MAVEN

GOA STATE
INNOVATION COUNCIL
ANNUAL REPORT
2024 / 2025

Goa State Innovation Council

ANNUAL REPORT 2024-25

Ref No. 1/2025-min(Revenue)/637   Dated:- 09/07/2025

Fellow Goans, Visionaries and Changemakers,

It is with immense pride that I present this annual report as an exemplification of the remarkable journey of the Goa State Innovation Council (GSInC) in the past year. Goa's rich history has always been intertwined with a spirit of exploration and a willingness to embrace the new. GSInC, with its dedication and foresight, has nurtured this spirit, fostering a dynamic ecosystem where startups can find their feet and scale up. In the last decade, GSInC has helped Goa create an image beyond the land of sun-kissed beaches and a vibrant culture; we are becoming a launchpad for groundbreaking ideas with the potential to transform lives.

This report highlights some of the initiatives that have truly made a difference. The Virtual Innovation Register (VIR), for example, continues to be the platform for harvesting great ideas at the grassroots level. This online platform is not merely a database; it's a virtual meeting ground where aspiring minds connect, ideas spark, and partnerships are forged.

From registering a groundbreaking idea to transforming dreams into tangible prototypes and MVPs, the GSInC Prototyping Lab at Don Bosco College of Engineering provides inventors, students and startups access to cutting-edge equipment and expertise, empowering them to bridge the gap between imagination and reality.

My deepest gratitude goes to the GSInC team – the dedicated professionals and visionary individuals who work tirelessly to champion innovation and support startups. Your unwavering commitment is the engine propelling us forward. And to you, the people of Goa, I extend my sincere appreciation for your support and participation. Your ideas and contributions are the lifeblood of our success.

As we move forward, let us continue to build an inclusive and vibrant ecosystem that empowers all. Let us bridge the divides between sectors, disciplines, and generations. Together, let us unlock Goa's boundless potential and create a future brimming with innovation, prosperity, and opportunity.

Warm Regards,

Atanasio Monserrate

(Minister for Revenue, Labour

& Waste Management)

Jose Manuel Noronha
Chairman

Chairman's Message

It gives me immense pride to witness our transformative progress over the past year. GSInC has indeed emerged as a beacon for innovators, entrepreneurs, and thinkers who dare to challenge the status quo and re-imagine the future of our state.

This year, our initiatives have not just been about technology or business but have extended to fostering a problem-solving mindset and creative resilience amongst the people of the state. From grassroots workshops in schools and colleges to high-level engagements at prestigious platforms like Converge 2.0, NOESIS, and the Drone Workshop, we have consistently worked to democratize access to innovation tools and knowledge.

Over the past year, we have celebrated remarkable achievements across our diverse portfolio of programs—from our dynamic bootcamps that equip young entrepreneurs with the skills and insights needed to launch successful ventures to our state-of-the-art prototyping lab that empowers innovators to convert visionary ideas into tangible prototypes. Notably, the progress of the Virtual Innovation Register (VIR) has been a cornerstone of our efforts. This innovative platform has become a central repository for the most promising ideas emerging from Goa, effectively accelerating the startup journey and ensuring that every inventive spark can shine. As part of our commitment to fostering innovation excellence, GSInC has also been actively promoting the Goa Rajya Vidnyanik Puraskar, an initiative developed to identify and recognize innovators and scientists who have transformed their ideas into impactful innovations that are changing lives across the globe. Last year's edition of INEX 2024 was a resounding success, drawing widespread participation and acclaim.
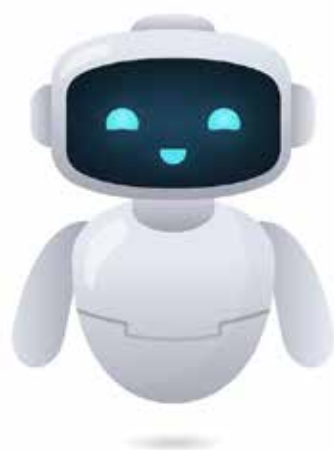
GSInC's extensive and strategic initiatives have not only redefined the startup landscape in Goa but also established a strong foundation for an innovation ecosystem that is inclusive, agile, and globally connected. As we continue to build upon this momentum, I extend my heartfelt gratitude to all our partners, mentors, educational institutions, industry leaders, and, most importantly, our vibrant community of innovators.

Together, let us continue to ensure that our state remains a pioneering hub of excellence in innovation and entrepreneurship. The journey ahead is as promising as it is challenging, and I am confident that our collective efforts will create a legacy of transformative progress and sustainable growth for Goa.

(Jose Manuel Noronha)
Chairman
Goa State Innovation Council

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CHAPTER 01

INTRODUCTION

1.1 GENERAL INTRODUCTION

At the heart of every great idea is a simple belief — that things can be better, smarter, and more meaningful. Guided by this belief, Goa State Innovation Council (GSInC) continues to stand as a beacon of progress, driving a bold vision for the future. Established under the Directorate of Science and Technology, GSInC is not just an initiative but a movement transforming Goa into a thriving hub of innovation, entrepreneurship, and technological excellence.

Innovation is the engine of progress, and GSInC fuels this engine with unwavering commitment. From empowering startups and students to bridging the gap between academia and industry, we create an ecosystem where ideas flourish, talent is nurtured, and breakthroughs take shape. By fostering collaboration between government, businesses, research institutions, and aspiring entrepreneurs, we unlock opportunities that propel Goa beyond its traditional identity and into the national and global arena as a centre for cutting-edge advancements.

Our initiatives are future-focused, impact-driven, and designed to inspire the next generation of changemakers. Whether through strategic mentorship, funding support, or skill-building workshops, GSInC is a launchpad for visionaries ready to challenge norms, disrupt industries, and drive economic transformation.

At GSInC, we believe that innovation is more than just technology—it is the key to shaping a sustainable, inclusive, and prosperous tomorrow. Every initiative we undertake is a step towards building a smarter, more resilient Goa—one where creativity is limitless, opportunities are boundless, and the future is waiting to be redefined.

This year has been a reflection of what is possible when inspiration meets opportunity. We have seen students transform into inventors, entrepreneurs challenge boundaries, and collaborations between academia, industry, and government flourish. Through it all, our mission has remained grounded — to create an ecosystem that is not just vibrant but also inclusive, forward-looking, and human-centred. As we look back on the milestones of 2024–25, we do so with gratitude and renewed purpose. The road ahead is exciting — full of promise, challenges, and opportunities. But with the collective will of the innovators, entrepreneurs, students, mentors, and partners who form the GSInC family, we remain confident in our ability to dream bigger and deliver better. We invite you to join us on this journey as we continue to turn ideas into action and possibilities into progress — for Goa, India, and the future.

Objectives of the Goa State Innovation Council

- Support the Government to promote innovation in Science and Technology and strengthen the Innovation ecosystem in the State of Goa.
- Organize seminars, workshops, lectures, and symposia on innovation and related areas.
- Identify, encourage and reward young talent in innovation related to Science and Technology.
- Map opportunities for innovation in the State of Goa.
- Assist in identifying and setting up common facility centres for "Robotics and Coding" at educational institutions.
- Create periodic reports on innovations in the State of Goa.
- Create and maintain the Council Web portal, which includes monitoring and evaluating the Virtual Innovation Register.
- Organize risk capital and venture capital for young innovators in the State of Goa.
- Identify High Net-worth Individuals (HNI) and Angel Investors (AI) and organize periodic "Pitching Sessions" for the innovators of the State with the HNIs and AIs.
- Engage with the Innovation Community to develop ideas and strategies for the growth of Innovation in the State of Goa.
- Connect and develop a closer linkage between National and State Innovation ecosystems.
- To provide financial support for prototyping technology-based innovative projects/ideas under the Virtual Innovation Register (VIR) to make it affordable for students, startups, innovators, research faculty, and entrepreneurs who require necessary support in converting ideas into marketable products.

1.2 THE SECRETARIAT

The Secretariat of the Goa State Innovation Council is established at Don Bosco College of Engineering, Fatorda, Goa. Presently, the GSInC Secretariat employs two personnel whose details are given below:

TABLE: 1.1: STAFF EMPLOYED IN THE GSINC WITH NAME AND DESIGNATION

SR. NO	NAME OF THE EMPLOYEE	DESIGNATION
01	Mr. Sudip Faldesai	Project Officer
02	Mrs. Valencia Fernandes	Secretarial Assistant

PHOTOGRAPH 1:
THE SECRETARIAT OF GOA STATE INNOVATION COUNCIL ESTABLISHED AT DON BOSCO COLLEGE OF ENGINEERING, FATORDA

CHAPTER 02

CONSTITUTION OF THE COUNCIL

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CONSTITUTION OF THE COUNCIL

2.1 INTRODUCTION

In pursuit of its objectives, the Goa State Innovation Council has assembled a cadre of distinguished individuals from academia, industry, and government agencies to serve as Council Members. These esteemed experts and professionals, hailing from diverse backgrounds, contribute their wealth of knowledge and expertise to bolster the council's initiatives. Below is a summary of the composition of the Goa State Innovation Council and its esteemed members.

2.2 CONSTITUTION OF THE COUNCIL MEMBERS

The Goa State Innovation Council was initially constituted under the National Innovation Council, Government of India as advised by the Adviser to Prime Minister, Public Information Infrastructure and Innovations, Government of India on 4th August 2011. The Goa State Innovation Council was initially constituted on 4th August 2011 under the aegis of the Directorate of Higher Education and subsequently under the Department of Science, Technology & Environment on 12th September 2013. The Goa State Innovation Council was later re-constituted on 19th October 2021 under the Department of Science, Technology & Waste Management (S&T & WM). Recently the Finance Department advised that Goa State Innovation Council should be registered under the Societies Registration Act 1860 in order to continue receiving financial grants from the Government.

Goa State Innovation Council is now registered as a Society under the Societies Registration Act, 1860 and titled as "Goa State Innovation Council Society" with Registered No. 98/Goa/2023. Goa State Innovation Council Society functions under the aegis of the Department of Science, Technology & Waste Management, Government of Goa and has its Secretariat established at the Don Bosco College of Engineering, Fatorda.

The Society organises as part of its mandate various programs on Innovation in the State of Goa. The Society is now actively involved in creating an ecosystem in Innovation in the State. GSInC functions under the aegis of the Department of Science, Technology & Waste Management, Government of Goa and has its Secretariat established at the Don Bosco College of Engineering, Fatorda.

The Society organises as part of its mandate various programs on Innovation in the State of Goa. The Society is now actively involved in creating an eco-system in Innovation in the State.

SHRI JOSE MANUEL NORONHA
Chairman, Goa Public Service Commission   Chairman

PROF. SUNIL KUMAR SINGH
Director, CSIR-National Institute of Oceanography (NIO),   Ex-Officio Member
Dona Paula, Goa

PROF. O. R. JAISWAL
Director, National Institute of Technology Goa   Ex-Officio Member

DR. SUMAN KUNDU
Director, BITS Pilani K K Birla Goa Campus   Ex-Officio Member

SHRI KABIR SHIRGAONKAR
Director, Department of Information Technology,   Ex-Officio Member
Government of Goa

DR. VIVEK KAMAT
Director, Directorate of Technical Education, Porvorim, Goa   Ex-Officio Member

SHRI BHUSHAN SAVOIKAR
Director, Directorate Of Higher Education   Ex-Officio Member

DR. MS KRUPASHANKARA
Principal, Goa College of Engineering, Farmagudi   Ex-Officio Member

DR. NEENA PANANDIKAR
Principal, Don Bosco College Of Engineering, Fatorda   Ex-Officio Member

DR. SUNIL PAUL
Assistant Professor, Indian Institute of Technology Goa   Ex-Officio Member

DR. KAUSTUBH PRIOLKAR
Professor, Department of Physics, Goa University   Member

SHRI. D. S. PRASHANT
CEO - Startup and IT Promotion Cell, Department of
Information Technology, Electronics and Communications,
Government of Goa   Member

SMT. BRENDA FERNANDES
Member Secretary, Goa State Council for Science and
Environment, Saligao, Goa   Ex-Officio Member

SHRI. SREEDHAR BEVARA
CEO, BMR Innovations   Member

SHRI. YASHVIT NAIK
Co-Founder & CTO, Teknorix Systems   Ex-Officio Member

SHRI. ANKIT YADAV, IAS
Director, Department of Science and Technology, Govt. of Goa   Ex-Officio Member

H/L

No. 3-191/2011/STE-DIR/ ...
Office of the Director/Ex-Officio, Jt. Secy
(S&T&WM)
Dept. of Sci. Tech. & Waste Management .
Porvorim - Goa.

Dated: /10/2021

ORDER

1. Read Order No. 9/309/2011HE/SInC/1673 dated 4th August 2011.

2. Read Order No. 3-191/2011/STE-DIR/702 dated 12th September 2013.

3. Read Order No.3-191/2011/STE-DIR/725 dated 18th January 2021.

In supersession of the above referred order, Government is pleased to reconstitute the Goa State Innovation Council (GSInC) comprising the following members:

1. Shri Jose Manuel Noronha, ...Chairman

    Bagbhat, Raia, Salcete, Goa

2. Director, ...Member

    Indian Institute of Technology,

    Farmagudi, Ponda Goa or his nominee

3. Director, ...Member

    National Institute of Technology,

    Farmagudi, Ponda Goa or his nominee

4. Director,

    National Institute of Oceanography,

    Dona Ponda, Goa or his nominee

5. Director, ...Member

    Birla Institute of Technology & Science,

    Zuarinagar, Sancoale or his nominee

6. Director, ...Member

    Department of Information Technology,

    Government of Goa,

    Altinho, Panaji - Goa.

7. Director, ...Member

    Directorate of Higher Education,

    Government of Goa,

    Porvorim, Goa

S/L

8. Director, ...Member

Directorate of Technical Education,

Government of Goa,

Porvorim, Goa.

9. Principal, ...Member

Goa College of Engineering,

Farmagudi, Ponda, Goa.

10. Principal, ...Member

Don Bosco College of Engineering,

Fatorda, Goa

11. Shri Shreedhar Bevara, ... Member

CEO,

BMR Innovations,

Vishakapatnam, Andhra Pradesh

12. Shri D.S. Prashant, ... Member

CEO,

Forum for Innovation, Incubation, Research and Entrepreneurship,

Fatorda, Goa.

13. Shri Kastubh Priolkar, ...Member

Professor, Department of Physics,

Goa University, Taleigao Plateau, Goa

14. President   ......Member

Goa Technology Association,

Ponda, Goa or his nominee

15. Member Secretary, ... Member

Goa State Council for Science and Technology

Department of Science and Technology,

Government of Goa,

Saligao, Bardez - Goa.

16. Director, ... Member Secretary

Department of Science and Technology & Waste

Management,

Government of Goa,

Saligao, Bardez - Goa.

Following shall be the 'Terms of Reference' for the council:-

1. Support the Government to promote innovation in Science and Technology and to strengthen the Innovation ecosystem in the State of Goa.

2. Organize seminars, workshops, lectures and symposia on innovation and related areas.

3. Identify, encourage and reward young talent in innovation related to Science and Technology.

4. Map opportunities for innovation in the State of Goa.

5. Assist in identifying and setting up common facility centers for " Robatics and Coding" at educational institutions.

6. Create periodic reports on innovations in the State of Goa.

7. Create and maintain the Council Web portal which includes monitoring and evaluating the Virtual Innovation Register.

8. Organize risk capital and venture capital for young innovators in the State of Goa.

9. Identify High Networth Individuals (HNI) and Angel Investors (AI) and organize periodic "Pitching Sessions" for the innovators of the State with the HNIs and AIs.

10. Engage with the Innovation Community to develop ideas and strategies for the growth of Innovation in the State of Goa.

11. Connect and develop closer linkage between National and State Innovation ecosystems.

12. To provide financial support for prototyping technology based innovative projects/ideas under the Virtual Innovation Register (VIR) to make it affordable for students, startups, innovators, research faculty and entrepreneurs who require necessary support in converting ideas into marketable products.

The Non Official members of the Council shall be paid sitting fees @ Rs.2000/- per sitting. Outstation Members will be paid TA/DA as per prevalent rules in addition to sitting fees.

(Levinson J. Martins)
Director (S&T &WM) / Ex-Officio,
Jt. Secretary to Government

To,
All the Members.

Copy to:
1. P.S. to Secretary for Hon'ble Chief Minister, Government of Goa, Secretariat, Porvorim Goa.
2. O.S.D to Hon'ble Minister for Science & Technology & Waste Management, Secretariat, Porvorim Goa.
3. P.S. to Chief Secretary, Government of Goa, Secretariat, Porvorim Goa.
4. P.A to Secretary, Science & Technology & Waste Management, Government of Goa, Secretariat, Porvorim Goa.
5. The Director of Accounts, Panaji Goa.
6. Guard File.
7. Order File.
8. O/c.

CHAPTER 03
MEETINGS OF THE COUNCIL

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MEETINGS OF THE COUNCIL

3.1 INTRODUCTION

At the Goa State Innovation Council (GSInC), each meeting serves as a cornerstone for purposeful dialogue and decisive action. These gatherings are more than formal proceedings; they are collaborative spaces where the council reviews ongoing initiatives, evaluates priorities, and shapes the roadmap for future progress. From infrastructure development to new program launches, every decision is weighed with care to ensure alignment with the council's mission of nurturing innovation, encouraging entrepreneurship, and driving sustainable growth in Goa. The collective efforts and strategic planning that emerge from these meetings continue to guide GSInC in building a dynamic and forward-looking innovation ecosystem for the state.

TABLE: 3.1: LIST OF GOA STATE INNOVATION COUNCIL MEETINGS

Sr No	PARTICULARS	DATE OF MEETING	VENUE
1	3rd General Body Meeting	17th Sept 2024	Don Bosco College of Engineering, Fatorda
2	4th General Body Meeting	29th Oct 2024	Don Bosco College of Engineering, Fatorda
3	5th General Body Meeting	17th Jan 2025	Don Bosco College of Engineering, Fatorda

3.2 3RD GENERAL BODY MEETING

Notice of Meeting

GOA STATE INNOVATION COUNCIL

Department of Science & Technology, Government of Goa

Secretariat

Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in

www.goastateinnovationcouncil.com

Society Registration No. 98/Goa/2023

NOTICE

Notice is hereby given that the third General Body meeting of the Goa State Innovation Council Society will be convened on **Tuesday, 17th September 2023**, from **3:30 p.m.** at **Ground Floor, Conference Room, Don Bosco College of Engineering, Fatorda, Goa.**

Agenda

1. Minutes of the Second General Body Meeting held on 19th March 2024.
2. Matters arising from the Minutes.
3. Updates on previously conducted Events and Annual Report 2023-24
4. Any other matter with the permission of the Chair.

Note:

Meeting shall be adjourned if no quorum is reached by 3:30 p.m. and shall commence at 3:45 p.m. treating those present as quorum.

For Goa State Innovation Council

(Ankit Yadav, IAS)
Director (S&T&WM) & Ex-Officio
Jt. Secretary to Government
Member Secretary (GSInC)

Date: 23/08/2023

Minutes of the Meeting

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa

Society Registration No. 98/Goa/2023

Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in

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Ref: GSInC/2023-24/   17/09/2024

Minutes of the Third meeting of the General Body of the Goa State Innovation Council held on Tuesday, 17th September, 2024 at 3.30 pm at the Don Bosco College of Engineering, Fatorda, Margao, Goa 403602 in hybrid mode.

The list of the members and other participants present in the meeting are mentioned below:

SHRI. CARMINHO JOSE MANUEL DO ROSARIO DE NORONHA Chairman, Goa State Innovation Council, Fatorda, Goa	Chairman
DR. KRUPASHANKARA M. S Principal, Goa College of Engineering, Farmagudi, Ponda, Goa	Member
DR. NEENA PANANDIKAR Principal, Don Bosco College of Engineering, Fatorda, Goa	Member
SMT BRENDA FERNANDES Member Secretary, Goa State Council for Science and Technology, Government of Goa, Saligao, Bardez - Goa	Member
SHRI. D. S. PRASHANT CEO, Startup and IT Promotion Cell, Govt. of Goa	Member
DR. KAUSTUBH PRIOLKAR Professor, Department of Physics, Goa University, Taleigao, Goa	Member
DR. SUNIL PAUL Assistant Professor, Indian Institute of Technology Goa, Farmagudi, Ponda, Goa	Member – Present Online
SHRI. YASHVIT NAIK Goa Technology Association, Goa	Member
SHRI. SHREEDHAR BEVARA CEO, BMR Innovations, Vishakapatnam, Andhra Pradesh	Member – Present Online
SHRI. ANKIT YADAV, IAS Director, Department of Science and Technology & Waste Management, Government of Goa, Porvorim, Goa	Member Secretary

Chairman informed that he had invited Rev. Fr. Kinley D'Cruz, Director – Don Bosco College of Engineering, Fatorda for the meeting.

3.0   In the Opening remarks, Chairman formally welcomed the members of the General Body of the Society and the Invitees and stated that the quorum was established and the meeting was properly constituted at 3:30 p.m. He informed the General Body members that they had received the Annual Report for 2023-24, which highlighted the Society's active role in organizing a diverse range of innovation-driven programs and events. These initiatives aim to expose the youth and innovators to various dimensions of innovation, encouraging creative thinking and fostering a culture of innovation. He, then directed the Project Officer, GSInC to take up the agenda items.

3.1   Confirmation of the Minutes of the Second General Body meeting held on 19th March 2024.

The Project Officer informed that the Minutes of the Second General Body meeting held on 19th March 2024 were circulated through e-mail and since no comments were received from any members, the minutes were confirmed by the General Body.

3.2   Item no 3.2: Follow up action on the decisions taken in the Second General Body meeting of the Society.

The Project Officer briefly explained the status update on 12A & 80G registration of the Society was still in process and the Chairman directed the Project Officer to follow-up with the concerned departments. The Member Secretary updated the General Body on the progress regarding the creation of the new post for the Society. He informed that the proposal had been accepted by the Administrative Reforms Department, Government of Goa, for post verification. He further informed that the Technical Officer from the Administrative Reforms Department had made certain observations and requested additional clarifications, which were promptly addressed and responded to by the Member Secretary.

However, out of the six proposed posts, only four were approved.
The approved posts are as follows:

1	**Project Officer** (Rs 5,200 – 20,200 + 2,400/- Pay Matrix level 4)	1 no
2	**Upper Division Clerk (UDC)** (Rs 5,200 – 20,200 + 2,400/- Pay Matrix level 4)	1 no
3	**Lower Division Clerk (LDC)** (Rs 5,200 – 20,200 + 1,900/- Pay Matrix level 2)	1 no
4	**Multi-Tasking Staff (MTS)** (Rs 5,200 – 20,200 + 1,800/- Pay Matrix level 1)	1 no

The Project Officer informed the General Body about the status of the Grant-In-Aid received by the Society. It was informed that the Society has received the following Grant-In-Aid orders:

Sr No	Date	Amount	Order No.
1	9/06/2022	Rs. 1,43,508/-	No: 3-191-2011/14-15/STE-DIR/GSInC/Part/221
2	5/08/2022	Rs. 20,00,000/-	No: 3-191-2011/14-15/STE-DIR/GSInC/Part/222
3	24/11/2022	Rs. 6,06,492/-	No: 3-191-2011/14-15/STE-DIR/GSInC/Part/223

It was further informed that an amount of ₹7,50,000/- (₹1,43,508/- + ₹6,06,492/-) had been received, while an amount of ₹20,00,000/- was still pending. The Member Secretary assured the General Body that efforts would be made to get the pending amount cleared soon.

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Society Registration No. 98/Goa/2023

3.3   Item No.3.3: Progress achieved for the year 2024-25

The Project Officer presented the General Body with an overview of the progress achieved, along with details of the events, initiatives, and programs previously conducted by the Society.

S.N	Initiatives for 2023-24	Proposed Events	Total Events	No. of Attendees
1	Bootcamps on Innovation, Creativity & Prototyping in Colleges	50	14	1022
2	Sensitisation Workshop on Innovation, Creativity & Prototyping in Schools	50	19	2120
3	Prototyping Workshops on Think, Design & Prototype	60	14	522
4	Faculty Development Program (FDP) on Innovation, Creativity & Prototyping	1		
5	Women Centric Workshop	3		
6	Panel Discussion on Industry Institute Interaction	2	1	75
7	Risk Capital Session on Venture Capital	2	1	90
8	INEX 2023 (13, 14 & 15 Nov 2024)	1		
9	IPR Sessions	5		
		174	**49**	**3829**

The Project Officer informed the General Body that the Society had organized a total of 49 programs and events, which successfully trained 3,829 participants. These participants included students from schools and colleges, research faculty, innovators, startups, and entrepreneurs, among others.

The Project Officer showcased the overall achievements of the Society:

1	Provisional Patents filled	17
2	Prototyping Grants supported	67
3	Projects Mentored	96
4	Workshops Conducted	608
5	Participants Trained	46,727
6	Workshops conducted in the Prototyping Lab	278
7	Participants Trained in the Prototyping Lab	9,952
8	VIR – New Users registered	1075
9	VIR – Startups registered	119

The Chairman and the members expressed their appreciation for the Society's accomplishments. The Chairman directed the Project Officer to ensure that the success stories of the projects and innovations supported by the Society are featured through various news and media channels to inform and engage the general public.

