive to startup growth. The study explores the impact of such support structures on the development and success rates of student startups. The third dimension of government policies encompasses educational initiatives. Embedding entrepreneurship education within the academic curriculum equips students with the skills and knowledge needed for business establishment and management. The study investigates the effectiveness of such educational programs in nurturing a culture of innovation. The fourth area of focus involves regulatory measures aimed at simplifying processes for business registration and licensing. Governments recognise the importance of reducing bureaucratic hurdles to encourage more students to venture into entrepreneurship. Furthermore, the study delves into the role of research and development support. By providing funding for research projects with commercial potential, governments aim to bridge the gap between academia and industry, fostering a culture of innovation and knowledge transfer. The abstract also touches upon the significance of networking events, conferences, and startup competitions organized by governments. The abstract also touches upon the significance of networking events, conferences, and startup competitions organized by governments. These platforms facilitate knowledge exchange, and collaboration, and provide avenues for startups to gain visibility and attract potential investors.

Keywords: Ecosystem, Entrepreneurial Ventures, Educational Initiatives, Startup Competitions, Curriculum.

G2-P11

Government Incentives and Policies for promoting Academic - driven Startups

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Abstract

Entrepreneurship plays an important role in the economic development of a nation, especially in developing as well as emerging economies like India. The demographics, economic environment, and culture of entrepreneurship present in India make it an ideal and safe environment for entrepreneurship. Entrepreneurship in India has regularly grown significantly, and startups are beginning to have a valuable impact on the economy. In urban and rural areas, there may not be an impressive rise in wage employment, so the government emphasizes enough scope for self-employment and entrepreneurs.

The Government of India has undertaken several initiatives and policy measures to foster an environment and culture of innovation and entrepreneurship in the country last many years. In recent years, the government of India's new programs and opportunities for innovation have been created through engaging with academia, industry, investors, small and big entrepreneurs, non-governmental organizations, and the most underserved sections of society.

The startup of India in the world ecosystem has become vibrant and mainstream in many ways in terms of job creation, customer access, in terms of solving problems of consumers, and creating the best products. The Government is implementing policies for the promotion and development of start-ups which include providing concessional credit, training in entrepreneurship development, marketing assistance, research support, etc. to inculcate entrepreneurial culture, especially with first-generation entrepreneurs.

In this research paper we will discuss those initiatives and policies promoting academic-driven startups taken by the Government of India to foster startups, the challenges faced by startups, and the measures adopted to overcome these challenges.

Keywords: Indian Entrepreneurship Ecosystem,Government Initiatives,Academic-driven Startups,Startup Challenges and Solutions.

G2-P12

Promoting Skill Education: A Developmental Perspective

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Abstract

It is necessary to comprehend teenagers' learning experiences in life skills education and to discover which skills are most successful in tough situations. As a result, research into how young people gain information and skills through life skills programs and subsequently adopt good mind-sets and behaviors is scarce. This should be regarded as an important research concern. More effort is needed to ensure suitable implementation of life skills to achieve long-term outcomes. Recognizing how life skills education information, skills, and values contribute to the healthy transition to young adulthood will provide value to life skills education programs in a range of contexts. Examining youth events in the context of the individual's embedded culture is crucial for understanding how people from varied roots transform life skill knowledge into reality. As a result, further study is required to combine life skills education into certain social and cultural environments. Studies can be framed via the lens of experiences, such as teenage storytelling, the investigation of various points of view, and the investigation of unique social situations that impact their life skills and experiences. Such strategies can provide a more comprehensive picture of program effectiveness.

Keywords: Life Skills, Skill Education, Youth Events, Social Situations.

"Skill education: A developmental perspective shaping minds, building futures."

G2-P13

Opportunities for Electric Vehicles in Indian Market

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Abstract

Electric vehicles (EVs) are the emerging transport for Indian market due critical issues like climate change, engine emissions, energy security and dependency on other countries. The automotive sector in India is dominated by two-wheelers (scooters, motorbikes) and three wheelers (autos and rickshaws) that play a significant role in last mile mobility in the country. The EV transition in India opens a range of opportunities for services, vehicles, battery supply chain, charging infrastructure, and the electricity system. In general, these opportunities would be best pursued through a joint venture or other partnership with a local entity. The Indian (mass) market is very price sensitive. Working to incorporate local components to access subsidies can help as well as highlighting potentially cheaper total ownership costs. EVs are generally well suited to Indian driving conditions; points to emphasise for product launch. However, ensuring that safety and performance is delivered in the context of a variable climate, poor roads and a start-stop driving style is important. Test-drives can help provide reassurance. Prospective consumer customers have concerns about battery life and charging availability which are often not material given the likely usage profile in India. Nonetheless, software for route planning and information on charge point locations may alleviate concerns. The transition to electric mobility is a promising global strategy for decarbonizing the transport sector. India is among a handful of countries that support the global EV30@30 campaign, which targets to have at least 30% new vehicle sales be electric by 2030.

Keywords: Charging Infrastructure, Decarbonizing, Electric Vehicles, Electric Mobility, EV30@30 Campaign, Transport Sector.

G2-P14

Breaking Ground: Unveiling the Overlooked Challenge of Cultivating Agripreneurship Intentions in North Haryana's Rural Agrarian Community

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Abstract

This research paper delves into the nuanced challenges faced by the agrarian community inNorth Haryana, particularly among its youth, in embracing entrepreneurial pursuits. Aprevalent trend among the youth is aspiring to relocate abroad. It seems like there might be afew typos or errors in the text you provided. Land is a fundamental resource, yet why don'tthe people of this community move towards agripreneurship? Previous articles onentrepreneurial intentions have extensively covered various factors influencing motivations tostart an entrepreneurial venture or a business. However, it appears that certain issues,particularly those prevalent in rural agrarian communities, have been overlooked. Asignificant revelation is the influence of the youth's upbringing or caste, which, although notexplicitly prohibiting them from venturing into sales-related businesses, instills apreconceived notion that they lack the ability to excel in such endeavors. They resistdiversifying crops, adhering to traditional sugarcane, wheat and rice cultivation, seekinggovernment-backed channels for sales. There exists a pervasive belief that tasks associatedwith sales, including connecting with clients, procuring materials, and selling products, areinherently challenging and not suited for them. Furthermore, this apprehension is fuelled by afear of being ridiculed by peers and a obsessive societal inclination towards traditional safesecure jobs.

The paper underscores the need for a paradigm shift in societal perspectives, urging areevaluation of ingrained beliefs that hinder the youth's potential. As global trendsincreasingly favor organic and holistic approaches to eating and preventive healthcare, theresearch underscores the potential for agriculture-based startups in providing a sustainablelivelihood. Emphasizing food as a cornerstone of well-being, the paper advocates for a shiftin perspective within the agrarian community, urging a reconsideration of traditional careerpaths and a more informed exploration of the diverse opportunities available in the market forfarmers.

Keywords: Agripreneurship, Rural, Haryana, Barrier, Adoption.

G2-P15

Role of Parenting in Developing Startup Culture Among Children

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Abstract

In recent years, there has been a surge of interest and activity around startups and entrepreneurship, even among young children. As parents seek to prepare their children for the future job landscape which seems to hold more opportunities for those with an entrepreneurial bent of mind, many believe that inculcating a "startup culture" right from a young age can be beneficial. But how exactly can parents contribute to developing this startup culture among children? This work explores some keyways in which parenting approaches and behaviors can nurture the essential skills, mindsets, and values that are integral to an entrepreneurial way of thinking and working.

Teaching Opportunity Recognition

One of the key traits of successful entrepreneurs is the ability to recognize business opportunities. Parents can encourage children to start looking at problems and gaps in the world around them as opportunities to provide solutions. This can translate into a valuable skill to spot promising startup ideas.

Simple activities like regular dinnertime conversations on current affairs and societal issues can train young minds to critically evaluate systems, look for inadequacies, and come up with fresh perspectives. Family games that involve finding creative uses for everyday objects can also flex children's opportunity recognition muscles.

Promoting Experimentation

Startups involve a great deal of experimentation, prototyping and iteration before arriving at a validated business model. Parents can provide plenty of opportunities for children to tinker, test assumptions and try novel solutions without the fear of failure. This could include maker activities like cooking, arts and crafts or fixing toys. Allowing children to take reasonable risks in their activities can teach resilience and help them become comfortable with uncertainty – both essential entrepreneurial qualities.

