



SREE AYYAPPA COLLEGE FOR WOMEN
(Re-accredited by NAAC with B Grade - 3rd cycle)
Chunkankadai, Nagercoil



IIC NEWSLETTER MINDSPARK

*"Ignite your infinite potential with Mindspark
where learning meets innovation"*



| 2021-2022

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OUR PRINCIPAL

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OUR SECRETARY



ADV.SRI.SANGEETH KUMAR



Dr. K.V.JAYASHREE



OUR PRINCIPAL



THE TEAM



Dr.K.V.JAYASHREE

GUIDED AND SUPPORTED BY
PRINCIPAL

"Success is not final, failure is not fatal: It is the courage to continue that counts."

- Winston Churchill



Dr.R.RADHA

DESIGNED AND EDITED BY

CHIEF EDITOR AND STARTUP
ACTIVITY CO-ORDINATOR, IIC

"The difference between the impossible and the possible lies in a man's determination"

- Tommy Lasorda



Dr.SMITHA NAIR

PROOF READ AND COMPILED BY

MANAGING EDITOR AND PRESIDENT, IIC

"Patience, persistence and perseverance make unbeatable combination for success"

- Napoleon Hill

EDITORIAL TEAM

DESIGN TEAM LEADS



Ms.NIRANJANA



Ms.H.S.LATHIKA

TECHNICAL TEAM LEADS



Ms.J.G.VANDANA



Ms.M.RAKSHETIKA

ORGANISING TEAM LEADS



Ms.VARSHA BHAGIRATHI



Ms.P.R.KAVYA

EDITOR'S DESKTOP

Dear Readers,

Welcome to another exciting edition of our IIC Newsletter –Mindspark! In today's fast-paced world, where change is the only constant, it is more important than ever for students to embrace their entrepreneurial spirit and cultivate their innovation skills. The future belongs to those who can think creatively, solve problems, and adapt to new challenges, and we are here to help you on that journey. As students, you possess a unique advantage: the freedom to dream big and explore uncharted territories. Your energy, passion, and fresh perspectives are the catalysts that can shape a new era of innovation. It's time to break free from the traditional moulds and dare to think differently. At its core, entrepreneurship is about identifying problems and developing innovative solutions. Look around you, and you'll find countless opportunities waiting to be seized. Don't be afraid to take the first step. As entrepreneurs, you have the power to turn obstacles into opportunities and make a real impact on the world.

Remember, failure is not the end; it's a stepping stone on the path to success. Many renowned entrepreneurs have faced setbacks and obstacles before achieving greatness. Embrace failure as an opportunity to learn, grow, and iterate. Each setback brings you closer to finding the winning formula. Your resilience and determination will be your greatest assets as you navigate the unpredictable terrain of entrepreneurship. As we conclude this edition of our newsletter, we urge you to embrace your entrepreneurial spirit. Be bold, be fearless, and most importantly, believe in yourself. The journey may be challenging, but the rewards are immeasurable. Together, let's shape a future where innovation thrives, and entrepreneurship becomes a way of life. Wishing you an inspiring and transformative journey.



PRINCIPAL'S MESSAGE



I am happy to pen a few lines for the Annual Newsletter - "MINDSPARK" of IIC of our college. Innovation is the currency that can travel beyond a number of barriers in today's knowledge economy. Therefore, HEI's primary challenge is to transform its stakeholder from 'Knowledge consumers' into 'Knowledge Producers'. The advancement of the contemporary global society will depend on information and innovation. The innovation and entrepreneurship centre at our college works to promote these values among its stakeholders. I am glad that IIC of our college has meticulously completed this duty over the years. I hope this message finds you all in good health and high spirits as we continue our journey towards fostering a culture of entrepreneurship and innovation within our community.

In this edition, we aim to delve even deeper into the world of entrepreneurship and innovation. Our team has been hard at work, curating insightful articles, interviews, and success stories to inspire and educate you. Before concluding, I would like to express my heartfelt appreciation to our dedicated team of editors, writers, and contributors. Their hard work and passion for entrepreneurship have made this newsletter possible. I am truly grateful for their unwavering commitment and dedication. I invite you to explore the second edition of our Entrepreneurship and Innovation Newsletter with an open mind and an adventurous spirit. May it inspire you, ignite your creativity and empower you to make a meaningful impact in the world.

I wish all the participants and Editorial Team the very Best!



ABOUT SREE AYYAPPA COLLEGE FOR WOMEN

Sree Ayyappa College for Women was started in the year 1969 by Sree Ayyappa Educational Society, comprising some prominent members of the local Malayalam – speaking community in Kanyakumari District. Sree Ayyappa College for Women is affiliated to Manonmaniam Sundaranar University (MSU) re-accredited by NAAC with 'B' grade. The institution is established with the motto, 'Siksha Dharmena Shobathe' and serves as a dynamic institution of higher learning, set in a rural milieu of Southern Tamil Nadu.

JOURNEY OF IIC ESTABLISHED IN OUR COLLEGE

Sree Ayyappa College has established Institution's Innovation Council (IIC) as per the guidelines of 'MoE's Innovation Cell (MIC)' on October 25, 2019. The major focus of IIC at Sree Ayyappa College for Women is to create a vibrant local innovation ecosystem, Start-up supporting Mechanism in HEIs, prepare the institute for Atal Ranking of Institutions on Innovation Achievements Framework, establish a Function Ecosystem for Scouting Ideas and Pre-incubation of Ideas and to develop better Cognitive Ability for Students. The Institution Innovation Cell of Sree Ayyappa College for Women is actively involved in organizing and conducting seminars, workshops, field trips, project exhibitions, entrepreneurship bootcamps, Idea competitions etc. for its students and faculties.