3.4   Item No.3.4: Annual Report 2023-24

Copies of the Annual Report 2023-24 were presented to the General Body. It was further informed that the report had been tabled on the floor of the Goa Legislative Assembly on 16th July 2024. The Chairman and the members acknowledged the Secretariat Staff of the Goa State Innovation Council for this significant achievement. The Chairman expressed his appreciation for the Society's consistent efforts and informed the General Body that he had given a press interview highlighting the Society's key accomplishments.

3.5   Item No.3.5: Chairman visit to Katowice, Poland

At the General Body meeting of the Goa State Innovation Council held on 19th March 2024, it was approved that the Chairman would attend the E-Innovate event as the Chief Guest from 14th to 18th May 2024 at Jagiellonian University Campus, Krakow, Poland. This decision was taken to enable the Chairman to explore possibilities of working closely with IBS Global, Poland. The Chairman informed the General Body that he had applied for a Polish Visa, which was granted for 6 days between 20th March 2024 and 9th April 2024. However, due to the visa timing, the Chairman could not attend the program. During his personal visit to Frankfurt, Germany, Mrs. Edyta Wolczyk, President of IBS Global, invited the Chairman to Poland to observe the work being carried out by IBS Global. Since the Goa State Innovation Council had already entered into an MOU with IBS Global, the Chairman expressed his desire to visit their organization and explore ways to further strengthen the association.

During this visit, it was reported that the Chairman met with the following delegates:

S.N	Name	Designation	Orgnisation
1	Mr. Jan Szczucki	President	EMAG-SERWIS
2	Mr. Zbigniew Szczucki	Technical and Development Director Commercial Proxy	EMAG-SERWIS
3	Mr. Marlena Miasko	Vice President, Deputy General Director	Chamber of Commerce and Industry in Katowice
4	Mr. Marzena Koczorek	International Relations Specialist	Chamber of Commerce and Industry in Katowice
5	Mrs. Krinal Shah Suri	Specialist for Asian Markets	Chamber of Commerce and Industry in Katowice

3.6   Item No.3.6: India International Innovation & Invention Expo (INEX) 2024

The proposal for the India International Innovation & Invention Expo (INEX) 2023 was presented, suggesting dates from 13th to 15th November 2024. It was proposed that the venue for INEX 2024 be the Don Bosco College of Engineering, Fatorda.

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Society Registration No. 98/Goa/2023

The General Body approved the following list of deliverables for the Goa State Innovation Council:

Sr. No.	List of deliverables
1	Dedicated Exhibition space for 150 innovators
2	Mementos for Guest at INEX 2024
3	Promotion in Media & Press releases
4	Goa heritage tour for International delegates in collaboration with Goa Tourism Development Corporation (GTDC)
5	Food arrangements and refreshments for international participants, delegates and organizing committee. Gala Dinner
6	Internet Connectivity & Power Supply Invitation to Schools & Colleges Special Invitee for INEX from GSInC

The General Body was informed that the INEX Higher Education Institutions (HEI) Award for Promoting and Incubating Innovators and Startups is scheduled to be held during INEX 2024, managed by IBS Global and the Indian Innovators Association. It was further decided that the letter to the Goa Tourism Development Corporation (GTDC) would be submitted through the Director, Department of Science, Technology, and Waste Management, Government of Goa. This communication aims to facilitate the arrangement of a Goa Heritage Tour for the international delegates, showcasing the rich cultural heritage and natural beauty of the region.

3.7   Item No.3.7: Any other Item with the permission of the Chair:
a.   The General Body proposed the creation of a platform to develop a database focused on innovation-based research from various organizations, including Goa University, CSIR-NIO, and others. The Chairman appointed a sub-committee comprising Dr. Krupashankar M.S., Principal of Goa Engineering College, and Dr. Neena Panandikar, Principal of Don Bosco College of Engineering, Fatorda, to present this proposal at the next meeting.

b.   The General Body proposed the establishment of an Augmented Reality (AR) and Virtual Reality (VR) Lab by the Society, aimed at providing students with the opportunity to learn and gain hands-on experience with these advanced technologies. After extensive discussions regarding the potential benefits and implementation strategies, the General Body approved the proposal. The Chairman subsequently directed the Project Officer to prepare a budget of ₹5 lakhs for the establishment of the lab, emphasizing the importance of equipping students with the skills needed to thrive in a technology-driven future. Furthermore, it was decided that the proposal would be submitted to the Government for approval.

The meeting concluded with Thanks to the Chair and all the members/participants.

3.3 4TH GENERAL BODY MEETING

Notice of Meeting

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa
Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in
www.goastateinnovationcouncil.com

Society Registration No. 98/Goa/2023

NOTICE

Notice is hereby given that the Fourth General Body meeting of the Goa State Innovation Council Society will be convened on Tuesday, 29th Oct 2024, from 10:00 a.m. at Ground Floor, Conference Room, Don Bosco College of Engineering, Fatorda, Goa.

Agenda

1. Minutes of the Third General Body Meeting held on 17/09/2024.
2. Matters arising from the Minutes.
3. Updates on India International Innovation & Invention Expo (INEX) 2024
4. Updates on Creation of the new post for the Society
5. Any other matter with the permission of the Chair.

Note:
Meeting shall be adjourned if no quorum is reached by 10:00 a.m. and shall commence at 10:15 a.m. treating those present as quorum.

For Goa State Innovation Council

(Ankit Yadav, IAS)
Director (S&T&WM) & Ex-Officio
Jt. Secretary to Government
Member Secretary (GSInC)

Date: 14/10/2024

Minutes of the Meeting

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa

Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in

www.goastateinnovationcouncil.com

Society Registration No. 98/Goa/2023

Ref: GSInC/2023-24/   29/09/2024

Minutes of the Fourth meeting of the General Body of the Goa State Innovation Council held on Tuesday, 29th October, 2024 at 10.00 am at the Don Bosco College of Engineering, Fatorda, Margao, Goa 403602 in hybrid mode.

The list of the members and other participants present in the meeting are mentioned below:

SHRI. CARMINHO JOSE MANUEL DO ROSARIO DE NORONHA Chairman, Goa State Innovation Council, Fatorda, Goa	Chairman
DR. VIVEK KAMAT Director, Directorate of Technical Education, Porvorim, Goa	Member
DR. SUMAN KUNDU Director, BITS Pilani K K Birla Goa Campus	Member – Present Online
DR. NEENA PANANDIKAR Principal, Don Bosco College of Engineering, Fatorda, Goa	Member
SMT BRENDA FERNANDES Member Secretary, Goa State Council for Science and Technology, Government of Goa, Saligao, Bardez - Goa	Member
SHRI. D. S. PRASHANT CEO, Startup and IT Promotion Cell, Govt. of Goa	Member
DR. SUNIL PAUL Assistant Professor, Indian Institute of Technology Goa, Farmagudi, Ponda, Goa	Member – Present Online
SHRI. SHREEDHAR BEVARA CEO, BMR Innovations, Vishakapatnam, Andhra Pradesh	Member – Present Online
SHRI. ANKIT YADAV, IAS Director, Department of Science and Technology & Waste Management, Government of Goa, Porvorim, Goa	Member Secretary

Chairman informed that he had invited Rev. Fr. Kinley D'Cruz, Director – Don Bosco College of Engineering, Fatorda for the meeting.

4.0 In the Opening remarks, Chairman formally welcomed the members of the General Body of the Society and the Invitees and stated that the quorum was established, and the meeting was properly constituted at 10:00 a.m. He, then directed the Project Officer, GSInC to take up the agenda items.

4.1 **Confirmation of the Minutes of the Third General Body meeting held on 17th September, 2024**.
The Project Officer informed that the Minutes of the Third General Body meeting held on 17th September, 2024 were circulated through e-mail and since no comments were received from any members, the minutes were confirmed by the General Body.

4.2 **Item no 4.2: Follow up action on the decisions taken in the Third General Body meeting of the Society.**
The Project Officer provided a brief update on the progress concerning the creation of the new post for the Society, stating that the proposal has been submitted for financial approval. The Member Secretary informed that consistent follow-up on the proposal is ongoing. The Chairman recommended submitting the file concurrently to the Law Department for approval of the relevant Rules and Regulations. He instructed the Project Officer to continue following up with the respective departments.

The Project Officer informed the General Body that the Utilisation Certificate for the first installment of ₹20,00,000/- had been submitted, along with a proposal for the second installment of ₹20,00,000/-. The Member Secretary assured that efforts were underway to expedite the release of the second installment.

During the third General Body meeting, a proposal was discussed to create a platform for developing a database focused on innovation-based research from various institutions, including Goa University, CSIR-NIO, and others. The Chairman appointed a sub-committee comprising Dr. Krupashankar M.S., Principal of Goa Engineering College, and Dr. Neena Panandikar, Principal of Don Bosco College of Engineering, Fatorda. The Chairman instructed the Project Officer to visit NIT Goa and Goa University to discuss the creation of this platform and nominated Dr. Krupashankar M.S. and Dr. Neena Panandikar to accompany the Project Officer during the visit. The General Body requested that a detailed report be presented at the next meeting.

4.3   Item No.4.3: India International Innovation & Invention Expo (INEX) 2024

The details of the India International Innovation & Invention Expo (INEX) 2024 were reviewed. The event is set to be held from 13th to 15th November 2024 at Don Bosco College of Engineering, Fatorda, with participation from 12 countries. The Project Officer reported that the press conference for the launch of the INEX brochure took place on 21st October 2024 at the same venue, receiving coverage from major newspapers, TV channels, and social media platforms. Additionally, the Project Officer noted that schools and colleges from North Goa have been invited for the event on 13th November, while those from South Goa are invited on 14th November. It is anticipated that INEX 2024 will attract around 3,000 attendees, including students, innovators, startups, faculty members, and industry professionals.

During the discussion, the General Body was informed that a heritage tour has been proposed for the afternoon of 15th November, with the itinerary planned by the Goa Tourism Development Corporation (GTDC). It was noted that 17 international and national delegates are expected to attend, and all related expenses will be covered by the GTDC. The Chairman recommended including nearby locations such as Shree Mangeshi Temple and the Spice Plantation in Ponda and directed the Project Officer to accompany the guests on this tour. The Chairman also instructed the Project Officer to contact the GTDC to request Goa Government's canvas bags containing maps and other state-related materials for distribution to the delegates. The Project Officer reported that nine applications had been received for the prestigious INEX Higher Education Institutions (HEI) Award for Promoting and Incubating Innovators and Startups at INEX 2024. The screening and shortlisting process is being managed by IBS Global and the Indian Innovators Association.

Additionally, the Chairman directed the Project Officer to procure around 10 traditional diva lamps as mementos for the delegates, within a budget of ₹1,500/- per lamp.

The General Body has approved a budget of ₹1,50,000/- for INEX 2024. The detailed breakdown is as follows:

Sr No	Heads of expenditure	Amount in INR
1	Organisation of The Event	0.25
2	Mementoes & Print materials	0.10
3	Promotional Expenses And Travelling	0.05
4	Food Expenses & Gala Dinner	1.00
5	Miscellaneous / Contingency	0.10
	TOTAL	**1.50**

Item No.4.3: Progress achieved for the year 2024-25

The Project Officer showcased the overall achievements of the Society:

1	Provisional Patents filled	17
2	Prototyping Grants supported	67
3	Projects Mentored	96
4	Workshops Conducted	619
5	Participants Trained	47,329
6	Workshops conducted in the Prototyping Lab	285
7	Participants Trained in the Prototyping Lab	10,315
8	VIR – New Users registered	1100
9	VIR – Startups registered	130

The Chairman and members expressed their appreciation for the Society's achievements upon reviewing the figures.

3.7 Item No.3.7: Any other Item with the permission of the Chair:

The Project Officer provided details of the scheme Goa Rajya Vidnyanik Puraskar (GRVP), an award initiated by the Government of Goa through the Department of Science & Technology & Waste Management (DST&WM). The GRVP aims to recognize and honor innovators and scientists whose implemented ideas have resulted in impactful innovations with global significance. The award includes three prizes of ₹2,00,000/- each, in the categories of Innovation, Environment, and Societal Impact.

The Chairman directed the General Body members to nominate individuals for the Technical Advisory Committee (TAC) to cover the following expertise domains:

- Chairman of the TAC
- Expert in Innovation
- Expert in Environment
- Expert in Societal Impact
- Project Officer (Member Convenor)

The TAC will be responsible for scrutinizing applications and shortlisting eligible candidates for presentation before the Expert Committee. The Chairman will appoint the members of the TAC. The Expert Committee will comprise a Chairman and two members nominated by the Government, who may be professionals, experts, or recipients of awards for notable achievements in Science, Technology, and Innovations.

It was decided that the proposal for the establishment of the Technical Advisory Committee (TAC) and the Expert Committee will be submitted to the government for approval through the Department of Science & Technology & Waste Management (DS&T&WM).

The meeting concluded with Thanks to the Chair and all the members/participants.

3.4 5TH GENERAL BODY MEETING

Notice of Meeting

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa
Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in
www.goastateinnovationcouncil.com

Goa State Innovation Council
Society Registration No. 98/Goa/2023

NOTICE

Notice is hereby given that the Fifth General Body meeting of the Goa State Innovation Council Society will be convened on **Friday, 17th Jan 2025**, from **10:00 a.m**. at **Ground Floor, Conference Room, Don Bosco College of Engineering, Fatorda, Goa**.

Agenda
1. Minutes of the Fourth General Body Meeting held on 29th Oct 2024.
2. Matters arising from the Minutes.
3. Updates on Creation of the new post for the Society
4. Proposal on New Scheme titled "Workspace Assistance for Innovators and Startups"
5. Any other matter with the permission of the Chair.

Note:
Meeting shall be adjourned if no quorum is reached by 10:00 a.m. and shall commence at 10:15 a.m. treating those present as quorum.

For Goa State Innovation Council

(Ankit Yadav, IAS)
Director (S&T&WM) & Ex-Officio
Jt. Secretary to Government
Member Secretary (GSInC)

Date: 06/01/2025

Minutes of the Meeting

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa
Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in
www.goastateinnovationcouncil.com

Society Registration No. 98/Goa/2023

Ref: GSInC/2023-24/
17/01/2025

Minutes of the Fifth meeting of the General Body of the Goa State Innovation Council held on Friday, 17th January, 2025 at 10.00 am at the Don Bosco College of Engineering, Fatorda, Margao, Goa 403602 in hybrid mode.

The list of the members and other participants present in the meeting are mentioned below:

SHRI. CARMINHO JOSE MANUEL DO ROSARIO DE NORONHA Chairman, Goa State Innovation Council, Fatorda, Goa	Chairman
SHRI BHUSHAN SAVOIKAR. Director, Directorate of Technical Education, Porvorim, Goa	Member – Present Online
DR. NEENA PANANDIKAR Principal, Don Bosco College of Engineering, Fatorda, Goa	Member
SMT BRENDA FERNANDES Member Secretary, Goa State Council for Science and Technology, Government of Goa, Saligao, Bardez - Goa	Member
SHRI. D. S. PRASHANT CEO, Startup and IT Promotion Cell, Govt. of Goa	Member
DR. KAUSTUBH PRIOLKAR Professor, Department Of Physics, Goa University	Member
SHRI. YASHVIT NAIK Co-Founder & Cto, Teknorix Systems	Member
SHRI. SHREEDHAR BEVARA CEO, BMR Innovations, Vishakapatnam, Andhra Pradesh	Member – Present Online
SHRI. ANKIT YADAV, IAS Director, Department of Science and Technology & Waste Management, Government of Goa, Porvorim, Goa	Member Secretary

Chairman informed that he had invited Rev. Fr. Kinley D'Cruz, Director – Don Bosco College of Engineering, Fatorda for the meeting.

5.0 In the Opening remarks, Chairman formally welcomed the members of the General Body of the Society and the Invitees and stated that the quorum was established, and the meeting was properly constituted at 10:00 a.m. He, then directed the Project Officer, GSInC to take up the agenda items.

5.1 Confirmation of the Minutes of the Fourth General Body meeting held on 29th October 2024.
The Project Officer informed that the Minutes of the Fourth General Body meeting held on 29th October 2024 were circulated through e-mail and since no comments were received from any members, the minutes were confirmed by the General Body.

5.2 Item no 5.2: Follow up action on the decisions taken in the Fourth General Body meeting of the Society.
The proposal to create a platform for developing a database focused on innovation-based research from various institutions, including Goa University, CSIR-NIO, and others, was discussed. The Chairman directed the Project Officer to follow up with the respective heads of these institutions and ensure that a detailed report is presented at the next meeting.

The Project Officer informed the General Body that the Utilisation Certificate for the first installment of ₹20,00,000 and ₹7,50,000 had been submitted. Additionally, the second installment of ₹20,00,000 as grant-in-aid was received on 13th January 2025. The proposal for the release of the second installment of ₹7,50,000 has been submitted. The Member Secretary assured that efforts were underway to expedite the release of the second installment.

5.3 Item no 5.3: Updates on Creation of the new post for the Society.

The Member Secretary provided an update to the General Body members regarding the progress on the creation of the new post for the Society. He informed them that the proposal for the reconsideration of the Program Manager Post has been approved by the ARD department, and the file will be submitted to the Personnel and Fiannce Department for the approval of the relevant rules and regulations. The Chairman directed the Project Officer to continue following up with the respective departments to ensure timely processing of the proposal.

5.4 Item no 5.4: Scheme for Workspace Assistance for Innovators and Startups.

The Project Officer presented the details of the scheme titled "Scheme for Workspace Assistance for Innovators and Startups". He explained that the scheme provides financial assistance of ₹5,000 per month per seat, with a maximum of one seat per applicant. The benefit can be availed for up to one year per applicant, and a total of 20 seats in co-working or incubation spaces will be subsidized each year under this initiative. Additionally, a Selection Committee comprising three members will be appointed by the Chairman of Goa State Innovation Council to shortlist the applications of the scheme. He further elaborated on the eligibility criteria, stating that the scheme is open to startups, innovators, research faculty, and scientists. Applicants must be working on hardware or software-based product innovations, with preference given to projects in sectors such as Green Technology, Industrially Utilizable Smart Materials, Waste Management, Healthcare, Renewable Energy Sources, Electric Vehicles, Smart Cities, Agri-tech, and ITES (Information Technology Enabled Services). Additionally, if the proposed project is associated with an industry or government entity, the applicant is required to submit a Letter of Intent (LOI) as part of their application. The General Body approved the formation of the scheme, and the Chairman directed the Project Officer to submit the proposal to the Director, Department Of Science, Technology & Waste Management for further action.

5.5 Item No.5.5: Progress achieved for the year 2024-25

The Project Officer showcased the overall achievements of the Society:

1	Provisional Patents filled	20
2	Prototyping Grants supported	72
3	Projects Mentored	106
4	Workshops Conducted	629
5	Participants Trained	47,778
6	Workshops conducted in the Prototyping Lab	290
7	Participants Trained in the Prototyping Lab	10,462
8	VIR – New Users registered	1140
9	VIR – Startups registered	135

The Chairman and members expressed their appreciation for the Society's achievements upon reviewing the figures.

The overall report of the various initiatives of the Goa State Innovation Council was presented in the following table:

SN	Initiatives	Sessions Panned	Sessions Conducted	Participants
1	Bootcamps in Colleges	20	18	1454
2	Sensitisation Workshops in Schools	50	23	2348
3	Faculty Development Program	1	-	-
4	Women Centric Workshops	3	-	-
5	Intellectual Property Rights Training	2	-	-
6	Industry Institute Interaction	2	1	75
7	Risk Capital Session	2	2	110
8	STEM – Think, Design & Prototyping Workshops	50	28	1050
9	INEX 2024	1	1	2000
10	Prototyping Lab Visitors 2023-24			428
	Projects Supported & Initiatives for 2024-25			
11	Prototyping Lab – Projects to Product Development from VIR			08
12	Scheme to encourage students for innovative projects			10
13	Goa Rajya Vidnyanik Puraskar	Feb 2025		
14	Goa's Young Innovator's Award	Mar 2025		

The Project Officer informed that the initiatives for the Goa Rajya Vidnyanik Puraskar were scheduled for February 2025, and the competition for Goa's Young Innovator's Award was set to take place in March 2025. The Chairman directed the Project Officer to ensure the completion of the planned sessions for 2024-25 by 31st March 2025.

5.6   Item No.5.6: Any other Item with the permission of the Chair:

The Project Officer informed the General Body that the committees for the Goa Rajya Vidnyanik Puraskar (GRVP) have been officially constituted and notified through the Department of Science, Technology & Waste Management. He further stated that the scheme will be publicized through local newspapers, invitations to education and research Institutes and social media platforms to ensure maximum outreach. The General Body noted the details of the scheme, and the Chairman emphasized the need for widespread publicity to effectively promote it.

The meeting concluded with Thanks to the Chair and all the members/participants.

PHOTOGRAPH 3.1: 5TH GENERAL BODY MEETING

PHOTOGRAPH 3.1: 5TH GENERAL BODY MEETING

CHAPTER 04

COMMITTEES AND SUB-COMMITTEES

CHAPTER 04

COMMITTEES AND SUB-COMMITTEES

4.1 INTRODUCTION

Innovation is the cornerstone of progress, and protecting innovative ideas is paramount. Recognizing the vital role intellectual property plays in fostering innovation, Goa State Innovation Council proudly presents its Provisional Patent Grant Scheme. This initiative is designed to empower innovators by providing them with a streamlined pathway to safeguard their groundbreaking ideas. Through this scheme, inventors gain the opportunity to secure provisional patents, laying a strong foundation for the protection of their intellectual property rights.

4.2 PROVISIONAL PATENT GRANT

MINUTES OF THE EIGHTH MEETING OF THE TECHNICAL ADVISORY COMMITTEE (TAC) – PROVISIONAL PATENT SCHEME, GOA STATE INNOVATION COUNCIL, HELD ON 21ST MARCH 2024.

Members present:

01	**MR. B S REVANKAR** Ex-Director, NITK – STEP, Surathkal, Karnataka	Chairman
02	**PROF SUNIL BHAND** Dean, Sponsored Research & Consulting, Professor of Chemistry BITS, Pilani - K.K. Birla, Goa	Member
03	**MR. ROVINO RODRIGUES** Business Head, Asia & Pacific Region, Integrated Liner Technologies, Inc.	Member
04	**MR. SUDIP FALDESAI** Project Officer, Goa State Innovation Council	Member - Secretary

Proceedings

1. In his opening remarks, the Chairman extended a formal welcome to the members of the Provisional Patent Scheme and commended the committee for its efforts in securing 17 provisional patents to date. He further mentioned that the quorum was met, and the meeting was officially convened at 10:00 a.m.

2. At the outset, the Chairman welcomed the members to the Meeting.

3. The Minutes of previous meeting were read and confirmed by the members.

4. During the presentations, it was observed that a total of five ideas were put forward for evaluation by the Technical Advisory Committee (TAC). These ideas were reviewed based on their originality, novelty, and potential impact. After careful deliberation, the committee decided to shortlist the ideas identified by their Unique Registration Numbers 350, 385, and 390, indicating that these submissions met the evaluation criteria and demonstrated promising potential for further development.

5. The idea with Unique Registration Number 376, however, received only provisional approval. The committee found it necessary for the innovator to provide a more detailed Novelty Statement. This document would clarify the uniqueness of the proposed concept, demonstrating how it stands out from existing inventions and the current state of the art. The committee requested the innovator to submit this statement to the Project Officer at the Goa State Innovation Council (GSInC). Once the Novelty Statement is reviewed and deemed satisfactory, the committee will make a final decision on whether to grant full approval for the provisional patent.

6. The fifth idea, with Unique Registration Number 388, was deferred to a future session for re-evaluation. During the review, the committee identified missing components, specifically the usefulness statement, novelty statement, and prior art patent search information. These elements are critical for assessing the value and distinctiveness of the proposed idea. The committee advised the innovator to address these gaps and present the revised submission in the next meeting, at which point it will be reconsidered for approval. The shortlisted ideas are included in Annexure I for reference.