Cultivating Critical Thinking

As opposed to rote learning, entrepreneurship requires the ability to think outside the box and problem solve. By encouraging children to ask questions and not take things at face value, parents can develop their critical faculties. Leading by example and voicing one's own reasoning on everyday topics can motivate children to back their

arguments with logic. These critical thinking muscles can aid startup founders in challenging assumptions and developing innovations.

Fostering Collaboration

Teamwork, communication, and collaboration are essential startup skills. Group learning activities right from preschool age can teach children to collaborate. This includes sharing ideas, dividing responsibilities, providing constructive feedback, and appreciating diversity – all values integral to startup culture. Such experiences also build empathy, emotional intelligence, and leadership abilities.

Promoting Self-Efficacy

Startups require tremendous self-belief and confidence to pursue novel ideas in the face of inherent uncertainty about success. Psychologists use the term "self-efficacy" to describe this trait. Parents can nurture self-efficacy in children by allowing them to take on responsibilities they are capable of, praising their efforts and instilling the belief that their actions can create results. This agential worldview breeds the kind of entrepreneurial mindset required to undertake and see initiatives through.

The startup landscape today is extremely dynamic and competitive. As algorithmic automation transforms job markets, enterprising innovators might have an edge. By inculcating some of the fundamental skillsets and mentalities described above right from childhood, parents can play a pivotal role in developing our next generation of startup talent. Concerted efforts to nurture opportunity recognition, experimentation, critical thinking, collaboration, and self-efficacy at home can ignite the spark of innovation early and breed founders of the future.

Keyword: Opportunity Recognition, Experimentation, Resilience, Uncertainty, Self-efficacy.

"Parenting: Cultivating the seeds of a startup culture, fostering innovation in our future leaders."

G2-P16

Nature's Appeal: Investigating Consumer Purchase Intentions for Herbal Cosmetic Products

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Abstract

Consumer preferences are shifting towards natural and sustainable solutions, which is causinga transformative shift in the beauty sector. This is especially true in the case of herbalcosmetic goods. The purpose of this study is to investigate the subtleties of customer behavior and purchasing intentions with regard to herbal cosmetics.This study uses a quantitative analytical methodologies approach to examine customerattitudes and decisions in this emerging herbal cosmetics industry area. The combination ofquantitative data aims to give a thorough grasp of consumer intention, which will supplybusinesses and marketers with essential information as they navigate the ever-changingmarket for herbal cosmetics. Data collected through a structured questionnaire from 300consumers who intended to purchase herbal cosmetic products in Haryana. Results show that people have strong intents and a positive attitude regarding buying herbal cosmetics.Customers are inclined in favour of certain products, especially when it comes torecommendations, personal use, and willingness to consider them even at potentially higherpricing. Furthermore, the interest in using herbal cosmetics within extended families points toa larger market potential.

Keywords: Herbal Cosmetics, Consumer Behavior, Purchasing Intentions, Sustainable Beauty.

G2-17

Design Study & Implementation of Spwm 3-Φ Vsi Inverter

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Abstract

Three-Phase Voltage Source Inverter (VSI) is one of the most important devices that caneffectively utilize renewable energy sources efficiently. Three-phase voltage source inverter provides variable voltage and frequency supply required by various ac drives for different applications. Sinusoidal pulse width modulation is one of the favored techniques used for getting controlled output from inverters. Also, Sinusoidal pulse width modulation, 3-phase voltage source inverter reduces harmonics in inverters. Here SPWM is generated using microcontroller AT mega 328P on Arduino Board through programming.In ac motor drives using SPWM inverters one can control both frequency and magnitude of the voltageand current. SPWM inverter-powered motor drives are more viable and offers a wide range of efficiencyand higher performance when compared to fixed frequency motor drives. In this paper simulation resultsobtained using Multisim and Proteus software have been presented, hardware implementation andanalysis of sinusoidal PWM Inverter with variable frequency are performed and verified.

Keywords: SPWM, Dead-Band, Microcontroller, Voltage Regulator, OptoIsolator/Coupler, Gate Driver IC, IGBT.

"Designing the future: SPWM 3-Φ VSI Inverter as a transformative force in power electronics."

G2-18

Preservation of Indian Heritage and Indic Values Based Holistic Education: A Best Practice at Kurukshetra University

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Abstract

Kurukshetra University is committed to holistic education of the young generation byleveraging its past knowledge and traditions. Various platforms are provided to thestudents for mindful interface with Indic socio-cultural values. The objectives of thispractice include preserving entities/artefacts associated with the culture of Haryana,connecting new generation to the cultural heritage of Haryana, facilitating research inIndological studies, inculcating human values among students, imparting education on Bhagavad-Gita and Yoga, research on Saraswati river, preserving manuscripts in digitizeform, instilling appreciation and gratitude for the valour of freedom fighters and the roleof Haryana in the first war of Independence.Despite its expansion, Kurukshetra University remained rooted to its purposesof "holistic development" of students and the preservation of its rich culture and heritage.This is clearly reflected in the content, pedagogy and academic ambience of newprogrammes of study where modern technologies are used for teaching -learning. This isalso reflected in NEP-2020 implemented by the University in campus as well as in itsaffiliated colleges. The University has established a museum of Heritage of Haryana named as"Dharohar" to preserve and showcase the artefacts associated with the rich and variedculture of Haryana. It offers a one-year certificate course in Srimadbhagwad Gita, and its Gita Shodh Kendra is enagaged in research on Gita. A signature Bhagwadgita theme based 3 days International Seminar is organized by the university every year since 2016as part of larger "International Gita Jayanti Mahotsav" organized annually by the Govt. ofHaryana. The Department of Ancient History, Culture & Archaeology of the Universityhas been the actively researching on history and culture of Haryana. The oldestDepartment of on campus; Sanskrit, Pali & Prakrit is offering specialized courses onVedic Studies and Indian Philosophy free of tuition fees. The Institute of Sanskrit andIndological Studies has been annually publishing Prachi-Jyoti-Digest of IndologicalStudies since its inception which has a worldwide circulation. The University has acollection of 15,000 rare manuscripts which have been digitized.In commemoration of the completion of 150 years of the "first war ofindependence 1857", the University has recently established a museum dedicated to

thishistoric event which depicts the valour and sacrifice of our freedom fighters. TheUniversity has established a multi-disciplinary Centre of Excellence for Research on Saraswati River (CERSR).

Efforts made by the University in preserving and showcasing the cultural heritage of Haryana in "Dharohar" museum, have received an overwhelming response and so far, more than 26.5 lakh visitors have visited the museum. It is gratifying to note thatdelegates from 110 different countries have visited and admired the museum; andresearch scholars have been regularly consulting various items/resources available in themuseum. The recently established museum on "First War of Independence-1857" has alsoearned appreciation of visitors and has been spreading the waves of patriotism. The"Ratnawali Festival", a state-level mega cultural fest held on the occasion of Haryanastatehood day, has grown into a "Mahakumbh of Haryana Sanskriti" which has not onlypractically entrenched youth into Haryanvi culture but also attracted numerous eldersfrom adjoining towns/villages rejoicing their culture.The practice of preservation of Indian Heritage and Indic values based holisticeducation also meets the requirements of one of objectives of NEP-2020.

Keywords: Holistic Education, Cultural Heritage Preservation, Dharohar Museum.

"Preserving heritage, imparting values: Kurukshetra University's best practice in holistic education."