Vision

- To develop the institution as a platform committed to supporting, promoting, and providing infrastructure for entrepreneurship and innovation.
- To inculcate innovation and entrepreneurship skills among the students and faculty.
- To ensure cooperation, assistance, and funding from the state, central governments, governmental agencies, NGOs, Private entrepreneurs, angel funding, corporate CSR funding, and other sources for the development, research, and implementation of innovation and startup projects.
- To provide incubation facilities and get the participation of PSUs, Corporates, public and private ventures to sponsor and avail such facilities in the institution.
- To conduct workshops, seminars, webinars, industrial visits, surveys, and other interaction programs with students and faculty in collaboration with the university, governments, governmental agencies, and private or public organizations on the various aspects of developing an entrepreneurial-minded society.
- To ensure participation of the institution, students, and faculty in the outreach programs organized by the National Institutional innovation council, Tamil Nadu Startup and Innovation Mission, Other central and state government bodies, and the University and educational institutions for the promotion of the goals of innovation and start-up ventures.
- To avail the assistance of TNSIM and other state and central agencies and governments and also assist the student and faculty innovators and start-up promoters in the matters of IPR registrations, permissions, licenses and legal issues which may arise from time to time.
- To ensure and avail the institutional funding as permitted by the National policy for innovation and startup activities.



Mission

- To develop a new culture of entrepreneurial thinking among the students.
- To visit and interact with successful women entrepreneurs.
- To identify, promote and provide support to students for scaling up their business ventures.
- To extend mentor support on a regular basis.
- To create awareness among students about various Government initiatives for women's empowerment and the welfare of the women population in the college.



CORE COMMITTEE MEMBERS

PRINCIPAL



PRESIDENT



CONVENER



SOCIAL MEDIA
CO-ORDINATOR



FACULTY CO-ORDINATORS

STARTUP-ACTIVITY
CO-ORDINATOR



IPR-ACTIVITY
CO-ORDINATOR



ARIIA
CO-ORDINATOR



INTERNSHIP
CO-ORDINATOR



INNOVATION
CO-ORDINATOR



NISP
CO-ORDINATOR



SIH
CO-ORDINATOR



IIC FACULTY
MEMBERS



STUDENT CO-ORDINATORS

START-UP ACTIVITY STUDENT
CO-ORDINATOR



Ms. DIYA BABU

IPR ACTIVITY STUDENT
CO-ORDINATOR



Ms. S.S. DEVIKA

INTERNSHIP STUDENT
CO-ORDINATOR



Ms. S. SABITHA

INNOVATION STUDENT
CO-ORDINATOR



Ms. MANJANA

SOCIAL MEDIA STUDENT
CO-ORDINATOR



Ms. J. LAPARNA

EXTERNAL EXPERTS/MENTORS



Dr. M. MANOJ

Associate Professor,
Marian Engineering College
Trivandrum.



Mr. KRISHNAN UNNI

CEO, Acutro Technologies Pvt.
Ltd., Trivandrum



Dr. ARUN SURENDRAN

Strategic Director and Principal
Trinity College of Engineering,
Trivandrum



Dr. M. MENAGA

CEO, Bioneemtec India Pvt Ltd
Womens Biotech Park, Siruseri,
Chennai, Tamilnadu





INNOVATION AMBASSADORS



Dr.SMITHA NAIR

Asst. Professor of Chemistry
(Basic& Advanced Level)



Dr.S.UMA DEVI

Asst.Professor of Botany
(Basic& Advanced Level)



Dr.R.RADHA

Asst.Professor of Zoology
(Basic & Advanced Level)



Dr.R.JANATHAKUMARI

Asst.Professor of English
(Basic& Advanced Level)



Dr.J.PRASANNAKUMARI

Asst.Professor of Economics
(Basic& Advanced Level)



Dr.T.ANITHA

Asst.Professor of History
(Basic& Advanced Level)



Dr.K.R.SOBHA

Asst. Professor of Mathematics
(Basic Level)



Mrs.B.S.RAKHI

Asst.Professor of Botany
(Basic Level)



Dr.V.R.ANJANA

Asst.Professor of Zoology
(Basic Level)



Dr.T.S.ARCHANA

Asst.Professor of Commerce
(Basic Level)



TESTIMONIALS



Mr. KRISHNAN UNNI

CEO, ACUTRO TECHNOLOGIES Pvt. Ltd.,
TRIVANDRUM

“

I am delighted to share my experience with the Institution's Innovation Council (IIC) at Sree Ayyappa College. The IIC has been a game-changer, igniting a spirit of innovation and entrepreneurship among the students. In just a short period of time, it has become the epicentre of creativity and collaboration on campus.

The IIC provides an exceptional platform for students to nurture their innovative ideas and turn them into reality. The council organizes various workshops, seminars, and competitions that enhance our knowledge and skills in diverse fields such as technology, design thinking, and business development. These events are conducted by industry experts who share their insights and experiences, inspiring us to think beyond conventional boundaries.

One of the standout features of the IIC is its strong focus on hands-on learning. The council has established a well-equipped innovation lab where students can experiment, prototype, and test their ideas. The lab offers state-of-the-art tools and resources, enabling us to bring our concepts to life and witness the tangible results of our hard work. It encourages interdisciplinary interactions, bringing students from different departments together to work on innovative projects. This not only broadens our horizons but also teaches us the importance of effective communication, cooperation, and collective problem-solving. The IIC has undoubtedly transformed the college experience. I am grateful to be part of this dynamic institution and its progressive IIC, which has opened doors to a world of endless possibilities.





Dr.M.MANOJ

ASSOCIATE PROFESSOR, MARIAN ENGINEERING COLLEGE, TRIVANDRUM

“

Collaborating with the IIC of Sree Ayyappa College for Women was a truly transformative experience for me. The Innovation Council is a haven for students who are eager to explore the realms of innovation & entrepreneurship. Through its dynamic and engaging activities, the council has nurtured a culture of innovation, pushing boundaries and encouraging students to think beyond conventional norms. One of the key strengths of IIC is its diverse and talented community. I have had the privilege of collaborating with like-minded individuals from various disciplines. This interdisciplinary approach has fostered a rich exchange of ideas and perspectives, resulting in truly remarkable projects and initiatives.

