

3.2.1 Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

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LIST OF ACTIVITIES

Academic Year 2022-2023

| SL NO | PARTICULARS | SUPPORTING MEDIA / WEBSITE LINK | LINK TO REPORTS |
|-------|---|--|---|
| 1. | World Intellectual Property Day | https://www.sitmng.ac.in/SIT/Event-Details?url=World-Intellectual-Property-Day%E2%80%9D https://www.instagram.com/p/CruhojsJkgs/?utm_source=ig_web_copy_link | |
| 2. | From Dream to Reality: Unleashing the Entrepreneur Within You | https://sitmng.ac.in/SIT/Event-Details?url=Report-on-From-Dream-to-Reality-Unleashing-the-Entrepreneur-Within-You-2023 https://www.facebook.com/photo/?fbid=120540641074654&set=a.104196529375732 | |
| 3. | Inauguration of Srinivas – Lakshya Innovation centre | https://sitmng.ac.in/SIT/Event-Details?url=Report-on-Project-Skill-Development-and-Engineering https://www.instagram.com/p/CuycsP2LnE5/?utm_source=ig_web_copy_link&igshid=MzRIODBiNWFIZA== | https://sitmng.blob.core.windows.net/naacycle2/3.2.1_AY_2022-2023.pdf |
| 4. | Field/Exposure Visit to Pre-incubation units such as Ideas Lab, Fab lab, Makers Space, Design Centres, City MSME clusters, workshops, etc | https://sitmng.ac.in/SIT/Event-Details?url=Field%2FExposure-Visit%20 | |
| 5. | IDEATHON | https://sitmng.ac.in/SIT/Event-Details?url=Yukti-Ideathon2022 https://www.instagram.com/p/ClioomKCVW/?utm_source=ig_web_copy_link | |
| 6. | Workshop on Design Thinking and Critical Thinking - Comedkares Program | https://sitmng.ac.in/SIT/Event-Details?url=Workshop-on-Design-Thinking-and-Critical-Thinking-Comedkares-Program https://www.instagram.com/p/Cm6Lkpnqbpn/?utm_source=ig_web_copy_link | |
| 7. | My story – a motivational session By a successful entrepreneur | https://sitmng.ac.in/SIT/Event-Details?url=My-story%E2%80%93a-motivational-session%20%20 https://youtu.be/OR0Fe9H19SY | |

| | | |
|-----|--|--|
| 8. | Workshop on Importance of Innovation | https://sitmng.ac.in/SIT/Event-Details?url=Workshop-on-Importance-of-Innovation https://www.instagram.com/p/CpM9ehZo2RI/?utm_source=ig_web_copy_link |
| 9. | INNOVATION COMPETITION | https://sitmng.ac.in/SIT/Event-Details?url=INNOVATION-COMPETITION-2023 |
| 10. | Patent search and intellectual property rights (IPR) | https://sitmng.ac.in/SIT/Event-Details?url=Patent-search-and-intellectual-property-rights-(IPR) https://www.instagram.com/p/CmgLtssKo4j/?utm_source=ig_web_copy_link |
| 11. | Intellectual Property Rights & Prior Art Search | https://www.sitmng.ac.in/SIT/Event-Details?url=intellectual-property-rights-and-prior-art-search https://www.linkedin.com/posts/sitmng_alore_the-aimes-marine-students-association-and-activity-6886599964248682496-KYNX |
| 12. | Session on Bootcamp on Start-up Careers | https://sitmng.ac.in/SIT/Event-Details?url=%27Bootcamp-on-Startup-Careers%27 https://www.facebook.com/profile/100093561541706/search/?q=Session%20on%20Bootcamp%20on%20Startup%20Careers |
| 13. | Inter Institutional Idea Competition | https://sitmng.ac.in/SIT/Event-Details?url=Report-on-Inter-Institutional-Idea-Competition%2FPresentation |
| 14. | Workshop on "Exploring Creativity" | https://sitmng.ac.in/SIT/Event-Details?url=Workshop-on-Exploring-Creativity |
| 15. | Patent search and intellectual property rights (IPR) | https://sitmng.ac.in/SIT/Archives?monthYear=December2022 |
| 16. | Session on Prior Art search | https://sitmng.ac.in/SIT/Archives?monthYear=December2022 https://www.instagram.com/p/CmWKZuIqnIX/?utm_source=ig_web_copy_link |
| 17. | Information Search Analysis and Presentation (ISAP) | https://www.sitmng.ac.in/SIT/Event-Details?url=ISAP%E2%80%932022 https://www.instagram.com/p/Ck0Br_IKywL/?utm_source=ig_web_copy_link |
| 18. | A Session on Achieving Problem Solution Fit and Product Market Fit | https://sitmng.ac.in/SIT/Event-Details?url=A-Session-on%3A- |

| | | | |
|--|--|---|--|
| | | Achieving-Problem-Solution-Fit-and-Product-Market-Fit | |
|--|--|---|--|

Academic Year 2021-2022

| | | | |
|----|---|---|---|
| 1. | Awareness Program on Intellectual property rights (IPRs) | https://sitmng.ac.in/SIT/Archives?monthYear=April2022 | |
| 2. | Dr CA. A Raghavendra Rao Centre of Excellence | https://sitmng.ac.in/SIT/Placement/Centre-of-Excellence | |
| 3. | Session on "How to plan for Start-up and legal and Ethical Steps" | https://www.sitmng.ac.in/SIT/Event-Details?url=plan-for-Start-up-and-legal-and-Ethical-Steps | |
| 4. | Workshop on Business Model | https://www.sitmng.ac.in/SIT/Event-Details?url=Workshop-on-Business-Model | |
| 5. | Activity on "Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Center" | https://sitmng.ac.in/SIT/Event-Details?url=%E2%80%9CField-Exposure-Visit-2022 | |
| 6. | Intellectual property rights (IPRs) and IP management for start-ups | https://sitmng.ac.in/SIT/Archives?monthYear=March2022 | https://sitmng.blob.core.windows.net/naaccycle2/Naac2_3.2.1_AY_2021-2022.pdf |
| 7. | Workshop on Prototype / Process design and development prototyping | https://sitmng.ac.in/SIT/Event-Details?url=Workshop-on-Prototype-%2F-Process-design-and-development-prototyping | |
| 8. | World IP Day | https://sitmng.ac.in/SIT/Event-Details?url=world_ip_day | |

Academic Year 2020-2021

| | | | |
|----|---|---|---|
| 1. | Financial Education for Young Investors | https://www.sitmng.ac.in/SIT/Event-Details?url=SIT-Financial-Education-for-Young-Investors | https://sitmng.blob.core.windows.net/naaccycle2/3.2.1_AY_2020-2021.pdf |
|----|---|---|---|

Academic Year 2019-2020

| | | | |
|---|---|---|---|
| 1 | Entrepreneurship awareness program | https://www.sitmng.ac.in/SIT/Event-Details?url=Entrepreneurship-Awareness-Program | https://sitmng.blob.core.windows.net/naaccycle2/Naac2_3.2.1_AY_2019-2020.pdf |
| 2 | Importance and Necessity of EDP and Incubation Cell | https://www.sitmng.ac.in/SIT/Event-Details?url=EDP-and-Incubation-Cell-2019-20 | |

| | | | |
|---|---------------------------------|---|--|
| 3 | NIDHI - EIR Awareness Programme | https://www.sitmng.ac.in/SIT/Event-Details?url=EDP-and-Incubation-Cell-2019-20 | |
|---|---------------------------------|---|--|

Academic Year 2018-2019

| | | | |
|---|--|---|---|
| 1 | Effects of Architecture in Buildings-IKS | https://www.sitmng.ac.in/SIT/Event-Details?url=Effects%20of%20Architectu%20in%20Buildings-IKS | https://sitmng.blob.core.windows.net/naaccycle2/Naacc2_3.2.1_AY_2018-2019.pdf |
| 2 | Entrepreneurship Awareness Program | https://www.sitmng.ac.in/SIT/Event-Details?url=Entrepreneurship-Awareness-Program | |

Preamble

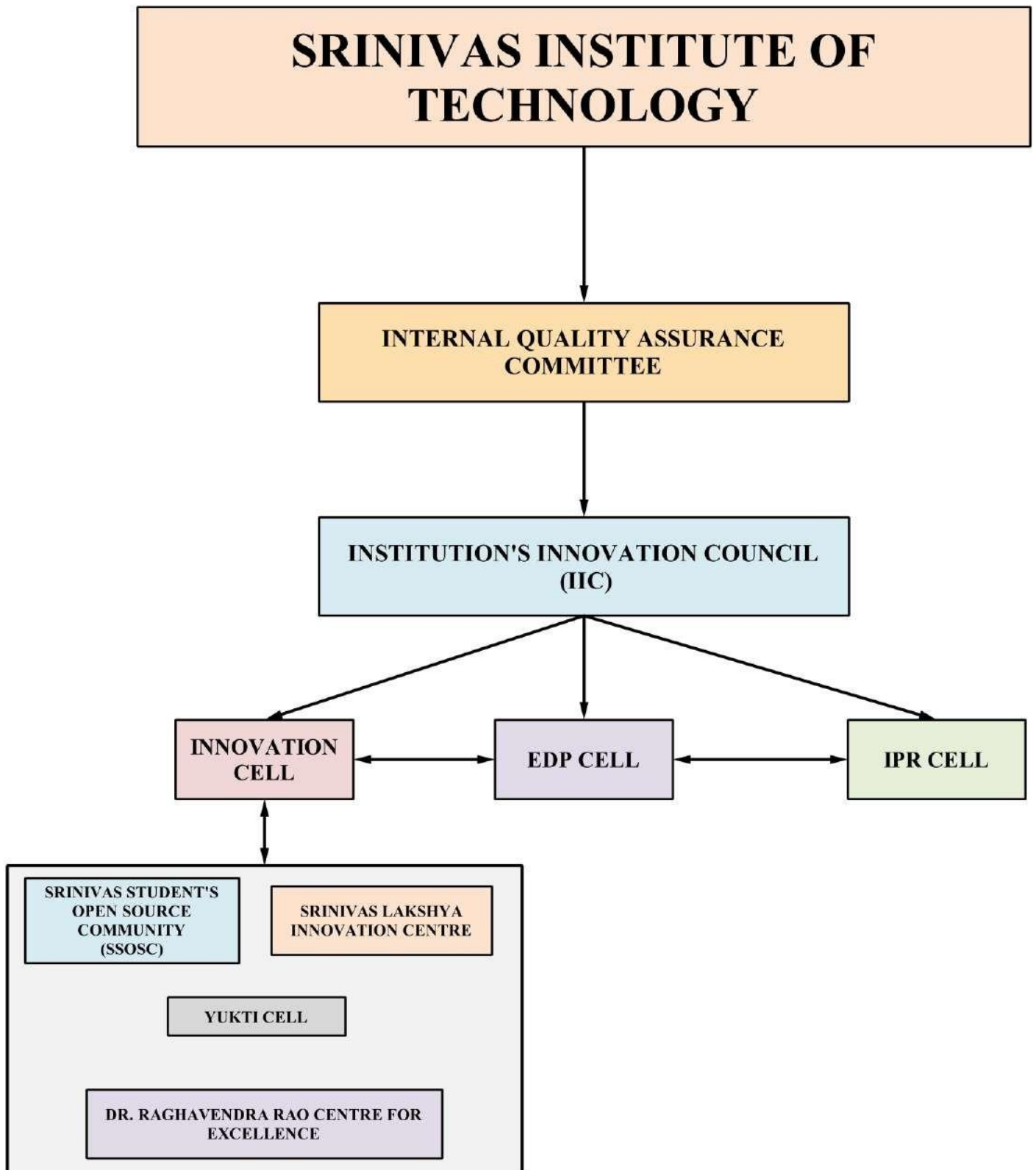
In the dynamic landscape of contemporary global advancements, nurturing an ecosystem for innovations is necessary for sustainable development. Recognizing the significance of harnessing this profound heritage, coupled with modern scientific principles, a comprehensive framework is established to cultivate innovation, disseminate knowledge, and protect intellectual property rights (IPR).