7. The committee decided to schedule the next meeting in the first or second week of February 2025.

8. The meeting ended with Vote of Thanks by the Chairman.

Annexure I – List of Shortlisted Ideas

Sr No	Title	Unique ID	Name & Designation	Contact No.	Time
1	Muffler integrated axial inlet radial outlet turbine-generator assembly for power generator from engine exhaust	GSInC-I-000376	Avil	9657043438	10.30 am
2	Tag making machine	GSInC-I-000350	Tejas Barve	8080586846	10.45 am
3	Real time AI Based Voice Correction System for Cerebral Palsy	GSInC-I-000388	Ameen Muzawar	8390207664	11.00 am
4	Ai powered video cloning system	GSInC-I-000385	Khushi Kumari	7972016749	11.15 am
5	Design and development of device to mitigate ventilator shortages during Neonatal Resuscitation	GSInC-I-000390	SURAJ SURENDRA RANE	9890202390	11.30 am

4,3 STATUS REPORT: BENEFICIARY LIST- PROVISIONAL PATENT SCHEME

Sr No	Title	Unique ID	Name & Designation
1	Tag making machine	GSInC-I-000350	Tejas Barve
2	Ai powered video cloning system	GSInC-I-000385	Khushi Kumari
3	Design and development of device to mitigate ventilator shortages during Neonatal Resuscitation	GSInC-I-000390	Suraj Rane

PHOTOGRAPH 4.1: PROJECT PRESENTATIONS BEFORE THE TECHNICAL ADVISORY COMMITTEE (TAC) UNDER THE PROVISIONAL PATENT SCHEME, GOA STATE INNOVATION COUNCIL – 21ST MARCH 2024

PHOTOGRAPH 4.1: PROJECT PRESENTATIONS BEFORE THE TECHNICAL ADVISORY COMMITTEE (TAC) UNDER THE PROVISIONAL PATENT SCHEME, GOA STATE INNOVATION COUNCIL – 21ST MARCH 2024

4.4 SCHEME TO ENCOURAGE STUDENTS FOR INNOVATIVE PROJECTS

GOA STATE INNOVATION COUNCIL

Department of Science & Technology, Government of Goa

Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in

www.goastateinnovationcouncil.com

No. GSInC/2023-24/29

SEPT 08, 2023

NOTICE

Notice is hereby given that the First meeting of the Selection Committee for the scheme titled **"Encourage Students for Innovative Projects"** of the Goa State Innovation Council Society is convened on **Monday, 11th September 2023**, from **11:00 a.m.** through **online zoom meeting app.**

Zoom Meeting Link:
https://us06web.zoom.us/j/83986684545?pwd=TEVjOWM2bms5QVZSUFNQVTlIMXRKQT09
Meeting ID: 839 8668 4545
Passcode: 438698

Agenda

1. Introduction to the Encourage Students for Innovative Projects scheme.
2. To discuss and approve the interview dates of the Selection process.
3. Any other matter with the permission of the Chair.

For Goa State Innovation Council

Sudip Faldesai

Project Officer – Goa State Innovation Council
Member Secretary - Encourage Students for Innovative Projects Scheme

MINUTES OF THE MEETING FOR THE SECOND SELECTION COMMITTEE OF THE SCHEME TO ENCOURAGE INNOVATIVE STUDENT PROJECTS OF GOA STATE INNOVATION COUNCIL HELD ON 13TH DECEMBER 2024, FROM 10:00 A.M. AT FATORDA, GOA.

Members present:

01	**MR. B S REVANKAR** Ex-Director, NITK – STEP, Surathkal, Karnataka	Chairman
02	**DR. NARSINH THAKUR** Ph.D. Senior Principal Scientist, CSIR – NIO, Goa	Member
03	**MR. MAHESH MALKARNEKAR** Ex- Chief Engineer Operations, Goa Shipyard Ltd.,Goa	Member
04	**MR. SUDIP FALDESAI** Project Officer, Goa State Innovation Council, Goa	Member - Secretary

Proceedings

The Chairman welcomed the members of the Selection Committee for the Scheme to Encourage Students for Innovative Projects. The quorum was confirmed, and the meeting was declared properly constituted. The Notice and Agenda of the meeting were acknowledged as received by all members. The Chairman, Members, and Member Secretary signed the Attendance Register.

1. CONFIRMATION OF THE MINUTES OF THE FIRST SELECTION COMMITTEE MEETING

The Member Secretary informed the committee that the minutes of the First Selection Committee Meeting, held on 15th November 2023, had been circulated via email. As no comments or suggestions were received, the minutes were confirmed as accurate and were adopted by the committee.

2. FOLLOW UP ACTION ON THE DECISIONS TAKEN IN THE FIRST SELECTION COMMITTEE MEETING

The Member Secretary updated the committee on the follow-up actions from the Third General Body Meeting. A total of 15 project ideas were invited for interviews, of which 10 were shortlisted. These projects were subsequently granted financial support at their respective educational institutions. The Project Officer highlighted that some Utilization Certificates (UCs) for the granted projects were yet to be submitted. In response, the Chairman directed the Member Secretary to ensure follow-up on the pending UCs and allocated a maximum of 90 days for the submission of UCs for the newly shortlisted projects from the respective educational institutions.

3. PROJECTS SCHEDULED FOR INTERVIEW

The committee reviewed 13 student projects scheduled for selection interviews under the Scheme. The projects, identified by their Unique Registration Numbers (URN) and titles, are as follows:

Sr No	URN	Title
1	GSINC-I-000358	PORTABLE CATARACT DETECTION AND GRADING SYSTEM
2	GSINC-I-000419	EMOTION CRACKERS
3	GSINC-I-000447	DESIGN AND DEVELOPMENT OF DRONE CAPTURE NET DEPLOYMENT SYSTEM
4	GSINC-I-000439	STUDY ON BAMBOO FIBRE REINFORCED COMPOSITES FOR BALLISTIC APPLICATIONS
5	GSINC-I-000449	SOLAR POWER SYSTEM FOR CHARGING INVERTER BATTERIES USED IN RESIDENTIAL APPLICATION
6	GSINC-I-000425	DESIGN OF HIGH PERFORMANCE ANTENNA FOR 5G COMMUNICATION
7	GSINC-I-000401	DEVELOPMENT OF A BRAINWAVE-CONTROLLED WHEELCHAIR SYSTEM FOR ACUTE STROKE PATIENTS USING MOTOR IMAGERY AND ASSISTED DRIVING
8	GSINC-I-000430	DEVELOPING AN IMMERSIVE VIRTUAL REALITY FRAMEWORK FOR GOA TOURISM
9	GSINC-I-000399	IOT BASED SMART WATER BOTTLE WITH MEDICINE DISPENSING SYSTEM
10	GSINC-I-000421	FIRE DETECTION AND SUPPRESSION AUTONOMOUS LAND ROVER
11	GSINC-I-000418	EYE GAZE CONTROL MOUSE COMPUTER CURSOR
12	GSINC-I-000443	LUNG DISEASE CLASSIFICATION USING LUNG SOUND
13	GSINC-I-000438	AERIAL DIGITAL CANVAS

4. LIST OF PROJECTS SHORTLISTED FOR THE SCHEME

After evaluating the eligibility criteria, including Novelty, Usefulness, Scalability and Innovative Approach, the committee approved the following 10 projects:

Sr No	URN	Title
1	GSINC-I-000419	EMOTION CRACKERS
2	GSINC-I-000447	DESIGN AND DEVELOPMENT OF DRONE CAPTURE NET DEPLOYMENT SYSTEM
3	GSINC-I-000439	STUDY ON BAMBOO FIBRE REINFORCED COMPOSITES FOR BALLISTIC APPLICATIONS
4	GSINC-I-000425	DESIGN OF HIGH PERFORMANCE ANTENNA FOR 5G COMMUNICATION
5	GSINC-I-000401	DEVELOPMENT OF A BRAINWAVE-CONTROLLED WHEELCHAIR SYSTEM FOR ACUTE STROKE PATIENTS USING MOTOR IMAGERY AND ASSISTED DRIVING
6	GSINC-I-000430	DEVELOPING AN IMMERSIVE VIRTUAL REALITY FRAMEWORK FOR GOA TOURISM
7	GSINC-I-000399	IOT BASED SMART WATER BOTTLE WITH MEDICINE DISPENSING SYSTEM
8	GSINC-I-000418	EYE GAZE CONTROL MOUSE COMPUTER CURSOR
9	GSINC-I-000443	LUNG DISEASE CLASSIFICATION USING LUNG SOUND
10	GSINC-I-000438	AERIAL DIGITAL CANVAS

Projects with Unique Registration Numbers GSINC-I-000358 and GSINC-I-000421 were marked absent. The project with Unique Registration Numbers, GSINC-I-000449 was not shortlisted due to a lack of innovative approach and scalability.

The meeting ended with Vote of Thanks by the Chairman.

5. STATUS REPORT

After evaluating the eligibility criteria, including Novelty, Usefulness, Scalability and Innovative Approach, the committee approved the following 10 projects:

Sr No	URN	Title	Name	College
1	GSInC-I-000445	EMOTION CRACKERS	YASHADA SATHE	SHREE RAYESHWAR INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY
2	GSINC-I-000447	DESIGN AND DEVELOPMENT OF DRONE CAPTURE NET DEPLOYMENT SYSTEM	LYNDON FERNANDES	DON BOSCO COLLEGE OF ENGINEERING
3	GSINC-I-000439	STUDY ON BAMBOO FIBRE REINFORCED COMPOSITES FOR BALLISTIC APPLICATIONS	ARYA NAIK	DON BOSCO COLLEGE OF ENGINEERING
4	GSINC-I-000425	DESIGN OF HIGH PERFORMANCE ANTENNA FOR 5G COMMUNICATION	SIDDHARTH NAIK	GOA COLLEGE OF ENGINEERING
5	GSINC-I-000401	DEVELOPMENT OF A BRAINWAVE-CONTROLLED WHEELCHAIR SYSTEM FOR ACUTE STROKE PATIENTS USING MOTOR IMAGERY AND ASSISTED DRIVING	N YUVRAJ	NATIONAL INSTITUTE OF TECHNOLOGY, GOA
6	GSINC-I-000430	DEVELOPING AN IMMERSIVE VIRTUAL REALITY FRAMEWORK FOR GOA TOURISM	DIYA JOSHI	NATIONAL INSTITUTE OF TECHNOLOGY, GOA
7	GSINC-I-000399	IOT BASED SMART WATER BOTTLE WITH MEDICINE DISPENSING SYSTEM	G R SOWNDARYA	NATIONAL INSTITUTE OF TECHNOLOGY, GOA
8	GSINC-I-000418	EYE GAZE CONTROL MOUSE COMPUTER CURSOR	ABHIJEET SINGH	PADRE CONCEICAO COLLEGE OF ENGINEERING

Sr No	URN	Title	Name	College
9	GSINC-I-000443	LUNG DISEASE CLASSIFICATION USING LUNG SOUND	SHRINIVAS PATIL	SHREE RAYESHWAR INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY
10	GSINC-I-000438	AERIAL DIGITAL CANVAS	MURIEL JESAL FERNANDES	SHREE RAYESHWAR INSTITUTE OF ENGINEERING AND INFORMATION TECHNOLOGY

PHOTOGRAPH 4.2: STUDENT PROJECT PRESENTATIONS BEFORE THE SELECTION COMMITTEE − ENCOURAGE INNOVATIVE STUDENT PROJECT SCHEME

ATMANIRBHAR BHARAT
SWAYAMPURNA GOA

Government of Goa
Department of Science & Technology and Waste Management
1st Floor, Pandit Deendayal Upadhaya Bhavan,
Behind Pundalik Devasthan, Near Sanjay School,
Porvorim, Bardez Goa - 403 521
Phone Nos.: 0832-2416581 / 2416584
e-mail: dir-ste.goa@nic.in

No: 3-24-2022/S&T&WM/Part/ 1308   Date: 20 /02/2025

ORDER

Administrative approval and expenditure sanction of the Government is hereby conveyed towards release of financial assistance of Rs. 5,00,000/- (Rupees Five Lakhs Only) as detailed below to take up the innovative projects under the "Scheme to encourage Students for Innovative Projects" for the current financial year 2024-25.

Sr. No	Name of the Institution	Title of the Project	Amount
01	Shree Rayeshwar Institute of Engineering and Information Technology, Shivsail, Karai, Shiroda - Goa 403 103	Emotions Crackers: Speech Emotion Recognition System	Rs. 50,000.00
02	Don Bosco College of Engineering, Fatorda - Margao 403 602	Design and Development of Drone Capture Net Development System	Rs. 50,000.00
03	Don Bosco College of Engineering, Fatorda - Margao 403 602	Study on Bamboo Fibre Reinforced Composites for Ballistic Applications	Rs. 50,000.00
04	Goa College of Engineering, Farmagudi, Ponda - Goa 403 401	Design on High Performance Antenna for 5G Communications	Rs. 50,000.00
05	National Institute of Technology Goa, Cuncolim, South Goa District, Goa 403 703	Development of Brainwave Controlled Wheelchair System for Acute Stroke Patients using Motor Imagery and Assisted Driving	Rs. 50,000.00
06	National Institute of Technology Goa, Cuncolim, South Goa District, Goa 403 703	Developing an Immerse Virtual Reality Framework for Goa Tourism	Rs. 50,000.00
07	National Institute of Technology Goa, Cuncolim, South Goa District, Goa 403 703	IOT Based Smart Water Bottle with Medicine Dispensing System	Rs. 50,000.00
08	Padre Conceicao College of Engineering Agnel Ashram, Verna Goa 403 722	Eye Gaze Control Mouse Computer Cursor	Rs. 50,000.00
09	Shree Rayeshwar Institute of Engineering and Information Technology, Shivsail, Karai, Shiroda - Goa 403 103	Lung Disease Classification using Lung Sounds	Rs. 50,000.00
10	Shree Rayeshwar Institute of Engineering and Information Technology, Shivsail, Karai, Shiroda - Goa 403 103	Aerial Digital Canvas	Rs. 50,000.00
	Total		Rs. 5,00,000.00

Cont...2/-

-2-

The Expenditure on above shall be met from the funds available under Budget Head: 3425 - Other Scientific Research, 60 - Others, 800 - Other Expenditure, 07 - Encourage Students for Innovative Projects, 50 - Other Charges.

This has approval of Government vide U.O No. 23195/F Dated: 16/01/2025 and Concurrence of Finance (Exp.) Dept. vide U.O. No. 1400096705 dated 20/01/2025.

By order and in the name of the Governor of Goa.

(Shri. Ankit Yadav)
**Director (S&T) and Ex. Officio,
Jt. Secretary to Government**

To,

1. All the Concerned Institution.
2. Shri Sudip Faldesai, Project Officer, Goa State Innovation Council, Secretariat, Don Bosco College of Engineering, Fatorda, Margao – Goa 403 602..... *for information*

Copy to:
1. The Director, Directorate of Accounts, Panaji.
2. The Sr. Dy. Accountant Gen. (Audit), Alto-Porvorim.
3. The Under Secretary (Fin-Exp) Dept. Secretariat, Porvorim.
4. The Bill.
5. Guard file.
6. Order File
7. O/c

4.5 GOA RAJYA VIDNYANIK PURASKAR

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa
Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in
www.goastateinnovationcouncil.com

No. GSINC/2024-25/151   06/02/2025

Meeting Notice

Sub: **Goa Rajya Vidnyanik Puraskar** - Technical Advisory Committee &

Meeting Schedule

Dear Sir,

The meeting of the Technical Advisory Committee (TAC) of Goa Rajya Vidnyanik Puraskar (GRVP) is scheduled for **10th February 2025**, from **10:00 AM to 4:00 PM**, at **Don Bosco College of Engineering, Fatorda**. Further details regarding the number of applications and other relevant information will be shared through the WhatsApp group.

We look forward to your valuable participation.

Yours Sincerely,

Sudin Faldesai
Project Officer

Minutes of the meeting of the Technical Advisory Committee (TAC)

for the Goa Rajya Vidnyanik Puraskar (GRVP) scheme | Ref: GSINC/2024-25/151

Goa State Innovation Council
Society Registration No. 98/Goa/2023

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa
Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in
www.goastateinnovationcouncil.com

Ref: GSInC/2024-25/   10/02/2025

Minutes of the meeting of the Technical Advisory Committee (TAC) for the Goa Rajya Vidnyanik Puraskar (GRVP) scheme of the Goa State Innovation Council held on Monday, 10th February, 2025 at 10.00 am at the Don Bosco College of Engineering, Fatorda, Margao, Goa 403602.

The list of the TAC members present in the meeting are mentioned below:

SHRI. BS REVANKAR Ex-Director, CEDOK, STEP-NITK Surathkal	Chairman
DR. SUJEET DONGRE Scientist "E", Centre for Environment Education	Member – Subject Expert (Science)
PROF. SUNIL BHAND Professor, Department of Chemistry BITS Pilani K.K. Birla Goa	Member – Subject Expert (Technology)
MR. AMARSH CHATURVEDI CTO and Head of Engineering, Transerve, Goa	Member – Subject Expert (Innovation)
SHRI. SUDIP FALDESAI Project Officer, Goa State Innovation Council	Member Convener

1.0 In the Opening remarks, Chairman formally welcomed the members of the TAC and stated that the quorum was established, and the meeting was properly constituted at 10:00 a.m. He then invited the Member Convener to present the applications.

1.1 **List of Applications**.

The Member Convener informed the committee that a total of 27 applications had been received through the online submission link for the GRVP scheme. The call for applications was announced on 22nd January 2025 through local newspapers and social media platforms. The deadline for submission was 7th February 2025. The list of received applications is as follows:

1	GSInC-001675
2	GSInC-001735
3	GSInC-002123
4	GSInC-002150
5	GSInC-002297
6	GSInC-002321
7	GSInC-002322
8	GSInC-002324
9	GSInC-002326
10	GSInC-002327
11	GSInC-002333
12	GSInC-002334
13	GSInC-002336
14	GSInC-002339
15	GSInC-002344
16	GSInC-002348
17	GSInC-002350
18	GSInC-002352

53

19	GSInC-002358
20	GSInC-002361
21	GSInC-002374
22	GSInC-002378
23	GSInC-002381
24	GSInC-002384
25	GSInC-002385
26	GSInC-002387
27	GSInC-002390

1.2 Shortlisted Applications for the Expert Committee

The TAC reviewed the submissions and concluded that the following applications are eligible for presentation to the Expert Committee of the GRVP:

Sr No.	Application ID	Remarks
1	GSInC-001675	Approved
2	GSInC-002123	Approved
3	GSInC-002321	Approved
4	GSInC-002322	Approved
5	GSInC-002324	Approved
6	GSInC-002326	Additional Documents required
7	GSInC-002327	Approved
8	GSInC-002333	Approved
9	GSInC-002334	Approved
10	GSInC-002336	Approved
11	GSInC-002339	Approved
12	GSInC-002344	Approved
13	GSInC-002348	Additional Documents required
14	GSInC-002352	Approved
15	GSInC-002361	Additional Documents required
16	GSInC-002374	Additional Documents required
17	GSInC-002381	Approved
18	GSInC-002384	Additional Documents required
19	GSInC-002385	Additional Documents required
20	GSInC-002390	Approved

The TAC instructed the Member Convener to reach out to the applicants whose submissions were found to have missing documents. These applicants will be given time until 5:00 PM on 13th February to submit the required documents and remain eligible for presentation to the Expert Committee. Additionally, applicants with ID numbers GSInC-002326 must be advised to provide one additional recommendation letter apart from the one previously submitted.

However, the applications with ID numbers GSINC-001735, GSINC-002150, GSINC-002297, GSINC-002350, GSINC-002358, GSINC-002378 and GSINC-002387 were identified as having incomplete documentation.

The meeting concluded with Thanks to the Chair and all the members/participants.

Chairman
TAC- Goa Rajya Vidnyanik Puraskar

GOA STATE INNOVATION COUNCIL

Department of Science & Technology, Government of Goa

Secretariat

Don Bosco College of Engineering, Fatorda,

Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in

www.goastateinnovationcouncil.com

No. GSInC/2024-25/150

6/02/2025

Meeting Notice

Sub: **Goa Rajya Vidnyanik Puraskar** - Constitution of Expert Committee (EC) & Meeting Schedule

Dear Sir,

The Government of Goa is pleased to constitute an **Expert Committee (EC)** under the scheme **"Goa Rajya Vidnyanik Puraskar" (GRVP)**, as notified vide **Notification No: 3-21-2022/S&T&WM/913 dated 17/11/2022**. The committee comprises the following members:

Dr. Satish Shetye – Chairman

Mr. Pranay Gupta – Member

Dr. Sampatrao Dagu Manjare – Member

The **EC meeting is scheduled for 20th February 2025, from 10:00 AM**, at **Don Bosco College of Engineering, Fatorda.**

Further details regarding the number of applications and other relevant information will be shared.

Yours Sincerely,

Sudip Faldesai

Project Officer

Minutes of the meeting of the Expert Committee (EC) for
the Goa Rajya Vidnyanik Puraskar (GRVP) scheme | Ref: GSINC/2024-25/150

GOA STATE INNOVATION COUNCIL
Department of Science & Technology, Government of Goa
Secretariat
Don Bosco College of Engineering, Fatorda,
Margao, Goa - 403602 | (O) 0832 274 3944 | (E) admin@gsic.in
www.goastateinnovationcouncil.com

Society Registration No. 98/Goa/2023

Ref: GSInC/2024-25/   17/02/2025

Minutes of the meeting of the Expert Committee (EC) for the Goa Rajya Vidnyanik Puraskar (GRVP) scheme of the Goa State Innovation Council held on Thursday, 20th February, 2025 at 10.00 am at the Don Bosco College of Engineering, Fatorda, Margao, Goa 403602.

The list of the EC members present in the meeting are mentioned below:

DR. SATISH R. SHETYE Former Vice-Chancellor, Goa University and Former Director, National Institute of Oceanography, Dona Paula - Goa	Chairman
MR. PRANAV GUPTA Founder, 91ventures	Member
DR. SAMPATRAO DAGU MANJARE Department of Chemical Engineering, Bits Pilani K K Birla Goa Campus	Member

1.0 The Chairman formally welcomed the members of the EC and confirmed that the quorum was established, ensuring the meeting was duly constituted at 10:00 AM. He then invited the applicants, shortlisted by the Technical Advisory Committee (TAC), to begin their presentations.

2.0 Presentation Schedule
A total of 20 applications were shortlisted by the Technical Advisory Committee (TAC) and invited to present as per the following schedule:

Sr No	Unique ID	Time Slot
1	GSInC-001675	10:00 am - 10:15 am
2	GSInC-002390	10:15 am - 10:30 am
3	GSInC-002123	10:30 am - 10:45 am
4	GSInC-002321	10:45 am - 11:00 am
5	GSInC-002322	11:00 am - 11:15 am
6	GSInC-002324	11:15 am - 11:30 am
7	GSInC-002327	11:30 am - 11:45 am
8	GSInC-002333	11:45 am - 12:00 pm
9	GSInC-002336	12:00 pm - 12:15 pm
10	GSInC-002339	12:15 pm - 12:30 pm
11	GSInC-002344	12:30 pm - 12:45 pm
12	GSInC-002348	12:45 pm - 1:00 pm
13	GSInC-002352	2:00 pm - 2:15 pm
14	GSInC-002374	2:15 pm - 2:30 pm
15	GSInC-002381	2:30 pm - 2:45 pm
16	GSInC-002385	2:45 pm - 3:00 pm
17	GSInC-002334	3:00 pm - 3:15 pm
18	GSInC-002326	3:15 pm - 3:30 pm
19	GSInC-002361	3:30 pm - 3:45 pm
20	GSInC-002384	3:45 pm - 4:00 pm

3.0   Shortlisted Applications for GRVP Scheme

After detailed presentation by each of the applicants and its evaluation by the EC, the following applications were shortlisted as the most suitable for the Goa Rajya Vidnyanik Puraskar (GRVP) Scheme:

Sr No.	Unique ID	Awardees	Category
1	GSInC-002336	Dr. Neha Karanjkar	Innovation
2	GSInC-002339	Dr. Amrita Sandeep Naik	Societal Impact
3	GSInC-002361	Dr. Srikanth Mutnuri	Environment

The meeting concluded with a vote of thanks to the Chair.

STATUS REPORT:

The Goa Rajya Vidnyanik Puraskar (GRVP) 2024–25 was conferred by the Hon'ble Minister for Science & Technology, Shri Atanasio Monserrate, in the esteemed presence of Shri Jose Manuel Noronha, Chairman of the Goa State Innovation Council (GSInC), and Shri Ankit Yadav, IAS, Director, Department of Science, Technology & Waste Management (DST&WM).

4.3 DR. NEHA KARANJKAR WAS CONFERRED THE GOA RAJYA VIDNYANIK PURASKAR (GRVP) 2024–25 UNDER THE INNOVATION CATEGORY

PHOTOGRAPH 4.4: DR. AMRITA SANDEEP NAIK WAS CONFERRED THE GOA RAJYA VIDNYANIK PURASKAR (GRVP) 2024–25 UNDER THE SOCIETAL IMPACT CATEGORY

PHOTOGRAPH 4.5: DR. SRIKANTH MUTNURI WAS CONFERRED THE GOA RAJYA VIDNYANIK PURASKAR (GRVP) 2024–25 UNDER THE ENVIRONMENT CATEGORY

CHAPTER 05
VIRTUAL INNOVATION REGISTER (VIR)

CHAPTER 05
VIRTUAL INNOVATION REGISTER (VIR)

5.1 INTRODUCTION

Great ideas are the foundation of transformative change, and at the Goa State Innovation Council (GSInC), we believe that every idea deserves a platform to thrive. The Virtual Innovation Register (VIR), an initiative by the Goa State Innovation Council (GSInC), serves as a dynamic repository of groundbreaking ideas, pioneering solutions, and transformative ventures. Thus, VIR is an innovative digital hub designed to document, safeguard, and propel pioneering ideas towards real-world impact.