The events and workshops conducted by IIC have been instrumental in enhancing the knowledge and skills of stake holders. Every activity has offered a unique learning opportunity to students. These experiences have not only enriched their academic journey but have also equipped them with practical skills that are highly sought after in today's ever-evolving world. Moreover, the council has provided a platform to showcase innovative ideas and projects. The supportive and encouraging environment created by the club's mentors and fellow members has boosted confidence and motivated students to pursue innovative endeavours. Whether it was developing a mobile app, organizing a hackathon, or participating in a science fair, the Innovation Club has consistently provided guidance, resources, and a network of mentors to help stakeholders.

It was evident that IIC of Sree Ayyappa College for Women has also emphasized the importance of social impact and community engagement. Through various outreach programs and collaborations with local organizations, they were able to apply skills and knowledge to address real-world challenges. The council has been a catalyst for personal and intellectual growth, offering a platform for exploration, collaboration, and the pursuit of excellence. Through its inspiring community, a diverse range of activities, and focus on social impact, the Innovation Council has truly made a profound impact and will continue to inspire student community.





Mr.M.DHILIPHAN KUMAR

M. B. A, M. Sc, M. Com, PGDLL&AL, PGDSL, M.Phil, Ph.D., PDF.

PROFESSOR AND HEAD - STELLA MARY BUSINESS SCHOOL ,
STELLA MARY SCHOOL OF ENGINEERING , NAGERCOIL

“

The combined efforts of the management, Principal, faculty members, and students have undoubtedly created an environment that nurtures creativity, innovation, and entrepreneurial thinking at Sree Ayyappa College for Women, Nagercoil. Through their tireless dedication and visionary leadership, the members of the Institutions Innovation Council have transformed the institution into a powerhouse of innovation, empowering students to become leaders and change-makers in their respective fields.

I extend my deepest appreciation and gratitude to the management, Principal, President – IIC, and members of the Institutions Innovation Council for their unwavering commitment to fostering innovation and entrepreneurship among students. Their remarkable contributions have not only made a significant impact on the lives of students but have also elevated the reputation of the institution. I wholeheartedly support their endeavours and wish them continued success in their future initiatives.



COLLABORATIONS - MOU SIGNED

The Institution Innovation Council of Sree Ayyappa College for Women has signed Memorandum of Understanding (MoU) with institutions and non-governmental organizations to establish a clear and mutual agreement upon framework for collaboration, ensuring that all parties involved are aligned in their goals, responsibilities and expectations. The main objective of the MoU is to offer many academic programs ranging from short term, certificate to Diploma courses, allowing students for undergoing employability training programs, providing pre-placement training programs that will be helpful for the students in building their life career and to arrange workshops, seminars and management development programs for the students to acquire skills required for the global competency and to develop linkages between Industry and Academia to act as a bridge between students aspiring for internship field exposure and local industry.



**FINURA BIOTECH,
NAGERCOIL**



**ACUTRO TECHNOLOGIES,
TRIVANDRUM**



ACHIEVEMENTS

Inauguration of Innovation and Incubation Centre at Sree Ayyappa College for Women and launching of Eco vibe Agritech – an Agritech start-up-joint initiative of faculty and students.



COMMENCEMENT OF MUSHROOM FARMING IN CAMPUS



National Level Intercollegiate Meet on Entrepreneurship, Idea Pitching Contest, Internal Hackathon



Workshop on Toy making, Agri-Entrepreneurship and Business Model Canvas



Field/Exposure Visit to Incubation Centres Mushroom cultivation Unit - Finura Bioteks



Star Rating Certificate 2021-2022 (3.5 stars/5)

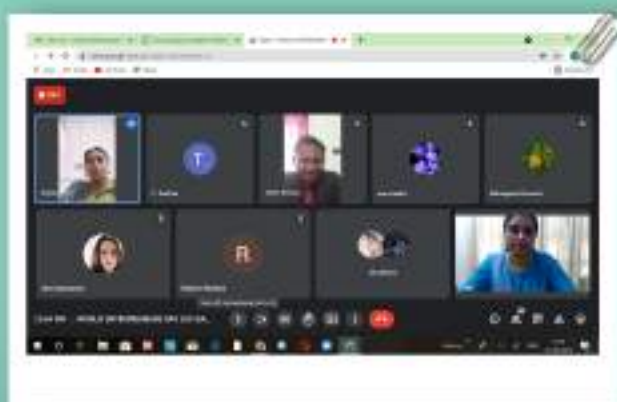


IIC ACTIVITIES FROM JUNE 2021 - MAY 2022

1. Orientation Sessions for Students by Innovation Ambassadors -Dr Smitha Nair, Dr R. Janathakumari, Dr S. Umadevi and Dr Radha. R – Ambassador from 26/07/21 to 27/07/21



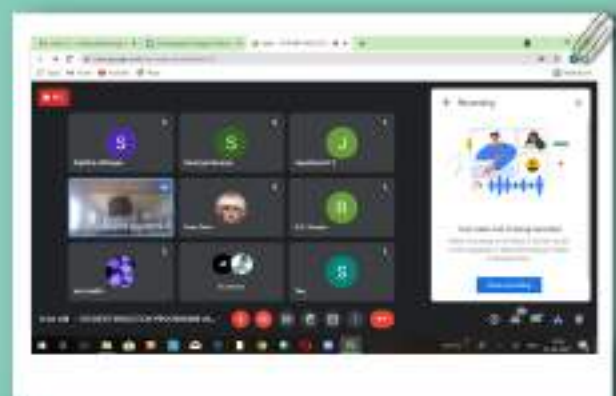
2. Session on World Entrepreneurship Day 2021 by Mr. M. Ram Niranj, Sr. CSM, Allianz Services, UK, and Mr. Arun. V. Nair, Co-founder and Chief Operating Officer, Sport hood on 23/08/2021 and 24/08/2021



3. National Level Intercollegiate Meet on Entrepreneurship - Virtual Debate on the topic which is best for Entrepreneurs. Self-funding or Loans, Essay writing on the topic- Role of Entrepreneurs in Nation Building and Poster making on the topic – The Entrepreneur in You on 25/08/2021