At the outset, the Institute had a dedicated Institute's Innovation Council (IIC), which brought together the aspects of innovation, entrepreneurship, and IPR under one system. The innovation cell, in turn, has subsidiary centres of excellence that encourage students to go beyond their regular curriculum in multidisciplinary activities. Centres such as the students' open-source community, Srinivas-Lakshya Innovation Cell, and others encourage students to carry out interdisciplinary activities in cloud computing, AI, rockets, and propellants.

Understanding the pivotal role of IPR in safeguarding intellectual contributions, a dedicated IPR cell is instituted. This cell serves as the vanguard, ensuring intellectual property rights protection, promotion, and enforcement. By fostering awareness about IPR, it aims to instil a culture of respect for intellectual creations, fostering an environment where innovators feel secure in sharing their breakthroughs. In tandem with IPR initiatives, establishing an Incubation Centre is a testament to the commitment to nurturing nascent ideas and transforming them into viable enterprises. This hub provides a fertile ground for innovators, offering infrastructure, mentorship, and financial support, facilitating the gestation of groundbreaking concepts. The Incubation Centre acts as a catalyst, bridging the gap between ideation and implementation and fostering a culture of entrepreneurship and innovation.

Complementing these endeavours is the creation of an Entrepreneurship Development (EDP) Cell designed to equip aspiring entrepreneurs with the necessary skills and knowledge to navigate the complexities of the business landscape. This cell is a pivotal link, offering training programs, mentorship, and networking opportunities, empowering individuals to transform their innovative ideas into sustainable ventures. Various initiatives are woven into the ecosystem's fabric in this holistic pursuit of knowledge and technology transfer. Collaborations with academia, industry, and research institutions are fostered, facilitating a seamless exchange of expertise. Additionally, emphasis is placed on interdisciplinary research, encouraging the amalgamation of traditional knowledge with contemporary advancements.

Ecosystem at SIT



The Institution's Innovation Council

- About IIC Institute Vision / Mission of IIC established at the Institute
 - i. **Vision:**

To be a centre of excellence and build a conducive atmosphere in innovation, Research, and Entrepreneurship responsive to the needs of industry and society
 - ii. **Mission:**
 - a. To create an environment of nurturing and supporting innovative thought-provoking ideas
 - b. To create entrepreneurship opportunities for all stakeholders
 - c. To foster the start-ups by providing them with the necessary support
 - d. To support commercializing innovative sustainable ideas in the form of IPR.
- The journey of IIC established at the Institute
 - A. The Institution's Innovation Council (IIC) was established at the Srinivas Institute of Technology in June 2021
 - B. In its inception year, the IIC included 12 members across various departments, nurturing various themes related to IPR, incubators and start-ups, entrepreneurship, and innovations.
 - C. In the subsequent months, Faculty and student members across different departments were added to cater to the college's innovative inquisitiveness. Today, the IIC of SIT has 37 faculty members.
 - D. Under the aegis of IIC, the college has organized numerous workshops, seminars, and events to inculcate the requirement for innovation amongst the stakeholders. Under the Impact Lecture Series, resource people were invited as guest speakers, wherein lectures related to IPR, start-ups and Entrepreneurship were given.

The Institution's Innovation Council

| | | |
|----|----------------------------|--|
| 1 | Dr. Shrinivasa Mayya D | President & Principal |
| 2 | Dr. R K Hegde | Convenor, Innovation Activity |
| 3 | Dr. Shankar K S | Internship activity coordinator |
| 4 | Dr. Sooryakrishna K | ARIIA and start-up activity coordinator |
| 5 | Prof. Gourish Hegde | NIRF coordinator |
| 6 | Prof. Madhusudhan | Social Media Coordinator |
| 7 | Prof. Jayaram Thumbu | IPR activity coordinator |
| 8 | Prof. Rakesh Mallya | NSS Coordinator |
| 9 | Prof. Sahana G Kunder | Member, Dept. of Electronics & Communication |
| 10 | Prof. Sathyaprakash A | Member, Dept. of Mechanical Engg. |
| 11 | Dr. Anoop B K | Member, Dept. of Artificial Intelligence |
| 12 | Prof. Nithin Joshuva | Member, Dept. of Marine Engg. |
| 13 | Prof. Lokesh K S | Member, Dept. of Aeronautical Engg. |
| 15 | Prof Steevan Robert Tellis | Member, Dept. of MBA |
| 17 | Dr. Prasad | Member |
| 18 | Dr. Raghavendra M J | Member, Dept. of Mechanical Engg. |
| 19 | Prof. Chandra Jogi | Member, Dpt. Of Marine Engg. |
| 20 | Prof. Vivek Vijay | Member, Dept. of Marine Engg. |
| 21 | Prof. Sowmya | Member, Dept. of |
| 22 | Dr. Chandrashekar K G | Member, Dept. of Chemistry |
| 23 | Mrs Rashmi | Member, Dept. of MBA |
| 24 | Prof. Sudarshan K | Member, Dept. of Computer Science & Engg. |
| 25 | Prof. Girish A R | Member, Dept. of Automobile Engg. |
| 26 | Dr. Praveen Shenoy K | Member, Dept. of Aeronautical Engg. |
| 27 | Ms. Harishma K V | Member, CSE |
| 28 | Mr. Guruprasanna J K | Member, CSE |

A Unit of A. Shama Rao Foundation

Srinivas Institute of Technology, Merlapadavu, Mangaluru - 574 143

Institution's Innovation Council

Approved by AICTE New Delhi, Govt. of Karnataka, Bengaluru

Affiliated to Visvesvaraya Technological University, Belagavi

Phone No.: (0824)-2425966, 2421566, 2444891 Fax: (0824)-2442766, 2423302 Website: www.srinivasgroup.com

Ref No. SIT/IIC/ 2022-23/M001

Date: 29/08/2022

Minutes of Meet-O1

The meeting of IQAC members and heads of various departments of Srinivas Institute of Technology, Mangaluru, was held on 29-08-2022 in college at 02:00 PM to discuss the agenda

Members Present:

| | | |
|-----|-----------------------------|---|
| 1. | Dr. Shrinivasa Mayya D | President |
| 2. | Dr. Ramakrishna N Hegde | Convenor, Innovation Activity |
| 3. | Dr. Shankar K S | Internship activity coordinator |
| 4. | Dr. Sooryakrishna | ARIIA and start-up activity coordinator |
| 5. | Dr. Prasad P | NIRF coordinator |
| 6. | Dr. Hariprakash | Social Media Coordinator |
| 7. | Prof. Jayaram Thumbe | IPR activity coordinator |
| 8. | Prof. Mohan K | Member |
| 9. | Prof. Sahana G Kunder | Member |
| 10. | Prof. Sathyaprakash A | Member |
| 11. | Prof. Nithin Joshua | Member |
| 12. | Prof. Lokesh K S | Member |
| 13. | Dr. Jose Alex | Member |
| 14. | Dr. Anoop B K | Member |
| 15. | Prof Steevan Robert Tellis | Member |
| 16. | Prof. Ashwini Shetty | Member |
| 17. | Dr. Rajesh D S | Member |
| 18. | Prof. Stalin M | Member |
| 19. | Prof. Gourish Hegde | Member |
| 20. | Dr. Raghavendra M J | Member |
| 21. | Prof. Chandra Jogi | Member |
| 22. | Prof. Vivek | Member |
| 23. | Prof. Sowmya | Member |
| 24. | Prof. Shareefraju J. Ukkund | Member |
| 25. | Dr. Chandrashekar K G | Member |
| 26. | Prof Rashmi | Member |
| 27. | Prof. Sudarshan K | Member |

| | | |
|-----|-----------------------|--------|
| 28. | Mr. Girish A R | Member |
| 29. | Prof. Aparna Krishnan | Member |
| 30. | Dr. Praveen Shenoy K | Member |
| 31. | Mrs. Aishwarya | Member |
| 32. | Mrs. Deeksha | Member |
| 33. | Mr. Sandesh K S | Member |
| 34. | Mr. Madusudan S | Member |
| 35. | Mrs. Shreeja M | Member |
| 36. | Mr. Satish Kumar | Member |
| 37. | Mrs. Ashwini Shetty | Member |

Members Absent:

| | | |
|----|----------------------|-----------------|
| 1. | Mr. Sundara S M | Vice President |
| 2. | Mr. Nagarjuna M G | External Member |
| 3. | Mr. Gowtham K Mendon | External Member |
| 4. | Mr. Suhas Shetty | External Member |

Agenda of the Meeting:

- To confirm the minutes of the previous meeting of the previous academic year
- Review of the members of the IIC (Student representatives & external representatives)
- Review and discuss the quarterly plan for various activities under the IIC
- Any other matter with the permission of the chair

Minutes:

The president welcomed the members of the IIC to the meeting

- The members confirmed the minutes of the previous meeting of the previous year (Including all the quarters of the previous academic year)
- The meeting was initiated by discussing student representation from the various college departments. As requested, the respective faculty members submitted student representation from various departments to the chair table.
- The plan of action for the quarters was discussed
- the convenor briefed introduction to the best practices and requirements
- Furthermore, the roles of each of the coordinators were discussed.
- The coordinator and the chairman stressed upon the members of the IIC to comprehensively look into the smooth functioning of the committee with the constituent committee at the department levels

The meeting concluded with the vote of thanks to the chair and the members by the convenor, IIC.


Convenor

(Dr Ramakrishna N Hegde)


PRINCIPAL
SRINIVAS INSTITUTE OF TECHNOLOGY
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Farangipete Post, Mangaluru-574 143

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Ref No. SIT/IIC/ 2022-23/QP001

Date: 29/08/2022

Quarterly Plan-Q1

The Quarterly plan for Quarter 1 of the year 2022-2023 is as follows:

|     | | | | |
|--|---|-----------------|--|-------------------------------------|
| IIC 5.0 Calendar Activities for Academic Year 2022-23 | | | | |
| Semester -1 (September – February) | | | | |
| Quarter 1 (1st September - 30th November) | | | | |
| Sr. No | Activity | Mode of Conduct | Thrust Area | Threshold No of Activities Required |
| 1 | Workshop on "Entrepreneurship and Innovation" as Career Opportunity | Offline/Online | (Prof. Lokesh V) M/S Lakshya Aerospace (Faculty Coordinator: Prof. Girish AR) Inspiration, Motivation and Ideation (Yukti Cell) (Yukti Cell in Collaboration with Innovation Ambassadors) | 3 Numbers |
| 2 | My Story - Motivational Session by Successful Innovators | Offline/Online | | |
| 3 | My Story - Motivational Session by Successful Entrepreneur/Start-up founder | Offline/Online | | |
| 4 | Session on Problem Solving and Ideation Workshop | Offline/Online | | |
| 5 | Exposure and field visit for problem identification | Offline | | |
| 6 | Organise an Inter/Intra Institutional Idea Competition and Reward Best Ideas - Manage through YUKTI-NIR | Offline | | |
| 7 | Mentoring Event: Demo Day/Exhibition/Poster Presentation of Ideas/PoC & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR | Offline/Online | | |

|     | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

Important Day Celebration Activities for IIC Academic Year 2022-23

| Sl. No | Date | Celebration Activity Name | Month | Quarter |
|--------|------------------------------------|--|-----------|---------|
| 1 | 15th September | Engineer's Day | September | Q1 |
| 2 | 1st October (Prof. Satish Kumar K) | India Startup Day | October | |
| 3 | 15th October (Dr. Jose Alex) | National Innovation Day | October | |
| 4 | 11th November | National Education Day (Prof. Sathyaprakash) | November | |


Convener

(Dr Ramakrishna N Hegde)


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SRINIVAS INSTITUTE OF TECHNOLOGY
Valachi, Merlapadavu
Farangipete Post, Mangaluru-574143



IIC Discussions on Annula plans of actions



IIC Discussions on Annula plans of actions

Entrepreneurship Development Program (EDP)

Established in 2018, the Entrepreneurship Development Program (EDP) Cell at Srinivas Institute of Technology, Valachil, Mangalore, Karnataka, has nurtured the spirit of entrepreneurship among our students. With a commitment to fostering innovation and business acumen, this Cell is a pivotal platform for empowering our students in their entrepreneurial endeavours.