In today's fast-evolving landscape, where disruptive technologies and novel solutions redefine industries, the need for a centralized, accessible, and future-ready platform has never been more critical.

Designed to bridge the gap between vision and validation, VIR provides a structured framework for entrepreneurs, researchers, and problem-solvers to document, refine, and showcase their innovations to the world.

As a dynamic and inclusive platform, VIR provides innovators across all sectors and developmental stages with the tools and visibility they need to refine their concepts, connect with industry experts, and explore commercial viability. Through its user-friendly interface, aspiring entrepreneurs and researchers can effortlessly register their innovations, gain critical validation, and access mentorship from seasoned professionals. This structured approach ensures that great ideas don't just remain ideas—they evolve into tangible, market-ready solutions.

Far from a simple registry, VIR is an ecosystem enabler—a space where aspiring innovators gain visibility, credibility, and access to potential investors, industry mentors, and funding opportunities. By systematically curating and cataloging innovations across sectors, VIR fosters collaborations, accelerates commercialization, and strengthens Goa's position as a hotbed of inventive excellence. Whether it's a startup looking for its first break, a researcher seeking collaboration, or an entrepreneur exploring funding opportunities, the platform serves as a gateway to resources, networks, and strategic insights that fuel innovation-led growth.

At GSInC, we recognize that innovation flourishes in an environment where ideas are not just conceived but also protected, refined, and scaled. VIR serves this very purpose—documenting intellectual capital, facilitating knowledge exchange, and ensuring that every promising idea receives the attention it deserves. As we move towards an era defined by digital transformation, sustainability, and technological breakthroughs, VIR stands as a testament to our unwavering commitment to empowering innovators and shaping a future driven by ingenuity.

By fostering an ecosystem where creativity meets opportunity, GSInC continues to champion Goa's transition into a thriving hub of entrepreneurship and technological advancement. The Virtual Innovation Register isn't just a digital repository—it's a launchpad for those who dare to think differently, create fearlessly, and build a future shaped by innovation.

How VIR Empowers Innovators & Startups
- Intellectual Property Safeguarding: Registering with the Virtual Innovation Register (VIR) grants innovators and startups a formal record of their original ideas, offering protection under the Intellectual Property Rights (IPR) Act.
- Expert-Led Validation: Every idea submitted to VIR undergoes a thorough assessment by industry specialists, ensuring that it meets key parameters such as cost-effectiveness, market feasibility, and scalability.
- Seamless Digital Access: Entrepreneurs can effortlessly register their innovations online via VIR, eliminating the need for physical visits and enabling a more accessible, streamlined process.
- Tailored Innovation Categories: VIR allows users to classify their submissions under two distinct categories—New Ideas for budding concepts and Startups for ventures that have already taken shape.

Benefits of Enlisting New Ideas under VIR:
- Safeguard your intellectual property rights through robust protection measures
- Receive support and guidance in commercializing your innovative concepts
- Showcase your ideas to potential buyers through effective pitching opportunities

Advantages of Enrolling Your Start-up with VIR:
- Collaborative partnerships with mentors and seasoned experts
- Receive assistance in securing funding opportunities for your venture
- Gain access to valuable resources and support, including support for incubation and finding co-founders, among others

Ever since it was established in the year 2018, the Venture Innovation Resource (VIR) has made a substantial contribution to fostering innovation and entrepreneurship within the state of Goa, while simultaneously enhancing the startup ecosystem of the state. A total of 1550 innovative ideas and 100 startups are currently registered on the Venture Innovation Registry (VIR).

5.2 SCHEME FOR PATENT FILING UNDER VIRTUAL INNOVATION REGISTER

GOA STATE INNOVATION COUNCIL,
GOVERNMENT OF GOA

SCHEME FOR PATENT FILING UNDER VIRTUAL INNOVATION REGISTER
(VIR)

INTRODUCTION:

Intellectual Property Rights (IPRs) are emerging as a strategic business tool for any Innovators organization to enhance industrial competitiveness.

Innovators, with limited resources and manpower, can sustain in this highly competitive world only through continuous growth and development oriented innovations; for this, it is equally crucial that they protect their IPRs.

The scheme aims to promote awareness and adoption of Intellectual Property Rights amongst the students and innovtaors. Scheme is inclined to nurture and mentor innovative and emerging technologies among Students and assist them in protecting and commercialize it by providing them access to highquality IP services and resources.

OBJECTIVES:

The objectives of the Policy are as follows, namely:

1. to promote academic freedom and safeguard in creation of intellectual property

2. to provide a comprehensive single window reference system for all intellectual property rights issues relating to intellectual property generated during academic studies;

3. to safeguard the interest of creator of intellectual property and provide fair distribution of returns accruing from the commercialisation of IPR;

4. to provide legal support, wherever necessary, to defend and protect the intellectual property rights obtained by the Institute against any infringement/ unauthorised use;

5. to create an environment for acquiring new knowledge through innovation and research, compatible with the educational mission of the Institute

ABOUT VIRTUAL INNOVATION REGISTER:

The Virtual Innovation Register (VIR) is a unique initiative of the Goa State Innovation Council to nurture potential ideas and innovation to its highest potential. In line with the ethos of Digital India, the VIR is an online platform where innovators and entrepreneurs can register their ideas virtually and source the required support to achieve the expected results. VIR also functions as an innovation step where young innovators will display prototypes and directly talk to prospective buyers.

Following are the benefits of VIR:

1. Safeguarding unique innovations and ideas

2. Validation of idea and support from experts

3. Hassle-free digital registration from the comfort of home or office

4. Incentives amounting to Rs 10,000/- paid to the patent Attorney or Patent Agent from the list of empaneled Patent Attorneys/Agents for filing patent application on behalf of Applicant.

EMPANELMENT OF PATENT AGENTS/ FIRMS FOR FILING PATENTS UNDER VIR:

The Committee duly appointed by the office bearers of the Goa State Innovation Council for Selection of Patent Agents/ Firms scheduled the interviews on 11th Jan 2019 and the committee finalised the following Individuals/ Firm based on the needs of the Goa State Innovation Council:

1. Mrs. Shalini Menezes, order no DBCE/GSInC/2018-19/56

2. Adastra IP Pvt Ltd, represented by Mr Sandeep Agarwal, order no DBCE/GSInC/2018-19/55

3. Lawmate.in represented by Ms. Gautami Raiker, order no DBCE/GSInC/2018-19/54

4. Jackfruit Software and Systems Pvt Ltd represented by Mrs. Supriya   Ravindra, order no DBCE/GSInC/2018-19/53

An applicant under this Scheme **shall be eligible for a support of upto Rs. 10,000 for filing provisional patent application** through the aforesaid patent agents/ firms. The said fee will be paid directly to the appointed firm for filing the application.

PROCEDURE FOR APPLYING UNDER THE SCHEME:

Below mentioned is the procedure for applying under the Virtual Innovation Register (VIR):

1. An individual or a registered entity (Partnership/ Limited Liability Partnership/ Private Limited Company) shall submit an application through the portal:

   http://goastateinnovationcouncil.com/virtual-innovation-register

2. An Innovative shall be from the following sectors which are not absolute but include:

   a. Agri-tech

   b. Digital media

   c. Health care tech

   d. Manufacturing

   e. ITES

3. It is mandatory for the applicant to apply under the aforesaid mentioned portal to claim benefits under the Virtual Innovation Register.

SELECTION COMMITTEE FOR SANCTIONING PROJECTS UNDER VIR FOR PROVISIONAL PATENT FILING:

1. The Goa State Innovation Council shall hold meetings for once in three months basis to approve projects for filing provisional patent application.

2. Following is the committee for sanctioning the proposals:

   - **MR. B. S. REVANKAR**
     - Ex-Director, CEDOK, STEP-NITK Surathkal …………….. Chairman

   - **PROF SUNIL BHAND,**
     - Dean, Sponsored Research & Consulting, Professor, BITS, Pilani, Goa... Member

   - **MR. ROVINO RODRIGUES**
     - Business Head, Asia & Pacific Region, Integrated Liner Technologies, Inc .... Member

   - **PROJECT OFFICER**
     - Goa State Innovation Council ……………….. Member Secretary

3. The intimation of decision shall be made to the applicants through email within 30 number of days from the date of meeting.

4. All decisions regarding selection shall be final and binding.

Tenure of the Selection Committee:

The members are appointed for period of three years with effect from 1st Nov 2023.

<div align="center">*************</div>

5.3 SCHEME TO ENCOURAGE STUDENTS FOR INNOVATIVE PROJECTS

Government of Goa
Department of Science and Technology and Waste Management
1st Floor, Pandit Deendayal Upadhay Bhavan,
Behind Pundalik Devasthan, Near Sanjay School,
Porvorim, Bardez Goa
Phone Nos.: 0832-2416581 / 2416584
e-mail: dir-ste.goa@nic.in

No. 3-24-2022/S&T&WM/   Dated: /09/2022

NOTIFICATION

SCHEME TO ENCOURAGE STUDENTS FOR INNOVATIVE PROJECTS

Government of Goa is pleased to frame a scheme for the students having innovative ideas with a vision to transform them into scalable projects are truly the main driving force behind the formation of this scheme providing rapid economic growth, increased productivity, social transformation as it also helps in reshaping and redefining almost every aspect of our lives and environment.

1. ***Introduction***

The Government of Goa in view to encourage students in the State of Goa, who are having technological innovative ideas, which they want to translate into working prototype, introduced above scheme, under which financial support will be provided to deserving students on need cum merit basis. Government of Goa through Department of Science and Technology and Waste Management (DS&T&WM) will encourage students who require necessary financial support, in converting their innovative ideas into projects.

2. ***Short title and commencement:-***

(i) *This scheme may be called as "Scheme to encourage students for Innovation Projects" Herein after called as the Scheme.*

(ii) The Scheme shall come into force from the date of notifying the same in the Official Gazette of Government of Goa and will remain in force for 3 years.

(iii) The Scheme shall be implemented through the Goa State Innovation Council (GSInC).

3. Objectives of the Scheme :-

(i) The scheme is primarily formulated with the objective to support/encourage and finance students having technology based innovative ideas which they wish to translate into working prototypes.

(ii) The scheme aims to encourage student innovators, to achieve new heights in sustainable technologies, by providing financial support for prototyping their project innovative ideas.

4. Scope of the Scheme:-

Scope of the Scheme is to provide financial support to only 10 students projects in a financial year, subject to provision in the annual budget of Department of S&T&WM.

5. Quantum of Financial Support:-

(i) An applicant under this Scheme shall be eligible for a financial support of up to Rs. 50,000/-

(ii) A maximum of 10 projects will be supported through this scheme each financial year. An Applicant/student will be eligible for the financial support only once.

(iii) The amount shall be deposited in the beneficiary institute's bank account, directly on submission of the pre-receipt for the said amount by the institution, to the Director, Department of Science and Technology and Waste Management.

6. Eligiblity Criteria:-

(i) Students from Educational Institutes from the State of Goa may apply under this scheme.

(ii) The Applicant may be a final year student or a group of students working on a college project or a High School or Higher Secondary School student working on a

school project participating either in State or National level competitions.

(iii) The project should relate to hardware or software-based product/process innovation.

(iv) The proposals, preferably in the following focus sectors shall be encouraged: Green technology, Clean energy, Industrially utilizable smart materials, Waste to Wealth, Affordable Healthcare, Water & Sewage Management,Renewable Energy sources, Electric Vehicles, Smart Cities, Agri-tech, Meditech, Health care tech and Digital media, ITES.

(v) The proposed innovative idea/ project in the form of a product/solution must be associated either with Academics, Industry or the Government.

(vi) The applicant shall be required to provide a letter of intent (LOI) in case the proposed idea/project is associated with the Industry or the Government.

(vii) The applicant must be working on a hardware or software-based Product/Process Innovation.

(viii) The applicant must be registered under the Virtual Innovation Register (VIR) as a New Idea.

7. *The Financial Assistance shall be permitted to be Utilized only for the following purpose:-*

Student Academic Projects: Students applying through Educational Institutions will be permitted to use the financial support for only academic projects.

8. *Pattern of Assistance of the Scheme:-*

(i) The financial assistance shall be disbursed as single installment to the concerned institute whose project is approved by the duly constituted Selection Committee under the Scheme.

(ii) Copies of bills/invoices generated after purchasing materials and tools for building the project must be maintained and submitted to GSInC.

(iii)   The entire amount of the financial assistance approved and released should be utilized before 31stMarch in the subsequent financial year and should be used only for the purpose for which it is released.

(iv)   The applicant/students should avail of this Scheme only once.

9. *Procedure for applying under the scheme*:

(i) Project proposal in prescribed format (PROFORMA – I & PROFORMA – II) is required to be submitted online to Goa State Innovation Council (GSInC).

(ii) The applicant is required to submit an online Application Form which is available on:**http://goastateinnovationcouncil.com/**under the Virtual Innovation Register (VIR) and sign up as a New Idea.

(iii) It is mandatory for the applicant to apply under the afore-mentioned portal to claim benefits under the Scheme.

10. *Selection Committee:*

(i) The Selection Committee under the scheme shall consist of three Members who will be appointed by the Chairman of the Goa State Innovation Council.

(ii) The above Selection Committee shall hold periodic meetings to scrutinize examine and approve innovative student projects**.**

(iii) The intimation of decision of the Committee shall be sent to the applicants via email within 14 numbers of working days from the date of such meeting/decision.

(iv) The decisions of the Selection Committee regarding selection of the project /applicant shall be final and binding.

(v)   GSInC should forward to Department of S&T&WM the decision of the Selection Committee in selecting the projects/Applications, duly approved by the Chairman of the Goa state Innovation Council, for further process to release financial assistance to selected applicants/beneficiaries.

11. The Government reserves the right to modify the quantum of financial support as well as number of projects, depending upon the budgetary provision. Government also reserves right to modify any or all the conditions or hold in abeyance or suspend or cancel the Scheme at any

point of time and no claim or appeal or challenge shall lie with any authority or tribunal or court in respect of this decision of the Government.

12. *Relaxation of the provisions of the scheme:-*

The Government shall be empowered to relax any or all of the clauses or   conditions of this scheme in deserving cases.

13. *Interpretation of the provisions of this scheme:-*

If any question arises regarding interpretation of any clause, word, expression of the scheme, the decision about the interpretation shall lie with the Government, which shall be final and binding on all concerned.

14. *Redressal of grievances and dispute:-*

Grievances or disputes, if any, arising out of implementation of this scheme, shall be referred to the Secretary (S&T&WM) who shall hear and decide such matters and his decision in this regard shall be final and binding on all concerned.

Provided no grievance or dispute regarding the decision of the Government shall lie with any authority or tribunal or court.

15. This issues with the concurrence of the Finance (Exp.) Department vide their U.O.No. 1400087835 dated 05/08/2022 and administrative approval of the Government under U.O. No. 199/F dated 06/05/2022.

By order and in the name
of the Governor of Goa

(Levinson J. Martins)
Director (S&T&WM) & ex-officio,
Jt. Secretary to Government

To,
The Director,
Department of Printing and Stationary,
Panaji Goa. ……with a request to kindly publish the above notification in next issue of Official Gazette.

PROFORMA - I

PROFORMA TO PROVIDE FINANCIAL SUPPORT UNDER THE SCHEME TO ENCOURAGE STUDENTS FOR INNOVATIVE PROPJECTS.

Sr. No.	Particulars	Remarks
1.	Proposed Title of the Project	
2.	Name of the Institution and address	
3.	Name of students Applicants/ Group of Applicants who are proposing to undertake the innovative project with Contact Numbers & Email IDs	
4.	Name of Project Guide/Mentor under whose guidance the innovative project will be carried out with Contact Numbers & Email IDs	
5.	Time duration of the Project (in months)	
6.	Whether financial support has been sought from any other organization / Government Department and has been provided for the project,(YES/ NO)	
	If Yes, mention the details	
7.	Total Break Up of Details of the funding requirement to be provided in the Annexure	
8.	Whether any publication/patent of the Project is proposed, (YES/ NO)	
	If Yes,mention the details	
9.	The details Project Proposal Should be submitted in Proforma II	
10.	Whether access to Prototyping Lab required? (YES/ NO)	
	If Yes,mention the details	
11.	Any other details	

(Signature of the Student Applicant / Group of Applicants)

(Signature of the Project Guide / Mentor)

Counter signature of Head of the Institution
with Seal and Stamp

Annexure

TOTAL BREAK UP OF DETAILS OF THE FUNDING REQUIREMENT TO BE PROVIDED
(UPTO RS 50,000/-)

Sr. No.	Material	Budget (in INR)
1	List of Consumables / equipment / parts/ accessories etc.	
2	Other costs (Contingencies)	
3	Total Costs (Rs)	

   i.   Detailed Project Proposal to be submitted in FORM II.
  ii.   All Quotations and Bills of Materials (BoM)to be submitted in original to
          "**Secretariat, Goa State Innovation Council**", C/o Don Bosco college of
          Engineering, Fatorda, Goa.

(Signature of the Students Applicant / Group of Applicants)

(Signature of the Project Guide / Mentor)

Counter signature of Head of the Institution
with Seal and Stamp

PROFORMA II

PROFORMA FOR A PROJECT PROPOSAL UNDER SCHEME TO ENCOURAGE STUDENST FOR INNOVATIVE PROJECTS.

Sr. No.	Particulars	Remarks
1.	Proposed Title of the Project	
2.	Name of the Institution and address	
3.	Name of Student Applicant/ Group of Applicants who are proposing to undertake the Innovative project	
4.	Name of Project Guide/Mentor under whose guidance the prototyping project will be carried out	
5.	Project summary Attach all the Diagrams, Blueprints, Designs, Flowcharts, etc	
6.	Objectives of the Research Project	
7.	Novelty, Usefulness & Innovative Approach of the proposed project	
8.	Potential to file patent? (Yes/No)	

(Signature of the Students Applicant / Group of Applicants)

(Signature of the Project Guide / Mentor)

Counter signature of Head of the Institution
with Seal and Stamp

5.4 SCHEME FOR GOA RAJYA VIDNYANIK PURASKAR (GRVP)

Government of Goa
Department of Science and Technology and Waste Management
1st Floor, Pandit Deendayal Upadhay Bhavan,
Behind Pundalik Devasthan, Near Sanjay School,
Porvorim, Bardez Goa
Phone Nos.: 0832-2416581 / 2416584
e-mail: dir-ste.goa@nic.in

No. 3-21-2022/S&T&WM/913   Dated: 14/11/2022

NOTIFICATION

SCHEME FOR GOA RAJYA VIDNYANIK PURASKAR (GRVP)

The Government of Goa is pleased to formulate a scheme to introduce an award to be given to Goan Innovators/ Scientists who have implemented their ideas to innovations and also achieved the excellence in the field of Science and Technology and Innovation.

1. *Introduction*

Goa Rajya Vidnyanik Puraskar (GRVP) is an award introduced by the Government of Goa through the Department of Science & Technology & Waste Management (DS&T&WM). It is an award to encourage, identify and recognize Innovators/Scientist who have implemented their Ideas to Innovations that are changing the life of the world. The GRVP will be awarded each year to Innovators/Scientists who develop their Ideas into a Product or Process that has been adopted or has high probability of being adopted in the State of Goa.

2. *Short title and commencement:-*

(i) *This scheme may be called as "Scheme for Goa Rajya Vidnyanik Puraskar (GRVP)". Herein after called as the Scheme.*

(ii) The Scheme shall come into force from the date of notifying in the Official Gazette of Government of Goa and will remain in force for 3 years.

(iii) The Scheme shall be implemented through the Goa State Innovation Council (GSInC).

3. *Objectives of the Scheme* :-

(i) Drive the innovation agenda in the State and harness the core competencies, local resources and capabilities to create new Innovations.

(ii) Encourage Scientists, Innovators, young talent in universities, educational Institutes, Medium and Small Scale Industries (MSME) and R&D institutes.

(iii) Identify and reward talent in innovation and disseminate success stories.

4. *Scope of the Scheme:-*

(i) Scope of the Scheme is to give three awards in each financial year to the Goan Innovators/Scientists one each, in categories of Innovation, Environment and Societal impact.

(ii) Each award shall be in the form of cash prize of Rs. 2.00 lakhs, subject to provision in the Annual Budget of the Department of Science and Technology and Waste Management and same shall be directly deposited in the beneficiary's Bank Account on submission of pre-receipt for the said amount to the Director, DS&T&WM.

5. (A) *Eligiblity Criteria:-*

(i) Students, Startups, Innovators, Research Faculty &Scientist [collectively, "applicant" (s)] may apply under this scheme.

(ii) Applicant must be a resident of the state of Goa for last 15years Certificate from competent authority shall have to be enclosed.

(iii) The project should relate to hardware or software-based product innovation.

(iv) The proposals preferably in the following focus sectors shall be encouraged: Green technology, Clean energy, Industrially utilizable smart materials, Waste to Wealth, Affordable Healthcare, Water & Sewage Management, Renewable Energy sources, Electric Vehicles, Smart Cities, Agri-tech, Meditech, Health care tech and Digital media, ITES.

(v) Applicant shall be required to provide a letter of intent (LOI) in case the proposed idea/project is associated with the Industry or the Government.

(vi) Applicant must be registered under the Virtual Innovation Register (VIR) as a New Idea.

(vii) An applicant should avail of this Scheme only once.

(B)Application details:-

(i) Technological Inventiveness:

- What are the technological inventions and why they are significant?
- Innovators Resume/Bio
- Description of Societal Impact
- Scope of Commercialization or its Potential
- Ways in which the Innovator has inspired others?
- Non-Disclosure Agreement

(ii) Documents supporting the applications

- Video Links or Proof of Concept or Minimum Viable Product
- Letter of Recommendations

(C) Procedure for applying under the scheme:-

Below mentioned is the procedure for applying under the Virtual Innovation Register (VIR):

(i)   An individual or a registered entity (Partnership/ Limited Liability Partnership/ Private Limited Company) shall submit an application through the portal:
http://goastateinnovationcouncil.com/virtual-innovation-register.

(ii)   An Innovative shall be from the following sectors which are not absolute but include:
a. Agri-tech
b. Digital media
c. Health care tech
d. Manufacturing
e. ITES

(D) It is mandatory for the applicant to apply under the aforesaid portal to claim benefits under the scheme.

6. Application Process:-

(i) Applications should be submitted online on the date as decided and notified by the GSInC every year.

(ii) Shortlisting of applications by Technical Advisory Committee (TAC)

(iii) Final Round Presentation in front of Expert Committee

(iv) Results

7. *Technical Advisory committee (TAC):-*

(i)   The Technical Advisory Committee (TAC) for the GRVP shall consist of a Chairman and 3 expert members, one each from the disciplines of Science, Technology& Innovations. The Chairman and the Expert members shall be appointed by the Chairman of the Goa State Innovation Council. The Project Officer from the Goa State Innovation Council will be the Member Convenor for the TAC.

(ii) The Technical Advisory Committee (TAC) for the GRVP shall scrutinize the applications and shortlist the eligible applications for the purpose of inviting for the presentation before the Expert Committee.

8. *Expert committee:-*

(i)   The Expert Committee shall consist of a Chairman and two members. All Expert Committee Members including Chairman shall be nominated by the Government. The Committee members can be either professionals or experts or recipient of awards for outstanding achievements in the fields of Science, Technology & Innovations.

(ii) The Expert Committee will judge the shortlisted applicants through presentation on the basis of their progress that has been achieved or has high probability of being achieved.

(iii)GSInC should forward to Department of S&T&WM the decisions/results declared by the Expert Committee duly approved by the Chairman of the GSInC alongwith pre-receipt and Bank account details obtained from the beneficiaries for further process to release the award money directly in their bank account.

9. The Government reserves the right to modify the quantum of Award money as well as number of awards depending upon the budgetary provision. Government also reserves right to modify any or all the conditions or hold in abeyance or suspend or cancel the Scheme at any point of time and no claim or appeal or challenge shall lie with any authority or tribunal or court in respect of this decision of the Government.

10. *Relaxation of the provisions of the scheme:-*

The Government shall be empowered to relax any or all of the clauses or conditions of this scheme in deserving cases.

11. *Interpretation of the provisions of this scheme:-*

If any question arises regarding interpretation of any clause, word, expression of the scheme, the decision about the interpretation shall lie with the Government, which shall be final and binding on all concerned.

12. *Redressal of grievances and dispute:-*

Grievances or disputes, if any, arising out of implementation of this scheme, shall be referred to the Secretary (S&T&WM) who shall hear and decide such matters and his decision in this regard shall be final and binding on all concerned.

Provided no grievance or dispute regarding the decision of the Government shall lie with any authority or tribunal or court.

13. This issues with the concurrence of the Finance (Exp.) Department vide their U.O.No.1400085879 dated 07/06/2022 and administrative approval of the Government under U.O. No. 138/F dated 25/04/2022.