G2-P19

Indian Ecosystem: Government Initiatives & Schemes for Start Ups

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Abstract

India is a developing country. Because it is the most populous country in the world, there is increased demand for jobs there. However, a lot of programs and policies are being introduced daily by the government on initiative to create a business-friendly atmosphere. An ecosystem for startups is one of these initiatives. A start-up ecosystem is made up of individuals, start-ups at different stages of development, and different kinds of organizations working together to build and grow new start-up businesses. The primary goal of the start-up ecosystem is to execute fresh concepts, discoveries, studies, and inventions in conjunction with a team member. The goal is to create a robust ecosystem that supports the expansion of start-up enterprises and fosters the creation of abundant job opportunities and sustained economic growth. With this effort, the government hopes to foster innovation and design-led growth in start-ups. India has demonstrated its commitment to developing a thriving startup environment, as seen by the rapidly rising number of new businesses. Seventy-two percent of the founders are under 35 years old. India is among the top five countries in the world for coming up with innovative solutions to social problems, even with the young entrepreneur. After the US and China, India has the third-highest concentration of startup accelerators and incubators worldwide. As per the data, Incubators and start-ups increased by 40% between 2016 and 2017. The Pradhan Mantri Mudra Yojana, the Bank Credit Facilitation Scheme, and the Single Point Registration Scheme are just a few of the at least 50 sector-specific and sector-agnostic startup programs that the Indian government has launched. To encourage entrepreneurship in India, the Indian government has launched the "Start-up India" initiative. The primary focus of the present study is the rise and potential of startup eco-systems in India, as well as the government's participation and activities in this regard. Ludhiana, known as the Manchester of Punjab, is home to more than 100 start-ups which is taken as population for the study. The primary goals are to ascertain how much awareness start-ups have of the Government of India's plans and, secondly, to investigate the advantages these start-ups have reaped. Under the "Start-up India" and "Make in India" initiatives, the government has created a number of programs that are the subject of this study. These programs include raw material support programs, sustainable finance programs, and many more. It has been noted that a relatively small proportion of entrepreneurs are somewhat aware that these kinds of schemes exist, and that the advantage received reflects that lower ratio.

Keywords: Start-up ecosystem, Government initiatives, Start-up Financing.

G2-P20

Effect of Data Encoding on Expressive Power with Quantum Neural Network Models

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Abstract

Supervised learning can be facilitated by utilising quantum computers, which consider parametrized quantum circuits as models that establish a correspondence between input data and predictions. Although significant efforts have been made to examine the practical consequences of this strategy, some crucial theoretical characteristics of these models are yet unexplored. In this study, we examine the impact of the encoding technique on the expressive capacity of parametrized quantum circuits as function approximators. We demonstrate that it is possible to express a quantum model as a partial Fourier series in the data. The frequencies that can be accessed are determined by the characteristics of the data encoding gates used in the circuit. Quantum models can access more diverse frequency spectra by iteratively employing basic data encoding gates. We demonstrate the existence of quantum models that can represent any collection of Fourier coefficients. Consequently, provided the range of frequencies that can be observed is sufficiently diverse, these models can approximate any function, making them universal function approximators.

Keywords: Supervised Learning, Correspondence, Quantum Fourier Coefficients.

Best Practices and Research

Session Chairs

Dr. Jeetendra Sharma, Veterinary Surgeon, Government Veterinary Hospital, Karnal Haryana

Dr. Lov Kumar, Assistant Professor, NIT Kurukshetra

Dr. Kudeep Kumar, Assistant Professor, NIT Kurukshetra

G3-P1

Virgo Panel Product: A Pioneer in Eco Environment-Friendly Plywood Manufacturing

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Abstract

Virgo Panel Product, established in 1983, stands as a pioneering force in Punjab, specializing in the manufacturing of Plywood. With 40 years of successful operations, the firm has achieved notable milestones, particularly as the first in the region to implement environmentally friendly manufacturing techniques.

Key Achievements

1. **Industry Leadership**: Virgo Panel Product has consistently led the Plywood sector in Punjab, showcasing a commitment to excellence.
2. **Sustainable Practices**: The firm has been at the forefront of implementing eco-friendly manufacturing methods, contributing positively to environmental conservation.

Best Trends

In the evolving landscape of business, Virgo Panel Product focuses not only on monetary gains but also on employee well-being, environmental responsibility, and community welfare. The following trends highlight the firm's commitment:

1. **Employee Motivation**: Acknowledging achievements and rewarding employees, fostering a motivational work environment.
2. **Employee and Social Benefits**: Providing health insurance, retirement plans, and paid time off, demonstrating a holistic approach to employee welfare.
3. **Community Contributions**: Contributing to economic stability and community welfare through job creation, local support, and charitable contributions.

Some Key Practices

1. **Digital Transformation**: Embracing digitalization and investing in automation for enhanced efficiency.
2. **Transparent Communication**: Engaging employees through transparent communication for improved organizational alignment.

3. **Risk Management**: Implementing robust risk management strategies for business sustainability.
4. **Reward System**: Recognizing and rewarding employee achievements to promote a positive work culture.
5. **Positive Work Environment**: Prioritizing a positive and inclusive work environment for employee satisfaction and productivity.
6. **Social Welfare Initiatives**: Undertaking charitable activities for the betterment of society.

Keywords: Plywood, Community Contributions, Digital Transformation, Transparent Communication, Innovation in Manufacturing.

"India's ecosystem blooms with startup possibilities, nurtured by government initiatives and schemes."

G3-P2

Revolutionizing Book Printing: A Journey of Innovation and Excellence by Choice Books & Printers Pvt. Ltd.

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Abstract

Choice Books & Printers Pvt. Ltd., established in 1994, has been a revolutionary force in book production on reel paper. This endeavor not only provided employment to more than 50 families but also resulted in significant cost-cutting in book production processes.

The company, located in Focal Point Ext., Jalandhar, is a leading printer in Northern India. With two Web offset and three Sheet fed offset multi-color printing machines, along with post-press binding machinery, the printing unit undertakes jobs for various educational boards and universities. Clients include prestigious names such as Punjab School Education Board, HP Board of School Education, Rajasthan State Textbook Board, Punjab Technical University, Khalsa College Amritsar, DAV University Jalandhar, Pradeep Publications, Eagle Parkashan, and Mind Maker Publishers.
Choice Books & Printers specializes in printing a diverse range of materials, from single-color to multi-color educational books, magazines, catalogues, posters, calendars, duplex boards, answer sheets, mark sheets, to degrees.
The credit for the innovative approach of initiating book production on reel-fed paper machines, originally used for newspapers, goes to the Gupta family. This transition not only resulted in cost savings but also contributed to time and energy efficiency, enhancing overall production.

Ashwani Gupta, the Managing Director and General Secretary of Jalandhar Printers' Association, has played a crucial role in the company's success. His leadership has been acknowledged at the national level, serving as the Treasurer for four terms and Vice President for one term at the All-India Federation of Master Printers, the apex body of printers in India.

Keywords: Book Production, Web Offset Printing, Sheet Fed Offset Printing.

G3-P3

Empowering Lives, Building Values: A Decade of Social Initiatives byBal Kalyan SanskarKendra in Jalandhar

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Abstract

Bal Kalyan Sanskar Kendra in Jalandhar, Punjab, was established in September 2004 with Sh. Anil Sharma and Sandeep Narang as founding members. The organization's mission is to educate and instill good character and moral values in children. Starting as a free tuition center under a tree, it has evolved into SBT Model School, accommodating around 600 children, primarily from economically challenged backgrounds. The school, registered under the name Balkalyan Sanskar Kendra, also runs evening sessions in the name of Swami Vivekananda, a dispensary in association with Rotary Club, and vocational training centers for women. Initiatives include a stitching center named Bhagini Nivedita and support for families involved in making paper boxes and bags. The organization has been providing monthly rations to needy widows for the past 20 years, showcasing a comprehensive commitment to social welfare.

Keywords: Social Empowerment, Education for All, Women's Skill Development, Community Health Initiatives.

"Quantum neural networks: Decoding the expressive power through the intricate dance of data."

G3-P4

O.P. Soaps & Cosmetics: A Star Export House Renowned for its Surpassing Quality

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Abstract

O.P. Soaps & Cosmetics, established in the year 1952, is a firm engaged in Manufacturing, Exporting and Trading of high-quality range of Laundry Cake, Detergent Powders, Detergent Soap Bars, Soap Noodles, Liquid Handwash, Floor Cleaners, Toilet Cleaners and Liquid Detergents. With almost 72 years of experience, the company has achieved notable milestones domestically and internationally, particularly as the first to reach the Global Market with the products consisting Eco-Friendly raw materials.

Key Achievements

1. Quality Leadership: O.P. Soaps & Cosmetics has consistently provided its customers with the best quality products at affordable prices, catering to their needs in an efficient manner.
2. Sustainable Practices: The firm has been using eco-friendly raw materials to manufacture its products, contributing positively to environmental conservation.