4. Student Induction Programme 2021 -Session on Innovation and Entrepreneurship by Dr A. Shyla Suganthi, Secretary, Centre for Innovation and Incubation, Holy Cross College, Nagercoil on 22/9/2021



5. Inauguration of Innovation and Incubation Centre at Sree Ayyappa College for Women and launching of Ecovibe Agritech – an Agritech start-up-joint initiative of faculty and students on 24/09/2021



6. Session on the role of Education in Entrepreneurial journey by Dr Ravi Shankar, entrepreneur, Independent Management, Consultant and Counsellor, Hyderabad on 11/11/2021



7. National Start-up Day Celebrations- Session on Ideation –Finding the Innovation Spark by Mr Madhavan .C. Kurup, Associate Professor and Nodal officer, IEDC, Asian School of Business, Techno city, Trivandrum on 30/11/2021



8. Workshop on Business model canvas by Mr. Deepu Sanjeev, Corporate Relations and Placement Officer, Rajadhani Group of Institutions, Attingal on 06/12/2021



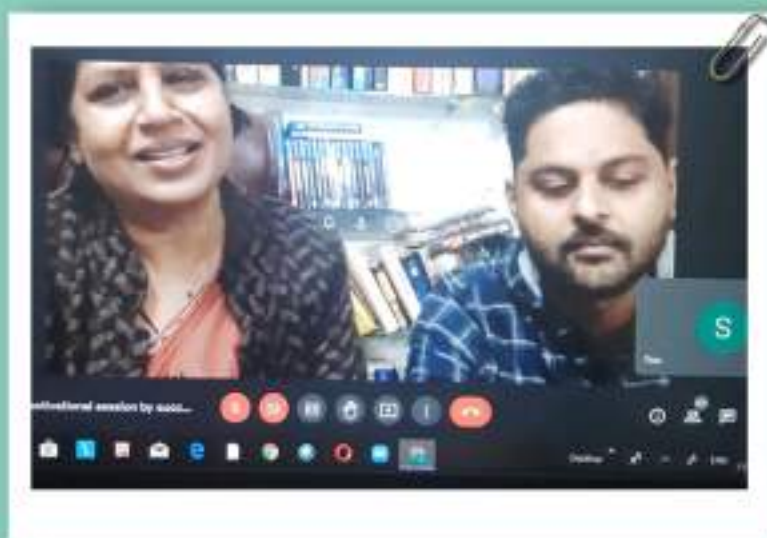
9. Session on Entrepreneurship and Innovation as a Career Opportunity by Arjun Panchal , Founder and CEO, Papa Zapata –the chain of Mexican outlets, Mentor at SIBM, Pune on 20/12/2021



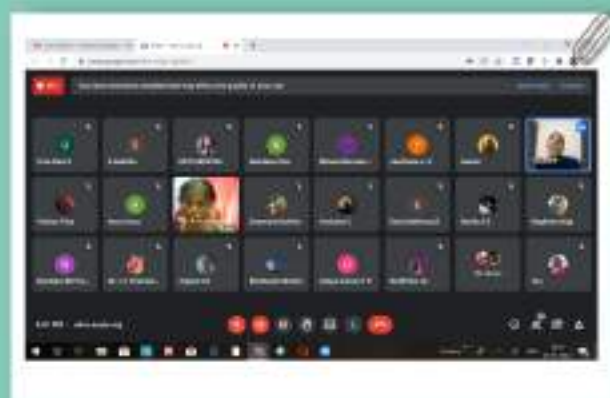
10. Idea Pitching Contest on 10/01/2022



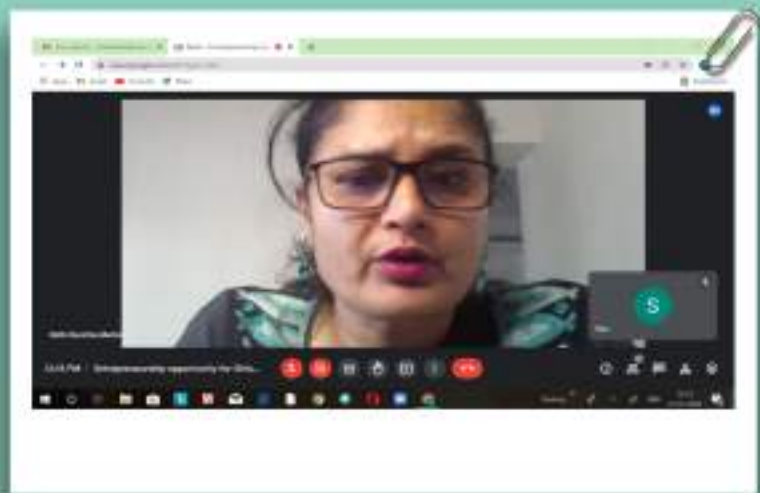
11. Session on My story: Motivational talk by Successful Entrepreneur by Mrs Jamana Mahajan, Founder, Satvic Foods & Mr. Viraj Mahajan, Co-Founder & CEO, Satvic Foods on 17/01/2022



12. Two days workshop on Toy making by Ms Radhika, Artist and Founder, Queen Bee Crafts and Creative Arts, Coimbatore from 25/01/2022 to 26/01/2022



13. Session on Entrepreneurship for girls as a career option and how to fuel your profession from your passion by Mrs. Nidhi Banthia Mehta, Business Consultant for MSMEs Entrepreneurship trainer and Mentor on 31/01/2022



14. Workshop on Design Thinking-Creative Problem Solving for developing Impactful products, solutions and Services to address Community Challenges by Mr. Jayakrishnan Divakaran, Co-founder-VNJ Systems LLP, Bangalore on 19/02/2022



15. Expert talk on the Process of Innovation Development and Technology Readiness Level and Commercialisation of Lab Technologies and Tech-Transfer by Mr. Balvindra Singh, Asst. Prof of Electrical Engineering, Govt. Women Engineering College, Ajmer, Rajasthan on 24/02/2022