By order and in the name
of the Governor of Goa

Sd/-

(Levinson J. Martins)
Director (S&T&WM) & ex-officio,
Jt. Secretary to Government

To,
The Director,
Department of Printing and Stationary,
Panaji Goa. ……with a request to kindly publish the above notification in next issue of Official Gazette.

PHOTOGRAPH 5.1: INVITING NOMINATIONS FOR
GOA RAJYA VIDNYANIK PURASKAR (GRVP) 2024–25

Government of Goa
Department of Science & Technology and Waste Management
1st Floor, Pandit Deendayal Upadhaya Bhavan,
Behind Pundalik Devasthan, Near Sanjay School,
Porvorim, Bardez Goa - 403 521
Phone Nos.: 0832-2416581 / 2416584
e-mail: dir-stc.goa@nic.in

No. 3-21-2022/S&T&WM/ 1166   Date: 20/01/2025

To,

_____

_____

_____

_____

<u>Sub: "Goa Rajya Vidnyanik Puraskar" 2025 : Request for Publicity</u>

Respected Sir / Madam,

The Government of Goa, through the Department of Science & Technology and Waste Management (DS&T&WM) has instituted the prestigious award titled **"Goa Rajya Vidnyanik Puraskar"**. This initiative aims to encourage, identify, and honor innovators and Scientists whose ideas have been successfully transformed into impactful innovations, particularly with a focus on adoption within Goa.

The primary objectives of the scheme include promoting innovation by leveraging Goa's core competencies, local resources and capabilities while supporting and encouraging Scientists, innovators and young talent from Universities, Educational Institutions, MSMEs and R&D centers. Furthermore, the award seeks to recognize exemplary innovations and share their success stories to inspire others.

This year, three awards will be presented to Goan Scientists and Innovators under the categories of Innovation, Environment, and Societal Impact. Each award includes a cash prize of Rs. 2,00,000/- (Rupees Two Lakhs Only), serving as a significant acknowledgment of their contributions to the state and beyond.

The advertisement inviting applications for this Year is attached to this letter for your reference. We kindly request your support in circulating it to all relevant Departments, Autonomous Institutions, Research Organizations and other stakeholders to ensure wide participation.

Yours faithfully,

(Shri. Ankit Yadav, IAS)
Director (S&T&WM) & Ex-officio
Jt. Secretary to Government

Encl: As above

5.5 STATUS REPORT

In the Financial Year 2024-25, the Virtual Innovation Register has successfully registered path-breaking start-up ideas across sectors and industries. With 100+ new idea registrations, the total tally of ideas on the VIR is now 1550.

Total

Ideas
1550
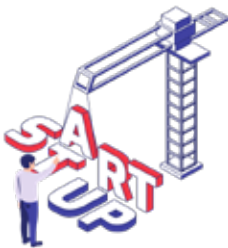
Startups
100+

Incidents	2024-25
New Ideas Added	100
Total Ideas on VIR	1550
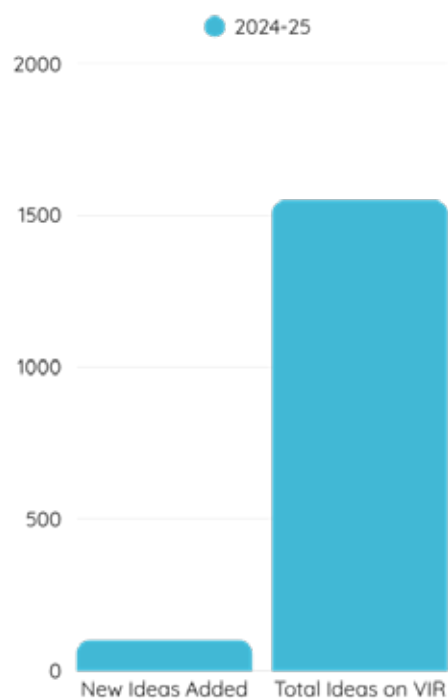
5.6 BENEFICIARIES OF VIRTUAL INNOVATION REGISTER

TABLE 5.1: LIST OF BENEFICIARIES OF PROVISIONAL PATENT FILING SCHEME.

Sr No	URN	Title	Name	College
1	GSInC-I-000350	TAG MAKING MACHINE	TEJAS BARVE	8080586846
2	GSInC-I-000385	AI POWERED VIDEO CLONING SYSTEM	KHUSHI KUMARI	7972016749
3	GSInC-I-000390	DESIGN AND DEVELOPMENT OF DEVICE TO MITIGATE VENTILATOR SHORTAGES DURING NEONATAL RESUSCITATION	SURAJ SURENDRA RANE	9890202390

List of beneficiaries for Scheme to Encourage Innovative Student Projects

ATMANIRBHAR BHARAT
SWAYAMPURNA GOA

Government of Goa
Department of Science & Technology and Waste Management
1st Floor, Pandit Deendayal Upadhaya Bhavan,
Behind Pundalik Devasthan, Near Sanjay School,
Porvorim, Bardez Goa - 403 521
Phone Nos.: 0832-2416581 / 2416584
e-mail: dir-ste.goa@nic.in

No: 3-24-2022/S&T&WM/Part/ 1308   Date: 20 /02/2025

ORDER

Administrative approval and expenditure sanction of the Government is hereby conveyed towards release of financial assistance of Rs. 5,00,000/- (Rupees Five Lakhs Only) as detailed below to take up the innovative projects under the "Scheme to encourage Students for Innovative Projects" for the current financial year 2024-25.

Sr. No	Name of the Institution	Title of the Project	Amount
01	Shree Rayeshwar Institute of Engineering and Information Technology, Shivsail, Karai, Shiroda - Goa 403 103	Emotions Crackers: Speech Emotion Recognition System	Rs. 50,000.00
02	Don Bosco College of Engineering, Fatorda - Margao 403 602	Design and Development of Drone Capture Net Development System	Rs. 50,000.00
03	Don Bosco College of Engineering, Fatorda - Margao 403 602	Study on Bamboo Fibre Reinforced Composites for Ballistic Applications	Rs. 50,000.00
04	Goa College of Engineering, Farmagudi, Ponda - Goa 403 401	Design on High Performance Antenna for 5G Communications	Rs. 50,000.00
05	National Institute of Technology Goa, Cuncolim, South Goa District, Goa 403 703	Development of Brainwave Controlled Wheelchair System for Acute Stroke Patients using Motor Imagery and Assisted Driving	Rs. 50,000.00
06	National Institute of Technology Goa, Cuncolim, South Goa District, Goa 403 703	Developing an Immerse Virtual Reality Framework for Goa Tourism	Rs. 50,000.00
07	National Institute of Technology Goa, Cuncolim, South Goa District, Goa 403 703	IOT Based Smart Water Bottle with Medicine Dispensing System	Rs. 50,000.00
08	Padre Conceicao College of Engineering Agnel Ashram, Verna Goa 403 722	Eye Gaze Control Mouse Computer Cursor	Rs. 50,000.00
09	Shree Rayeshwar Institute of Engineering and Information Technology, Shivsail, Karai, Shiroda - Goa 403 103	Lung Disease Classification using Lung Sounds	Rs. 50,000.00
10	Shree Rayeshwar Institute of Engineering and Information Technology, Shivsail, Karai, Shiroda - Goa 403 103	Aerial Digital Canvas	Rs. 50,000.00
	Total		**Rs. 5,00,000.00**

-2-

The Expenditure on above shall be met from the funds available under Budget Head: 3425 - Other Scientific Research, 60 - Others, 800 - Other Expenditure, 07 - Encourage Students for Innovative Projects, 50 - Other Charges.

This has approval of Government vide U.O No. 23195/F Dated: 16/01/2025 and Concurrence of Finance (Exp.) Dept. vide U.O. No. 1400096705 dated 20/01/2025.

By order and in the name of the Governor of Goa.

(Shri. Ankit Yadav)
Director (S&T) and Ex. Officio,
Jt. Secretary to Government

To,
1. All the Concerned Institution.
2. Shri Sudip Faldesai, Project Officer, Goa State Innovation Council, Secretariat, Don Bosco College of Engineering, Fatorda, Margao – Goa 403 602..... *for information*

Copy to:
1. The Director, Directorate of Accounts, Panaji.
2. The Sr. Dy. Accountant Gen. (Audit), Alto-Porvorim.
3. The Under Secretary (Fin-Exp) Dept. Secretariat, Porvorim.
4. The Bill.
5. Guard file.
6. Order File
7. O/c

Title of the Project
Speech Emotions Recognition System
Unique Registration Number: GSInC-I-000446

Name of Applicant/s

1. Shanur Maurya

2. Yashada Sathe

3. Chinchu Sudhambaran

4. Arpita Naik

Name of Mentor:

Pratiksha Shetgaonkar

Name of School/College/Startup/Organisation:

Shree Rayeshwar Institute of engineering and information technology

Address: Karai, Shiroda 403103, Goa, india.

Contact Number: 0832230741

Contact Email ID: principal.ritgoa@gmail.com

Project Objective:

Analyse and classify human emotions using deep learning techniques

Abstract:

This project involves the development of a Speech Emotion Recognition (SER) system using deep learning techniques, specifically a hybrid Convolutional Neural Network (CNN) and Long Short-Term Memory (LSTM) architecture. We aim to detect emotions in speech by making use of both the spatial and temporal information contained in audio signals. Four benchmark datasets RAVDESS, TESS, SAVEE, and CREMAD have been selected for training and evaluation.

The datasets have been pre-processed to extract Features and categorize audio samples into seven key emotion classes: neutral, calm, happy, sad, angry, fearful, and disgust. The CNN layers are responsible for identifying local patterns in the spectrograms, while the LSTM layers capture the sequential nature of the speech. Data augmentation techniques have also been incorporated to enhance dataset balance and improve generalization.

At present, the hybrid model has been implemented and is undergoing the training and evaluation phase. The ongoing focus is on refining the architecture, optimizing hyperparameters, and ensuring efficient feature learning across different speakers and emotions. This structured approach aims to develop a reliable and accurate emotion recognition system based on audio inputs.

Project Outcome/ Result/ Finding:

Initial results show good accuracy and emotion classification when all four datasets RAVDESS, TESS, SAVEE, and CREMA-D are used together for training. The model performs better when trained on the combined data, capturing a wider variety of speech patterns and emotions. We are currently working on improving the model further by adjusting hyperparameters, optimizing the training process, and testing how well the model performs across different types of data. The goal is to build a strong and flexible SER system that can be used in real-world applications like emotion-aware assistants, healthcare tools, and smart customer service platforms.

Innovative Approach:

This approach uses a hybrid LSTM + CNN model to capture temporal and spatial speech features. By combining RAVDESS, SAVEE, TESS, and CREMA-D datasets, we enhance accuracy, diversity, and generalization, this dataset fusion introduces greater diversity in speech patterns, accents, and emotional expressions, thereby enabling the model to learn more comprehensive emotional cues and perform better across real-world scenarios.

Title of the Project
Design and development of drone capture net deployment system
Unique Registration Number: GSINC-I-000447

Name of Applicant/s
1. Lydon Fernandes [L]
2. Aniket Bhaskar
3. Myron Fernandes
4. Xavier Furtado
5. Akhilesh Naik

Name of Mentor:

Mr. Sachin Turi

Name of School/College/Startup/Organisation:

Don Bosco College of Engineering

Address: Fatorda, Madgaon,Goa 403602.

Contact Number: (0832) 2744111 / 2744112

Contact Email ID: dbcefatorda@dbcegoa.ac.in

Project Objective:
- Target Detection
- Net Ejection and Timing control
- Stability Control Of Net During Capture
- Post-Capture Control
- Testing Simulation

Abstract:

The rise of rogue drones in sensitive areas poses significant threats to security, public safety, and privacy. Traditional counter-drone methods, such as jamming or destructive measures, often risk collateral damage and operational disruptions. This project introduces a non-destructive drone capture system that detects, tracks, and neutralizes rogue drones in real time. Utilizing advanced prediction algorithms and a net deployment mechanism, the system ensures safe, precise immobilization with minimal risks to infrastructure, bystanders, and the environment, while adhering to legal and ethical standards.

Project Outcome/ Result/ Finding:

The autonomous drone system is designed to detect and capture target drones through a precise sequence of operations:

- Target Detection involves identifying and locking onto the target drone's position. Net Deployment Mechanism focuses on securely housing and deploying a tethered net, prepared for ejection.
- Net Ejection and Timing control when the net is ejected to intercept the target, ensuring accuracy by synchronizing with the drone's proximity and movement.
- Stability Control Of Net During Capture is crucial as it maintains balance after the net deploys, preventing destabilization during high-speed maneuvers.
- Post-Capture Control then adjusts for the added weight and drag of the captured drone, ensuring a stable return flight.
- Finally, Testing Simulation rigorously assesses each system aspect in virtual and real-world environments, optimizing performance before deployment.

Innovative Approach:

The project introduces a novel drone capture system that deploys nets to intercept unauthorized drones, enhancing airspace security. This system is useful for protecting sensitive areas from potential threats posed by rogue drones. Its innovative approach is by precise net deployment, ensuring effective and safe drone interceptions.

Photos of the Project/Model:

PHOTOGRAPH 5.2: DESIGN AND DEVELOPMENT OF DRONE CAPTURE NET DEPLOYMENT SYSTEM

Title of the Project
Study on Bamboo Fiber Reinforced Composites for Ballistic Applications
Unique Registration Number: GSInC-I-000439

Name of Applicant/s

1. Arya A. Naik
2. Delton Fernandes
3. Yash A. Kurade
4. Somesh Sawant
5. Aires Sousa

Name of Mentor:

Gaurish M Samant

Name of School/College/Startup/Organisation:

Don Bosco College of Engineering

Address: Fatorda, Madgaon,Goa 403602.

Contact Number:

1. 7218522968
2. 9623856798
3. 9011654654
4. 8552963242
5. 8007129966

Contact Email ID:

1. aryanaik88@gmail.com
2. deltonfernandes26@gmail.com
3. yashkurade13@gmail.com
4. someshsawant33@gmail.com
5. airessousa1022@gmail.com

Project Objective:

This project aims to pave the way for eco-friendly ballistic solutions, balancing safety with environmental responsibility.

Abstract:

This project investigates the development and characterization of a natural fiber-reinforced composite material using epoxy as a matrix and natural fibers as the reinforcing agent. The primary objective is to evaluate the composite's mechanical behavior under high impact velocity, making it suitable for applications requiring energy absorption, such as automotive, defense, and sports equipment.

epoxy, a sustainable resin, offers excellent chemical resistance and thermal stability, while natural fiber provides high tensile strength and flexibility. The composite was fabricated using a Compression moulding with varying fiber-to-resin ratios to identify the optimal configuration. Key mechanical properties were analyzed using standard ASTM testing methods. High-velocity impact testing was conducted to simulate real-world dynamic loading conditions.

The study also includes microscopic analysis (SEM) of fracture surfaces to understand failure modes and interfacial bonding. The research emphasizes eco-friendly material development, reduced environmental footprint, and low-cost alternatives for high-impact applications.

This composite shows potential for replacing conventional composites in semi-structural and protective roles where lightweight and energy absorption are critical. Future work will focus on scaling up the process and enhancing thermal and moisture resistance through chemical treatments.

Project Outcome/ Result/ Finding:

The epoxy- natural fiber composite demonstrated high impact resistance and superior energy absorption compared to traditional low-cost composites. The optimal fiber-matrix ratio offered balanced mechanical performance, making it suitable for dynamic applications requiring lightweight yet tough materials.

Innovative Approach:

This study utilizes epoxy, a agro-waste by-product, combined with natural fibers to create a sustainable composite tailored for high-velocity impact conditions. The unique combination of resin and fiber enhances competitive mechanical performance, offering a green alternative to synthetic materials.

Photos of the Project/Model:

PHOTOGRAPH 5.3: STUDY ON BAMBOO FIBER REINFORCED COMPOSITES FOR BALLISTIC APPLICATIONS

Title of the Project
DESIGN OF HIGH PERFORMANCE ANTENNA FOR 5G COMMUNICATION
Unique Registration Number: GSINC-I-000425

Name of Applicant/s
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2. Sahil Gadkari
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Name of Mentor:
Prof Sangam Borkar

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Project Objective:

With the rapid expansion of 5G technology, there is an increasing demand for compact, high-performance antennas that can meet stringent requirements for bandwidth, gain, and efficiency.

In the present scenario, many 5G antennas are fabricated using expensive, low-loss dielectric materials, which limit their accessibility for cost-sensitive applications. This project aims to address these limitations by designing a high-performance 5G antenna using affordable FR4 substrate material, optimized to operate at the 25-28GHz and Sub-6 GHz frequency band, a primary band for 5G networks.

Despite its higher dielectric losses, FR4 is a widely available and low-cost material, making it ideal for prototyping and mass production. The proposed antenna design, simulated in ANSYS HFSS, will be structured to enhance gain, reduce return loss, and ensure wide bandwidth, mitigating some of the efficiency challenges associated with FR4.

Key parameters such as reflection coefficient, radiation pattern, gain, and efficiency are studied to evaluate the antenna's performance. By achieving performance metrics comparable to those using high-end substrates, this design demonstrates that cost-effective materials can be used without severely compromising antenna efficiency and functionality.

Abstract:

We the group of 4 students of Goa engineering college present the design and simulation of a high-performance 5G antenna using FR4 substrate material, optimized for the desired frequency of 25-28GHz and Sub-6GHz frequency band. The antenna is designed and analyzed using ANSYS HFSS, an industry-standard software for high-frequency electromagnetic simulation.

Project Outcome/ Result/ Finding:

The under complete microstrip antenna operating at 25-28 GHz for 5G applications is presented (For now only 1 design is presented in this document).

5 different models of microstrip antennas with variations in slots are proposed.

The Gain achieved for this antenna is 4.9 with Bandwidth of 32.15db

Below are the design and output for reference

PHOTOGRAPH 5.4: DESIGN OF HIGH PERFORMANCE ANTENNA FOR 5G COMMUNICATION

ANTENNA Design -1 (mmWave)

	STAGE-1	STAGE-2	STAGE-3	STAGE-4	PROPOSED STAGE
BW (Freq)	17.11 -17.97 33.52 -34.78	17.12 -25.17 29.62 -34.57	14.56 -25.32 31.7 -35.05	16.58 -28.29 36.11 -39.16	14.15 -46.30
GAIN (dB)	1.43	1.00	3.5	3.74	4.9

S11 PLOT for DESIGN -1 using ORIGIN

	BW(Freq)	GAIN
STAGE 1	17.11 -17.97 33.52 -34.78	1.43
STAGE 2	17.12 -25.17 29.62 -34.57	1.00
STAGE 3	14.56 -25.32 31.7 -35.05	3.5
STAGE 4	16.58 -28.29 36.11 -39.16	3.74
PS	14.15 -46.30	4.9
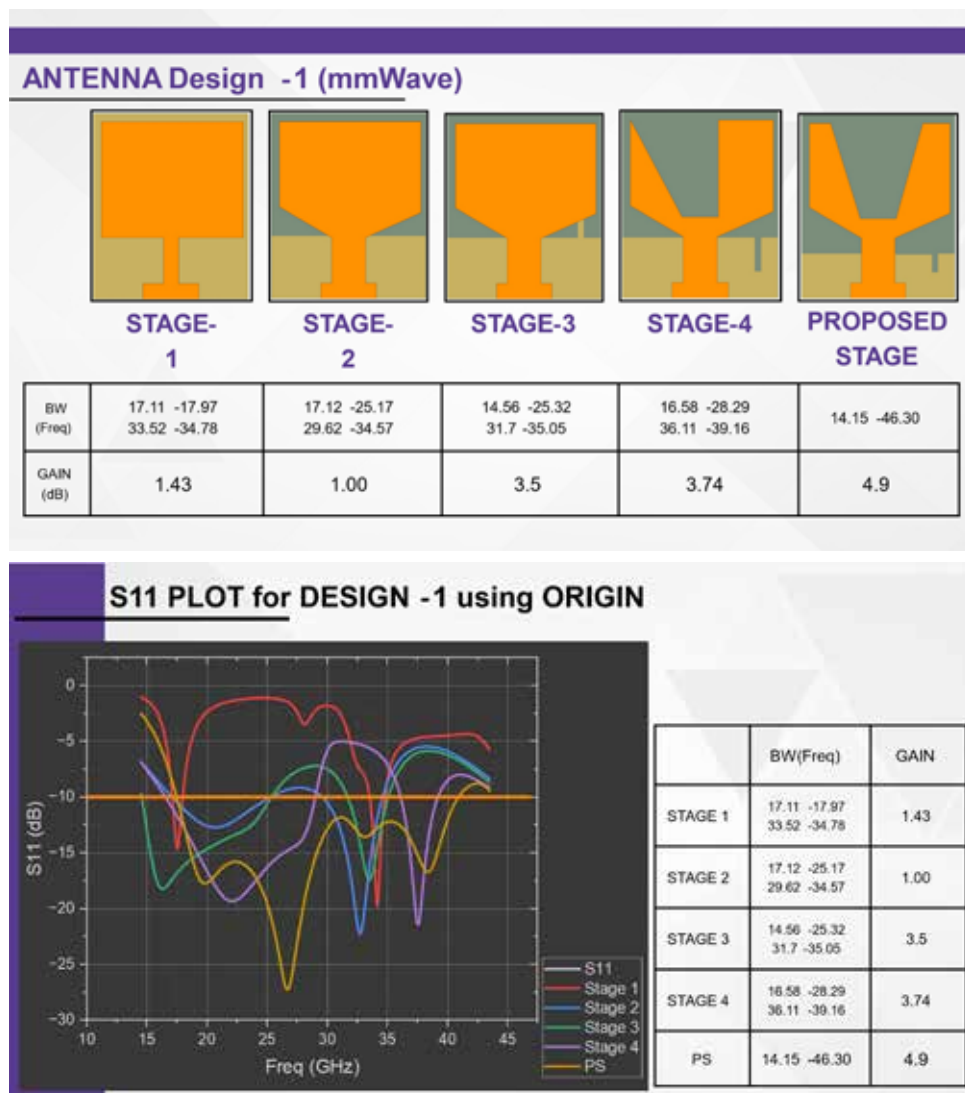
Innovative Approach:

- Literature Review: Conduct a thorough review of existing microstrip antenna designs and technologies in research papers to identify key design parameters.
- Design a Microstrip Antenna: Focusing on parameters such as gain, bandwidth, and efficiency. Used Optimization method and trial and error to obtain the required parameters. Software used for simulation is HFSS.
- Obtained Good Gain and Bandwidth using low cost FR-4

Photos of the Project/Model:

PHOTOGRAPH 5.4: DESIGN OF HIGH PERFORMANCE ANTENNA FOR 5G COMMUNICATION

Title of the Project
DEVELOPING AN IMMERSIVE VIRTUAL REALITY FRAMEWORK FOR GOA TOURISM
Unique Registration Number: GSINC-I-000430

Name of Applicant/s
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2. Atul

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Project Objective:

The primary objective of this project is to design and implement an immersive Virtual Reality (VR) framework enhanced by 5G technology to promote tourism in Goa. The framework aims to recreate key tourist destinations through realistic 3D models and enable users to virtually explore these locations in real time. By integrating high-resolution visuals, smooth navigation, and potential AI-driven interactivity, the project seeks to provide a remote yet life-like tourism experience that is accessible, educational, and engaging. Additionally, the project explores how 5G's low latency and high bandwidth can support seamless VR streaming and real-time interactivity, paving the way for smarter, tech-enabled tourism solutions.

Abstract:

Tourism is a vital part of Goa's economy, and with the rise of immersive technologies, Virtual Reality (VR) has the potential to revolutionize how tourists experience destinations remotely. This project, titled "Developing an Immersive Virtual Reality Framework for Goa Tourism," aims to design a highly immersive and interactive VR experience for some of Goa's prominent locations by leveraging photogrammetry, Blender, Unity, and 5G capabilities. Using a combination of drone footage, 3D scanning tools like Agisoft Metashape and Reality Capture, and advanced modeling software, we created detailed digital twins of selected campus locations, such as the college bank, admin block, library and classroom, as a scalable prototype. The integration of 5G technology allows for low-

latency streaming and real-time interaction, making the experience smoother and more realistic. The project also explores future enhancements such as AI-driven virtual guides, environmental sensor integration, and cloud-based analytics to track user engagement and preferences. These features aim to create personalized experiences, gather valuable data for tourism authorities, and promote lesser-known tourist spots through virtual exploration. While initial efforts focused on capturing and rendering campus locations, the framework is designed to be extended to real Goa landmarks. The outcome demonstrates the feasibility of a VR-based tourism model that supports sustainable travel, promotes digital tourism, and enhances accessibility for global audiences. This project serves as a foundation for a scalable, tech-forward approach to tourism in India, setting a precedent for integrating VR and 5G in heritage and cultural promotion.

Project Outcome/ Result/ Finding:

The project successfully created immersive 3D VR environments of key prototype locations using photogrammetry and modeling tools, demonstrating the potential of 5G for seamless, real-time VR experiences. It establishes a scalable framework for virtual tourism in Goa, with future possibilities of AI integration and advanced interaction analytics.