Objectives:

1. **Foster Entrepreneurial Mindset:** To instil an entrepreneurial mindset among students, encouraging them to explore opportunities, take calculated risks, and develop innovative solutions to real-world problems.
2. **Equip with Practical Skills:** To provide students with practical skills and knowledge essential for entrepreneurship, including business planning, market research, financial management, and marketing strategies.
3. **Facilitate Government Engagement:** To facilitate interactions between students and government officials, particularly from the MSME sector, to create awareness about government schemes, funding opportunities, and regulatory aspects related to entrepreneurship.
4. **Expose to Innovation Ecosystem:** To expose students to the innovation ecosystem by organizing visits to Incubation Units, Patent Facilitation Centers, and Technology Transfer Centers, enabling them to understand the processes of innovation, intellectual property protection, and commercialization.

Our EDP Cell is dedicated to instilling the values and skills to become successful entrepreneurs. We believe entrepreneurship is a career path and a mindset that can drive innovation and economic growth. By offering guidance and resources, we empower our students to explore entrepreneurial opportunities and turn their ideas into thriving ventures. The EDP Cell regularly organizes workshops and boot camps to provide hands-on experience in entrepreneurship. These events cover various topics, from business planning and market research to financial management and marketing strategies. They offer a practical understanding of the entrepreneurial journey and equip our students with the knowledge and tools to establish and run their enterprises.

The EDP Cell facilitates regular interactions with government officials, including Micro, Small, and Medium-Scale Enterprises (MSME) representatives, to connect our budding entrepreneurs with the real business world. These interactions offer insights into government schemes, funding opportunities, and the regulatory framework, ensuring our students are well-prepared to navigate the business landscape. In our pursuit of nurturing entrepreneurship, the EDP Cell organizes visits to Incubation Units, Patent Facilitation Centers, and Technology Transfer Centers. These visits offer exposure to real-world innovation and technology transfer processes. Students learn how innovative ideas evolve into products and services and how intellectual property is protected and commercialized.

In conclusion, the EDP Cell at Srinivas Institute of Technology is dedicated to kindling the entrepreneurial spirit within our students. We provide a holistic and practical understanding of entrepreneurship through workshops, government officials' interactions, and innovation hub visits. We believe that by nurturing this spirit of entrepreneurship, we prepare our students for successful careers and contribute to economic growth and innovation in our region.

Entrepreneurship Development Program (EDP)

| | | |
|----|----------------------|--|
| 1 | Dr. Sooryakrishna K | Coordinator |
| 2 | Dr. Prasad P | Member |
| 3 | Dr. Jithendra | Member, CSE |
| 4 | Mr. Sudarshan K | Member, ISE/AIML |
| 5 | Mrs. Sahana G Kunder | Member, Electronics & Communication |
| 6 | Mr. Chandra Jogi | Member, Marine |
| 7 | Mr. Sathyaprakash | Member, Mechanical |
| 8 | Mr. Girish A R | Member, Aeronautical / Automobile |
| 9 | Dr Jose Alex | Member, Artificial Intelligence & Data Science |
| 10 | Mrs. Deeksha | Member, Electronics & Communication |
| 11 | Mr. Sandesh K S | Member, Mechanical |
| 12 | Dr. Praveen Shenoy | Member, Aeronautical |
| 13 | Mr. Lokesh K S | Member, Aeronautical |
| 14 | Mr. Madusudan S | Member, Artificial Intelligence & Data Science |
| 15 | Mrs. Shreeja M | Member, Computer Science |
| 16 | Mr. Satish Kumar | Member, Electronics & Communication |
| 17 | Ms. Sneha | Member, Artificial Intelligence & Data Science |
| 18 | Mr. Parvatharaj KMM | Member, Information Science /AIML |
| 19 | Mr. Madhusudhan S | Member, Information Science /AIML |
| 20 | Mr Sriram | Member, EEE |
| 21 | Dr. Hariprakash U P | Member, MBA |
| 22 | Mr. Rajesh Naik | Member, MCA |



Centres for Innovation, Incubation and Start-up



Student's Activity at the Centre

Meeting Details

EDP meeting held on 21/9/2019 at 12:00 Noon in UHDT Lab. Faculty list who are present for the meeting is attached.

Agenda-

- * To plan the EDP & Incubation cell programs for the academic year 2019-20

Minutes of the Meeting

- * It is informed that one program on EDP will be conducted in association with VTU. Communication is sent to VTU regarding

- * ^{this} Decided that coordinators are requested to go to 3rd, 5th & 7th sem classes and tell the importance of EDP. Coordinators are required to make a document for this (mentioning the date, time, classroom, sem etc) and good quality photo. Please send this before 27/9/2019.

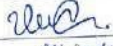

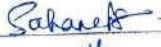






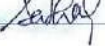
- * It is decided that the EDP department coordinators are to identify the interested students to attend the programs conducted by the EDP & Incubation cell. It is decided to identify the following number of students from each department from the 3rd

| | | |
|------------------------|---------------------|-------|
| EC-12 | MBA-12 | ME-10 |
| AE-10 | AU-10 | EE-10 |
| CSE-15 | MR-10 | IS-10 |
| Physics-10 (I year) | Chem-10 (I year) | |

Minutes of Meet

Faculty Coordinators Meeting on 6/5/19

Attendance -

- 1 Venarani A.V. 
- 2 Abhinaya M. 
- 3 Sakana Geetha Ananda 
- 4 Sowmya 
- 5 Praveena D MBA 
- 6 Mahendra S.B. 
- 7 PURSOTHAM P GATTI 
- 8 Amilkumar. H 
- 9 Sudarshank 
- 10 Sakshi K9 

Agenda VTV awareness programme on 18/5/19

Faculty Attendance

IPR Cell

Established in 2018, the Intellectual Property Rights (IPR) Cell at Srinivas Institute of Technology, Valachil, Mangalore, Karnataka, stands as a cornerstone of our commitment to fostering innovation and protecting the creative endeavours of our students and faculties. This institution is a vital guardian of their intellectual property, ensuring their ideas and inventions remain safeguarded.

Objectives:

The primary objective of our IPR Cell is to create a conducive environment for innovation and to inculcate an awareness of Intellectual Property Rights among our academic community. We aim to:

1. Educate students and faculties about the significance of IPR.
2. Provide guidance and support for the patenting process.
3. Facilitate the protection of their intellectual creations.
4. Encourage the development of innovative solutions.

Our IPR Cell plays a pivotal role in securing the ideas and inventions of our students and faculties. We offer assistance in understanding and navigating the complexities of patents, copyrights, and trademarks. By fostering a culture of IPR awareness, we empower our academic community to protect their creations, ensuring that their intellectual property rights are respected and upheld. Our IPR Cell is dedicated to raising awareness and understanding of IPR. To achieve this, we regularly organize workshops that elucidate the objectives and requirements of IPR. These workshops empower our academic community with the knowledge and tools required to navigate the world of intellectual property, ensuring that their ideas are shielded from unauthorized use.

The process flow for filing IPR is as follows: At first, innovation of ideas and products is nurtured through the college Innovation Cell. This platform encourages students and Faculty to conceive and propose innovative ideas. From there, selecting the most promising ideas undergoes a rigorous patent filing process guided by the IPR Cell. This process includes patent research, documentation, and submission, ensuring their intellectual property is protected and recognized. As a testimony to this process, in the academic year 2022-2023, the IPR Cell is proud to report and publish the successful filing of nine patents with the Indian Patent Organization. These patents represent a range of innovative solutions, from technological advancements to novel processes, all developed by our dedicated students and faculties. This achievement underscores our commitment to cultivating fertile ground for Creativity and protecting the fruits of our labor. Overall, 14 patents have been filed in the assessment year of 2018-2023.

In conclusion, the IPR Cell at Srinivas Institute of Technology plays a crucial role in fostering innovation and protecting the intellectual creations of our academic community. Our commitment to promoting a culture of IPR awareness and our dedication to assisting in the patenting process has resulted in significant achievements, as reflected in the patents filed. We are proud to contribute to the growth and development of intellectual property at our institution.

Intellectual Property Rights Cell

Approved by AICTE New Delhi, Govt. of Karnataka, Bengaluru

Affiliated to Visvesvaraya Technological University, Belagavi

Phone No.: (0824)-2425966, 2421566, 2444891 Fax: (0824)-2442766, 2423302 Website: www.srinivasgroup.com

Minutes of the IPR Cell General Body Meeting

The IPR Cell at Srinivas Institute of Technology (SIT) conducted its General Body Meeting on December 02, 2022. The meeting, chaired by **Dr. Ramakrishna N Hegde**, Coordinator (IPR) and HoD of the Aeronautical and Automobile Department, addressed several key agenda aimed at furthering the culture of intellectual property rights within SIT.

Agenda:

1. *Discussion on Previous Meeting Results:*

The meeting commenced with a review of the outcomes of the last session. Members provided insights and feedback, reflecting on the progress made and identifying areas for improvement.

2. *Plan of Action for Establishing a Patent Culture:*

The core of the discussion focused on strategizing the IPR Cell's action plan to foster a robust patent culture at SIT. Dr. Hegde emphasized creating awareness and providing resources to encourage innovation, specifically amongst the student community.

3. *Planning for International IPR Day Celebration:*

Members deliberated on organizing activities to mark International Intellectual Property Rights Day. Ideas included workshops, seminars, and awareness campaigns to engage students and Faculty in the significance of intellectual property.

4. *Role of Individual Members:*

The meeting underscored the individual responsibilities of IPR Cell members in promoting awareness among students. Dr. Hegde encouraged proactive participation in mentoring sessions and workshops and disseminating information on IPR-related topics.

5. *Open Discussion on Pertinent Topics:*

Members were allowed to propose additional discussion points. This ensured a comprehensive exploration of topics relevant to intellectual property rights within the institution.

6. *Updates on Patents Submitted by SIT:*

Dr. Hegde provided updates on the patent submissions made by SIT. The faculties across various departments had filed a total of 9 patents. This segment included insights into the progress of ongoing projects, achievements, and future endeavours.

Meeting Closure:

The meeting concluded with a summary of individual members' action items and responsibilities



Dr. Ramakrishna N Hegde
Convenor, IPR



IPR General Body Meeting



Discussion on Plan of Action

IPR Cell

| | | |
|----|-----------------------|--|
| 1 | Dr. R K Hegde | Coordinator |
| 2 | Dr. Jithendra | Member, Computer Science and Engineering |
| 3 | Mr. Gourish Hegde | Member, Electronics & Communication Engineering |
| 4 | Dr. Raghavendra M J | Member, Mechanical |
| 5 | Mr. Chandra Jogi | Member, Marine |
| 6 | Dr. Praveen Shenoy | Member, Aeronautical |
| 7 | Dr. Jose Alex Mathew | Member, Artificial Intelligence and Data Science |
| 8 | Ms. Sowmya | Member, Information Science and Engineering |
| 9 | Dr. Chandrashekar K G | Member, CHE |
| 10 | Mr. Vivek Vijay | Member, Marine |
| 11 | Mr. Parvatharaj KMM | Member, Information Science /AIML |
| 12 | Mrs. Rashmi (MBA) | Member, MBA |
| 13 | Mr. Rajesh Naik | Member, MCA |

Yukti Cell

Situated within the dynamic ecosystem of the Innovation cell at Srinivas Institute of Technology, the Yukti Cell serves as a trial for cultivating innovation and entrepreneurial spirit among students. Functioning synergistically with the Entrepreneurship Development Program (EDP) and the Intellectual Property Rights (IPR) cell, Yukti emerges as a catalyst for translating inventive concepts into tangible outcomes, potentially meriting patent recognition.

Yukti stands apart by its commitment to simplicity—stimulating creative ideation and challenging students to transcend conventional boundaries. It is not merely a conceptual realm; it facilitates the transformation of ideas into tangible prototypes. The collaborative framework extends support at every phase of ideation and realization, ensuring a holistic understanding of innovation, entrepreneurship, and intellectual property protection. The distinctive essence of Yukti lies in its emphasis on practical application and execution. By fostering a culture of hands-on engagement, Yukti equips students with the skills and knowledge necessary to navigate the intricate landscape of innovation. Its symbiotic relationship with EDP and IPR underscores a comprehensive approach to nurturing well-rounded innovators.