16. Workshop on Entrepreneurship Skill, Attitude and Behaviour Development by Dr. Buddha Chandrasekhar, Chief Co-ordinating Officer, AICTE, Ministry of Education on 26/02/2022



17. Workshop on Agri-Entrepreneurship -Building a Talent Strategy for growing opportunities in Agri-business by Dr. S. M. Raffi, Associate Prof. of Aquatic Biology & Fisheries, University of Kerala, Thiruvananthapuram and Dr. Benno Periara, Assistant Professor, Department of Zoology, University of Kerala, Thiruvananthapuram on 17/03/2022



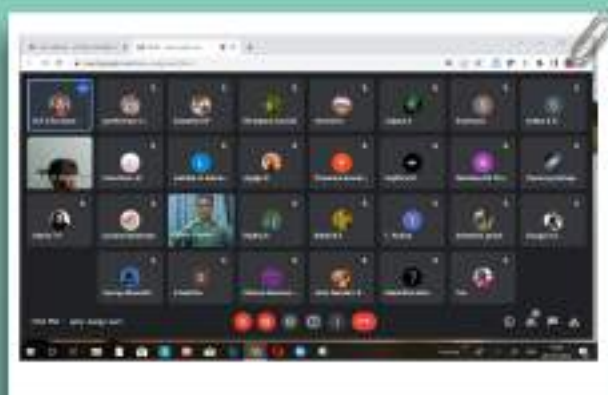
18. Session on The Role of Science and Technology for a Sustainable Future by Sri. A.V. Sathish, Scientific Officer, Nuclear Power plant, Kudankulam on 19 /03/2022



19. Session on Empowering Education towards Entrepreneurship by Dr Arun Surendran, Strategie Director and Principal, Trinity college of Engineering, Trivandrum on 01 /04/2022



20. Workshop on Prototype/Process Design and Development –Prototyping by Dr. Vipin Gopan, Associate Professor, St. Thomas College of Engineering and Technology, CEO-Kinesys Tech Solutions, CTO Encleaners on 06 /04/2022



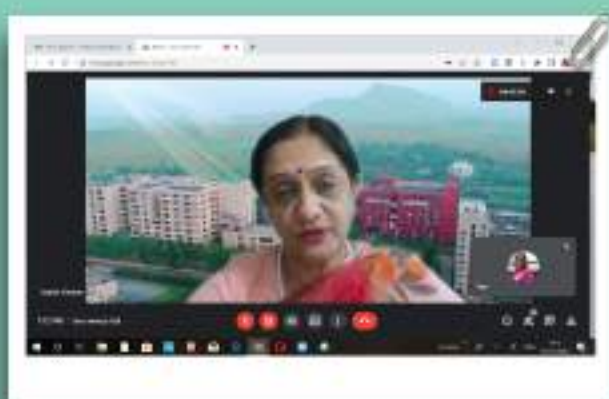
21. Webinar on mind map for IPR by Dr. K. Sivasakthi Balan, Associate Professor, Department of Mechanical Engineering, Sairam College of Engineering, Bangalore on 24 /04/2022



22. Internal Hackathon 2022 on 30 /04/2022



23. Session with Innovation and Start-up Ecosystem Enablers by Prof. Dr. Sayalee Gankar, Vice Chancellor, DY Patil University, Pune, Maharashtra on 03 /05/2022



24. Session on How to Plan for Startup -Legal and Ethical Steps by Dr. Manoj. M, Associate Professor, Marian Engineering College, Trivandrum on: 18/05/2022



25. Session on Business Model Canvas by Arjun Panchal, Founder and CEO, Papa Zapata –a chain of Mexican outlets, Mentor at SIBM, Pune on 20 /05/2022



26. Field/Exposure Visit to Incubation Centres- Mushroom cultivation Unit - Finura Bioteks, situated in Pandarapuram, Kanyakumari on 23 /05/2022





ROLE OF ENTREPRENEURSHIP IN ECONOMIC DEVELOPMENT

Entrepreneurship plays a crucial role in the economic development of nations. It is the driving force behind innovation, job creation, and wealth generation. Through their vision, risk-taking, and ability to seize opportunities, entrepreneurs stimulate economic growth, foster technological advancements, and create a favourable business environment. In this essay, we will explore the multifaceted role of entrepreneurship in economic development.

First and foremost, entrepreneurship is a catalyst for innovation. Entrepreneurs identify gaps in the market, envision new products or services, and bring them to life. They challenge the status quo, introduce disruptive ideas, and push the boundaries of what is possible. By introducing innovative solutions, entrepreneurs improve productivity, enhance efficiency, and contribute to overall economic progress. Their relentless pursuit of new ideas leads to the development of ground-breaking technologies, which in turn drive economic growth and competitiveness.

Furthermore, entrepreneurship is a powerful engine for job creation. Small and medium-sized enterprises (SMEs), often led by entrepreneurs, are the primary creators of employment opportunities. As entrepreneurs establish and expand their businesses, they hire workers, thereby reducing unemployment rates and enhancing the standard of living in the community. Additionally, entrepreneurs have the ability to identify and tap into niche markets, which can create employment opportunities in sectors that may have been previously overlooked.

Entrepreneurship also fosters regional and local development. When entrepreneurs establish businesses in underserved areas or regions with limited economic opportunities, they contribute to the decentralization of economic activities. By doing so, they help reduce regional disparities and create a more balanced and inclusive economic landscape. Local entrepreneurship empowers communities, encourages self-sufficiency, and stimulates the growth of supporting industries and services, thereby promoting overall economic development.



Moreover, entrepreneurship fuels economic growth by driving investment and capital formation. Entrepreneurs not only invest their own resources but also attract external investments. Their ventures generate profits and returns on investment, which can be reinvested in expanding the business or used to fund new entrepreneurial ventures. This injection of capital into the economy stimulates economic activity, facilitates the growth of industries, and creates a multiplier effect that generates further economic opportunities.