Innovative Approach:

This project uniquely combines 5G connectivity with photogrammetry-based 3D modeling and VR technologies to simulate real-world tourism experiences. Unlike conventional tourism tools, the framework supports real-time, immersive exploration enhanced by high-speed data, laying the groundwork for AI-powered virtual guides and smart tourism analytics in future iterations.

Photos of the Project/Model:
PHOTOGRAPH 5.5 : DEVELOPING AN IMMERSIVE VIRTUAL REALITY FRAMEWORK FOR GOA TOURISMDISPENSING SYSTEM
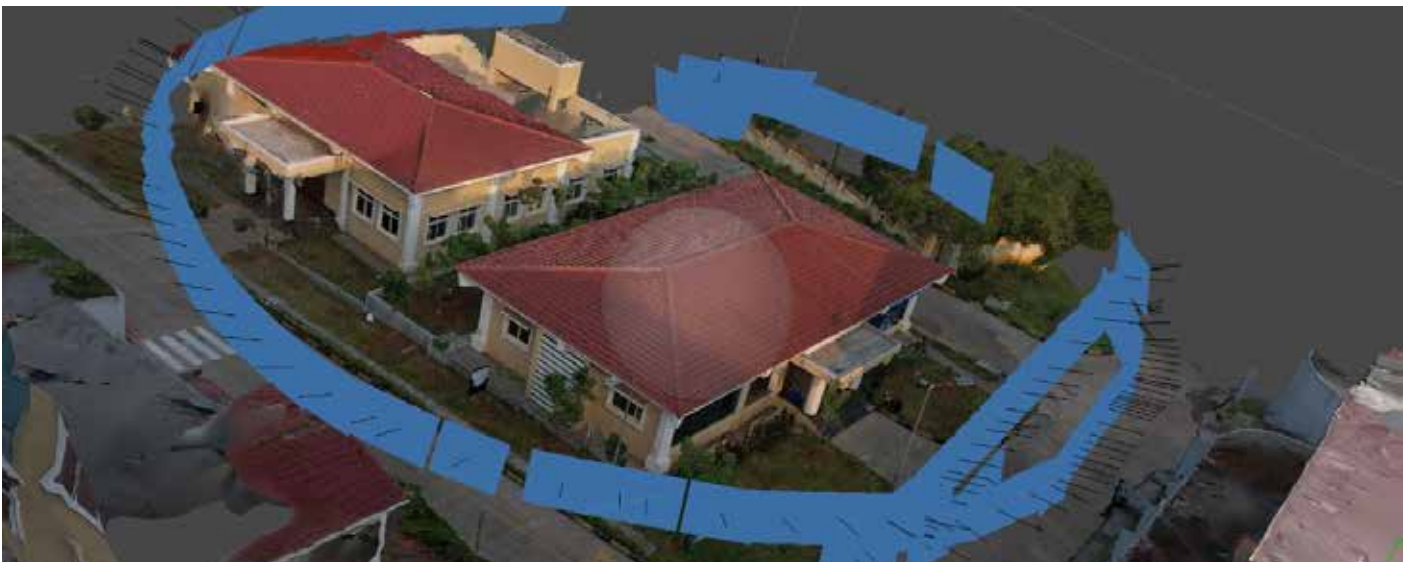
Photos of the Project/Model:

PHOTOGRAPH 5.5 : DEVELOPING AN IMMERSIVE VIRTUAL REALITY FRAMEWORK FOR GOA TOURISMDISPENSING SYSTEM
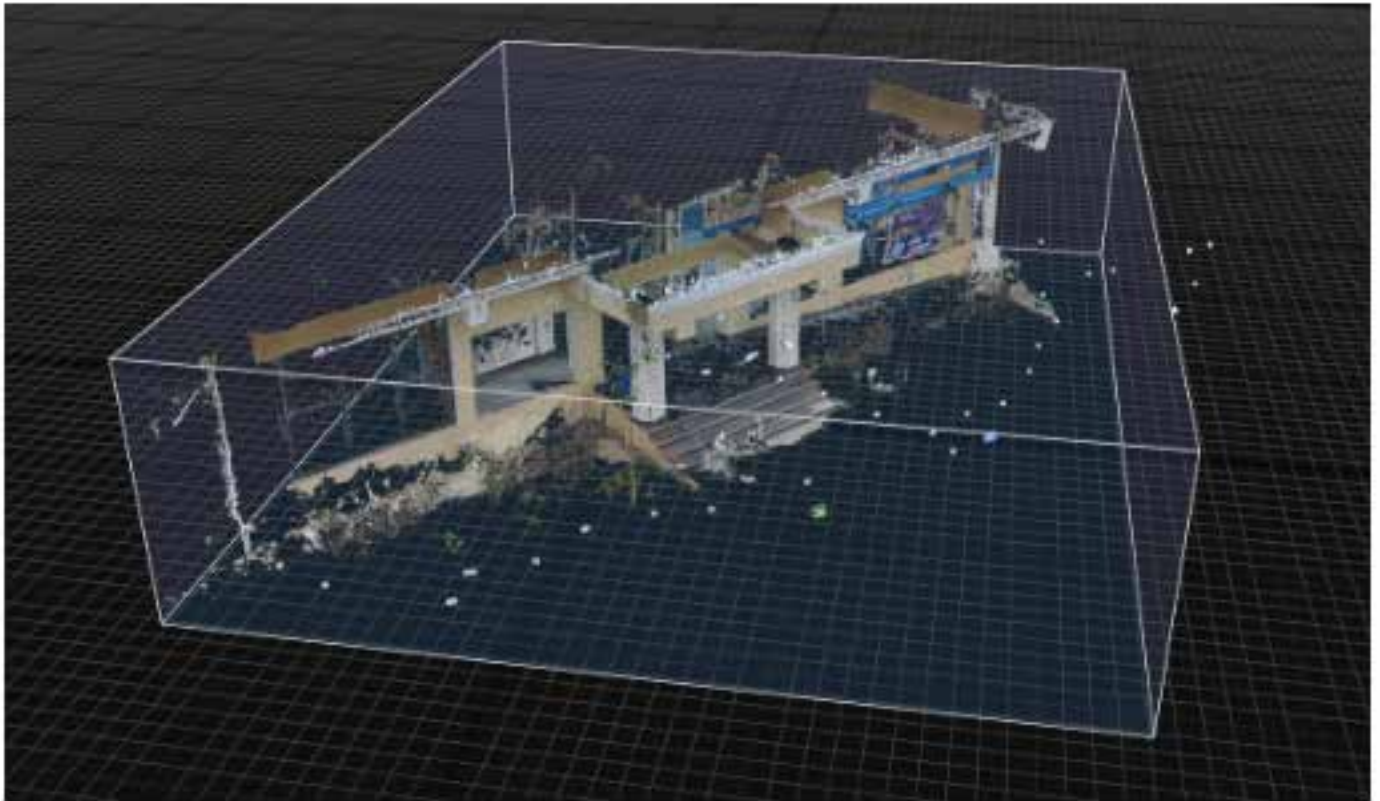
Title of the Project
IOT BASED SMART WATER BOTTLE WITH MEDICINE DISPENSING SYSTEM
Unique Registration Number: GSInC-I-000399

Name of Applicant/s
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Project Objective:
The IoT-Based Smart Water Bottle with Medicine Dispensing System aims to improve health and well-being by addressing the critical challenges of hydration tracking and medication adherence, particularly for the elderly, through the integration of advanced IoT technology.

Abstract:
The IoT-Based Smart Water Bottle with Medicine Dispensing System is a proposed innovation aimed at improving health and well-being, particularly for elderly users, by addressing hydration tracking and medication adherence through the integration of IoT technology. Once developed, the system is intended to monitor daily water intake and provide real-time hydration reminders, alongside scheduled medication dispensing to ensure timely consumption.

The planned design will utilize Firebase for seamless data synchronization between the device and mobile/web platforms, enabling real-time tracking, alerts, and caregiver notifications. The system is envisioned to include built-in sensors for monitoring water quality parameters such as turbidity, pH, and TDS. Additionally, a UV-C light module is proposed for chemical-free, on-the-go water sterilization to enhance drinking water safety. The device will feature 3D-printed, customizable medicine compartments tailored to

individual needs, offering flexibility and accessibility. A gamified hydration scoring system is also being explored to promote consistent water intake through user engagement. The compact, all-in-one design aims to replace multiple external tools by combining hydration tracking, medication management, and water purification in a single portable unit.

This elderly-friendly, eco-conscious system is being developed with a focus on sustainability, reducing the use of single-use plastics, and enhancing convenience. Upon completion, the project is expected to offer a unique and practical solution to real-world healthcare challenges by blending advanced IoT capabilities with user-centric features.

Project Outcome/ Result/ Finding:

The project is currently under development, with successful integration of hydration tracking and preliminary medication dispensing functionality. Initial testing of IoT connectivity via Firebase shows promising results. Ongoing efforts focus on implementing UV-C purification, real-time sensor monitoring, and caregiver notifications to ensure a comprehensive and user-friendly health management solution.

Innovative Approach:

The project adopts an innovative approach by integrating hydration tracking, medication dispensing, and UV-C water purification into a single IoT-enabled smart bottle. It leverages real-time monitoring via mobile/web apps, personalized 3D-printed components, and caregiver notifications, offering a compact, elderly-friendly, and eco-conscious health solution that promotes convenience, safety, and well-being.

Photos of the Project/Model:

PHOTOGRAPH 5.6 : IOT BASED SMART WATER BOTTLE WITH MEDICINE DISPENSING SYSTEM
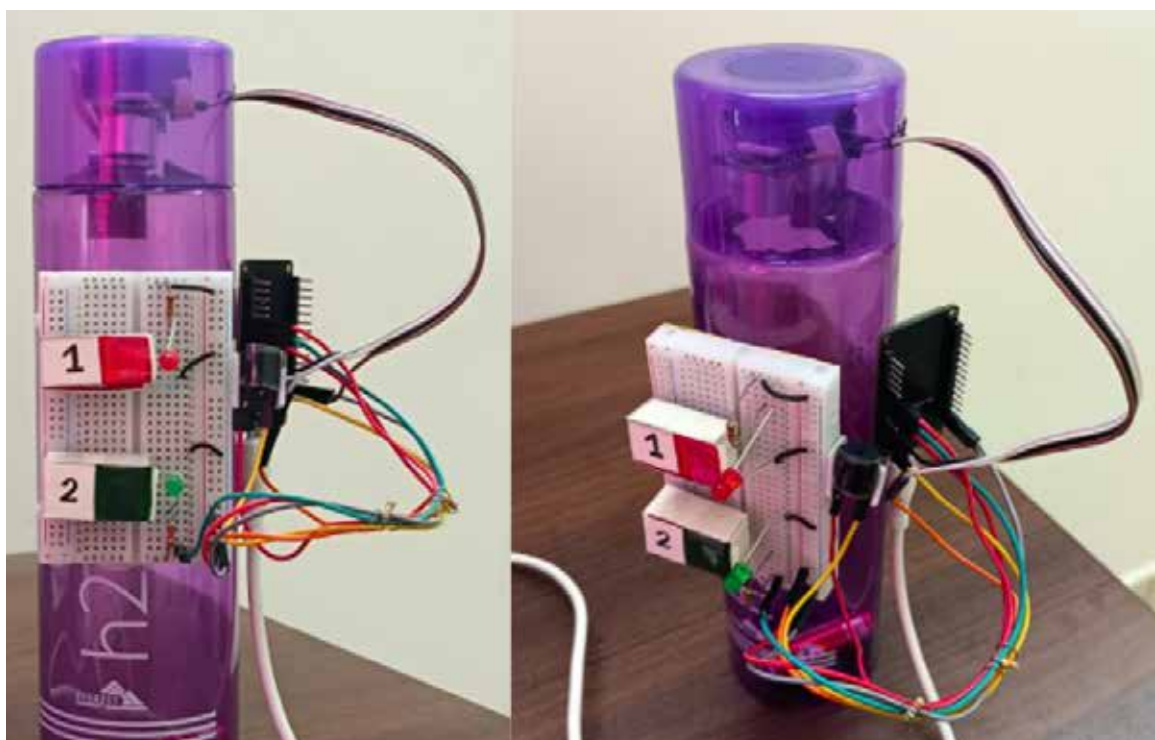
Photos of the Project/Model:

PHOTOGRAPH 5.6 : IOT BASED SMART WATER BOTTLE WITH MEDICINE DISPENSING SYSTEM

Title of the Project
EYE GAZE CONTROL MOUSE COMPUTER CURSOR
Unique Registration Number: GSInC-I-000418

Name of Applicant/s

1. Abhijeet Singh
2. David Fernandes
3. Varad Rajesh Naik
4. Aaron Francisco Gonsalves

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Project Objective:

To provide access of computer for people with disabilities.

Abstract:

Disabled People with hand motor disabilities cannot use the traditional computer mouse. We are making an eye-gaze mouse tracking system that tracks the user's eye movement. The goal of the eye tracking system is to simply determine what it is you are looking at. It needs to be accurate enough to work with a traditional computing workspace and quick enough to keep up with the fast movement of your eyes. Dual cameras are required to track the display monitor and moment of reflection of the eye pupil. Currently, eye-gaze tracking mice are costly. They do not have a convenient way to access functions such as left-click, right-click, scrolling, and dragging/dropping.

Project Outcome/ Result/ Finding:

Eye tracking, gaze-to-screen mapping and head gesture control have been implemented. Prototyping of the headgear is underway.

Innovative Approach:

Using readily available cameras, microcontrollers and 3D Printing to create an affordable eye tracker that helps people with motor disabilities to use a computer.

Photos of the Project/Model:

PHOTOGRAPH 5.7 : EYE GAZE CONTROL MOUSE COMPUTER CURSOR
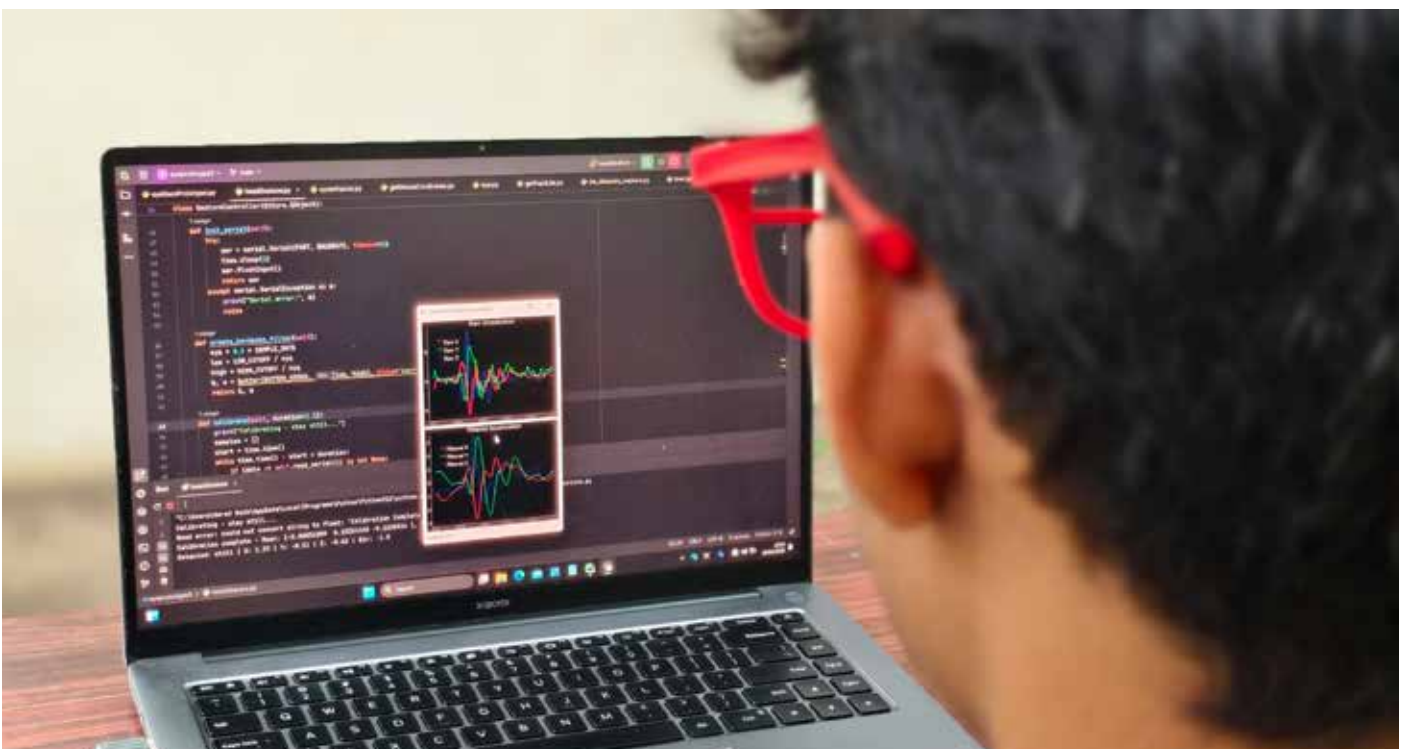
Photos of the Project/Model:
   PHOTOGRAPH 5.7 : EYE GAZE CONTROL MOUSE COMPUTER CURSOR

Title of the Project
Lung Diseases Classification using Breath Sounds
Unique Registration Number: GSInC-002209

Name of Applicant/s

1. Suhasini Chandekar
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Project Objective:

Diagnosing lung diseases like asthma, COPD, and pneumonia is often costly and inaccessible in low-resource areas. This research develops machine learning models to classify lung diseases from breath sounds, offering an affordable, non-invasive diagnostic tool while addressing AI deployment challenges in healthcare.
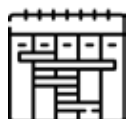
Abstract:

Advances in deep learning have significantly enhanced lung health by transforming medical diagnostics. This study introduces an innovative multi-class classification method that simultaneously categorizes lung sounds and diseases, providing a more comprehensive and efficient diagnostic tool. Our approach leverages deep learning and machine learning architectures to extract critical information from lung sound recordings, achieving highly accurate predictions.

The primary dataset used for training and evaluating the model is the ICBHI 2017 Respiratory Sound Database. Lung diseases, such as asthma, Bronchitis, and chronic obstructive pulmonary disease (COPD), represent a significant global health burden, affecting millions of individuals and posing challenges for timely and accurate diagnosis. Early detection and classification of these conditions are critical for effective management and improved patient outcomes, using non-invasive methods. Breath sounds carry vital information about the respiratory system, and subtle variations in these sounds can indicate underlying

pathological conditions. By developing an efficient and accurate system for classifying lung diseases based on breath sound patterns, this research aims to provide healthcare professionals with a valuable diagnostic tool that can complement existing methods.

By integrating lung sound analysis with risk prediction, our method provides physicians with a holistic view of a patient's lung health, helping diagnosis and improving communication about potential causes, implications, and treatment options. This computer-aided system is particularly valuable in resource-limited settings, offering reliable support for the classification of lung disorders.

Project Outcome/ Result/ Finding:

The goal of this project is to enhance the accuracy of respiratory disease classification by focusing on preprocessing and feature extraction of lung sound recordings. Using the ICBHI 2017 Respiratory Sound Database, which includes annotated lung sounds from real patients, we implemented a systematic pipeline to clean and prepare the audio data for machine learning.

The preprocessing stage involved several key steps:
1. Noise reduction using bandpass filters to eliminate background and ambient noise
2. Normalization to standardize the amplitude levels across samples.
3. Augmentation in time and frequency domain techniques.
4. Following preprocessing, we performed feature extraction to convert the audio signals into meaningful numerical representations suitable for model training. Extracted features included:
5. Mel-Frequency Cepstral Coefficients (MFCCs).
6. Gamma tone Frequency cepstral coefficients (GFCCs).
7. Variational Mode Decomposition (VMD).

Innovative Approach:

The project adopts an innovative approach by integrating hydration tracking, medication dispensing, and UV-C water purification into a single IoT-enabled smart bottle. It leverages real-time monitoring via mobile/web apps, personalized 3D-printed components, and caregiver notifications, offering a compact, elderly-friendly, and eco-conscious health solution that promotes convenience, safety, and well-being.

Title of the Project
Aerial Digital Canvas
Unique Registration Number: GSInC-002286

Name of Applicant/s

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Harsha Chari

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Project Objective:

The objective of Aerial Digital Canvas is to offer a platform for teachers to write or draw in the air by using the tip of their finger and some simple hand gestures. It eliminates the need to use physical devices like styluses, pens or even chalkboards. The Aerial Digital Canvas can capture all the hand gestures used for writing and drawing and display them on the screen in real-time. The system is integrated with a shape selection mode where a user can select shapes from a dropdown menu. Also, a user can draw any shape in the air after which the system easily recognizes the drawn shape. A virtual keyboard permits the user to type in the air and the text gets displayed on the screen in real-time. Aerial Digital Canvas allows seamless problem solving and computes answers in a few seconds in real-time. Teachers can write equations in the air, which will be recognised and checked against available datasets for symbol and number recognition and will display the computed result on the canvas.
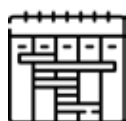
Abstract:

Human Computer Interaction (HCI) is an interdisciplinary domain that focuses on people's interactions with digital systems in real-world situations. Since the different types of interaction, hand gesture recognition has become a powerful and intuitive medium of communication between users and machines. We present a virtual interface that allows users to perform tasks such as writing, drawing, solving equations, using geometric

shapes, and even typing in the air, removing the need for physical tools and peripherals. In traditional systems, algorithms such as K-Means, RCNN and YOLOv3 have been used for hand detection and gesture tracking. While these models provide good results, they are computationally complex and thus do not perform well in real-time dynamic environments. To tackle this challenge, we rely on efficient computer vision techniques with OpenCV and Mediapipe that facilitate smooth and accurate hand tracking with minimum latency. By integrating a Convolutional Neural Network (CNN), the system is further improved for the capability to recognize handwritten mathematical equations as well as to perform accurate detection of geometric shapes. Additionally, the system also includes a virtual keyboard that allows users to type in the air, and thus they can have a similar real-world typing experience with no physical hardware. This opens up the possibility of remote interaction, accessibility, and creative applications in areas ranging from education, design and human-centred computing. In general, our solution provides a smooth and immersive user experience, which is responsive in real time and interprets hand gestures intelligently.

Project Outcome/ Result/ Finding:
The system trained uses OpenCV and MediaPipe for detecting hand gestures and converting them into smooth digital strokes by utilizing Kalman filter and bitwise masks. The system includes Automated Shape Detector for smart recognition, Handwritten Mathematical Equation Solver for solving real-time mathematics problems (BODMAS) and a Virtual Keyboard for text input.

Innovative Approach:
The system trained uses OpenCV and MediaPipe for detecting hand gestures and converting them into smooth digital strokes by utilizing Kalman filter and bitwise masks. The system includes Automated Shape Detector for smart recognition, Handwritten Mathematical Equation Solver for solving real-time mathematics problems (BODMAS) and a Virtual Keyboard for text input.

Photos of the Project/Model:

PHOTOGRAPH 5.8 : AERIAL DIGITAL CANVAS
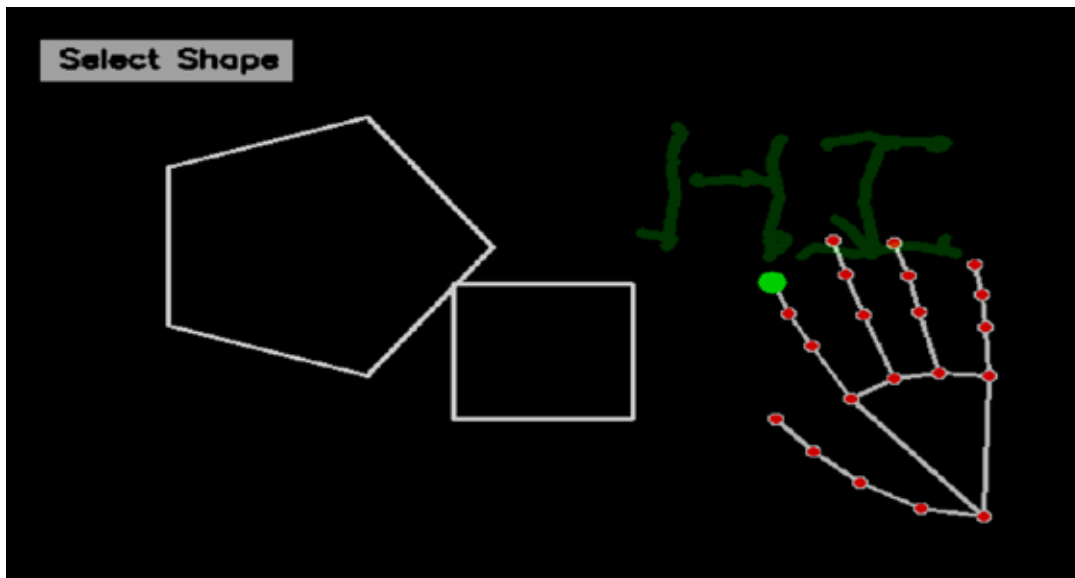
Fig 1: Sketch mode integrated with shape toolbox selection (Using Web-camera)

Fig 2: HME Solving Canvas (Using Web-camera)

Fig 3: Automatic shape detection(Using Web-camera)

PHOTOGRAPH 5.8 : AERIAL DIGITAL CANVAS PROJECT TEAM

List of beneficiaries for Goa Rajya Vidnyanik Puraskar

Title of the Project
Automatic Interpretation of Cardiovascular Diseases from ECG Images
Unique Registration Number: GSInC-002339

Name of Applicant/s

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Project Objective:

This project aims to develop an AI-based system for the automatic interpretation of cardiovascular diseases (CVDs) from ECG images obtained from both portable devices and paper-based ECG records. Using deep learning techniques, the system will analyze ECG patterns to detect abnormalities and classify various cardiac conditions such as arrhythmias and myocardial infarction. The model will process digital ECG images from wearable devices, ensuring accessibility in diverse healthcare settings. By training on a clinically validated dataset, the system aims to provide accurate, fast, and reliable ECG analysis, supporting medical professionals in early detection and diagnosis.