Yukti serves as a cornerstone in SIT's commitment to academic excellence and the cultivation of a generation of technologically adept entrepreneurs. It goes beyond commendation, signalling a rallying cry for continued collaborative endeavours and the pursuit of excellence. Yukti encapsulates more than a physical space; it embodies an ethos—an incitement to envision and actualize transformative ideas, propelling SIT forward in technological innovation.

Yukti Cell

Approved by AICTE New Delhi, Govt. of Karnataka, Bengaluru

Affiliated to Visvesvaraya Technological University, Belagavi

Phone No.: (0824)-2425966, 2421566, 2444891 Fax: (0824)-2442766, 2423302 Website: www.srinivasgroup.com

Minutes of the Yukti Cell Meeting

Agenda:

1. Previous Meeting Review:

Prof. Chandra Jogi initiated the meeting by revisiting the agenda and outcomes of the previous Yukti Cell meeting. Members were encouraged to provide insights and updates on the progress made since the last meeting. The discussion included a comprehensive review of the action items and their current status.

2. Yukti Challenge Discussion:

The focal point of the meeting was the upcoming Yukti Challenge organized by the Indian government. Prof. Jogi elucidated the challenge's objectives, emphasizing its crucial role in fostering student innovation. The challenge is designed as a multi-level event involving idea presentation, practical implementation, and a final showcase. Prof. Jogi provided a detailed overview of the Yukti Challenge, highlighting its significance in unleashing the innovative potential of students. The challenge encourages participants to address practical problem statements, guiding them through various stages, from presenting initial ideas to executing and presenting the outcomes. Members engaged in a vibrant discussion, sharing perspectives and insights on maximizing the impact of the Yukti Challenge at SIT. Prof. Jogi emphasized the need for active participation from students, Faculty, and other stakeholders to ensure the initiative's success. He invited participants to share updates on ongoing projects and initiatives related to innovation within their respective departments. This segment allowed for cross-collaboration and knowledge sharing.

An open forum was created for members to express their suggestions and ideas for enhancing the Yukti Cell's effectiveness. Inputs ranged from organizing workshops to providing mentorship for participants.

3. Next Steps:

Members were encouraged to engage in the Yukti Challenge actively, contributing innovative ideas and practical solutions. Prof. Jogi outlined a roadmap for SIT's participation, including key milestones and deadlines. The coordination between the Yukti Cell, Entrepreneurship Development Program (EDP) Cell, and Intellectual Property Rights (IPR) Cell was emphasized to create a holistic support system for students throughout the challenge.

4. Closing Remarks:

The meeting concluded by expressing gratitude to the participants for their active involvement. He reiterated the importance of collaboration and collective efforts in realizing the goals of the Yukti Cell. He emphasized that the initiative's success hinges on the dedicated contributions of the student community, Faculty, and other stakeholders.



Prof. Chandra Jogi
Co-ordinator, Yukti Cell

Srinivas Student's Open Source Community (SSOSC)

The **Srinivas Student's Open Source Community (SSOSC)** is a vibrant collaboration and innovation hub, bringing students together to explore the exciting world of open-source technology. With a passion for fostering mutual support and growth, we strive to create a culture of continuous learning and exploration.

Vision of SSOSC

At SSOSC, we are driven by a collective thirst for knowledge and a commitment to shaping the future through open-source innovation. Our community offers an array of opportunities, from workshops led by renowned speakers to student-led training sessions. Together, we strive to stay at the forefront of technology, explore new horizons, and contribute to the ever-evolving world of open-source development. We inch closer to our shared vision with every line of code we write.

Salient Features

SSOSC is a vibrant ecosystem that fuels your creative spirit. As you immerse yourself in this community of visionaries, where students discover that collective brilliance thrives here. Boundaries blur as they are encouraged to think imaginatively and expand the creative horizons. SSOSC offers a diverse array of campus clubs, including GDSC, Microsoft Student Ambassadors, GitHub Campus Experts, Mozilla, and more. These clubs provide an environment where students thrive by collaborating, honing their skills, and driving innovation.

- *Training Opportunities*

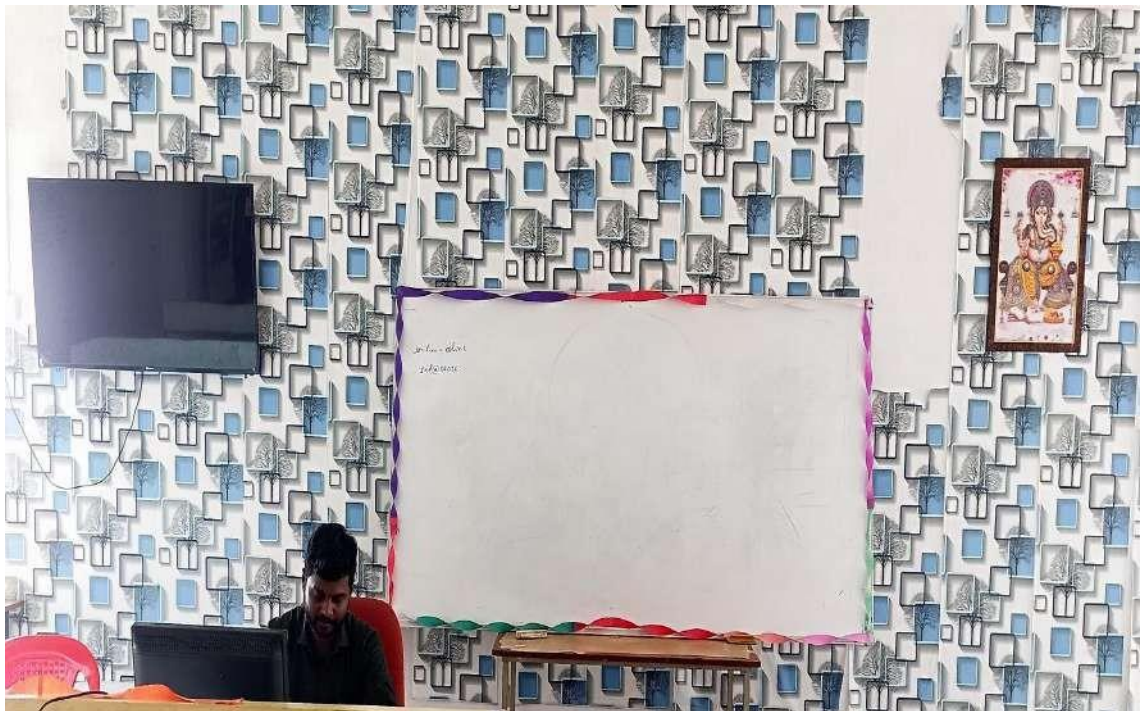
Exclusive training sessions are designed to enhance the technical skills of the students. Whether to delve into coding best practices or master version control systems, SSOSC equips the students with the resources necessary to excel in the open-source landscape.

- *Networking Events*

Members are encouraged to join networking events that bring together professionals, alumni, and industry leaders. These events provide the opportunity to forge valuable connections, gain insights, and open doors to exciting career prospects within the tech community. SSOSC connects the members with a diverse group of passionate individuals who share enthusiasm for open-source technology.



Srinivas Student's Open Source Community (SSOSC)



Prof. Shailesh Shetty, Coordinator, Srinivas Student's Open Source Community (SSOSC)



Students working at Srinivas Student's Open Source Community (SSOSC)

Srinivas-Lakshya Innovation cell

The Srinivas-Lakshya Innovation Centre has been a hub for interdisciplinary collaboration and innovative exploration since its inception in 2023. This collaborative initiative, born out of the partnership between Srinivas

Institute of Technology and Lakshya Space, Bangalore, aims to bridge the gap between theoretical knowledge and practical application. It provides students from various engineering departments a platform to bring their creative ideas to life.

The Centre's inception in 2023 was a pivotal moment for both institutions, as it marked the formalization of a partnership that extends to the founders of Lakshya Space, Mr. Dhanush and Mr. Deepak, who are proud alumni of our college. Their journey from being students to successful entrepreneurs is a testament to the quality of education and SIT's nurturing environment. The primary focus of the Srinivas-Lakshya Innovation Centre is to encourage students to explore unique ideas, with a primary emphasis on aeronautical engineering. However, it is not limited solely to this field; rather, it acts as a playground of innovation where any idea with the potential to materialize is welcomed. This approach has attracted students from diverse departments who have shown a keen interest in contributing to projects that transcend conventional boundaries.

Currently, a wide array of projects are in progress within the Centre. Some of the notable ones are:

1. Designing and developing a test bed for rockets is a task that encompasses engineering principles, materials science, and practical implementation.
2. Another project involves research on eco-friendly solid fuels, reflecting our commitment to environmentally responsible solutions in propulsion.
3. One particularly exciting project that has captured the imagination of both students and researchers is the development of Sounding Rockets. This ambitious endeavour is divided into four key teams: Design and Materials, Control and Stability, Propellants, and Payload. Each team plays a pivotal role in achieving the common goal of developing cost-effective solutions for launching sounding rockets, a vital component of scientific research and data collection.
4. In addition to rocketry projects, the Centre has witnessed groundbreaking developments in satellite technology. Students from the Aeronautical Engineering department have successfully designed CubeSats for weather monitoring. These miniature satellites are cost-effective and provide invaluable weather prediction and monitoring data. Innovative methods such as helium balloons and drones have been employed to capture data from these CubeSats. This multi-faceted approach has enhanced our understanding of satellite technology and provided students with hands-on experience in data acquisition, processing, and analysis.

The Srinivas-Lakshya Innovation Centre is more than just a space for projects; it represents a collaborative spirit that encourages students to think outside the box, foster creativity, and engage in interdisciplinary activities. It serves as a hub for nurturing future engineers, scientists, and innovators who are well-versed in their respective fields and equipped with the skills to tackle real-world challenges. In conclusion, the journey of the Srinivas-Lakshya Innovation Centre is a testament to the power of collaboration, dedication, and innovation. Students gain technical expertise with each project and learn valuable life skills such as teamwork, problem-solving, and creativity. We are proud to be a part of this exciting journey and look forward to many more years of inspiring innovation and excellence in engineering.



Lakshya space incubation centre



Students participating in club activities

Dr. C.A. Raghavendra Rao Centre of Excellence

The Dr. C.A. Raghavendra Rao Centre of Excellence, in collaboration with ETNOTECH, established in 2022, stands as a beacon of innovative learning and skill development at Srinivas Institute of Technology. This dynamic facility has been created to empower our students in alignment with the National Education Policy (NEP) set by the Ministry of Education, India. It offers a fertile ground for fostering creative thinking, interdisciplinary activities, and the acquisition of skill sets essential for future engineers.

Key Features:

- **Catering to National Education Policy (NEP):** The Dr. C.A. Raghavendra Rao Centre of Excellence is committed to aligning its objectives and activities with the National Education Policy (NEP) of India's Ministry of Education. This policy emphasizes a holistic and multidisciplinary approach to education, and our centre is designed to nurture these principles.
- **Promoting Interdisciplinary Activities:** At the core of this centre is a focus on interdisciplinary activities. Our students engage in a wide range of projects, discussions, and innovations, including:
- **Designing Products:** Students explore the entire product development lifecycle from conceptualization to prototyping.
- **Numerical Methods:** Solving complex problems using numerical techniques, enhancing problem-solving skills.
- **Artificial Intelligence (AI.) Implementation:** Applying AI to real-world problem statements, enhancing technological skills.
- **Product Life Cycle:** Understanding the journey of a product from inception to end-of-life stages.
- **Systems Thinking: Exploring the holistic view of complex systems, encouraging systems thinking.**

The mission is to empower students with the knowledge, skills, and practical experience that will not only enrich their academic journey but also equip them to become successful engineers of the future. The Dr. C.A. Raghavendra Rao Centre of Excellence is a testament to our commitment to holistic education, innovative thinking, and skill development.