In addition to economic growth, entrepreneurship also contributes to social development. Entrepreneurs often address societal challenges through their innovative solutions. They develop products and services that improve the quality of life, enhance healthcare, promote sustainable practices, and address social inequalities. By addressing these issues, entrepreneurs contribute to social well-being, foster inclusivity, and promote a more equitable society.

Furthermore, entrepreneurship promotes a culture of creativity, resilience, and adaptability. Through their journey, entrepreneurs inspire others to pursue their dreams, take calculated risks, and embrace a mindset of continuous learning and improvement. The entrepreneurial spirit encourages individuals to think outside the box, experiment, and embrace failure as a learning opportunity. This culture of entrepreneurship nurtures a pool of skilled individuals who are well-equipped to drive economic development and navigate an ever-changing global landscape.

In conclusion, entrepreneurship is a vital force in economic development. Its impact extends beyond mere wealth creation and job generation. By fostering innovation, creating employment opportunities, promoting regional development, driving investment, and addressing social challenges, entrepreneurs contribute to the growth and prosperity of nations. Governments, educational institutions, and society should recognize and support entrepreneurship as a key driver of economic development, providing the necessary resources, infrastructure, and policies to encourage and nurture entrepreneurial endeavours. By doing so, we can unlock the full potential of entrepreneurship and pave the way for a prosperous future.

Rakshitha. M
III B. Sc Zoology



THE IMPORTANCE OF CREATIVITY AND DESIGN THINKING IN ENTREPRENEURSHIP

Creativity and design thinking are critical elements in the entrepreneurial journey. In a rapidly evolving and competitive business landscape, entrepreneurs must harness their creative abilities and apply design thinking methodologies to identify opportunities, develop innovative solutions, and create value. Creativity is the spark that ignites the entrepreneurial process. It enables entrepreneurs to generate unique and innovative ideas that can disrupt existing markets or create new ones. Through creativity, entrepreneurs can identify unmet needs, uncover hidden opportunities, and envision ground-breaking solutions. By thinking creatively, entrepreneurs can challenge conventional thinking and develop game-changing ideas that differentiate their ventures from competitors.

Entrepreneurs encounter numerous challenges throughout their entrepreneurial journey. Creativity and design thinking play a vital role in problem-solving and innovation. Design thinking, with its human-centered approach, encourages entrepreneurs to empathize with their target audience, understand their pain points, and develop innovative solutions to address them effectively. By adopting a design thinking mindset, entrepreneurs can design products, services, and experiences that are tailored to meet customers' needs and preferences, thereby increasing the likelihood of success and market acceptance.

In today's crowded marketplace, standing out from the competition is crucial for entrepreneurial success. Creativity allows entrepreneurs to differentiate their offerings by infusing unique features, aesthetics, or experiences that capture the attention and interest of their target customers. By leveraging design thinking principles, entrepreneurs can develop products and services that are not only functional but also visually appealing, intuitive to use, and emotionally resonant. Such differentiation can create a competitive advantage and increase the perceived value of their offerings.

Entrepreneurship is characterized by uncertainty, volatility, and the need for rapid adaptation. Creativity and design thinking empower entrepreneurs to be agile and responsive to changing market dynamics. By embracing a creative mindset, entrepreneurs can generate alternative solutions, explore different business models, and pivot when necessary. Design thinking methodologies, such as prototyping and testing, allow entrepreneurs to



gather feedback, iterate, and refine their offerings based on real-time insights. This iterative approach helps entrepreneurs to adapt quickly, reduce risks, and increase their chances of success in dynamic market environments.

Successful entrepreneurship revolves around meeting customer needs and creating value for them. Creativity and design thinking enable entrepreneurs to adopt a customer-centric approach throughout their ventures. By deeply understanding their target customers, their aspirations, pain points, and desires, entrepreneurs can develop products and services that truly resonate with their audience. Creativity and design thinking help entrepreneurs empathize with their customers, uncover insights, and translate those insights into innovative solutions that exceed customer expectations.

Entrepreneurship is not a one-time event but an ongoing journey of innovation and growth. Creativity and design thinking foster a culture of continuous innovation within entrepreneurial ventures. By embracing creativity as a core value and integrating design thinking into their processes, entrepreneurs encourage their teams to think creatively, experiment, and embrace a mindset of continuous improvement. This culture of innovation allows entrepreneurs to stay ahead of the curve, anticipate market trends, and continuously deliver value to their customers.

Creativity and design thinking are fundamental to the success of entrepreneurship. They enable entrepreneurs to generate innovative ideas, solve complex problems, differentiate their offerings, adapt to changing environments, and provide customer-centric solutions. By embracing creativity and design thinking, entrepreneurs can unlock their full potential, drive sustainable growth, and make a significant impact in the business world. Emphasizing and nurturing these qualities within entrepreneurial ecosystems is essential for fostering a culture of innovation and supporting the success of entrepreneurs and their ventures.

Vandhana.J.G
II B.Com



ENTREPRENEURSHIP IN THE DIGITAL AGE: LEVERAGING TECHNOLOGY FOR BUSINESS GROWTH

The digital age has revolutionized the entrepreneurial landscape, offering unprecedented opportunities for business growth and innovation. Entrepreneurship in the digital age entails leveraging technology to transform ideas into thriving ventures. This essay explores how entrepreneurs can harness the power of technology to drive business growth, gain a competitive edge, and create sustainable success in the digital era.

Technology has dismantled geographical barriers, enabling entrepreneurs to reach global markets with ease. Through e-commerce platforms, online marketplaces, and digital advertising channels, entrepreneurs can showcase their products or services to a worldwide audience. The internet has created a level playing field, allowing even small businesses to compete on a global scale and access new customer segments that were previously out of reach. This expanded market reach opens up tremendous growth opportunities for entrepreneurs.

Digital tools and platforms have transformed marketing strategies, making it more targeted, personalized, and cost-effective. Entrepreneurs can leverage social media, search engine optimization (SEO), content marketing, and email marketing to engage with their target customers directly. They can gather valuable insights about customer preferences, behavior, and feedback, enabling them to refine their offerings and enhance customer experiences. Digital marketing also allows entrepreneurs to build brand loyalty, foster customer relationships, and create a strong online presence, driving business growth and customer acquisition.