Best Trends

In the evolving landscape of business, O.P. Soaps & Cosmetics has always envisioned for its employee well-being, environmental responsibility, community welfare then monetary gains. The following trends highlight the firm's commitment towards its employees and workers:

1. Employee Motivation: Acknowledging achievements and rewarding employees, fostering a motivational work environment.
2. Employee and Social Benefits: Providing health insurance, retirement plans, and paid time off, demonstrating a holistic approach to employee welfare.
3. Community Contributions: Contributing to economic stability and community welfare through local job creation, local support, and charitable contributions.

Some Key Practice

1. Infrastructure: The vast infrastructure unit of our company is divided into many high-functioning departments. Our infrastructure unit enables us to cater for a client's varied needs in a timely and hassle-free manner.
2. Quality: Our strict regime for maintaining quality in our products has established ourselves as a valued firm amongst our clients with the aid of our highly progressive quality testing unit.
3. Transparent Communication: Engaging employees through transparent communication for improved organizational alignment.
4. Risk Management: Implementing robust risk management strategies for business sustainability.
5. Reward System: Recognizing and rewarding employee achievements to promote a positive work culture.
6. Positive Work Environment: Prioritizing a positive and inclusive work environment for employee satisfaction and productivity.
7. Social Welfare Initiatives: Undertaking charitable activities for the betterment of society.

Keywords: Eco-friendly Products, Community Contributions, Infrastructure, Transparent Communication, Innovation in Manufacturing, Quality Assurance.

The architects of new startups, fortifying the pillars of support for the Indian economy."

G3-P5

DD Khosla Transport Pvt. Ltd.: A Leading Transport Company

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Abstract

DD Khosla Transport Private Limited is a non-govt company, incorporated on 10 Dec 2004. It's a private unlisted company and is classified as company limited by shares.

DD Khosla Transport Private Limited last annual general meet (AGM) happened on 30 Sep 2017. The company last updated its financials on 31 Mar 2017 as per Ministry of Corporate Affairs (MCA).

DD Khosla Transport Private Limited is majorly in Transport, storage and Communications business from last 19 years and currently, company operations are active. Current board members & directors are ASHWANI KHOSLA, PUNEET KHOSLA, MUKESH KHOSLA, ANIL KHOSLA, and KARAN KHOSLA.

The company is registered in Chandigarh (Punjab) Registrar Office. DD Khosla Transport Private Limited registered address is 03 DOMORIA PULL ROAD JALANDHAR CITY PUNJAB PB 144001 IN.

Dd Khosla Transport is dealing with Concor, IOC, BPCL, HPCL, Markfed, NFL, GSFL, Chambal etc.

DD Khosla Transport monetary on employee's environmental responsibilities & community welfare as providing them health insurance, demonstrating holistic approach & retirement plans. Company also contributes to economics stability and community welfare. The company motivates employees by acknowledging achievement & rewarding them.

Keywords: Corporate Social Responsibility, Transport and Logistics.

G3-P6

Refining India's Skill Ecosystem: A Comprehensive Study on Skill-based Courses and Employment Opportunities

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Abstract

Skill ecosystem as per the National Skill Qualification Framework (NSQF) offers multiple job opportunities from class Ninth at school to Doctoral programmes at universities. Multiple attempts have been made to streamline these skill-based courses as per the industry needs in variety of colleges and universities. The success story of such courses has been remarkable with the ongoing feedback from the corporate world as well continuous suggestions for improving their content quality and employment opportunities. However, owing to India's massive young population which has been particularly low skilled and re-skilling upskilling remains absent to a great extent. There exists huge potential to refine the courses further and training models with the industry. In the present state, significant initiatives have been taken and their growing popularity further can open doors for newer policies, schemes and syllabus modified as per the requirements of different sectors. For example, banking has its own skilling requirements, hospitality has its own set up of skills, Information Technology has more of technical skill requirements and similarly other sectors prevail. The bottom line for all skilled courses remains to make youth employable and self-dependent. The present study glances into the gaps between acquired and desired skills thus enabling potential candidates with a revisited skill framework which shall offer them plethora of opportunities. Academicians' attention may be drawn towards revisions and modifications desired in the scheme, syllabus, credits, assessment patterns and pedagogy of skilled courses from the findings of the study. Policy makers and Government can strive for infrastructural requirements at college and university level along with other financial and administrative support to the academic bodies as per the findings of the study.

Keywords: Skill Ecosystem, National Skill Qualification Framework (NSQF), Employability, Skill-based Courses, Academic Revisions.

G3-P7

Skill education as per need of time

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Abstract

Gone are the days when parents and youngsters used to run after jobs only. Today, they wish to be the job givers instead of being job seekers. To keep pace with the changing times, generations, trends, fashions, economic growth, or one can say, for sustainability skill development is the dire urge of today's generation. They know well that only those who have knowledge and know how to bring it in use will survive. In every walk of life, whether it is literary or non-literary, we have to be accustomed to the practicality of every branch of study. Keeping in view this need of time, NEP 2020, focuses on including skills of education at the school and college level.

This paper of mine studies the NSQF (National Skills Qualification Framework). Various sector skill councils (SSCS) are developing qualification packs (QPS), National occupational in their respective domains in alignment with the needs of the industry as per UGC guidelines.

With too much of advancement in modern technology and to cope up with the New Demands of the Society, the youth have to be inculcated with the skills development. This is going to enhance their opportunity for their self-growth as well as self-employment. Self-employment is the utmost need of the New Era. When one is deeply rooted in this culture; progress starts simultaneously in the proper direction.

Keywords: Skill Development, Self-Employment, Modern Technology,Youth Empowerment.

G3-P8

Ayurveda:Opportunities, Emerging Trends and Challenges

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Abstract

Ayurveda principles are immortal, but it is need of us to integrate its wisdom with technologies and propagating Ayurveda mainstream globally.The present paper discusses the possibilities of bringing resurgence to Ayurveda and also elaborate the challenges and solutions to meet the international standards and accepted it globally as a mainstream health profession. The acceptance and interest for Ayurveda is growing globally, eventually marking its place among other licensed health care professions globally. Advanced visions to focus on the formal scopes of global competitive marketing sectors should be promoted in order toreap its future prospectus in the global economic front concurrently and this is inevitable.Moreover, Drastic revisions on, minimum standards & requirements of statutory bodies, planning commissions, culminating the serious flaws existing in the graduate level Āyurveda education and upgrading &strengthening existing R&D institutions through vertical integration & clustering of related bodies, and other endowments adding to its viability should be in forefront of amendments. Well-structured and concrete collaborations across nations via MoU with IT sector and biotech companies will also have an impact on implementing its soft power globally.

Keywords: Ayurveda, Review, Globalization, MoU.

G3-P9

Skill Education as per Need of the Time

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Abstract

Gone are the days when parents and youngsters used to run after the jobs only. Today, they wish to be the job givers instead of being job seekers. To keep pace with the changing times, generations, trends, fashions, economic growth, or one can say, for sustainability skill development is the dire urge of today's generation. They know well that only those who have knowledge and know how to bring it in use will survive. In every walk of life, whether it is literary or non-literary, we have to be accustomed to the practicality of every branch of study. Keeping in view this need of time, NEP 2020, focuses on including skills of education at the school and college level.

This paper of mine studies the NSQF (National Skills Qualification Framework). Various sector skill councils (SSCS) are developing qualification packs (QPS), National occupational in their respective domains in alignment with the needs of the industry as per UGC guidelines.

With too much of advancement in modern technology and to cope up with the New Demands of the Society, the youth must be inculcated with the skills development. This is going to enhance their opportunity for their self-growth as well as self-employment. Self-employment is the utmost need of the New Era. When one is deeply rooted in this culture; progress starts simultaneously in the proper direction.

Keywords: New Demands of Society, Self-Employment, Sustainability, Economic Growth.

G3-P10

Success Stories and Case Studies of Academic - drivenStartups M/S Mane Industries, Indapur as Technology Enabled Startup

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Abstract

Being a faculty member, Dr. Mane developed a biomass pillet by using waste buggas, oil and other ingredients.

Apart from that, with the mentoring from Incubation centre he also developed a few additional sustainable products which can be organically penetrated in the market. Day by day he is innovating his technologies for a better tomorrow.

Pioneering innovation, shaping economies, and fostering a culture of entrepreneurship."