Students having an interactive meeting



Students having an interactive meeting

Outcomes

Adhering to its proactive and holistic approach to establishing an ecosystem of innovation at SIT, there have been numerous accolades from our alumni and faculty members in establishing start-ups and patents. Some of the achievements are as follows:

1. Student Start-ups

| SI No | Start-Up Details | Alumni | Department | Service |
|-------|----------------------|-------------------------------|----------------------------------|---|
| a) | Lakshya Space | Mr. Dhanush DB & Mr. Deepak K | Aeronautical Engineering | Drone Technologies, Satellite components, |
| b) | Fetch-It | Mr. Akshay | Automobile Engineering | Service |
| c) | Thaniya Technologies | Mr. Shailesh Shetty | Computer Science and Engineering | Service |
| d) | G5 Engineering | Mr. Varun | Mechanical Engineering | Manufacturing |
| e) | Swira Technovations | Mr. Sweekar MS | | Service |
| f) | Parishudh oil | Mr. Sagar | | Oil Production & Refinery |
| g) | Speedz demandz | Mr. Rahul | | Service |
| h) | SLV Fens | Mr. Sampath | | Service |
| i) | Presign Technologies | Mr. Akash Kharvi | | Service |

2. Faculty Start-ups

| SI No | Start-Up Details | Faculty | Department | Service |
|-------|------------------|------------------------|---|--------------------|
| a) | Samagra | Dr. Shrinivasa Mayya D | Mechanical Engineering | Service (Software) |
| b) | Samyak Tech | Dr. Sooryakrishna K | Electronics & Communication Engineering | Service (Software) |
| c) | Aldebrans Iris | Prof. Madhusudhan | Computer Science and Engineering | Service (Software) |

List of Patents

| SL NO | Applicant | Title of Invention | Date of Publication |
|--------------|---|--|----------------------------|
| 1. | Manjunath S and Dr. Ramakrishna N Hegde | Dual swirl precombustion chamber for IDI engine | 18/4/2018 |
| 2. | Dr. Basava T , Lokesh v | Mechanical factors influencing success in root canal obturation | 15/11/2019 |
| 3. | Dr. Shrinivasa Mayya D, K S Lokesh | Electric waste Management systems and practice | 16/03/2023 |
| 4. | Dr. Sowmya KB, Dr. Jose Alex, Anil Nagraj, Vishal G | ML and IOT-based probabilistic method in applied mathematics for Agricultural farming system | 18/08/2023 |
| 5. | Dr. Anoop B K , Ms. Neema George | Monitoring agriculture waste by image processing system based on IOT | 18/08/2023 |
| 6. | Srinivas Institute of Technology | Graphical Waterfall | 01/09/2023 |
| 7. | Srinivas Institute of Technology | Automatic Brake failure Indicator by electromagnet coil-type braking | 01/09/2023 |
| 8. | Dr. Shrinivasa Mayya D, Parvathraj , Dr . Anoop, Dr. Dheeraj Hebri, Dr. Padmanayana | Secured data transfer using blockchain technology | 01/09/2023 |
| 9. | Srinivas Institute of Technology | Detection of Phishing website | 01/09/2023 |
| 10. | Srinivas Institute of Technology | Fabrication and Development of BLDC motor and Controller for designed electric vehicle | 01/09/2023 |
| 11. | Srinivas Institute of Technology | Crime predictive model and hotspot mapping using machine learning | 01/09/2023 |
| 12. | Srinivas Institute of Technology | Wireless quiz buzzer using ESP8266 | 01/09/2023 |
| 13. | Dr. Praveen BM , Srinivas institute of technology | Calculation and analysis of carbon intensity indicator for merchant vessels | 01/09/2023 |
| 14. | Srinivas Institute of Technology | Automated truck loading, unloading system in harbours | 06/10/2023 |

R&D projects related to Social Causes

Apart from the above, SIT has also been involved in R&D projects associated with rural development. In association with Srinivas Institute of Medical Science & Research Centre & Srinivas College of Physiotherapy, the faculties of Srinivas Institute of Technology, have developed a low cost, portable External Pulsation Machine. This intends to work on problems associated with blood circulation and heart related problems by providing low-cost solutions & is portable. It uses open-source platforms which reduces its cost of production significantly.

The project is funded by the management of Srinivas University and the associated faculties are as follows:

1. Dr. Shrinivasa Mayya D (Team Leader)
2. Dr. Sooryakrishna (Member)
3. Dr. Praveen Shenoy K (Member)
4. Mr. Muralidhara (Member)



EPM developed at SIT



Machine being used at Srinivas Institute of Medical Centre

TESTIMONIALS

Lakshya Space LLP

3rd Block, No.,1, Mahakavi Vemana Rd, Koramangala 3 Block, Koramangala, Bengaluru, Karnataka 560034

+91-7019561885 info@lakshyaspace.in

I am Dhanush, an alumnus of Srinivas Institute of Technology, having graduated in 2020 with a degree in Aeronautical Engineering. Today, I am the co-founder of Lakshya Space, a venture specialising in various cutting-edge domains such as drone technology, CubeSats, additive manufacturing, rockets, and propulsion. I credit a significant part of my journey to the invaluable support and guidance from my alma mater, Srinivas Institute of Technology. During my time at SIT, I was equipped with the technical knowledge required for my field and received crucial assistance in transforming my entrepreneurial aspirations into reality. The **Entrepreneurship Development Program (EDP)** cell was pivotal in this journey. They helped me formalise and streamline the complex process of establishing my startup. From drafting a business plan to navigating legalities, the EDP cell provided invaluable insights and mentorship. Furthermore, the EDP cell was instrumental in connecting me with the right people and fostering a spirit of team building. Through their guidance, I assembled a talented and motivated team, the backbone of Lakshya Space's success.

The journey did not end there. The **Intellectual Property Rights (IPR)** cell at my alma mater also significantly contributed to my entrepreneurial venture. They helped me publish a patent on "**WEATHER FORECASTING USING ARDUINO BASED CUBESATELLITES**" with the Indian Patent Organization, demonstrating their commitment to supporting innovative ideas and protecting intellectual property. The combined support of the EDP cell, the technical knowledge I gained at Srinivas Institute of Technology, and the protection of our innovations through the IPR cell have been crucial factors in our success.

I want to express my heartfelt gratitude to my alma mater for nurturing not only my dreams but also the dreams of my classmates, like **Mr. Deepak K**, who joined me on this entrepreneurial journey. Together, we have created a venture that is a testament to the power of education, innovation, and mentorship. Srinivas Institute of Technology has played a pivotal role in our journey, and we are proud to be a part of this institution's legacy.

Sincerely,

DHANUSH
DODDAKOPPA
LU BELURAJAH
LU BELURAJAH



Digitally signed by
DHANUSH DODDAKOPPALU
BELURAJAH
Date: 2023.10.30 15:44:52
+05'30'

Dhanush D B

Co-founder, Lakshya Space

dhanush@lakshyaspace.in

Name: Mr. Dhanush D B

Batch: 2020

Department: Aeronautical

Company: Lakshya Space (Specializing in Drone Technology, Additive Manufacturing, CubeSats, Rockets, Propulsion, and Related Domains)

Year of Establishment: 2020



Date: 24/01/2023

I am Shailesh Shetty, an alumnus of Srinivas Institute of Technology, graduating from the Department of Computer Science and Engineering. Today, I proudly serve as the founder of Thaniya Technologies, an endeavour dedicated to software development for various industries, from websites to applications. Thaniya Technologies also takes pride in its commitment to knowledge-sharing. We extend our expertise to students and graduates, offering training in diverse platforms such as Fullstack development, Machine Learning, Embedded Systems, IoT, and more.

The invaluable support and encouragement I received from my alma mater inspired this endeavour of empowering the future workforce. Although I belong to the earlier generation of alumni, I have remained actively connected with the Srinivas Institute of Technology, mainly through the Entrepreneurship Development Program (EDP) cell. The EDP cell has been instrumental in guiding and nurturing my entrepreneurial journey. It gave me the necessary insights, mentorship, and resources to establish Thaniya Technologies. The interactions with the EDP cell served as a lighthouse during the initial phases of my venture, helping me chart a path to success.

In a spirit of gratitude and reciprocity, I have contributed to my college by offering my services and expertise in training students. This act of giving back has been driven by the Srinivas Institute of Technology's profound impact on my entrepreneurial aspirations. The college's unwavering support and commitment to nurturing entrepreneurship have been the driving force behind my own venture's success. I extend my heartfelt appreciation to the Srinivas Institute of Technology for fostering an environment that nurtures entrepreneurship, innovation, and the growth of its alumni. Being an alumnus of such an institution is a source of pride, and I am dedicated to continuing our shared journey of growth and success.

Sincerely,

Shailesh Shetty S



Kodikere, Kulai, Mangalore 575019



+91 7019582399



contact@thaniyatech.com
info@thaniyatech.com



PRESIGN TECHNOLOGIES

No-72 6th "A" main road 14th cross road J C nagar Bangalore 560086

Mob: +91-8660100332

Email: -presigntech@gmail.com

I am Akash Kharvi and I am an alumnus of your esteemed institution. I studied at Srinivas Institute of Technology and graduated with a degree in Mechanical Engineering.

After years of hard work, dedication, and the invaluable education I received at Srinivas Institute of Technology, I am proud to announce the launch of my very own startup. The idea for this venture was born out of my time spent learning at your institution, where I glimpsed the vast potential that technology holds for solving real-world problems.

My startup Presign Technologies aims to provide the mechanical designs to the various company. We concentrate on the Manufacturing Design and Manufacture of SPM, Hydraulic units, Safety Guards, Telescopic Covers, Pharmaceutical Equipment's, Industrial Trolleys, Customized Product Design and Manufacturing. Providing the customer a well-developed product with utmost care as per their service needs.

I firmly believe that the solid foundation provided by the ecosystem of Srinivas Institute of Technology has been instrumental in shaping my entrepreneurial journey. The diverse range of courses, hands-on learning experiences, and exposure to industry experts have equipped me with the necessary skills and confidence to embark on this entrepreneurial endeavor.

Warm Regards,

Akash Kharvi

Entrepreneur, Presign Technologies

For PRESIGN TECHNOLOGIES


Proprietor

Testimony

I am Shravankumar, an alumnus of Srinivas Institute of Technology. I would like to express my heartfelt gratitude for the profound impact that the Dr. C.A. Raghavendra Rao Centre of Excellence, in collaboration with ETNOTECH, has had on my academic journey and career. Transformative experiences and invaluable learning opportunities marked my time at Srinivas Institute of Technology. The Dr. C.A. Raghavendra Rao Centre of Excellence shaped my skills and fostered my passion for innovation. I had the privilege of being introduced to cutting-edge designing software at the centre, which had the remarkable ability to predict the life cycle of a product. This exposure not only equipped me with essential design skills but also instilled in me the vision to foresee and plan for the entire lifespan of a product, ensuring its success in the market.

One of the most remarkable aspects of my journey at the centre was the opportunity to engage in interdisciplinary activities. These activities culminated in my major project, where I focused on designing and developing CubeSats—miniature satellites used for parameter prediction and calculations. This project showed the spirit of innovation, blending design, technology, and aerospace engineering elements. It enhanced my technical skills and nurtured my problem-solving abilities, creativity, and teamwork. The Dr. C.A. Raghavendra Rao Centre of Excellence provided a fertile ground for exploration and experimentation. Here, I developed my coding skills thanks to the diverse group of students from various departments. This collaborative environment allowed me to work on projects related to Augmented Reality and Virtual Reality, expanding my horizons and sharpening my coding abilities. I also had the privilege of working with software like Fusion 360, which proved to be a valuable tool for my endeavors. These experiences have been instrumental in my career journey, allowing me to delve into the exciting realms of Augmented Reality and Virtual Reality, where I continue to contribute and innovate.

I am currently working as a Junior Research Fellow at the Centre for System Design at the National Institute of Technology Karnataka, where I work on Augmented Reality, Virtual Reality, and interdisciplinary research. The skills and knowledge I gained at the Dr. C.A. Raghavendra Rao Centre of Excellence have been a cornerstone of my journey.

I sincerely thank the Srinivas Institute of Technology and the Dr. C.A. Raghavendra Rao Centre of Excellence for their unwavering support in my academic and professional growth. The centre's commitment to nurturing innovation and fostering a collaborative environment is commendable. It is an honor to be an alumnus of an institution that values progressive learning and interdisciplinary growth.