Abstract:

Cardiovascular diseases (CVDs) are a leading cause of mortality worldwide, necessitating timely and accurate diagnosis. Electrocardiograms (ECGs) are essential for detecting heart abnormalities, but manual interpretation can be time-consuming and prone to errors. This project aims to develop an AI-powered system for the automatic interpretation of cardiovascular diseases from ECG images obtained from portable devices.

The proposed system will leverage deep learning techniques, including convolutional neural networks (CNNs), to analyze ECG patterns and identify abnormalities such as arrhythmias, myocardial infarction, and ischemia. By processing digital ECG images from wearable and portable devices, the model ensures real-time and remote accessibility,

making it particularly beneficial in telemedicine and resource-limited settings. A clinically validated dataset of ECG images will be used to train and evaluate the AI model, ensuring high accuracy and reliability.

The key objectives of this research include enhancing diagnostic precision, reducing dependence on human interpretation, and enabling early detection of cardiac conditions. The system will be integrated into a user-friendly platform, allowing healthcare professionals to efficiently analyze ECG data and make informed decisions.

By automating ECG interpretation from portable devices, this research aims to improve the efficiency of cardiac diagnostics, enhance patient outcomes, and support digital healthcare solutions. The implementation of AI in ECG analysis has the potential to revolutionize cardiac care by making diagnosis faster, more accurate, and widely accessible.

Project Outcome/ Result/ Finding:
Among the CNN models evaluated, VGG19, DenseNet201, ConvNext Tiny, ConvNext Small, ResNet50, and ResNet101 demonstrated high accuracies. DenseNet201 and ResNet50 performed the best, achieving an accuracy of 0.973, with sensitivity and specificity of 1, and precision and recall of 0.97.

Comparing the model accuracy graphs, ResNet50 exhibited more stable validation accuracy, consistently hovering around 0.90 with minimal fluctuations. In contrast, DenseNet201 showed instability in early epochs with large fluctuations before stabilizing at 0.90. Based on this analysis, ResNet50 appears to be the better model, offering more consistent validation accuracy and stability, making it a preferred choice for ECG-based cardiovascular disease detection.

Innovative Approach:
This evaluation can be embedded in wearable devices, allowing real-time cardiovascular monitoring anytime, anywhere. By leveraging deep learning models like ResNet50, the system enables automated ECG analysis on portable devices, providing instant cardiac health insights. This innovation enhances accessibility, early detection, and continuous monitoring, revolutionizing AI-driven remote healthcare.

Photos of the Project/Model:

PHOTOGRAPH 5.9 : AUTOMATIC INTERPRETATION OF CARDIOVASCULAR DISEASES FROM ECG IMAGES
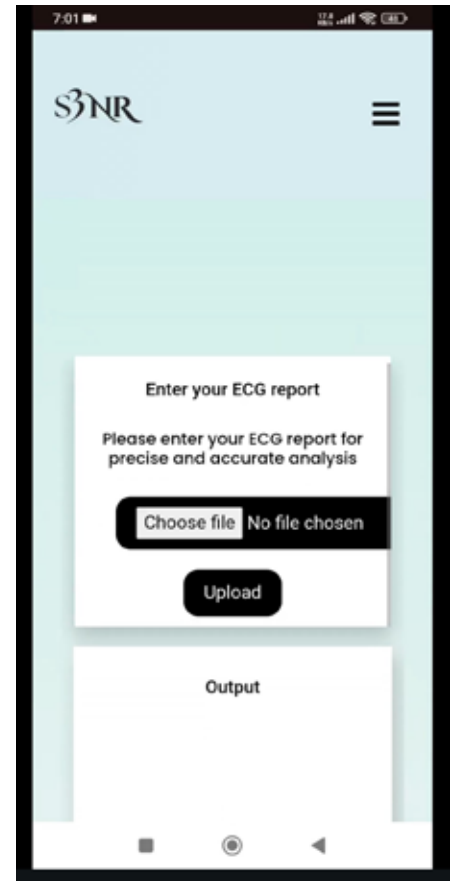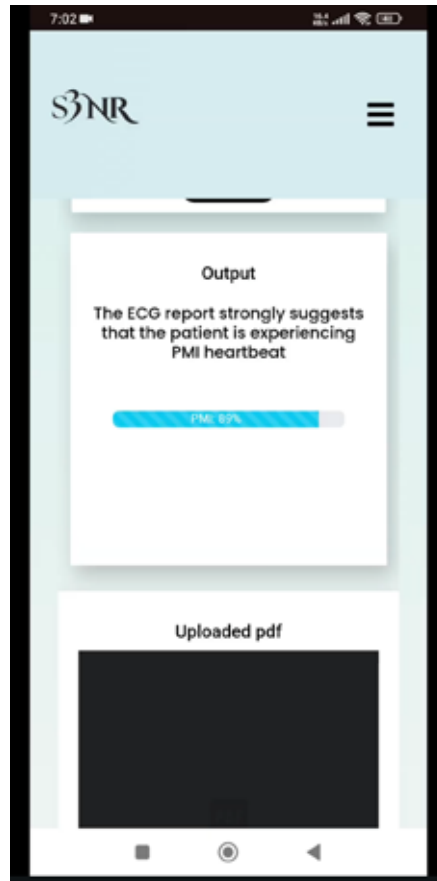
Title of the Project
"SiTAR" (SIMULATION TOOL FOR ARCHITECTURAL RESEARCH) AN OPEN-SOURCE SIMULATION FRAMEWORK
Unique Registration Number: GSInC-002336

Name of Applicant/s

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Project Objective:

1. Develop an open-source, well-documented, and modular simulation framework to support the modeling and simulation of synchronous discrete-event systems, incorporating a domain-specific system-level modeling language and a novel approach for efficient parallel simulation on multi-core systems. The framework is targeted to support a wide range of use cases in computer architecture exploration, modeling various synchronous systems such as multi-core processors and computer networks.

2. Foster academic and industrial adoption by promoting the framework's use in research, teaching, and curriculum development, while also exploring commercial collaborations; indirectly contributing to India's strategic goal of self-reliance in electronics and system design.

Abstract:

This project involves the development of Sitar (Simulation Tool for Architectural Research), an open-source software framework for high-performance modeling and parallel simulation of synchronous discrete-event systems. Targeted application domains include multi-core processors, on-chip communication networks, computer networks, and synchronous VLSI systems. It has been developed over several years and recently released as open-source at (https://sitar-sim.github.io/sitar/) and published [1][2]. Sitar consists of a domain-specific system description language and a cycle-based simulation kernel employing a novel two-phase execution approach. This design enables efficient parallel simulation on multi-core systems, addressing a key bottleneck in architecture exploration—simulation speed.

Compared to conventional event-driven frameworks, Sitar offers significant speedups in scenarios involving synchronous system behavior. Parallelizing simulation on multi-core hardware is a technically challenging problem and remains a central focus in simulation research. Sitar addresses this by offering a scalable execution model suited for shared-memory systems. Its open-source implementation facilitates adoption in both academia and industry.

[1] N. Karanjkar and M. Desai, "Sitar: A Cycle-based Discrete-Event Simulation Framework for Architecture Exploration," Proceedings of the 12th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2022), Lisbon, Portugal, pp. 142–150, July 2022. ISBN: 978-989-758-578-4. [Best Paper Award].

[2] N. Karanjkar, M. Desai, A. Kushe, and A. Natekar, "Efficient Parallel Simulation of Networked Synchronous Discrete-Event Systems," Proceedings of the INFORMS Winter Simulation Conference (WinterSim 2024), Orlando, Florida, USA, pp. 2214–2225, Dec. 2024. ISBN: 979-8-331-53420-2

Project Outcome/ Result/ Finding:
The developed framework has been released as open-source with an MIT-licence, in a well-documented manner at: https://sitar-sim.github.io/sitar/ with the source code available at https://github.com/sitar-sim/sitar 2. Conference Publication (won the Best Paper Award): [1] 3. Conference Publication at INFORMS Wintersim 2024, a top-rated conference in the simulations area: [2]

Innovative Approach:
Parallel simulation of synchronous discrete-event systems—commonly used to model complex systems such as multi-core processors and communication networks—is a well-known challenge due to race conditions and inter-component dependencies. the approach and the open-source framework (Sitar) we have developed, introduces a novel two-phase, cycle-based simulation algorithm, enabling deterministic and efficient execution. The framework constrains models to the "communicating Moore-type" class, which allows the model to be safely partitioned into multiple concurrent components, which can be simulated in parallel on shared-memory multi-core systems without requiring the overhead of complex synchronization mechanisms. The innovation in our work lies in the approach and its full, well-documented and open-source implementation.

Photos of the Project/Model:

Photograph 5.10 : "SiTAR" (SIMULATION TOOL FOR ARCHITECTURAL RESEARCH)

AN OPEN-SOURCE SIMULATION FRAMEWORK

Title of the Project
VERTICAL FLOW CONSTRUCTED WETLANDS BASED DECENTRALIZED WASTEWATER TREATMENT SYSTEMS
Unique Registration Number:

Name of Applicant/s
Srikanth Mutnuri

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Project Objective:
The project aims to develop decentralized wastewater treatment systems using vertical flow constructed wetlands and electrochemical disinfection technology. These solutions focus on sustainable, low-cost, and efficient water management to address critical challenges in sanitation and environmental conservation.

Abstract:
The innovations developed by Prof. Srikanth Mutnuri, namely the vertical flow constructed wetlands (VFCW) and the electrochemical disinfection system, are critical to achieving Sustainable Development Goal 6 (Clean Water and Sanitation) and the Swachh Bharat Mission. These pioneering technologies address the urgent need for sustainable and efficient water and wastewater management solutions.

The VFCW system, with its low-cost and low-energy approach, leverages natural processes to treat wastewater. By utilizing soil, gravel, and vegetation as bio-filters, this system effectively removes contaminants, pathogens, and nutrients, rendering the water safe for reuse or discharge. This innovation is particularly impactful in regions with limited access to conventional wastewater treatment facilities. Its scalability, demonstrated through installations in single households and a student hostel, highlights its adaptability to various settings, making it a versatile and environmentally friendly solution.

On the other hand, the electrochemical disinfection system represents a groundbreaking advancement in water purification technology. This system generates disinfectants in situ through an electrochemical process, ensuring the elimination of pathogens and safe

drinking water. Its effectiveness has been showcased in diverse environments, including public locations like Bogmalo beach, Cujira school complex, Madgaon wholesale fish market, and an open Nallah in Hubli. This decentralized water treatment technology is especially valuable for areas where traditional methods are impractical or too costly.

The societal impact of these innovations is profound. They contribute significantly to water conservation and the protection of ecosystems, ensuring access to clean water and improved sanitation. By addressing critical environmental challenges, Prof. Mutnuri's technologies support public health and well-being, aligning with the goals of the Swachh Bharat Mission to promote cleanliness and hygiene across India. These innovations not only meet immediate needs but also set the stage for future advancements in sustainable water management, promising a cleaner and healthier future for communities.

Project Outcome/result/findings:
The project successfully demonstrated scalable and sustainable water management solutions. The vertical flow constructed wetlands treated wastewater effectively, while the electrochemical disinfection system ensured pathogen-free water, enhancing public health. Implemented across diverse settings, these innovations contributed to cleanliness, ecosystem protection, and aligning with global sustainability goals, particularly SDG 6 and Swachh Bharat Mission objectives.

Innovative Approach:
The project employed innovative, decentralized methods for water management. The vertical flow constructed wetlands utilize natural filtration with minimal energy, while the electrochemical disinfection system generates disinfectants on-site, ensuring pathogen elimination. Both systems are adaptable, cost-effective, and sustainable, addressing critical challenges in wastewater treatment and improving access to clean water in diverse settings.

5.6 LAUNCH OF TOOL KIT ON INTELLECTUAL PROPERTY RIGHTS (IPR)

The Goa State Innovation Council (GSInC) released a comprehensive Tool Kit on Intellectual Property Rights (IPR) today, aimed at promoting awareness and understanding of IPR among aspiring innovators, startups, and students across Goa. The toolkit was officially launched at the hands of Hon'ble Minister for Science & Technology, Shri Atanasio Monserrate, in the presence of Shri Jose Manuel Noronha, Chairman of GSInC, and Shri Ankit Yadav, IAS, Director, Department of Science, Technology & Waste Management (DST&WM), Government of Goa.

GSInC has been at the forefront of nurturing innovation and entrepreneurship in the state by instilling a scientific temperament, especially at the grassroots level. The Council has actively reached out to schools and colleges, inspiring young minds to explore and develop innovative solutions to real-world problems.

As part of its initiatives, GSInC has established a state-of-the-art Rapid Prototyping Lab equipped with cutting-edge tools and technologies. The Council has mentored 106 projects till March 2023, out of which 79 projects are currently in the prototyping stage, and 21 provisional patents have been filed. In its outreach journey, GSInC has directly interacted with over 49,441 individuals. During these engagements, a recurring gap in awareness about Intellectual Property Rights among innovators was identified.

The toolkit was officially launched at the hands of Hon'ble Minister for Science & Technology, Shri Atanasio Monserrate, in the presence of Shri Jose Manuel Noronha, Chairman of GSInC, and Shri Ankit Yadav, IAS, Director, Department of Science, Technology & Waste Management (DST&WM), Government of Goa.

Speaking on the occasion, Hon'ble Minister Shri Atanasio Monserrate emphasized the importance of innovation in Goa's development vision and the pivotal role of IPR in securing the rights of creators and innovators. The newly released IPR Toolkit is a part of GSInC's ongoing efforts to strengthen Goa's innovation ecosystem and position the state as the next startup hub of India. Students, startups, innovators, research faculty, and entrepreneurs are encouraged to make use of this valuable resource to innovate, conceptualize, and scientifically shape their ideas while safeguarding their intellectual assets.

PHOTOGRAPH 5.11: THE GOA STATE INNOVATION COUNCIL (GSINC) HAS OFFICIALLY LAUNCHED A TOOL KIT ON INTELLECTUAL PROPERTY RIGHTS (IPR) TO EMPOWER STUDENTS, STARTUPS & INNOVATORS WITH ESSENTIAL IP KNOWLEDGE. UNVEILED BY HON'BLE MINISTER FOR SCIENCE & TECHNOLOGY, SHRI ATANASIO MONSERRATE, IN THE PRESENCE OF SHRI JOSE MANUEL NORONHA (CHAIRMAN, GSINC) & SHRI ANKIT YADAV, IAS (DIRECTOR, DST&WM)
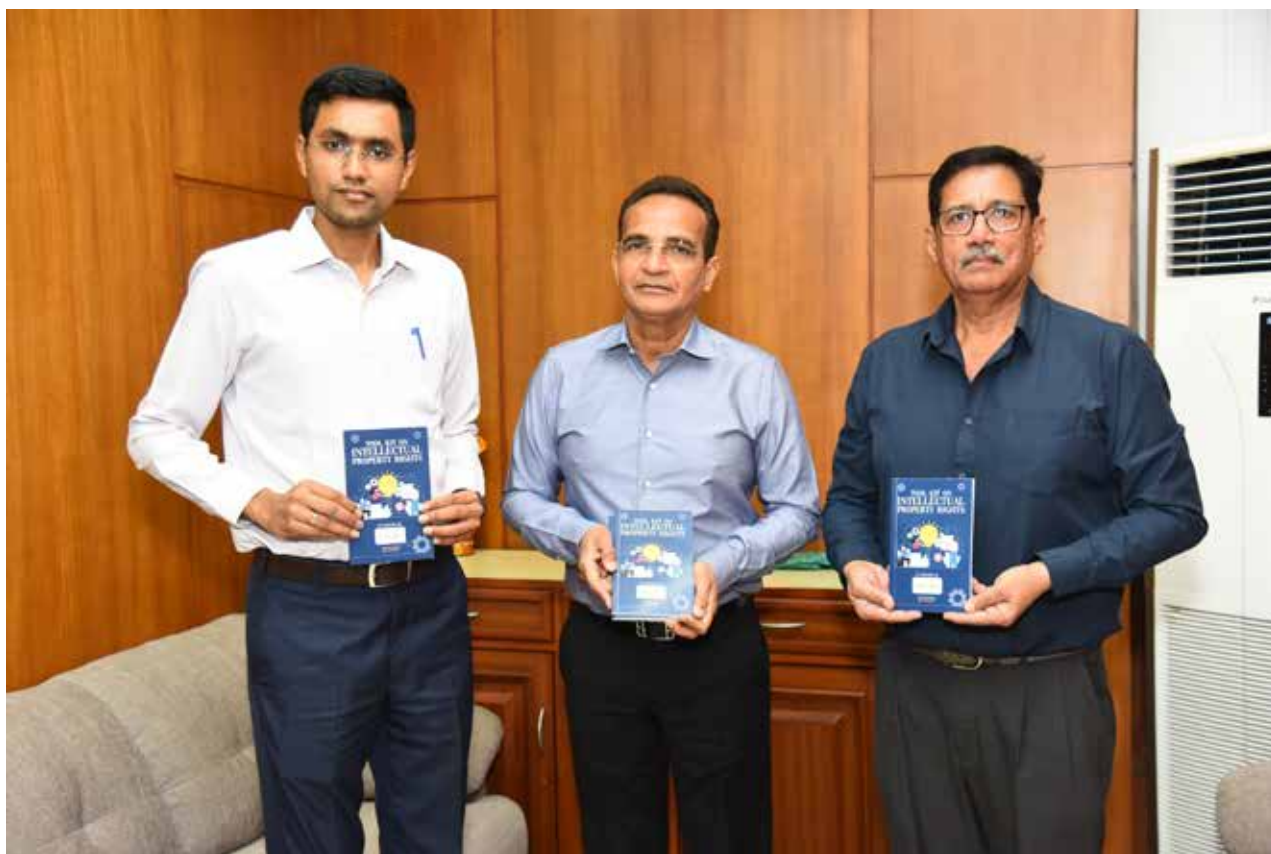
CHAPTER 06
RAPID PROTOTYPING LAB

CHAPTER 06
RAPID PROTOTYPING LAB

6.1 INTRODUCTION

Prototyping Lab: Transforming Ideas into Reality

Innovation thrives where ideas meet execution, and the Goa State Innovation Council (GSInC) Prototyping Lab stands as a testament to this belief. Designed as a cutting-edge facility, the lab provides aspiring innovators, entrepreneurs, and researchers with the tools, expertise, and environment needed to bring their concepts to life. By bridging the gap between ideation and tangible prototypes, GSInC empowers individuals to experiment, refine, and perfect their innovations, setting the stage for groundbreaking solutions.

Equipped with state-of-the-art prototyping tools such as 3D printers, CNC machines, laser cutters, and precision hand tools, the lab serves as a hub of creativity and technical excellence. More than just a facility, it is a dynamic space where students, startups, and industry professionals collaborate, experiment, and push the boundaries of possibility. Expert mentors guide users through every stage of development, from design and material selection to fabrication and functional testing, ensuring that every prototype is a step closer to real-world application.

The GSInC Prototyping Lab is more than just an incubator for new ideas—it is a catalyst for entrepreneurship and industrial advancement in Goa. By providing access to cutting-edge technology, structured guidance, and a collaborative innovation ecosystem, the lab nurtures problem-solvers and future-ready thinkers. Whether it's a student envisioning the next breakthrough, a startup refining a product, or an entrepreneur testing market viability, the Prototyping Lab stands as a vital resource for transforming bold ideas into impactful realities.

Benefits of the Prototyping Lab

The Goa State Innovation Council (GSInC) Prototyping Lab is more than just a workspace—it is a launchpad for transformative ideas. By providing cutting-edge tools, expert guidance, and a structured environment for experimentation and iteration, the lab helps innovators refine their concepts and accelerate their journey from vision to reality.

Key Advantages of the Prototyping Lab:

- Validating Product Concepts – By creating tangible prototypes, innovators can test and validate their ideas, ensuring that their designs are practical, functional, and market-ready.

- Optimizing Cost & Time Efficiency – The lab's resources and mentorship streamline the prototyping and testing process, reducing development costs and significantly cutting time-to-market for new products and solutions.

- Customization & Precision – Innovators have the flexibility to tailor their prototypes to meet specific requirements, ensuring that their final product is fine-tuned for optimal performance and usability.

- Enhancing Design Integrity – Through iterative prototyping, innovators can identify and rectify design flaws early, resulting in stronger, more reliable, and user-centric solutions.

GSInC welcomes students, startups, entrepreneurs, researchers, and innovators to explore the possibilities within its fully-equipped Prototyping Lab. It is a space where imagination meets execution, ideas transform into reality, and the spirit of innovation finds its true expression.

PHOTOGRAPH 6.1: PROMOTIONAL BROCHURE OF GOA STATE INNOVATION COUNCIL

PROTOTYPING LAB

The Rapid Prototyping Lab is established at Don Bosco College of Engineering, Fatorda by the Goa State Innovation Council to provide innovators from all walks of life with the necessary infrastructure to transform their ideas into tangible models or prototypes.

The Prototyping Lab provides students and makers with a safe, well-equipped, and knowledgeable staff environment in which they can explore how traditional, contemporary, and emergent processes of making advance design. Learners of all backgrounds and capacities can leverage the facility's comprehensive collection of tools and equipment, training and skill-building sessions, and professional staff available to provide support and guidance on the safe and effective use of the resources, as well as design thinking and fabrication strategies.

TECHNOLOGY AT RAPID PROTOTYPING LAB

- Laser Cutting
- Soldering Station
- Drone Manufacturing
- AR/VR
- 3D Printing (FDM & SLA)
- Desktop Vaccum Forming
- Robotics / IOT
- 3D Designing Centre

Workshops Conducted
286

Total Visitors
10,340

SCHEMES

PROVISIONAL PATENT GRANT
RS 10,000/-
An applicant under this scheme shall be eligible for a support of up to Rs. 10,000/- for filing a provisional patent application through the aforesaid patent agents/ firms.

PROTOTYPING GRANT
RS 20,000/-
An applicant under this scheme shall be eligible for a grant of up to Rs. 20,000/- per hardware based project.

SCHEME TO ENCOURAGE INNOVATIVE STUDENT PROJECTS
RS 50,000/-
Scheme to encourage students for innovative projects to make it affordable for students who require the necessary financial support in converting Innovative Ideas into projects.

GOA RAJYA VIDNYANIK PURASKAR (GRVP)
RS 2,00,000/-
Goa Rajya Vidnyanik Puraskar (GRVP) is an award established by the Government of Goa, through the Department of Science & Technology and Waste Management. This initiative aims to identify and honor innovators or scientists who have transformed their ideas into innovations that are positively impacting lives around the globe.

HOW TO APPLY?

To apply for the scheme, Innovators must complete the online application at www.goastateinnovationcouncil.com. Sign up under Virtual Innovation Register (VIR) as a new idea.