G3-P11

Development and Properties of Sustainable Biogenic Calcium Silicate Glasses

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Abstract

Biogenic calcium silicate glasses were synthesized from the biomass wastes by self-chemical reactions at high temperature of 1550 °C. XRD pattern showed the amorphous or crystalline nature of the as-synthesized biogenic glasses. The optical bandgap decreased from 3.96 to 3.74 eV and the refractive index increased from 2.17 to 2.22 as the ESP increased from 0 to 30 wt.%. The dielectric constant (ε') of sintered glasses were measured at 1 KHz and 1 MHz to be 40 - 135 and 27 - 44, respectively. The decreasing, Dielectric constant, and dielectric loss with respect to temperature is attributed to the least hopping mechanism. The σ_{ac} of SE-3(H) was observed to be the lowest (5.26×10^{-7} S/cm) at 400 °C due to the lower volume of non-bridging oxygen (NBOs). The study of silicate glasses suggests the major applications in the field of semiconductor industries, sealing of energy harvesting and energy storage devices.

Keywords: Biomass, Glasses and Glass-ceramics, Optical & Dielectric Properties, Energy Storage Devices.

"Incubations: Shaping the journey of startup development, nurturing ideas into impactful innovations."

G3-P12

Mxene Based Hybrid Nanocomposite for The Removal of Pollutants from Contaminated Water

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Abstract

In this study, a novel 2D/2D heterostructure of MXene and V_2O_5 was synthesized using facile hydrothermal approach for the efficient removal of crystal violet (CV), a textile dye from contaminated water. Here, the catalytic performance of pristine MXene was prominently boosted with the introduction of ball milled V_2O_5 as an electron generating agent. The effective degradation of pollutants is ascribed to the electron-transfer via S-scheme based mechanism and helps in reducing recombination rate of the photogenerated carriers, which could produce hydroxyl radicals (OH.) as the primary species for effectively degradation of the pollutants. The crystalline nature and analysis of functional groups was analyzed using X-ray diffraction (XRD) and Fourier Transform Infrared spectroscopy (FTIR). The study of surface charge and charge transfer resistance (R_{ct}) of synthesized samples was carried out using zeta potential and electron impedance spectroscopy (EIS) measurements.

The enhanced values of carrier concentration in case of synthesized heterostructure and band-edge positions were analyzed using mott-Schottky (MSK) analysis. Moreover, to strong the findings of scavenger study electron paramagnetic resonance (EPR) study was also carried out and concluded that hydroxyl radicals (OH.) are the primary species in the mineralization of CV dye. The reusability experiment confirms the stability of synthesized sample and provides a good shred for industrial applications of the synthesized samples in the treatment of wastewater and getting out the cleaner productions.

Keyword: Novel MXene/V_2O_5 Heterostructure, Textile Dyes, Photocatalysis, Degradation Pathways, EPR And Trapping Study.

G3-P13

A Review of Micro-hydro Systems Operating at Off-grid Locations

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Abstract

Micro hydro plants at off-grid locations are considered far more beneficial than the centralized grid extended plant at isolated locations in terms of capital investment and sustainability. To achieve control over voltage and frequency, many schemes were developed including dumping of the generated active power in auxiliary loads present in electronic load controllers. The proposal to utilize this discarded power was worth analysing. Methods like using storage system in micro hydro provided plenty of options making use of this wasted power. Also, modifications in ELC corresponding to the load configuration proved to be beneficial in one or the other way with various concepts to improve the efficiency of the system. The motive of this paper is to discuss the advancements brought in past or are to be brought in future in the decentralized micro hydro plants. We have presented the voltage and frequency control of micro hydro with the merits and demerits of all the methods discussed thoroughly.

Keywords: ELC, Micro Hydro.

G3-P14

A Low Wind Power Generation System Modulation and Simulation

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Abstract

The goal of this study is to develop a Low Wind Power Generation system, which can generate electricity from the wind in places where the wind speed is quite low. The project is like traditional wind power generation, but it incorporates a novel concept. We caused air to deflect and flow through an air tunnel with a diminishing area, increasing air velocity, before striking a light turbine, which generates electricity. The wind then comes out of the diffuser, which can be used for air cooling and other purposes. Because the air coming out of the tunnel can be directed in a certain direction, a customized low wake turbine can be created. The concept is quite fresh. There are three stages to it. There are three main aspects to this process: -

- Design of a Light turbine low wake
- Design of a Diffuser

Design, development & simulation of a Tunnel of decreasing area using ANSYS fluent tool However, alternative proportions can be utilized depending on power requirements. With household use in mind, the LWPG System is designed to be a practical size that can be simply put on the roofs of a house to harness the wind. An air tunnel with an internal diameter of 2700mm and an outer diameter of 70 cm is used for this. This air tunnel's length and conical angles are then optimized for optimal air output speed and minimal turbulence. The ANSYS fluent tool is used to model this. The power is then generated using a small high-speed wind turbine based on the outlet wind speed.

First, an analytical study of wind speed and other characteristics in the specific location is conducted, followed by the design of the above-mentioned system and its various components. The computational product ANSYS CFD is used to optimize the performance parameters in the design of the aforesaid parts. We utilized a hot wire manometer to measure wind speed. In the experimental setting, MATLAB is used to investigate the system's applicability and feasibility under various scenarios, and the results are satisfactory. Finally, we compare our system to a solar system to demonstrate the viability and usefulness of a low power generation System.

Keyword: ANSYS CFD, MATLAB, Manometer, LWPS.

G3-P15

Restricting and Motivator Factors That Are Affecting the Purchase Decisions of Consumers Towards Green Skincare Products

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Abstract

Having a healthy and beautiful body is a dream for everyone. There is a trend nowadays for using green/herbal/ayurvedic/organic products manufactured using natural ingredients. This study mainly focused on the factors influencing consumers' buying behavior towards green skincare products. The study is conducted in the district Bhiwani, and an online questionnaire is sent to the consumers who are using green skin care products. A total of 107 responses were taken from all these people. Data is analysed using factor analysis in IBM SPSS and the study found that various factors are affecting the behavior of consumers while buying the products. Some factors are affecting the decisions of consumers positively and some are affecting negatively.

Keywords: Green Skincare Products, Buying Behavior, Environment Protection, Healthy Life.

G3-P16

Integration of AI into the Education System of India: Implications on NEP 2020

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Abstract

The integration of Artificial Intelligence (AI) into the education system of India marks a transformative paradigm shift with profound implications for the educational landscape, aligning with the goals outlined in the National Education Policy (NEP) of 2020. This paper delves into the multifaceted impacts of incorporating AI technologies in education, emphasizing how they synergize with the NEP 2020's vision of fostering a holistic, learner-centric, and technology-driven educational ecosystem.

The paper begins by exploring the current state of the Indian education system, highlighting its challenges and the imperative for innovation. It then examines the key tenets of NEP 2020, such as flexibility, multidisciplinary learning, and the emphasis on critical thinking and problem-solving skills. Subsequently, the paper elucidates the ways in which AI integration can catalyze the realization of these NEP objectives for the overall growth and development.

The paper investigates the role of AI in personalized learning, adaptive assessment systems, and the creation of intelligent educational tools. Furthermore, it explores the potential of AI in addressing educational inequalities by providing tailored learning experiences to diverse student populations. The paper also considers the challenges and ethical considerations associated with AI in education and proposes strategies for mitigating these concerns.

In conclusion, the paper emphasizes the symbiotic relationship between AI integration and the NEP 2020, envisioning a future where technological advancements in education amplify the policy's goals. The paper seeks to contribute valuable insights for policymakers, educators, and researchers navigating the evolving intersection of AI and education in the Indian context.

Keywords: Artificial Intelligence, Skill Education, Ecosystem.

G3-P17

Privacy and Security Challenges in Digital Academic Environments

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Abstract

In the age of digital transformation, academic institutions worldwide are increasingly relying on digital technologies to enhance educational experiences, streamline administrative processes, and facilitate collaborative research. While the integration of digital tools brings numerous benefits, it also presents significant privacy and security challenges that demand careful consideration. This paper provides an overview of the key privacy and security challenges faced by digital academic environments, highlighting the need for comprehensive strategies to safeguard sensitive data and ensure a secure learning environment.

The digitalization of academic environments introduces several privacy concerns, including the collection and storage of personal information, surveillance practices, and the potential for data breaches. Furthermore, the widespread use of online platforms for learning management and communication raises issues related to data ownership, consent, and the responsible use of student and faculty data.