Sincerely,

Shravankumar

Mr. Shravankumar 31/10/2023

Currently Working: *Junior Research Fellow,*

Centre for System Design, NIT Karnataka

G5 ENGINEERING

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1st Phase J.P Nagar, Bangalore – 560078

Branch Office: #7680, 2nd Floor,
Vijay Nagar 4th Stage, Mysore-570017

Phone: +918197556335

Web: www.g5engineerings.com



I am Varuna Kumar K, a proud alumnus of Srinivas Institute of Technology, where I pursued a degree in Mechanical Engineering. I am the founder & COO of G5 Engineering, a successful company based in Mysore, Karnataka.

G5 Engineering specialises in steel detailing and provides various services, including structural steel detailing, building information modelling, detailed erection drawings, fabrication drawings, 3D drawings, and anchor bolt configurations. What began as a modest enterprise has evolved into a global company that serves clients in India and across the globe, from Texas and Los Angeles to Alberta, Canada.

Without the unwavering support and guidance I received from the Srinivas Institute of Technology, my transformation from a recent graduate to an accomplished entrepreneur with an international presence would not have been possible. The continuous efforts from the various cells at SIT were instrumental in helping me realise my entrepreneurial goals. The cells at SIT equipped me with the skills and knowledge necessary to navigate the complex terrain of entrepreneurship. It enabled me to refine my business concepts, develop a solid business plan, and comprehend the complexities of financial management and marketing strategies. The program's hands-on experience and practical insights were instrumental in establishing the foundation for G5 Engineering. The cell's mentorship and essential resources further facilitated my entrepreneurial voyage. It assisted me in launching my venture and connecting with industry leaders. The cell also played an important role in team development, allowing me to assemble a highly competent and devoted team crucial to G5 Engineering's achievements. The comprehensive education I received at SIT, coupled with the assistance of the professional cells, equipped me with the skills and knowledge necessary to excel in steel detailing and extend my services globally. The commitment of SIT to nurturing entrepreneurship and innovation has been essential to my success.

I am indebted to Srinivas Institute of Technology for fostering my entrepreneurial spirit and laying the groundwork for the global impact of G5 Engineering. It is an honour to graduate from an institution that values innovation, experiential education, and the development of future leaders and entrepreneurs.

Sincerely,

G5 ENGINEERING



Varuna Kumar K
COO & Founder, G5 Engineering

As the founder of **Swira Technovations Pvt Ltd**, a 3D printing startup, I owe a significant part of our success to the experiences and education I gained during my time at **Srinivas Institute of Technology**. The **Department of Mechanical Engineering**, in particular, played a crucial role in shaping my understanding and skills in the field. The faculty members in the department went beyond their roles as educators. Their mentorship and guidance were instrumental in fostering an environment where innovation and creativity flourished. The practical knowledge and exposure to cutting-edge technologies provided a solid foundation for the establishment and growth of Swira Technovations.

I am especially grateful to the Department of Mechanical Engineering for their unwavering support. Their commitment to excellence and dedication to nurturing not just academic but also entrepreneurial skills have been invaluable. The encouragement to think beyond the conventional and the emphasis on real-world applications of knowledge have been key factors in our journey. I want to extend my gratitude to the entire Srinivas Institute of Technology community for creating an environment that encourages students to explore, innovate, and pursue their entrepreneurial aspirations. The college has been more than just an educational institution; it has been a catalyst for personal and professional growth.

Thank you for being an integral part of my journey. I am proud to be an alumnus of Srinivas Institute of Technology, and I carry the lessons learned here with me every day as I continue to lead Swira Technovations.

Warm regards,
For SWIRA TECHNOVATIONS PVT LTD


Director

Sweekar M S
Director & Co-Founder
Swira Technovations Pvt Ltd



SWIRA Technovations Pvt Ltd

Pushpagiri Arcana, #214, 3rd Block, 2nd stage, Off; Outer ring road, Nagarbhavi 2nd stage, Bengaluru - 72

✉ swiratechnovations@gmail.com ☎ 7022644713 / 9481448945

www.swira.in



Samyak Tech

SSOSC Lab, III Floor

Srinivas Institute of Technology

Valachil, Mangaluru-575143

Dear Members of the Entrepreneurship Development Program (EDP) Cell,

I trust this letter finds you all in good health and high spirits. I am writing to express my heartfelt appreciation for the invaluable support and guidance extended by the EDP Cell to budding entrepreneurs, including myself.

As the Head of the Department of Electronics and Communication Engineering (ECE) and the founder of Samyak Tech, a startup dedicated to providing innovative solutions related to electronics and softwares, I have had the privilege of witnessing the positive impact of the EDP Cell's initiatives.

The EDP Cell has played a pivotal role in fostering an entrepreneurial culture within our institution. The support provided in terms of mentorship, workshops, and networking opportunities has been instrumental in empowering individuals like me to navigate the challenges of establishing and growing a startup.

I would like to commend the EDP Cell for its commitment to nurturing innovation and fostering a conducive environment for aspiring entrepreneurs. The initiatives undertaken, such as the Yukti Innovation Challenge and mentoring events, have significantly contributed to the entrepreneurial spirit within SIT. I am particularly grateful for the personalized guidance and assistance extended to Samyak Tech through various stages of its development. The EDP Cell's dedication to understanding and addressing the specific needs of startups has made a meaningful difference in our journey.

In conclusion, I extend my sincere gratitude to the entire EDP Cell for its unwavering support. Your efforts are shaping the future of entrepreneurship at SIT, and I look forward to witnessing the continued success of this program. Thank you once again for your commitment to fostering innovation and entrepreneurial excellence.

Warm regards,

Dr. Soorya Krishna K
Head of the Department, ECE
Srinivas Institute of Technology

| | |
|--|---|
|  भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small and Medium Enterprises |  MSME सूक्ष्म, लघु एवं मध्यम उद्यम MICRO, SMALL & MEDIUM ENTERPRISES |
|--|---|

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER

UDYAM-KR-11-0044744

NAME OF ENTERPRISE

SAMYAK TECH

TYPE OF ENTERPRISE *

| S.No. | Classification Year | Enterprise Type | Classification Date |
|-------|---------------------|-----------------|---------------------|
| 1 | 2023-24 | Micro | 17/08/2023 |

MAJOR ACTIVITY

SERVICES

SOCIAL CATEGORY OF ENTREPRENEUR

GENERAL

NAME OF UNIT(S)

| S.No. | Name of Unit(s) |
|-------|-----------------|
| 1 | Samyak Tech |

OFFICIAL ADDRESS OF ENTERPRISE

| Flat/Door/Block No. | SSOSC Lab | Name of Premises/ Building | III Floor, Srinivas Engineering College |
|---------------------|------------|----------------------------|---|
| Village/Town | Valachil | Block | Academic Block |
| Road/Street/Lane | Valachil | City | Managuru |
| State | KARNATAKA | District | DAKSHIN KANNAD , Pin 574143 |
| Mobile | 9448545881 | Email: | ksooryakrishna1@gmail.com |

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE

04/08/2023

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS

04/08/2023

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

| SNo. | NIC 2 Digit | NIC 4 Digit | NIC 5 Digit | Activity |
|------|----------------|-------------------------|--|----------|
| 1 | 85 - Education | 8530 - Higher education | 85302 - Higher education in engineering / other technical courses leading to a university degree or equivalent | Services |

DATE OF UDYAM REGISTRATION

17/08/2023

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from <https://udyamregistration.gov.in> & Date of printing:- 17/08/2023

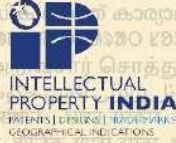
For any assistance, you may contact:

1. District Industries Centre: DAKSHINA KANNADA (KARNATAKA)

https://udyamregistration.gov.in/Udyam_User/Udyam_PrintApplication.aspx

1/2

Patents Published



क्रम सं/SL No :044164784



पेटेंट कार्यालय, भारत सरकार | The Patent Office, Government Of India
पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No. 466637

आवेदन सं. / Application No. 201841014796

फाइल करने की तारीख / Date of Filing 18/04/2018

पेटेंटी / Patentee 1. MANJUNATH S 2. RAMAKRISHNA N HEGDE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन **DUAL SWIRL PRECOMBUSTION CHAMBER FOR IDI DIESEL ENGINE** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख अप्रैल 2018 के अठारहवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **DUAL SWIRL PRECOMBUSTION CHAMBER FOR IDI DIESEL ENGINE** as disclosed in the above mentioned application for the term of 20 years from the 18th day of April 2018 in accordance with the provisions of the Patents Act, 1970.



(Signature)
पेटेंट नियंत्रक
Controller of Patents

अनुदान की तारीख
Date of Grant : 07/11/2023

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि हरी बनाए रखा जाना है, अप्रैल 2020 के अठारहवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 18th day of April 2020 and on the same day in every year thereafter.



Australian Government

IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021103711

The Commissioner of Patents has granted the above patent on 16 March 2022, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Lokesh K S, Srinivas Institute of Technology, Mangaluru-574143, India

Shrinivasa Mayya.D, Srinivas Institute of Technology, Mangaluru-574143, India

Title of invention:

ELECTRONIC WASTE MANAGEMENT SYSTEMS AND PRACTICE

Name of inventor(s):

K S, Lokesh; Mayya D, Shrinivasa

Dated this 16th day of March

2022 Commissioner of

Patents



Application Details

| | |
|----------------------------------|--|
| APPLICATION NUMBER | 201921045286 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 07/11/2019 |
| APPLICANT NAME | 1 . DR. BASAVA T 2 . LOKESH V |
| TITLE OF INVENTION | MECHANICAL FACTORS INFLUENCING SUCCESS IN ROOT CANAL OBTURATION |
| FIELD OF INVENTION | CIVIL |
| E-MAIL (As Per Record) | |
| ADDITIONAL-EMAIL (As Per Record) | basavat@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | NA |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 15/11/2019 |

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/07/2023

(21) Application No.202341047956 A
(43) Publication Date : 01/09/2023

(54) Title of the invention : Graphical Waterfall

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|--|--|
| <p>(51) International classification :A61K0036730000, A61P0019020000, H04W0072040000, G09G0005020000, H04N0001400000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Abhin S Thomas Address of Applicant :Department of Electrical and Electronics Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 2)Sakshi Subhash Gadkar Address of Applicant :Department of Electrical and Electronics Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 3)Shelton Francis Cutinha Address of Applicant :Department of Electrical and Electronics Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- ---</p> |
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(57) Abstract :

The graphical waterfall concept is inspired by Osaka City Station in Japan. A design idea for a low- cost graphical waterfall prototype using Raspberry Pi as a controller and WiringPi library to control GPIO ports. The project contains a 32 solenoid valves. The Raspberry Pi 4 is used as the controller, while I2C is used for port connection. We have also utilized a pi-expander to increase the number of GPIO inputs from 16 to 32. The relay module is used to handle high voltage to low-level hardware instruction. Approach of the project is as: reading and converting the RGB images and grey scale images into binary input, running a loop that assigns 32 pin ports to the right I/O instruction, row-wise, after each row executes, assigning delay to turn off all ports and assigning I/O ports to the next row.