Technology serves as a catalyst for innovation and disruption in the entrepreneurial landscape. Entrepreneurs can leverage emerging technologies such as artificial intelligence (AI), blockchain, Internet of Things (IoT), and data analytics to develop new products, services, and business models. These technologies offer opportunities to streamline operations, enhance efficiency, and deliver unique value propositions to customers. By embracing innovation and leveraging technology, entrepreneurs can disrupt traditional industries, create new markets, and stay ahead of the competition.



Technology empowers entrepreneurs to automate repetitive tasks, streamline processes, and improve operational efficiency. Entrepreneurs can leverage software applications, cloud computing, and robotic process automation (RPA) to eliminate manual work, reduce costs, and optimize resource allocation. Automation frees up time and resources that can be redirected towards core business activities such as innovation, customer engagement, and strategic planning. By embracing digital tools and automation, entrepreneurs can maximize productivity, scale operations, and achieve sustainable growth.

In the digital age, entrepreneurs have access to vast amounts of data that can inform strategic decision making. Through data analytics and business intelligence tools, entrepreneurs can gain valuable insights into customer behavior, market trends, and operational performance. This data-driven approach enables entrepreneurs to make informed decisions, identify growth opportunities, and mitigate risks. By leveraging data, entrepreneurs can optimize marketing campaigns, personalize customer experiences, and enhance overall business performance.

Technology facilitates collaboration and networking among entrepreneurs, industry experts, and potential partners. Online communities, forums, and social networks provide platforms for knowledge sharing, mentorship, and collaboration. Entrepreneurs can connect with like-minded individuals, learn from their experiences, and seek guidance from industry veterans. These networks foster a culture of innovation, inspire new ideas, and create opportunities for partnerships, investments, and collaborations. By leveraging technology, entrepreneurs can build a strong support network, expand their industry connections, and accelerate business growth.

Entrepreneurship in the digital age offers immense possibilities for business growth and success. By leveraging technology, entrepreneurs can access global markets, engage with customers effectively, drive innovation, streamline operations, and make data-driven decisions. Embracing the digital transformation empowers entrepreneurs to stay ahead in a rapidly evolving business landscape, where technology continues to reshape industries and consumer behaviours. As technology continues to advance, entrepreneurs must adapt and leverage its power to unlock new opportunities, create sustainable growth, and make a significant impact in the digital era.

Niranjana Govind
III B.Sc Physics



THE HISTORY OF ENTREPRENEURSHIP

In the earliest period, definition of entrepreneurship began as early as the "MARCO POLO" who comes to the "middle east" for trade. Marco Polo has signed an agreement with the "capitalists" to sell their products. In the contract, "Merchant Adventure" took a loan at 22.5% rate including insurance. Capitalist was the passive risk bearer and merchant adventurer took an active role in trading. When the merchant adventurer completed the trip, the profits were divided with the capitalist, who take most of the profit up to 75% and remaining 25% will be taken by the merchant adventurer.

In the "17th century", the evolution of entrepreneur is the relationship between "Risk and Entrepreneurs". Entrepreneur is the person who signed the contract agreement with the government to provide a service or supply products that have been determined. The contract price is fixed. The entrepreneurs are fully responsible for the "Gains and Losses" of the business. "Richard"- an Economist defines entrepreneurs as, the entrepreneur is the Risk insurers, Merchants, Farmers, Craftsmen and so, is an entrepreneur. They buy things at a certain price and sell it as a price that is uncertain with the risks. In the "18th century", the person with capital was distinguished from the one who needed capital. One reason for the differentiation was the "Industrialization" occurring throughout the world.

In the "19th and 20th century", the entrepreneur organizes and manages an enterprise for personal gain. The material consumed in the business, for the use of the land, for the services he employs, and for the capital he requires. Andrew Carnegie, is one of the best example of this definition "Andrew" was descended from a poor Scottish family, made the American steel industry one of the wonders of the industrial world.

In the middle "20th century", the function of the entrepreneurs is to revolutionize the pattern of production by introducing an invention. "Innovation", the act of introducing "New Ideas", is one of the most difficult task for the entrepreneur. In the "21st century", Entrepreneurs are known as the "Hero" of free enterprise market. Entrepreneur of the century created many products and services and is willing to face a lot of risks in the business. The future of entrepreneurship will be the growth of development of technologies. The modern technologies and internet have improved the ways of conduct business entrepreneurs now have the luxury of putting their business idea into action through the click of button.



Top 10 Successful Entrepreneurs in the History

- 1) The co-founder of Microsoft, "Bill Gates" is widely considered as one of the most successful entrepreneurs. He started Microsoft in 1975 with his childhood friend Paul Allen and grew the company into world's largest computer software company.
- 2) The founder of Amazon "Jeff Bezos", is a wealthiest person with a net worth of 100 billion dollars, he started Amazon as a online book store and is a world's largest online retailer.
- 3) Warren Buffet is the CEO and largest shareholder of Berkshire Hathaway, which owns more than 60 companies.
- 4) The founder of Face book "Mark Zuckerberg" started the social media giant in his college dorm room in 2004. Today Face book has over 2.8 billion monthly active users.
- 5) The co-founder of Apple, "Steve jobs", is widely regarded as a visionary and innovator in technology industry. He helped to create some of the active products like I-Pad I-Phone etc.
- 6) The founder of "Oprah Winfrey", she is one of the most successful media personalities in history. She started her carrier as a media host and has since expanded her brand into multiple media ventures.
- 7) The founder of Tesla, Space X, "Elon Musk", is known for his entrepreneurial spirit and ability to disrupt industries. He is currently working on reusable rockets to make space travel more affordable.
- 8) "Richard Branson", is known for daring and adventurous spirit. He started virgin and since expanded the brand into multiple industries, including airlines and telecommunications.
- 9) "Henry Ford", founded the Automobile Industry, with his innovative production method. He is credited with making automobile affordable for the average person and helping to create modern transport system.
- 10) "Ray Kroc", founder of Mc Donald corporation turned a small fast food restaurant into one of the largest and most successful franchises in the world.