To address these challenges, academic institutions must adopt a holistic approach that combines technical solutions, policy frameworks, and educational initiatives. Additionally, the establishment of clear data governance policies, informed consent procedures, and awareness campaigns can contribute to a culture of privacy and security within academic communities.

Keywords: Learning Management, Secure Learning Environment, Digitalization.

"Academic-driven startups: Pioneering innovation, shaping economies, and fostering a culture of entrepreneurship."

G3-P18

Government Initiatives and Policies for Promoting Academic Driven Startups

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Abstract

Government is continuously planning to increase the academic system throughout the country to enhance skills among youth to driven new innovation. Government is realising how important academic-driven businesses are to promoting economic development and innovation and increase the own startups among the youth to eliminate the critical problem of employment. So that the youth of the country could become the job provider rather than job seeker. Numerous programmes and regulations have been put in place to encourage these kinds of endeavours. Grants and seed money are examples of funding programmes that are frequently set up to assist academic entrepreneurs in their early stages and motivate academics to turn their discoveries into profitable businesses. Government is also creating an atmosphere in whole education system that is favourable to entrepreneurship by facilitating collaboration between university and business through research parks, incubators, and technology transfer agencies. It has been implemented in strategies to lower bureaucratic barriers for academic entrepreneurs, facilitating quicker commercialization of research results, in an effort to streamline regulatory procedures. Establishing innovation ecosystems in educational institutions is promoted in order to provide staff and students the tools and support they need to turn creative ideas into successful enterprises. Additionally, programmes and initiatives that support entrepreneurship education and skill development also guarantee that academic professionals have the information and resources needed to successfully traverse the startup world. Governments want to spur economic growth and technical improvements by fostering the creation of academic driven companies through these extensive initiatives. Government subsequently introduced Aatmanirbhar Bharat mission, make in India, New education Policy 2020, G-20 submit with the goal of establishing India as a hub for international manufacturing and design exports.

Keywords: Atmosphere for Entrepreneurship, Technology Transfer Agencies, Information and Resources.

G3-P19

Education to Employability: Feasibility Check of Skill Courses in Indian Region

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Abstract

Skill ecosystem as per the National Skill Qualification Framework (NSQF) offers multiple job opportunities from class Ninth at school to Doctoral programmes at universities. Multiple attempts have been made to streamline these skill-based courses as per the industry needs in variety of colleges and universities. The success story of such courses has been remarkable with the ongoing feedback from the corporate world as well continuous suggestions for improving their content quality and employment opportunities. However, owing to India's massive young population which has been particularly low skilled and re-skilling upskilling remains absent to a great extent. There exists huge potential to refine the courses further and training models with the industry. In the present state, significant initiatives have been taken and their growing popularity further can open doors for newer policies, schemes and syllabus modified as per the requirements of different sectors. For example, banking has its own skilling requirements, hospitality has its own set up of skills, Information Technology has more of technical skill requirements and similarly other sectors prevail. The bottom line for all skilled courses remains to make youth employable and self-dependent. The present study glances into the gaps between acquired and desired skills thus enabling potential candidates with a revisited skill framework which shall offer them plethora of opportunities. Academicians' attention may be drawn towards revisions and modifications desired in the scheme, syllabus, credits, assessment patterns and pedagogy of skilled courses from the findings of the study. Policy makers and Government can strive for infrastructural requirements at college and university level along with other financial and administrative support to the academic bodies as per the findings of the study.

Keywords: Skill Ecosystem, Skill Refinement, Infrastructural Requirements, Pedagogy of Skilled Courses.

G3-P20

Securing Vehicular Digital Twin: Blockchain Based Authentication System

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Abstract

Digital twins offer solutions for the flaws in traditional mobility systems like VANET, enhancing transportation with better processing, storage, and decision-making capabilities. Vehicular digital networks represent a new era, where real vehicles are connected virtually through their digital twins, revolutionizing industry. Real-time data sync in this twin-focused approach happens through an open communication channel. However, this innovative system also introduces security risks that demand strong privacy measures like authentication, encryption, and signature techniques. Our proposal introduces a blockchain-based authentication framework for communication within and between vehicular digital twins. This integrated blockchain ensures data integrity and verifiability. We tested the protocol's security using non-mathematical analysis under different models and found it secure. Finally, we evaluated its operational capabilities and functionalities compared to existing technologies. Our findings highlight its superior performance in computation and communication overhead, especially tailored for vehicular digital twin networks.

Keywords: Digital twin, VANET, Blockchain, Vehicular digital twin.

4.2. Conclusion

In the culmination of Chapter 4, we find ourselves immersed in the wealth of knowledge and groundbreaking insights shared through the diverse array of paper presentations. The journey through these scholarly works has been nothing short of enlightening, showcasing the vigor and vitality of academic-driven startups in our economic landscape.

With a total of 65 papers presented, our contributors have delved into the nuances of Skill & Startup, Entrepreneurship, and Best Practices & Innovations. The thought-provoking discussions and innovative solutions presented in each category underscore the integral role of academia in shaping a sustainable and innovative economic future.

As we recognize the exceptional efforts of our contributors, it is evident that these papers not only contribute to academic discourse but also serve as catalysts for real-world change. The identification of winners in each category further emphasizes the exemplary contributions, reflecting the commitment and dedication of individuals and institutions to drive positive change through academic-driven startups.

This chapter stands as a testament to the collective spirit of inquiry, innovation, and collaboration that defines our academic community. It is our hope that the insights gained from these papers will inspire further research, dialogue, and action, propelling us towards a future where academia continues to be a dynamic force in shaping the entrepreneurial landscape of our nation.

Chapter-5
In Media

5.1. Introduction

InShiksha Kumbh, an extensive media campaign was carried. The campaign detailed in this chapter represents a comprehensive and expansive initiative that transcended geographical boundaries, extending its impact far beyond the confines of Haryana to encompass multiple States and Union Territories. This section serves as the bedrock of the chapter, laying the groundwork for an exploration into the extensive reach and influence of the campaign across diverse regions.

5.2. Campaign in Media

This section serves as the foundation for the chapter, highlighting the broad reach of the campaign across different regions. It emphasizes that the campaign extended beyond Punjab to encompass multiple States and Union Territories.

5.2.1. Print Media

Within the realm of print media, the campaign achieved significant visibility through prominent newspapers such as Danik Bhaskar, Danik Sawera, Punjab Kesari, Jagat Kranti Jagrati Lahar, Dainik Jagran, Amar Ujala, Tribune, Hindustan Times, Metro News, The Uttam Hindu, Punjab Kesari, among others. The inclusion of these esteemed publications underscores the campaign's wide-ranging coverage, emphasizing its effectiveness in reaching a diverse and expansive audience.

शिक्षा कुंभ में अर्थव्यवस्था में नवाचार व स्टार्टअप की भागीदारी पर होगा मंथन: दिशी धर्माणी

पल पल सार समाचार

कुरुक्षेत्र में होगा राष्ट्रीय सम्मेलन, वीसी को दिया निमंत्रण

शिक्षा महाकुंभ सम्मेलन 20 को कुरूक्षेत्र में

कुरुक्षेत्र होने वाले राष्ट्रीय सम्मेलन का वीसी को दिया निमंत्रण

शिक्षा कुंभ में अर्थव्यवस्था में नवाचार व स्टार्टअप की भागीदारी पर होगा मंथन: धर्माणी

शिक्षा कुंभ में अर्थव्यवस्था में नवाचार व स्टार्टअप की भागीदारी पर होगा मंथन: दिशी धर्माणी

इनोवेटर्स और स्टार्टअप उद्यमी करेंगे मंथन

5.2.2. Digital Media

Delving into the digital landscape, this subsection provides an in-depth analysis of the campaign's presence in digital media platforms such as NTN, and others. Special emphasis is placed on press conferences held in different states, and links to these events are provided, highlighting the seamless integration of digital platforms in disseminating information and engaging with a broader audience. This underscores the campaign's adaptability and the strategic use of modern communication channels to amplify its reach.

https://navtimesnews.com/dipti-dharmani-there-will-be-discussion-on-innovation-and-participation-of-startups/

5.3. The Programme

This section sums up the coverage of the main programme in print and digital media. The details of each media are described in subsequent sections.