No. of Pages : 5 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047978 A

(19) INDIA

(22) Date of filing of Application :17/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : AUTOMATIC BRAKE FAILURE INDICATOR WITH AUTOMATIC BRAKING BY ELECTROMAGNET COIL TYPE BRAKING

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|--|--|
| <p>(51) International classification :B60T0017220000, B60T0007120000, B60T0007220000, F16D0065120000, B60T0007060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)VENKATESH RAO S N Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 2)SUDHEENDRA H N Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 3)SATHYAPRAKASH ANEKALLU Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 4)SIDDARTH U Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> |
|--|--|

(57) Abstract :

A control system based on an automatic brake failure signal and automatic braking using an electromagnet coil type of braking is designed and developed. This project consists of an IR sensor circuit, a control unit, a wheel and brake arrangement. The system is made up of an electromagnet coil that produces braking force by interacting with the brake disc or drum and a sensor that senses when the brake pedal is pushed and transmits a signal to activate the brake failure indicator. By automatically applying the brakes to bring the car to a stop and alerting the driver of the brake failure, this technology adds an extra layer of safety in the case of a brake failure running a loop that assigns 32 pin ports to the right I/O instruction, row-wise, after each row executes, assigning delay to turn off all ports and assigning I/O ports to the next row.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047978 A

(19) INDIA

(22) Date of filing of Application :17/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : AUTOMATIC BRAKE FAILURE INDICATOR WITH AUTOMATIC BRAKING BY ELECTROMAGNET COIL TYPE BRAKING

| | |
|--|---|
| <p>(51) International classification :B60T0017220000, B60T0007120000, B60T0007220000, F16D0065120000, B60T0007060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Kamataka, India Mangaluru ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)VENKATESH RAO S N Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 2)SUDHEENDRA H N Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 3)SATHYAPRAKASH ANEKALLU Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 4)SIDDARTH U Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> |
|--|---|

(57) Abstract :

A control system based on an automatic brake failure signal and automatic braking using an electromagnet coil type of braking is designed and developed. This project consists of an IR sensor circuit, a control unit, a wheel and brake arrangement. The system is made up of an electromagnet coil that produces braking force by interacting with the brake disc or drum and a sensor that senses when the brake pedal is pushed and transmits a signal to activate the brake failure indicator. By automatically applying the brakes to bring the car to a stop and alerting the driver of the brake failure, this technology adds an extra layer of safety in the case of a brake failure running a loop that assigns 32 pin ports to the right I/O instruction, row-wise, after each row executes, assigning delay to turn off all ports and assigning I/O ports to the next row.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047724 A

(19) INDIA

(22) Date of filing of Application :15/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : DETECTION OF PHISHING WEBSITE

| | |
|--|---|
| <p>(51) International classification :G06Q0030060000, G06N0020000000, G06K0009620000, G06F0009451000, G06F0021560000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. PADMANAYANA Address of Applicant :Professor, Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 2)NIVEDITHA Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 3)RANJITA B HUGAR Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 4)SHWETA PRAKASH BHAT Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 5)SOURABHA Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- ---</p> |
|--|---|

(57) Abstract :

In order to detect and predict phishing website, we proposed an intelligent, flexible and effective system that is based on using classification Machine Learning algorithm. We implemented classification algorithm and techniques to extract the phishing data sets criteria to classify their legitimacy. The phishing website can be detected based on some important characteristics like URL and Domain Identity, and security and encryption criteria in the final phishing detection rate. This application can be used by E-commerce enterprises to make the whole transaction process secure. Machine Learning algorithm used in this system provides better performance as compared to other traditional classifications algorithms. With the help of this system user can also purchase products online without any hesitation. Admin can add phishing website URL or fake website URL into system where system could access and scan the phishing website and by using algorithm, it will add new suspicious keywords to database

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047724 A

(19) INDIA

(22) Date of filing of Application :15/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : DETECTION OF PHISHING WEBSITE

| | |
|--|---|
| <p>(51) International classification :G06Q0030060000, G06N0020000000, G06K0009620000, G06F0009451000, G06F0021560000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. PADMANAYANA Address of Applicant :Professor, Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 2)NIVEDITHA Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 3)RANJITA B HUGAR Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 4)SHWETA PRAKASH BHAT Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- --- 5)SOURABHA Address of Applicant :Department of Computer science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- ---</p> |
|--|---|

(57) Abstract :

In order to detect and predict phishing website, we proposed an intelligent, flexible and effective system that is based on using classification Machine Learning algorithm. We implemented classification algorithm and techniques to extract the phishing data sets criteria to classify their legitimacy. The phishing website can be detected based on some important characteristics like URL and Domain Identity, and security and encryption criteria in the final phishing detection rate. This application can be used by E-commerce enterprises to make the whole transaction process secure. Machine Learning algorithm used in this system provides better performance as compared to other traditional classifications algorithms. With the help of this system user can also purchase products online without any hesitation. Admin can add phishing website URL or fake website URL into system where system could access and scan the phishing website and by using algorithm, it will add new suspicious keywords to database

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047751 A

(19) INDIA

(22) Date of filing of Application :15/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : FABRICATION AND DEVELOPMENT OF BLDC MOTOR AND CONTROLLER FOR DESIGNED ELECTRIC VEHICLE

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|--|---|
| <p>(51) International classification :B60L0015200000, H02K0029000000, B60L0050600000, G01R0031340000, H02M0003155000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GIRISH A R Address of Applicant :Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru- 574 143, Karnataka, India Mangaluru -----</p> <p>2)Dr. GANGADHARA RAO Address of Applicant :Professor, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil, Mangalore-574143, Karnataka, India Mangaluru -----</p> <p>3)VARUN N Address of Applicant :Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574 143, Karnataka, India Mangaluru -----</p> <p>4)LOKESH K S Address of Applicant :Assistant Professor, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil, Mangalore-574143, Karnataka, India Mangaluru -----</p> <p>5)PRAKASH S T Address of Applicant :Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangalore-574143, Karnataka, India Mangaluru -----</p> <p>6)JAGADEESH B Address of Applicant :Assistant Professor, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil, Mangalore-574143, Karnataka, India Mangaluru -----</p> |
|--|---|

(57) Abstract :

Electric vehicles are the most effective solution for green mobility because of their great efficiency and lack of greenhouse gas emissions. There have been numerous electric motors utilized as the driving force for electric vehicles. The performance of switching reluctance motors, induction motors, brushed direct current (DC) motors, and permanent magnet Brushless DC (BLDC) motors under both normal and emergency conditions is compared using simulation. This study shows that the best electric motors for high-performance electric vehicles are BLDC motors. An accurate model of a BLDC motor is necessary to assess the motor performance for various control strategies.

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047763 A

(19) INDIA

(22) Date of filing of Application :15/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : CRIME PREDICTIVE MODEL & HOTSPOT MAPPING USING MACHINE LEARNING

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|---|--|
| <p>(51) International classification G06Q0050260000, H04N0007180000, G06N0003040000, G06N0020000000, G06N0007000000</p> <p>(86) International Application No PCT// Filing Date 01/01/1900</p> <p>(87) International Publication No NA</p> <p>(61) Patent of Addition to Application Number NA Filing Date NA</p> <p>(62) Divisional to Application Number NA Filing Date NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MADHUSUDHAN S Address of Applicant :Assistant Professor, Department of Artificial Intelligence & Machine Learning, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> <p>2)ATHMARANJAN K Address of Applicant :Associate Professor, Department of Information Science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru-- -----</p> <p>3)SOWMYA Address of Applicant :Assistant Professor, Department of Information Science & Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru-- -----</p> <p>4)PARVATHRAJ K M M Address of Applicant :Assistant Professor, Department of Artificial Intelligence & Machine Learning, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> <p>5)Dr. JOSE ALEX MATHEW Address of Applicant :Professor, Department of Artificial Intelligence & Data Science, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru-- -----</p> <p>6)NITHYA B P Address of Applicant :Assistant Professor, Department of Artificial Intelligence & Machine Learning, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> <p>7)NIVIN Address of Applicant :Assistant Professor, Department of Artificial Intelligence & Machine Learning, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> <p>8)SNEHA BOSE Address of Applicant :Assistant Professor, Department of Artificial Intelligence & Data Science, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> |
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(57) Abstract :
Computerized systems and data mining techniques used in this method to extracts meaningful insights from unstructured data, expediting crime investigations. Rather than focusing on an offender's criminal history or political motives, it prioritizes routine aspects of crime occurrences. The ultimate goal is to enhance societal safety and reduce crime rates. However, accurately predicting real-time crime incidents remains a significant challenge. To address this, our proposed system integrates CCTV footage and sound detection to predict crimes and identify hotspots in real-time. Computer vision algorithms detect and track individuals in the footage, while machine learning analyzes their behavior patterns to predict potential criminal activity. The system also includes a sound detection module that alerts law enforcement upon detecting screams for help, providing the incident location and relevant CCTV footage for further investigation. Moreover, hotspot maps generated using historical crime data assist law enforcement in identifying high-crime areas.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
 (19) INDIA
 (22) Date of filing of Application :15/07/2023

(21) Application No.202341047772 A
 (43) Publication Date : 01/09/2023

(54) Title of the invention : WIRELESS QUIZ BUZZER USING ESP8266

| | |
|--|---|
| <p>(51) International classification :H04W0084120000, G06F0008650000, H04L0067120000, H04M0007000000, G06F0003048830</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p> | <p>(71)Name of Applicant : 1)Srinivas Institute of Technology Address of Applicant :Srinivas Institute of Technology, Valachil, Post Farangipete, Mangaluru - 574 143, Karnataka, India Mangaluru ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SATHISH KUMAR.K Address of Applicant :Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India. Mangaluru ----- 2)SOORYA KRISHNA K Address of Applicant :Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Valachil, Mangalore. 574 143, Karnataka, India. Mangaluru ----- 3)CLITUS NEIL D SOUZA Address of Applicant :Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 4)CHAITRA M MOGER Address of Applicant :Department of Electronics and communication Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 5)KAVYA G VAIDYA Address of Applicant :Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 6)NEHA RAI K Address of Applicant :Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru ----- 7)PRIYANKA K M Address of Applicant :Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangaluru -----</p> |
|--|---|

(57) Abstract :
 This invention improves the pleasure of playing traditional quiz games. Players can use the wireless buzzer device to respond to questions quickly and conveniently. The system builds a wireless network connecting the buzzers to a central server using the well-known ESP8266 Wi-Fi module, enabling real-time communication between the players and the game master. It utilizes the in-built WiFi module available from this board for different applications. The software implementation includes the use of one of the IoT platform called 'Thingspeak' which can be is used to read and write feed operations using API Keys. Even using this platform, we have performed operations like adding, reading, updating, and executing the commands. These can be done in two methods and they are, via Talkback channels available in ThingSpeak and the other is an API web platform called 'Postman' and this is the hardware and software implementation of our project.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047001 A

(19) INDIA

(22) Date of filing of Application :12/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : CALCULATION AND ANALYSIS OF CARBON INTENSITY INDICATOR FOR MERCHANT VESSELS

| | |
|--|--|
| <p>(51) International classification :G06Q0010080000, B63B0049000000, B63H0021380000, G08G0003000000, B01D0053620000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr. Praveen B M Address of Applicant :Patent ----- 2)Srinivas Institute of Technology Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)VIVEK VIJAY KUMAR Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 2)SUNIL PRAKASH RODRIGUES Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 3)NITHIN JOSHUA Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 4)SATHISHA K G Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 5)MOHAMED GOWSPEER Address of Applicant :Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 6)TONY K SEBASTIAN Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore -----</p> |
|--|--|

(57) Abstract :

The Invention aims to develop a method for calculating the carbon intensity of a ship, which is a measure of the greenhouse gas emissions produced by a vessel per unit of cargo carried. To calculate the carbon intensity indicator, the Invention will use data on a ship's fuel consumption and the distance traveled. The fuel consumption data will be obtained from onboard monitoring systems or from fuel purchase records, and the distance traveled will be calculated using GPS data. The Invention will also consider other factors that may affect a ship's carbon intensity, such as the type of cargo being carried and the age and size of the vessel. The resulting carbon intensity indicator will be presented in an easy-to-understand format, such as a score or rating, that can be used by shipping companies, regulators, and consumers to compare the environmental impact of different ships and shipping routes.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341047001 A

(19) INDIA

(22) Date of filing of Application :12/07/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : CALCULATION AND ANALYSIS OF CARBON INTENSITY INDICATOR FOR MERCHANT VESSELS

| | |
|--|--|
| <p>(51) International classification :G06Q0010080000, B63B0049000000, B63H0021380000, G08G0003000000, B01D0053620000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr. Praveen B M Address of Applicant :Patent ----- 2)Srinivas Institute of Technology Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)VIVEK VIJAY KUMAR Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 2)SUNIL PRAKASH RODRIGUES Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 3)NITHIN JOSHUA Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 4)SATHISHA K G Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 5)MOHAMED GOWSPEER Address of Applicant :Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore ----- 6)TONY K SEBASTIAN Address of Applicant :Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru. 574 143, Karnataka, India Mangalore -----</p> |
|--|--|

(57) Abstract :

The Invention aims to develop a method for calculating the carbon intensity of a ship, which is a measure of the greenhouse gas emissions produced by a vessel per unit of cargo carried. To calculate the carbon intensity indicator, the Invention will use data on a ship's fuel consumption and the distance traveled. The fuel consumption data will be obtained from onboard monitoring systems or from fuel purchase records, and the distance traveled will be calculated using GPS data. The Invention will also consider other factors that may affect a ship's carbon intensity, such as the type of cargo being carried and the age and size of the vessel. The resulting carbon intensity indicator will be presented in an easy-to-understand format, such as a score or rating, that can be used by shipping companies, regulators, and consumers to compare the environmental impact of different ships and shipping routes.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/09/2023