Varshini.C.S
I B.Com



IMPACT OF EMERGING TECHNOLOGIES ON STARTUP GROWTH

Emerging technologies have the potential to significantly influence the growth trajectory of start-ups across various industries. These technologies characterized by their disruptive nature, can create new opportunities, enhance operational efficiency, and enable innovative business models. In this article, we will explore the profound impact that emerging technologies have on start-up growth, discussing key areas such as product development, customer acquisition, operational efficiency and competitive advantage.

One of the key benefits of emerging technologies such as, artificial intelligence (AI), machine learning (ML), and the internet of things (IOT) have revolutionized product development processes for start-ups. These technologies enable start-ups to analyse vast amounts of data, gain insights, and make data-driven decisions. AI and ML algorithms can expedite research and development, allowing startups to bring products to market faster. Additionally, IOT technologies facilitate the integration of smart features into products enhancing their value proposition.

Another benefit of emerging technologies is that they can enhance customer acquisition. For example, start-ups can use social media and other digital marketing channels to reach a wider audience and build their brand. They can also use data analytics to better understand their customers and tailor their marketing strategies accordingly. In addition to accelerating product development and enhancing customer acquisition, emerging technologies can also improve operational efficiency. For example, start-ups can use automation and other tools to streamline their processes and reduce costs. This can help them operate more efficiently and ultimately drive growth.

In conclusion, emerging technologies have the potential to transform the start-up landscape and drive growth and success. By leveraging these technologies, start-ups can accelerate product development, enhance customer acquisition, improve operational efficiency and gain a competitive advantage. While there are challenges to overcome, the benefits of these technologies are clear and start-ups that embrace them are well-positioned for success.

Varsha Bhagirathi . S
I B.Com



FUNNY JOKES

- Why did the entrepreneur bring a ladder to the business meeting?
Because they wanted to reach new heights!
- What did the entrepreneur say to the pessimistic investor?
"Don't worry, I'm positive we'll make a profit!"
- How many entrepreneurs does it take to change a light bulb?
Just one, but they'll pivot six times before they find the right bulb.
- Why did the entrepreneur bring a pencil and paper to the restaurant?
To brainstorm new ideas while waiting for their food!
- Why did the entrepreneur start a bakery?
Because they kneaded some dough!
- How do entrepreneurs stay cool in summer?
They open a startup and enjoy the sweet cash flow!
- Why did the entrepreneur become a gardener?
Because they wanted to sow their wild oats!
- What did one entrepreneur say to the other at a networking event?
"I'll give you my business card if you promise not to call me!"
- Why did the entrepreneur become a stand-up comedian?
Because they heard there was good money in delivering punchlines!
- How did the entrepreneur describe their last failed startup?
It was an exercise in "profit and loss."

Lathika H.Subramanian
II B.Com



FAMOUS QUOTES ON ENTREPRENEURSHIP

"The entrepreneur always searches for change, responds to it, and exploits it as an opportunity."

- Peter Drucker

"Success is not the key to happiness. Happiness is the key to success. If you love what you are doing, you will be successful."

- Albert Schweitzer

"The biggest risk is not taking any risk. In a world that's changing quickly, the only strategy that is guaranteed to fail is not taking risks."

-Mark Zuckerberg

"The critical ingredient is getting off your butt and doing something. It's as simple as that. A lot of people have ideas, but there are few who decide to do something about them now. Not tomorrow. Not next week. But today."

- Nolan Bushnell

"Entrepreneurship is about turning what excites you in life into capital so that you can do more of it and move forward with it."

- Richard Branson

"The entrepreneur is essentially a visualizer and actualizer. He can visualize something, and when he visualizes it he sees exactly how to make it happen."

- Robert L. Schwartz

"I'm convinced that about half of what separates successful entrepreneurs from the non-successful ones is pure perseverance."

- Steve Jobs

"The value of an idea lies in the using of it."

- Thomas Edison

"Entrepreneurship is the ability to recognize the bigger picture, find where there's an opportunity to make someone's life better, design hypotheses around these opportunities, and continually test your assumptions."

- Eric Ries

"The most valuable thing you can make is a mistake - you can't learn anything from being perfect."

- Adam Osborne

ART CORNER

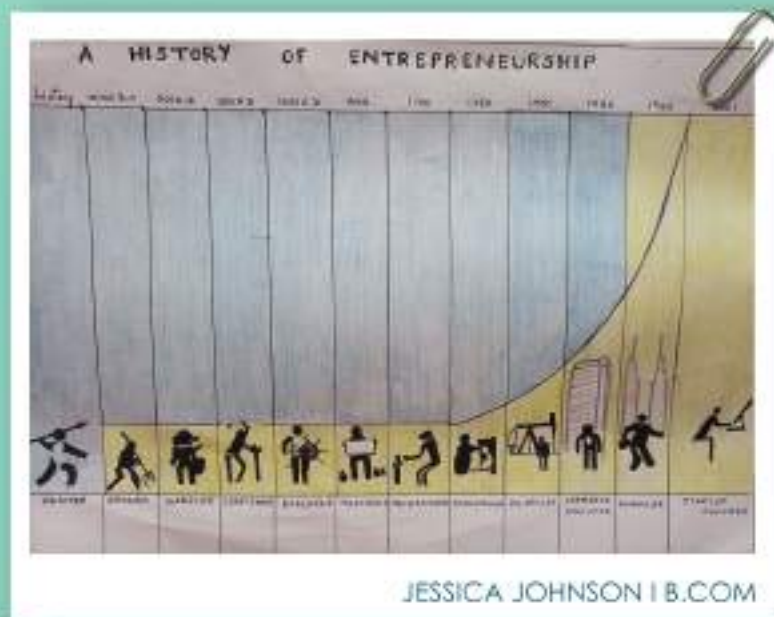


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