5.3.1. Print Media

This section encapsulates the coverage of the main program in both print and digital media during the event at NIT Kurukshetra. An overview of the press coverage in leading newspapers, such as Danik Bhaskar, Danik Sawera, Dainik Jagran, Amar Ujala, Tribune, Hindustan Times, The Uttam Hindu, Punjab Kesari, etc., is provided. These media clippings serve as tangible evidence of the event's prominence in both local and global print media.

क्षेत्र

यूनिकॉर्न बनने के इच्छुक स्टार्टअप उद्यमियों को नीडोनोमिक्स का ज्ञान आवश्यक : प्रो.एम.एम. गोयल

शिक्षकों की बिरादरी को फिल्म उद्योग में मनोरंजन करने वालों से बेहतर वास्तविक नायक बनने के लिए सफलता की कहानियां बननी चाहिए : प्रो. एमएम गोयल

स्टार्ट अप के लिए नए अवसर देगी राष्ट्रीय शिक्षा नीति 2020 : दत्तात्रेय

शिक्षा कुम्भ शैक्षिक नवाचार सहयोग और सशक्तिकरण का प्रतीक, राज्यपाल बंडारू दत्तात्रेय ने एनआइटी में आयोजित शिक्षा कुंभ का किया शुभारंभ

5.3.2. Digital Media

Continuing into the digital realm, this subsection highlights the digital footprint of the event, offering links to videos and social media posts capturing the marathon brainstorming. The inclusion of links from various sources, including news articles and social media platforms such as YouTube and Facebook, showcases the pivotal role of digital media in broadcasting the event's activities to a broader audience.

https://www.babushahi.com/full-news.php?id=176260&headline=Haryana-Governor-Dattatraya-inaugurates-Shiksha-Kumbh-organised-at-NIT-Kurukshetra

https://www.punjabnewsline.com/news/governor-promises-that-shiksha-kumbh-will-become-a-symbol-of-educational-innovation-cooperation-and-empowerment-70308

https://www-babushahi-com.translate.goog/full-news.php?id=176260&_x_tr_sl=en&_x_tr_tl=hi&_x_tr_hl=hi&_x_tr_pto=tc

https://www.indianewscalling.com/sunday-magazine/news/147043--.aspx

https://www.amarujala.com/amp/haryana/kurukshetra/new-education-policy-is-a-game-changer-for-creating-startups-governor-kurukshetra-news-c-45-1-kur1001-10590-2023-12-21

https://www.citydarpan.com/news/11935

https://hindi.theprint.in/india/haryana-governor-launches-shiksha-kumbh/642706/?amp

https://www.theweek.in/wire-updates/national/2023/12/20/des62--hr-governor.amp.html

https://navrajtimes.com/education/shiksha-kumbh-promises-to-be-a-symbol-of-educational-innovation-collaboration-and-empowerment-bandaru/

https://bharatsarathi.com/?p=182864

https://www.indianewscalling.com/sunday-magazine/news/147043--.aspx

https://www.devdiscourse.com/article/education/2752946-haryana-governor-dattatreya-inaugurates-shiksha-kumbh-initiative?amp

https://oldbhasha.ptinews.com/news/state/567977.html

https://www.dainiktribuneonline.com/news/haryana/shiksha-kumbh-symbolizes-educational-innovation-and-empowerment/

https://x.com/Dattatreya/status/1737454016777613596?s=20

https://www.dailypioneer.com/2023/state-editions/haryana-governor-dattatreya-inaugurates--shiksha-kumbh--initiative.html

https://ground.news/article/haryana-governor-dattatreya-inaugurates-shiksha-kumbh-initiative

https://www.newsdrum.in/national/haryana-governor-dattatreya-inaugurates-shiksha-kumbh-initiative-2034290

https://www.samagrabharat.com/2023/12/22/teachers-fraternity-should-become-success-stories-to-become-real-heroes-better-than-entertainers-in-the-film-industry-prof-m-m-goyal/

https://www.newzdex.com/?p=60665

https://www.newzdex.com/?p=60587

https://images.app.goo.gl/5Rf3yvkJM1GeGEY1A

https://images.app.goo.gl/j4GsqvUGhH3bwvo57

https://www.indianewscalling.com/news/147043--.aspx

https://mirror365.com/%E0%A4%B6%E0%A4%BF%E0%A4%95%E0%A5%8D%E0%A4%B7%E0%A4%BE-%E0%A4%95%E0%A5%81%E0%A4%82%E0%A4%AD-%E0%A4%B6%E0%A5%88%E0%A4%95%E0%A5%8D%E0%A4%B7%E0%A4%BF%E0%A4%95-%E0%A4%A8%E0%A4%B5%E0%A4%BE%E0%A4%9A/

https://themediasetu.com/governor-bandaru-dattatreya-promises-that-shiksha-kumbh-will-become-a-symbol-of-educational-innovation-cooperation-and-empowerment/

https://www.google.com/search?q=%E0%A4%B6%E0%A4%BF%E0%A4%95%E0%A5%8D%E0%A4%B7%E0%A4%BE+%E0%A4%95%E0%A5%81%E0%A4%82%E0%A4%AD,+2023&sca_esv=593546230&rlz=1C1ONGR_enIN1054IN1054&tbm=isch&sxsrf=AM9HkKkr643ClAIIcfboc3gibuigqxWxfw:1703491292103&source=lnms&sa=X&ved=2ahUKEwjixd_Kj6qDAxW0T2wGHYNyDZ4Q_AUoA3oECAEQBQ&biw=1920&bih=945&dpr=1#imgrc=T_M8QoO9lbJkvM

https://www.samagrabharat.com/2023/12/21/knowledge-of-needonomics-essential-for-startup-entrepreneurs-aspiring-to-become-unicorns-prof-m-m-goel/

https://images.app.goo.gl/pVpETnKmfD3TCPyQ9

https://www.bhaskar.com/local/haryana/kurukshetra/news/national-education-policy-2020-is-going-to-increase-skill-building-of-students-governor-dattatreya-132318789.html

https://vidyabharatisamvad.com/3234/meeting-of-shiksha-kumbh-of-kurukshetra-and-national-institute-of-technology-nit-kurukshetra/

https://youtu.be/gz_YmcC81g4?si=PZ6No30X3wqaDLkZ

https://youtu.be/E5iIlYcPGpI?si=hD_dbfUCtMt61x_T

https://youtu.be/JfnEe63SOrE?si=QQq07xNrYWC09lUp

https://www.youtube.com/live/FFfdSd8_XOw?si=JK_7MI_yNooXoDB-

5.4. Conclusion

This chapter meticulously explores the far-reaching impact of the campaign, both in traditional print media and the dynamic landscape of digital platforms. The diverse and extensive coverage across regions, coupled with endorsements from prominent personalities, attests to the campaign's success in achieving widespread recognition and engagement. The detailed analysis of media presence and the resonance of the program's messages in both print and digital spheres contributes to a comprehensive understanding of the campaign's effectiveness and influence.The Outcome driven out of it are described in Chapter 6.

CHAPTER-6
The Outcome

6.1. Introduction

Exploring the Impact of Academic-Driven Startups on the Global Economy: Insights from Shiksha Kumbh

In the ever-evolving landscape of education and entrepreneurship, the convergence of academia and startups has emerged as fertile ground for innovation, growth, and transformation. The recent Shiksha Kumbh conference, with its thematic focus on the pivotal role of academic-driven startups in the global economy, served as a unique platform for scholars, industry experts, entrepreneurs, and policymakers to delve into the intricacies of this dynamic relationship.

As we embark on a journey to dissect the outcomes of the Shiksha Kumbh, we delve deep into the diverse dimensions of academic-driven startups and their profound impact on the economy. From the inception of the franchise model to the vibrant exhibition showcasing groundbreaking innovations, from the scholarly discourse presented in meticulously crafted research papers to the invaluable insights shared by distinguished speakers, and from the stimulating panel discussions to the strategic sponsorships that formed the bedrock of the event's success, each facet offers a nuanced perspective into the multifaceted world of academic-driven startups.

Join us as we untangle the intricate threads of innovation, collaboration, and entrepreneurship intricately woven into the fabric of the global economy by academic-driven startups. Through the enlightening chapters that follow, we aim to shed light on the transformative potential of these startups and their pivotal role in shaping the economic landscape on a global scale.