(21) Application No.202341065220 A
(43) Publication Date : 06/10/2023

(54) Title of the invention : AUTOMATED TRUCK LOADING AND UNLOADING SYSTEM IN HARBOUR

(51) International classification :G05D0001020000, E02B0003060000, B65G0067080000, B60P0001640000, G11B0005540000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The topic's goal is to highlight how crucial a role automated truck loading and unloading plays in several sectors. This project report offers a creative way to use sensors and electromagnets to improve the Automated Truck Loading and Unloading system in Harbour. It will have advantages and play a significant role in the Harbour. The most important part involves automatically loading and unloading containers from trucks utilizing screw motor mechanisms and electromagnets that are situated in the harbor. The system has a variety of sensors so that it can aid in automated processes and provide a rough estimate of the process. Programming takes place on Arduino UNO boards. Embedded C is the program that is introduced in the topic. The Arduino UNO board is operated in accordance with the Embedded C software, which will aid in the cleaning process. The sensors will link the truck system and the harbor system in order to move forward with the clearing work. Saving time while loading and unloading and maintaining safety are the major priorities. Additionally, in the real-time working system, productivity must rise and time consumption must fall. This results in the workers in the harbor being completely safe.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/09/2023

(21) Application No.202341059010 A
(43) Publication Date : 06/10/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE (AI) ENABLED CYBER SECURITY THREAT DETECTION AND RESPONSE SYSTEM

(51) International classification :G06N0003080000, G06N0020000000, G06F0021570000, G06N0003040000, G06F0021550000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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7)DIVYA S B
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(57) Abstract :
The invention introduces an AI-enabled Cyber Security Threat Detection and Response System designed to address the complexities of modern cyber threats. By harnessing the power of artificial intelligence, including machine learning and deep learning methodologies, the system continuously analyzes and learns from network data, ensuring robust detection of both known and novel threats. In addition to its advanced detection capabilities, the system also incorporates an automated response module that takes swift actions upon threat detection, ranging from alerts to proactive countermeasures. Designed for versatility, it seamlessly integrates with varied digital environments and collaborates in real-time with other systems, offering a holistic, adaptive, and cutting-edge cybersecurity solution.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
 (19) INDIA
 (22) Date of filing of Application :13/06/2023

(21) Application No.202341040273 A
 (43) Publication Date : 18/08/2023

(54) Title of the invention : ML AND IOT BASED PROBABILISTIC METHOD IN APPLIED MATHEMATICS FOR AGRICULTURAL TRACKING FARMING SYSTEM

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|---|---|
| <p>(51) International classification :A01G 092400, A01G 310600, G06F 163300, G09B 190200, H05B 471050</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)Dr. Sowmya K B Address of Applicant :DESIGNATION: Assistant Professor DEPARTMENT: Electronics and Communication Engineering COLLEGE FULL NAME :RV College of engineering, Bengaluru CITY: Bengaluru STATE: Kamataka PIN CODE: 560059 kb.sowmya@gmail.com -----</p> <p>2)Dr. Jose Alex Mathew 3)Mr. Anil Nageshwar Rangapure 4)Mr. Vishal G Sarashetti Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Sowmya K B Address of Applicant :DESIGNATION: Assistant Professor DEPARTMENT: Electronics and Communication Engineering COLLEGE FULL NAME :RV College of engineering, Bengaluru CITY: Bengaluru STATE: Kamataka PIN CODE: 560059 kb.sowmya@gmail.com -----</p> <p>2)Dr. Jose Alex Mathew Address of Applicant :DESIGNATION: Professor DEPARTMENT: Artificial Intelligence and Data Science COLLEGE FULL NAME : Srinivas Institute of Technology, Mangaluru CITY: Mangaluru STATE: Kamataka PIN CODE: 575006 -----</p> <p>3)Mr. Anil Nageshwar Rangapure Address of Applicant :DESIGNATION: Design Engineer DEPARTMENT: Electronics and Communication Engineering COLLEGE FULL NAME :RV College of engineering, Bengaluru CITY: Bangalore STATE: Kamataka PIN CODE: 560059 -----</p> <p>4)Mr. Vishal G Sarashetti Address of Applicant :DESIGNATION: Design Engineer DEPARTMENT: Electronics and Communication Engineering COLLEGE FULL NAME :RV College of engineering, Bengaluru CITY: Bangalore STATE: Kamataka PIN CODE: 560059 -----</p> |
|---|---|

(57) Abstract :
 ML and IOT based Probabilistic Method in Applied Mathematics for Agricultural Tracking Farming System ABSTRACT The use of ML and IoT-based probabilistic methods in applied mathematics for agricultural tracking farming systems is summarised in this abstract. By enabling data-driven decision-making, resource optimisation, and increased effectiveness, the integration of these technologies aims to improve agricultural operations. The implementation process starts with data collection using Internet of Things (IoT) gadgets like sensors and drones, which keep an eye on a variety of parameters like soil moisture, temperature, crop growth, and pest infestation. After that, ML techniques are used to preprocess the collected data to deal with noise, missing values, and normalisation. To capture uncertainties and dependencies between agricultural variables, probabilistic modelling techniques like Bayesian networks, hidden Markov models, and Gaussian processes are used. Predictions and decision-making under ambiguous circumstances are made possible by these models. On the basis of preprocessed data, predictive models are constructed using ML algorithms. Crop yield forecasting, disease outbreak detection, and irrigation schedule optimisation can all be done with the help of supervised learning algorithms like random forests, support vector machines, or neural networks. The use of probabilistic models and predictive analytics allows for optimisation and resource allocation. Based on anticipated crop yields and market prices, farmers can decide how best to distribute resources, reducing waste and maximising profits. To give farmers real-time recommendations, decision support systems that take into account variables like weather, soil conditions, market prices, and pest risks combine ML and probabilistic methods. Predictive models are accurate and relevant thanks to ongoing monitoring and feedback from IoT devices. In agricultural tracking farming systems, combining ML, IoT, and probabilistic methods has many advantages, including better crop management, diminished environmental impact, improved resource efficiency, and increased profitability. Through precision farming and data-driven decision-making, these technologies have the potential to revolutionise the agricultural sector.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341054712 A

(19) INDIA

(22) Date of filing of Application :15/08/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : SECURED DATA TRANSFER USING BLOCK CHAIN TECHNOLOGY

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|---|--|
| <p>(51) International classification :H04L0009320000, H04L0009060000, G06F0021640000, G06Q0020380000, G06Q0020400000</p> <p>(86) International Application No :PCT// Filing Date :01/01/2000</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p> | <p>(71)Name of Applicant : 1)DR.SHRINIVASA MAYYA D Address of Applicant :PRINCIPAL, SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALURU-574143, KARNATAKA, INDIA. ----- 2)PARVATHRAJ K M M 3)DR.ANOOP B K 4)DR.ANOOP V 5)DR. V.VJIKALA 6)DR. DHEERAJ HEBRI 7)SANTHOSH S 8)DR.PADMANAYANA 9)SHYAMILY P V 10)DIVYA KUMARI Name of Applicant :NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR.SHRINIVASA MAYYA D Address of Applicant :PRINCIPAL, SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALURU-574143, KARNATAKA, INDIA. ----- 2)PARVATHRAJ K M M Address of Applicant :ASSISTANT PROFESSOR, DEPT. OF AIML, SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALURU-574143, KARNATAKA, INDIA. ----- 3)DR.ANOOP B K Address of Applicant :PROFESSOR & HEAD, DEPT OF AIML, SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALURU-574143, KARNATAKA, INDIA. ----- 4)DR.ANOOP V Address of Applicant :PROFESSOR, DEPT. OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE, JYOTHI ENGINEERING COLLEGE, VETTIKATTIRI (PO), CHERUTHURUTHY-THRISSUR, 679531, KERALA, INDIA. ----- 5)DR. V.VJIKALA Address of Applicant :ASSOCIATE PROFESSOR / HOD, DEPT. OF ELECTRICAL AND ELECTRONICS ENGINEERING, SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, KODAKARA, THRISSUR - 680684, KERALA, INDIA. ----- 6)DR. DHEERAJ HEBRI Address of Applicant :ASSOCIATE PROFESSOR, DEPT. OF MASTER OF COMPUTER APPLICATIONS, "SUVIDHA", KAIKUNJA WEST, B.C.ROAD - 574219, KARNATAKA, INDIA. ----- 7)SANTHOSH S Address of Applicant :ASSISTANT PROFESSOR, DEPT. OF ISE, NITTE (DEEMED TO BE UNIVERSITY), NMAM INSTITUTE OF TECHNOLOGY (NMAMIT), NITTE, KARNATAKA, INDIA. ----- 8)DR.PADMANAYANA Address of Applicant :PROFESSOR, DEPT. OF CSE, SRINIVAS INSTITUTE OF TECHNOLOGY, VALACHIL, MANGALURU-574143, KARNATAKA, INDIA. ----- 9)SHYAMILY P V Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, SRINIVAS UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGY, MANGALURU, KARNATAKA, INDIA. ----- 10)DIVYA KUMARI Address of Applicant :ASST. PROFESSOR, DEPARTMENT OF BCA, W/O NAVEENCHANDRA V, DOOR NO.10-46/1, MUGRODI, SHAKTHINAGAR, MANGALORE-575016, KARNATAKA, INDIA. -----</p> |
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(57) Abstract :

A system and method for the secure and efficient transfer of data using blockchain technology. The invention incorporates a decentralized ledger for recording and verifying transactions, coupled with advanced cryptographic techniques for data authentication and integrity. With adaptability to diverse industries and seamless integration with emerging technologies, this approach ensures unparalleled security, transparency, and resilience against cyber threats in digital communication.

No. of Pages : 22 No. of Claims : 10



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India



| Application Details | |
|----------------------------------|---|
| APPLICATION NUMBER | 202341035348 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 21/05/2023 |
| APPLICANT NAME | 1 . Ms.Neema George 2 . Dr.Anoop B K 3 . Dr.N.Susitha 4 . Dr.M.Ramesh 5 . Mr.Anandbabu Gopatoti 6 . Mr.M.Purnachandra Rao 7 . Ms.S.Jayachitra 8 . Dr.Duraimurugan S 9 . Mr.Addagatla Prashanth 10 . Dr.K.Abhimanyu Kumar Patro |
| TITLE OF INVENTION | MONITORING AGRICULTURE WASTE BY IMAGE PROCESSING SYSTEM BASED ON IOT |
| FIELD OF INVENTION | COMPUTER SCIENCE |
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| PUBLICATION DATE (U/S 11A) | 18/08/2023 |



Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

सत्यमेव जयते

Application Details

| | |
|--------------------|---|
| APPLICATION NUMBER | 202341075442 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 04/11/2023 |
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| TITLE OF INVENTION | A SMART AND SELF-ACTING PROCESS FOR DISTINGUISHING AND GRADING DIABETIC RETINOPATHY |
| FIELD OF INVENTION | COMPUTER SCIENCE |

Application Details

| | |
|-------------------------------------|--|
| APPLICATION NUMBER | 202141012114 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 22/03/2021 |
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| TITLE OF INVENTION | BIODEGRADABLE BLEND FILM DERIVED FROM POLYCAPROLACTONE AN GUAR GUM BLEND FOR PACKAGING APPLICATION |
| FIELD OF INVENTION | POLYMER TECHNOLOGY |
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| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 02/04/2021 |

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Finance Management

| Patents Filed | Application Approved | Application Rejected | Application in Review/Revision |
|---------------|----------------------|----------------------|--------------------------------|
| 17 | 16 | 0 | 0 |

Actions/Verification

| | |
|-----------------|-------|
| Eligible Amount | 44800 |
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| Patent ApplicationId | Application Status | Reason for Rejection / Revision |
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| 202341047763 | Approved | |
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| 202341047739 | Approved | |
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| 202241046336 | Approved | |
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| 202341086009 | Approved | |
| 202341086002 | Approved | |
| 202341087062 | Approved | |

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