Outcome Shiksha Kumbh - Unveiling the Dynamics of Academic-Driven Startups in the Global Economy.

6.1.1. Franchise Model

The strategic evolution of the Shiksha Kumbh into a franchise model is a groundbreaking outcome that showcases the event's growing influence. Originating from the success of the Shiksha Mahakumbh campaign, where the idea of conducting a massive annual event in collaboration with Institutions of National Importance took root, the Shiksha Kumbh franchise model is set to redefine the landscape of educational events. The decision to collaborate with institutions such as NIT Srinagar, NIT Hamirpur, and NIT Delhi for future editions signifies a paradigm shift, turning Shiksha Kumbh into an annual field-

specific event while the Shiksha Mahakumbh continues its legacy as a global educational extravaganza.

6.1.2. Exhibition

The exhibition segment emerged as a vibrant tapestry of innovative ideas and educational advancements. Stalls from distinguished entities like ATL Lab, Punjab Super 100, Tredul, Swadeshi Bazaar, TuDu, Jobs360^{0}, Sarvatr, E-Cycle, Viksit India, Ramaiah University Bangalore, Bureau of Indian Standers, Hayana Yog Aayog, and Shri Krishna Ayush University provided a dynamic showcase of their contributions to the educational sector. This segment not only acted as a visual spectacle but also facilitated direct interactions between participants and these educational influencers.

6.1.3. Papers

The intellectual backbone of Shiksha Kumbh was the presentation of 43 research papers. These papers, spanning a plethora of topics under the overarching themes of skill development, startup entrepreneurship, and best practices by institutions and companies, added a rich layer to the academic discourse of the event. Researchers and academics delved into critical issues, presenting their findings and contributing valuable insights that resonate with the contemporary challenges and opportunities in education and entrepreneurship.

6.1.4. Speakers

The distinguished lineup of speakers for Shiksha Kumbh represents a diverse array of expertise and experience, collectively contributing to the enriching dialogue on education. Notable figures such as Prof. B. V. Ramana Reddy, Director of NIT Kurukshetra, Prof. Raj Nehru, VC of Shri Vishwakarma Skill University Haryana, and Shri Bandaru Dattareya, Hon'ble Governor of Haryana, bring institutional leadership and governance perspectives. Legal expertise is lent by Advocate Mr. Ashwini Upadhyay, Senior Advocate at the Supreme Court. Prof. Sathans from NIT Kurukshetra, Swami Bhitiharananda Ji Maharaj of Ram Krishna Mission, and Dr. Thakur SKR from ISRO and the Department of Holistic Education offer insights from the realms of academia, spirituality, and scientific research. The lineup further includes individuals like Mr. Jaideep Arya, Chairman of Haryana Yog Aayog, and Dr. Rishiraj Vashishtha, President of Hindi Shiksha Samiti, Haryana, contributing expertise in yoga and language education. Noteworthy contributions are expected from Prof. Dr. B. S. Prasad of the National Commission for Indian System of Medicine, Dr. Sourav Ghosh of Patanjali Research Foundation, and Prof. Madan Mohan Goel, Propounder of Needonomics School of Thought, providing insights into traditional medicine, scientific research, and innovative

educational philosophies. Additionally, social impact and governance perspectives will be shared by Col. Gunjan Chowdhary, Director of the National Council for Vocational Education and Training, and Shri Sanjay Dixit, Retd. IAS, and Founder of The Jaipur Dialogue. The speakers collectively form a distinguished panel, ensuring Shiksha Kumbh will be an intellectually stimulating and diverse forum for the exchange of ideas and perspectives in the field of education.

6.1.5. Panel Discussion

A highlight of Shiksha Kumbh was the insightful panel discussion that brought together CEOs, directors, academicians, and YouTubers, all actively involved in startups. Moderated by Col K.K. Kakkar, Founder Director of a startup in the food processing industry, the discussion unfolded the theme of academic-driven startups' pivotal role in the economy. Panelists, including Prof. Manjit Bansal, Dean at MRS PTU, and Dr. Manoj Kumar Teotia from CRRID, Chandigarh, brought valuable academic insights to the discussion. The entrepreneurial realm was well-represented by Mr. Satender Singh, Founder of the English Lover Youtube Channel, Ms. Kanchan Kesari, and Mr. Rupesh Keshari, Founders of the English Connection Youtube Channel, Mr. Rohit Vaidvan, Founder of the Adhyayan Mantra Youtube Channel, and Mr. Varun Singhal, Founder of Gate Smashers Youtube Channel. Additionally, Mr. Abhinay Sharma, Founder of Abhinay Maths Youtube Channel, and Mr. Mudit Thakkar, Founder of the Youngovator YouTube Channel, provided a digital innovation perspective., engaged in a robust exchange of ideas. The depth of insights shared during this discussion contributed significantly to shaping the narrative around academic-driven startups.

6.1.6. Sponsorship

The success of Shiksha Kumbh was further amplified through strategic sponsorships and support from institutions of repute. Ramaiah University Bangalore, Bureau of Indian Standers, Hayana Yog Aayog, Shri Krishna Ayush University and NCVET played a crucial role in underlining the event's significance and reach.

6.2. Conclusion

In conclusion, Shiksha Kumbh, with its franchise model, dynamic exhibition, scholarly papers, distinguished speakers, engaging panel discussions, and strategic sponsorships, stands as a testament to its transformative impact on the discourse surrounding academic-driven startups in the global economy. The event not only provided a platform for the exchange of knowledge and ideas but also set the stage for continued collaboration and innovation in the realm of education and entrepreneurship.

Results

Results of the winners of the Paper Presentationsis provided in subsequent sections.

Papers Presentation

Authors	Institute/ Affiliation	Manuscript Title	Session Title	Prize/ Position
Ms. Garima Thakur & Mr. Pankaj Kumar (Paper ID-G1-P21)	Department of Mathematics Central University of H.P., India	Enhancing Security in The Metaverse: An Ecc-Based Three-Factor Authentication Approach	Skill And Startup	1st Prize (Joint)
Mr. Patil Shrinivas Kiran, Dr. Anjana S. Lawand & Dr. Prakash A. Mahanvar(Paper ID-G2-P3)	Punyashlok Ahilyadevi Holkar Solapur University, Solapur, MH, India	Government Initiative and Policies for Promoting Acadamic Driven Startups - Case of Punyashlok Ahilyadevi Holkar Solapur University Solapur and Its Incubation Centre	Entrepreneur ship	1st Prize (Joint)
Dr. Neeraj Kumar & Dr. Naresh Kumar (Paper ID-G3-P8)	Shri Krishna Ayush University, Kurukshetra	Ayurveda: Opportunities, Emerging Trends and Challenges	Best Practices and Research	1st Prize (Joint)
Ms. Mamta Bhola (Paper ID G1-P22)	Shiksha Bharti Vidhlaya	Shiksha Bharti Vidhlaya ATL-Lab	Skill And Startup	2nd Prize (Joint)
Mr. Pratibha Sandhu & Sathans Suhag (Paper ID G2-P7)	National Institute of Technology Kurukshetra	A Sustainable Solar Energy Source to Meet Energy Demand in rural area	Entrepreneur ship	2nd Prize (Joint)
Ms. Renuka Shyam Narain (Paper ID G3-P16)	IIHSG Delhi	Integration of AI into the Education System of India: Implications on NEP 2020	Best Practices and Research	2nd Prize (Joint)
Prof. Simran Devgan (Paper ID G1-P17)	Shri Krishna Ayush University, Kurukshetra	Induction of Start Up Culture on School Level	Skill And Startup	3rd Prize (Joint)
Ms. Tamanna1 & Dr. Meenakshi (Paper ID G2-P14)	IMSAR, MDU Rohtak, Rohtak, Haryana	Breaking Ground: Unveiling the Overlooked Challenge of Cultivating Agripreneurship Intentions in North Haryana's Rural Agrarian Community	Entrepreneur ship	3rd Prize (Joint)
Ms. Deepika Gautam&Mr. Pankaj Kumar (Paper ID G3-P20)	Central University of Himachal Pradesh	Securing Vehicular Digital Twin: Blockchain Based AuthenticationSystem	Best Practices and Research	3rd Prize (Joint)