6.2 LIST OF EQUIPMENTS

TABLE NO. 6.2: LIST OF EQUIPMENTS AT RAPID PROTOTYPING LAB

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
		POWER TOOLS	
1	Professional Angle Grinder	Bosch GWS 600 Professional Angle Grinder Disc Diameter 100 mm Grinding Spindle Thread M 10 No Load Speed (rpm) 12000 rpm Rated power input 660 W Width (millimetre) 263 mm Height (millimetre) 95 mm Weight (kilograms) 77 mm Weight 1.5 kg	BOSCH
2	Circular Saw	Bosch GKS 7000 Circular Saw Rated Power Input 1,100 W No-Load Speed 5.200 rpm Weight 3.6 kg Saw Blade Bore Diameter 20 mm Saw Blade Diameter 184 mm Cutting Depth (90°) 65 mm Cutting Depth (45°) 47 mm	BOSCH
3	Smart Drill Kit	Bosch Impact Drill 1G GSB 13 RE Kit, 600 W ,Voltage: 230v Impact Drill GSB 13 RE Kit Voltage 230v No Load Speed 0 - 2800 rpm Item Weight 1.6 kgs Power Consumption 600 W Minimum Order Quantity 1 Piece	BOSCH
		ESSENTIAL TOOLS	
4	JUNIOR HACKSAW	Size: 6 inch	STANLEY
5	SCREW DRIVER SET	4pc Screw Driver set: PH1x450, PH2x450mm, 5x450mm, 6x450mm, chrome vanadium steel shaft, chrome plated Ergonomically designed ABS plastic grip handle	STANLEY
6	MICRO CHISEL SET	Set of 12 Tools for Wood-Carving. Quantity: 12 Tools; Size: 13.5 x 1 cm each (approx.); Material: Steel Blades with Wooden Handles	STANLEY

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
7	PLIER SET	PLIER SET - Combination Plier, Needle Nose Plier and Lockin Plier.	STANLEY
8	Hammer set	1 Mallet Hammer, 1 Claw Hammer and 1 Ball peen Hammer	STANLEY
9	c clamp	Material: Steel Colour: Red and Silver Dimensions : 4" Package Content: 3 C or G Clamps	STANLEY
10	c clamp	Material: Steel Colour: Red and Silver Dimensions: 8" Package Content: 3 C or G Clamps	STANLEY
11	Hardened Metric Allen Key Set	Hardness: 52 to 56 HRC(Scientifically hardened) The Allen Keys are Precision Drawn for perfect matching of Allen keys with the screw head Black Allen Keys are specially coated and oiled for rust prevention TAPARIA Allen Keys generally Conform to I.S. 3082 2008 Set Size: Set of 9	STANLEY
12	COMBINA-TION SPAN-NER	12 PCS COMBINATION SPANNER SET 6-22MM. CHROME VANADIUM STEEL COMBINATION SPANNER SET 6-22 MM CONSIST OF 12 Pcs 6-7-8-9-10-11-12-13-14-17-19-22	STANLEY
13	30 Pc Rache-ting Screwdriver set	Package Contains: 30 Pcs, ratcheting screw driver set	STANLEY
14	Baby Vice Clamp	Size (L x B x H): 15.2 cm x 6 cm x 15 cm, Jaw width 60 mm, Jaw opening 70 mm Portable- Can be taken along and used anywhere Net Weight 1.2 KG. Type 60 Mm	STANLEY
15	Swastik Stainless Steel Adjust-able Spanner Wrench (8 Inches)	Material: Stainless Steel, Colour: Black Item Dimension: 21 cm x 11 cm x 9 cm Precision marked scale indicate correct jaw open-ing Heat treated adjustable chrome finish spanner Package Contents: 1 Piece Adjustable Spanner	STANLEY

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
16	Hot Melt Glue Gun	power input - 220-240V AC, 50Hz	STANLEY
17	Measuring Tape 5 meters	Material: Plastic and Aluminium Colour: Grey and Blue Size (L x B x H): Tape: 9 cm x 3 cm x 7 cm; Level: 3 cm x 3 cm x 5 cm Included Components: 1 Spirit Level & 1 Measuring Tape	STANLEY
18	Digital Tester	Direct Detection: 12V - 220V AC/DC live objects through LCD display.	STANLEY
19	Digital multimeter	Jaw Size: 50mm or 2.0 inch Tests AC or DC voltage, AC current and resistance Diode check and continuity test ,Data hold Fuse and Diode Protection and Voltage Measurement Includes carry case and 9v battery Multimeter Ammeter tester	STANLEY
20	46 In 1 Pcs Tool Kit & Screwdriver and Socket Set	1/4 Inch Socket Combination 46 Pcs Set Diy Repair Tool Kit Model:2462 is suitable for Professionals, technicians . The multi function drilling machine can be used to make holes on walls, concrete, metal, wood and plastic. Fix your picture frames, paintings, hangers, lighting etc. without any hassles.	STANLEY

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
		PRINTER	
1	Flashforge Adventurer 3 3D Printer	Print Technology Fused Filament Fabrication (FFF), Fused Deposition Modeling (FDM) File Format Supported STL Connectivity USB, Wifi, Ethernet Build Size (L*W*H Inches) 150L x 150W x 150H mm Condition New Weight (Kg) 9kg Filament Diameter 1.75mm Resolution 0.1mm-0.3mm (Adjustable) Automatic Grade/Machine Type Automatic Colour White Extruder Quantity 1 Layer Thickness 0.1mm-0.3mm (Adjustable) Nozzle Temperature 245 degree celcius Operating System Windows 7/10/Mac OS X,Linux Printing Technology Fused Deposition Modelling Technology Fused Deposition Modelling Color White Brand Flashforge Warranty 1 Year Material Polyamide (PLA), Nylon, ABS, Polypropylene (PP) Print Accuracy 0.1mm-0.3mm (Adjustable) Software Supporting FlashPrint Product Dimension 388 x 380 x 405mm Heated Bed Temperature Upto 100 degree celcius	Flashforge
2	Ender 6	Build Size - 250 x 250 x 400 mm Technology - FDM Nozzle Diameters - 0.4mm Max. Nozzle Temp - 260°C Max. Print Bed Temp - 110°C Printing Materials - PLA, TPU, ABS,PETG,CF Supported files - STL, OBJ, G-Code Machine size - 495 x 495 x 650 cm	Creality

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
3	Sermoon D1	Printing Size - 280*260*310mm Molding Tech - FDM Slice Thickness - 0.1mm-0.4mm Nozzle Diameter - Standard 0.4mm *7820.4mm Precision - +0.1mm Filament - PLA File Format - STL/OBJ/AMF File Transfer - USB/Storage card Slice Software - Reality Slicer/Cura/Repeti-er-Host/Simpli-fy3D Bed Temp - <100°C Nozzle Temp - <260°C Speed - <180mm/s,Normal|E30-60mm/s	Creality
4	Creality CR10 Max	Printing Size - 250*250*400mm Molding Tech - FDM Slice Thickness - 0.1mm-0.4mm Nozzle Diameter - Standard Precision - +0.1mm Filament - 1.75mm PLA File Format - STL/OBJ/AMF Slice Software - Reality Slicer/Cura/Repeti-er-Host/ Simplify3D Bed Temp - <100°C Nozzle Temp - <260°C Printing Speed - 120-150mm/s	Creality
5	Creality Ender 3 Pro	Build Size - 220*220*250mm Technology - FDM Nozzle Diameters - 0.4mm Max. Nozzle Temp - 255°C Max. Print Bed Temp - 110°C Printing Materials - PLA, TPU, ABS Supported files - STL, OBJ, G-Code Machine size - 440*410*465mm	Creality
6	Creality Ender 3 Pro		
7	Mayku Forming Machine	Products Type - Blister Materials Applicable - HIPS Automation Grade - Semi-Automatic Max Forming Depth - 120-150 mm Max Forming Area - 220 by 220 mm	Creality

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
8	Creality Ender 3 V2	Build Size - 220*220*250mm Technology - FDM Nozzle Diameters - 0.4mm Max. Nozzle Temp - 260°C Max. Print Bed Temp - 100°C Printing Materials - PLA, TPU, ABS,PETG Supported files - STL, OBJ, G-Code Machine size - 475*470*620mm	Creality
9	Creality Ender 3 V2		
10	Creality Ender 3 V2		
11	Ender 3 S1 PRO	Build Size - 220 x 220 x 270 mm Technology – FDM Nozzle Diameters - 0.4mm Max. Nozzle Temp - 300 °C Max. Print Bed Temp - 110°C Printing Materials - PLA, TPU90-95, ABS, PA Supported files - STL, OBJ, AMF Machine size - 490 x 455 x 625 mm	Creality
12	3D Pen-Camin	Product Dimension – 13 x 22 x 8 cm ; 260g Item Height – 08 cm Item Width- 22 cm Printing Materials- PLA, ABS Max. Nozzle Temp- 230 °C	CaminPVT
13	3D Pen-Camin		
14	3D Pen-Camin		
12	Halot Mega	Printing Technology- LCD MSLA Machine Dimensions- 58.42 x 13 x 10 cm; 13Kg Material - Lcd Resin - 405nm resin LCD screen - 10.3" monochrome screen	Creality

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND
LASER CUTTING MACHINE			
1	9060-80W Laser Cutting /Engraving Machine	Laser Type: Hermetic and Detached Co2 Laser Tube Laser Power: 80W Voltage: AC 220V 50Hz Moving System 5 Inch Offline Display, Offline Stepping Motor System Cutting Area: 900 mm X 600 mm Cutting Table: Honeycomb and Aluminous Strip Panel Double Face Working Table Engraving Speed: 50000 mm/min. Repeating: Location Less than 0.05 mm	
DRONE			
1	DJI tello	Dimensions: 98×92.5×41 mm Weight: Approximately 80 g 720p Live View Max Flight Distance: 100m Max Speed: 8m/s Max Flight Time: 13min Max Flight Height: 30m Photo: 5MP Format: JPG(Photo),MP4(Video)	DJI

SR NO	LIST OF EQUIPMENT	DESCRIPTION	MAKE/ BRAND

2	Phantom 4 Pro V2.0	Dimensions:
		Weight (Battery & Propellers Included): 1375g
		
		Max Flight Distance: 19685 ft (6000 m)
		
		Max Speed: S-mode: 45 mph (72 kph)
		               A-mode: 36 mph (58 kph)
		               P-mode: 31 mph (50 kph)
		Max Flight Time: 30 minutes
		Photo: 20MP
		Photo Format: JPEG, DNG (RAW), JPEG + DNG
		Video Format : MP4/MOV (AVC/H.264; HEVC/H.265)
		Supported SD Cards: microSD
		Max Capacity: 128 GB
		Write speed ≥15MB/s, Class 10 or UHS-1 rating required
			DJI

		SOLDERING STATION	
1	Soldering Station	Weight: 1.80kg Dimensions size: 210x125x135mm Power supply voltage: 230V (220-240v) /50Hz Electronic iron power: 48W Regulation range of temperature: 150°C to 450°C	

6.3 PROTOTYPES BUILT AT PROTOTYPING LAB

Leveraging the state-of-the-art prototyping lab at Goa State Innovation Council, industrious innovators built 13 new prototypes this financial year. Armed with imagination and a steely determination, these innovators, working with the prototyping lab staff, gave shape to their ideas by using cutting-edge tools at the lab. The various 3-D printing machines of differentiating capabilities present at the prototyping lab helps inventors develop complex designs, components, and models with ease and speed, helping their innovation come to life.

TABLE NO: 6.2 LIST OF PROTOTYPES BUILT AT PROTOTYPING LAB

SR NO	TITLE OF THE PROJECT
1	Build Gates: DIY Digital Electronics Learning Kit
2	AI Based Exam Paper security with Real Time Question Generation
3	Over height and crash barrier detection System
4	Salsorb: Biosorbent- based Packed Bed Column
5	Team Phoenix Soccer Bot 1
6	Team Phoenix Soccer Bot 2
7	Robotic Bots
8	Smart Line Following Robot for Efficient Path Navigation
9	Team Phoenix Soccer Bot 3
10	Taycan Drone
11	3lb Horizontal Spinner Combat Robot
12	Design and Fabrication of Aftermarket Rear Wiper Module for Vehicles
13	Robotech: Making Home Management Effortless
14	Fire Fighting Robot
15	Signal and Barricate Project
16	Quiz Buzzer System
17	NexVision

PROTOTYPE 01
Title of the Project
Build Gates: DIY Digital Electronics Learning Kit

Name of Applicant/s

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Name of Mentor:

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Sansrujan Information Technology, Marcel

Prof. Vilma Fernandez (Technical Mentor) (+91 83780 11997)

St. Xavier's College, Mapusa-Goa

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Contact Number: +91 96379 34905

Contact Email ID: buildhedutech.info@gmail.com

Project Objective:

The objective of the Build Gates: DIY Digital Electronics Learning Kit is to enhance practical electronics learning by providing an accessible, easy-to-use kit that teaches students and enthusiasts the fundamentals of digital electronics through hands-on experience with logic gates and circuits.

Abstract:

Build H is an ed-tech startup focused on enhancing practical-based learning through innovative tools and technologies in robotics, AI, and education. With a mission to transform learning environments, Build H aims to make education more interactive and accessible.

Build Gates: DIY Digital Electronics Learning Kit is an innovative educational product designed to make the study of digital electronics engaging and accessible for learners of all ages. This hands-on kit empowers students to explore fundamental concepts of logic gates and digital circuits through interactive, experiential learning. By using modular logic gate blocks, users can easily construct various circuits, test their hypotheses, and visualize the outcomes in real time, thus fostering a deeper understanding of electronic principles. The kit is thoughtfully designed with inclusivity in mind, featuring Braille letters embedded

on the blocks, making it suitable for visually impaired individuals. Each block is equipped with user-friendly interfaces, including an LCD screen that displays circuit status and outputs, and a buzzer that provides audio feedback, enhancing the learning experience. The modular nature of the blocks allows for endless combinations, encouraging creativity and experimentation as students can build complex circuits with ease.

Build Gates is ideal for a wide range of users, including school students, hobbyists, and educators seeking to enhance their teaching methodologies. It serves as a valuable resource in classrooms, robotics clubs, and home learning environments, enabling learners to grasp the principles of electronics in a hands-on manner. By integrating technology with education, Build Gates not only helps demystify digital electronics but also cultivates critical thinking, problem-solving skills, and a passion for STEM fields. This innovative kit represents a significant step towards making electronic education more interactive, inclusive, and engaging.

Project Outcome/ Result/ Finding:

The Build Gates kit successfully enables users to understand digital electronics by providing practical, real-world experience. It fosters active learning, making abstract concepts tangible. The kit has been tested with students, and feedback indicates improved comprehension of digital circuits and logic gates. Additionally, it encourages collaboration and experimentation in educational settings.

Currently, the product is in the prototyping stage, with the outer shell design representing a significant innovation.

Innovative Approach:

The Build Gates kit features several innovative aspects that enhance its educational value:
- Modular Design: The kit's modular construction allows users to easily assemble and disassemble logic gate blocks, facilitating personalized learning experiences.
- Visual Representation: Each component provides a clear visual representation of digital circuits, helping users better understand complex concepts.
- Interactivity: The hands-on nature of the kit encourages active participation, allowing learners to experiment with various configurations and observe real-time results.
- Educational Purpose: Designed with educational objectives in mind, the kit effectively teaches the fundamentals of digital electronics through practical application.
- Customizable Layout: Users can create their own unique circuit layouts, promoting creativity and critical thinking in problem-solving.
- Real-World Circuit Simulation: The kit simulates real-world circuit scenarios, making the learning process relevant and applicable to everyday technology.

- Braille Embedding for Accessibility: The integration of Braille on the blocks ensures that the kit is inclusive and accessible for visually impaired learners, fostering an equitable learning environment.

Team Participation in National Event:

With our product, the team participated in the nationals of the WSRO (World STEM and Robotics Olympiad) in the Entrepreneurship Challenge Competition category. After securing 3rd place at the regionals, we advanced to the national event held at Ahmedabad Science City, Vigyan Bhavan. In this category, 20 teams from across India competed.

Our product was displayed and made available for both students and professionals to use. The feedback we received provided valuable insights, which will be used to further enhance and refine the product.

Photos of the Project/Model:

Photograph 6.2: Build Gates: DIY Digital Electronics Learning Kit

PROTOTYPE 02
Title of the Project
AI Based Exam Paper security with Real Time Question Generation

Name of Applicant/s

Bhikaji Gawade (+91 96379 34905/ bhikajigawade1333@gmail.com)

Name of Mentor:

Mr. Shounak Deshpande (Team Mentor)

(+91 73505 85004/ shounakdeshpande@sansrujan.in)

Sansrujan Information Technology, Marcel

Address:Calangute, Bardez, Goa - 403516

Contact Number: +91 96379 34905

Contact Email ID: buildhedutech.info@gmail.com

Project Objective:

The primary objective of the "AI-Based Exam Security with Real-Time Exam Paper Generation" project is to enhance the integrity and security of examinations by implementing an AI-driven system that generates unique questions in real-time on exam day, effectively preventing paper leaks. This project aims to streamline the preparation process for exam setters by allowing easy upload of educational materials and customizable parameters for tailored question generation. Additionally, it seeks to foster student engagement through an interactive examination experience that ensures fairness, while providing comprehensive post-exam feedback to help students identify areas for improvement and enhance their learning outcomes. Ultimately, the system is designed to adapt to various assessment formats, including semester exams, practice tests, and competitive exams, revolutionizing the examination landscape and promoting academic integrity.

Abstract:

We all know that paper leaks in exams, especially in India, are a big problem. A recent example is the NEET paper leak scam. These leaks happen because the exam papers are already set and can be accessed before the exam. To solve this, I have come up with an idea called "AI-Based Exam Security with Real-Time Exam Paper Generation."

Here's how it works:

1. Data Upload and AI Setup: First, the exam setter uploads all the necessary materials into the AI model. This includes the textbook, notes, previous years' question papers, and other required materials. They also provide details like the paper title, weights of different sections, difficulty levels, and other parameters.

2. Exam Day - Real-Time Question Generation: On the day of the exam, students sit at the system, log in, provide their details, and start answering the questions. The AI generates questions on the spot based on the information given in Level 1. This way, the questions are created in real-time as the students take the exam, making it impossible for the paper to leak.

3. Result Declaration and Feedback: After the exam, the AI generates a detailed report for each student. It tells them their score, which parts they lost marks on, what their weak topics are, and gives tips on how to improve. For example, if a student scores 7 out of 10, the AI will focus on the lost 3 marks and guide the student on how to improve in those areas.

This idea can be used for various exams like semester exams, practice tests, supplementary exams, and competitive exams like NEET, JEE, and GATE, where paper leaks are a major issue. This AI-based system will help prevent paper leaks and give students useful feedback to improve their performance.

Project Outcome/ Result/ Finding:
The "AI-Based Exam Security with Real-Time Exam Paper Generation" project yielded significant outcomes, including enhanced exam security through the real-time generation of unique questions, effectively preventing paper leaks and promoting a fair testing environment. Students experienced increased engagement and reduced anxiety during exams, while educators appreciated the streamlined process for uploading materials and customizing assessments. The system provided comprehensive performance feedback, helping students identify areas for improvement and guiding their study efforts.

Additionally, the AI solution demonstrated adaptability across various exam types, including semester exams and competitive assessments like NEET and JEE, ensuring its relevance in diverse educational contexts. Data analysis revealed common student difficulties, allowing for targeted curriculum improvements, ultimately revolutionizing the examination experience and fostering academic integrity.

Innovative Approach:

The "AI-Based Exam Security with Real-Time Exam Paper Generation" project introduces an innovative approach by utilizing dynamic real-time question generation, allowing the AI to create unique exam questions on-the-spot for each student, thereby eliminating the risk of paper leaks and ensuring fairness in assessments. It incorporates data-driven customization, enabling exam setters to upload educational materials and define parameters such as question weightage and difficulty levels, ensuring alignment with specific learning objectives. The project features a comprehensive feedback mechanism that provides detailed performance reports to student's post-examination, highlighting areas for improvement and encouraging targeted study efforts. With its user-friendly interface and versatile application across various exam formats, including semester and competitive exams like NEET and JEE, the system is designed to enhance exam integrity while continually learning from performance data to adapt and improve future assessments.

Photos of the Project/Model:

Photograph 6.3: AI Based Exam Paper security with Real Time Question Generation

PROTOTYPE 03
Title of the Project
Over height and crash barrier detection System

Name of Applicant/s

Mr Joshua Lenox Fernandes

Name of Mentor:

Sir Francisco Fernandes

Name of School/College/Startup/Organisation:

Holy Spirit Institute, Margao

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Contact Number: 9689156453

Contact Email ID: hsimarg62@rediffmail.com

Project Objective:

To detect over-height vehicles and crash barriers

Abstract:

In recent times accidents are on a rise in Goa and hence this system will detect and give the signal if the vehicle is over height and also if there is any barrier infront it will be detected.

Project Outcome/ Result/ Finding:

Won 1st place at All Goa Road Safety week organised by Directorate of Transport

Innovative Approach:

It is based on sensors

Photos of the Project/Model:

Photograph 6.4: Over height and crash barrier detection System

PROTOTYPE 04
Title of the Project
Salsorb: Biosorbent- based Packed Bed Column

Name of Applicant/s

Isha Desai, Zia Ali, Sravani Dessai, Shaiesh Morajkar

Name of Mentor:

Dr. Shaiesh Morajkar

Name of School/College/Startup/Organisation:

CES Parvatibai Chowgule College of Arts and Science

Address: Gogol, Margao-Goa

Contact Number: 9673975099

Contact Email ID: shaiesh119211@gmail.com

Project Objective:

To design and develop a lab scale Packed Bed Column for heavy metal remediation

Abstract:

Salsorb is a Biosorbent based Packed Bed Column utilising Salvinia molesta pinnae biomass for heavy metal remediation. It is an environment friendly and cost-effective alternative to the conventional remediation technologies. It finds application in research laboratories working with heavy metal, workshops and small-scale industries.

Project Outcome/ Result/ Finding:

Preliminary qualitative and quantitative results gave positive results for adsorption of heavy metals by pinnae biomass

Innovative Approach:

Utilising waste agricultural biomass in a scalable packed bed column for heavy metal remediation

Photos of the Project/Model:

Photograph 6.5: Salsorb: Biosorbent- based Packed Bed Column

PROTOTYPE 05
Title of the Project
Team Phoenix Soccer Bot

Name of Applicant/s

Aurick Pereira

Name of Mentor:

Anish Vadolkar

Name of School/College/Startup/Organisation:

Team Phoenix

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Contact Number: 8767131753

Contact Email ID: aurickpereira@gmail.com

Project Objective:

To compete in Robo Soccer competitions held in various institutions

Abstract:

A 4 wheel drive bot was made that runs on square gear box motors and is controlled by a wireless connection with the help of a transmitter and receiver. The bot is powered by a Lipo Battery and motors are connected to an ESC. Clamps are attached to the front of the bot to guide a ball into a goal in Robo Soccer

Project Outcome/ Result/ Finding:

2nd place at Techyon 2024

1st place at Techfluence 2025

Photos of the Project/Model:

Photograph 6.6: Team Phoenix Soccer Bot 01

PROTOTYPE 06
Title of the Project
Fire Extinguishing Drone

Name of Applicant/s

1) Delwin Marvion Cardozo

2) Shaunak Pokle

3) Sahil Satish Naik

Name of Mentor:

Prof. Shailesh Khanolkar

Name of School/College/Startup/Organisation:

Padre Conceição College of Engineering

Address: H.No. 188/C, Santwaddo, Assolna, Goa - 403701

Contact Number: 7066172999

Contact Email ID: delwincardozo27@gmail.com

Project Objective:

The objective of this project is to design and construct a manually operated fire extinguishing drone equipped with essential sensors and fire suppression mechanisms.

Abstract:

The drone will facilitate rapid response and effective firefighting in hazardous or remote locations, improving safety and operational efficiency. The drone includes sensors like GPS for position hold, thermal cameras to detect if any person is trapped, a powerful search light and a release mechanism to drop fire retardant.

Project Outcome/ Result/ Finding:

Ensures the drone achieves its operational objectives and provides a proof-of-concept for practical deployment.

Innovative Approach:

To use high power electronics and a compact drone that can lift a payload of 4KG with the integration of Thermal Camera along with Autopilot capabilities and a long-range telemetry for a much more reliable aircraft.

Photos of the Project/Model:

Photograph 6.7: Fire Extinguishing Drone

PROTOTYPE 07
Title of the Project
Robotic Bots

Name of Applicant/s

1) Anildev Kamath Sanoor

2) Aditya Ganesh Hegde

3) Piyush Salunkhe

4) Rio Colaco

5) Shaibaz Bagdi

6) Rodwyn Dias

Name of Mentor:

1) Tanay Rege

2) Vedanth Pagi

3) Anish Vadolkar

4) Pratik Borkar

Name of School/College/Startup/Organisation:

Don Bosco College of Engineering Fatorda Goa

Contact Number: 7066172999

Contact Email ID: anildevkamath29@gmail.com

Project Objective:

Design, build, and program a suite of robotic bots that can compete in various challenges, including racing, soccer, sumo wrestling, and line following, with the goal of developing robust, reliable, and efficient robotic platforms that can operate under remote control

Abstract:

We're working on a project to design, build, and program a range of robotic bots that can compete in different challenges, such as racing, soccer, sumo wrestling, and line following. Our goal is to create robust, reliable, and efficient robotic platforms that can be controlled remotely. This project involves designing and building the robots, developing control systems, and programming them to perform specific tasks. The end result will be a set of robotic bots that can compete in various challenges, showcasing their ability to operate effectively under remote control.

Project Outcome/ Result/ Finding:

Students will be able to learn CAD Designing, Manufacturing Building Of Bots, Various Issue of "The Robotic Bots"

Innovative Approach:

The project will demonstrate the potential of robotic bot in a competitive environment such as racing, soccer, sumo wrestling and line follower.

Photos of the Project/Model:

Photograph 6.8: Robotic Bots

PROTOTYPE 08
Title of the Project
Smart Line Following Robot for Efficient Path Navigation

Name of Applicant/s

Pratham Naik

Name of School/College/Startup/Organisation:

Goa College of Engineering, Farmagudi, Ponda-Goa.

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Project Objective:

To build an intelligent line follower robot capable of navigating complex tracks using PID control and analog sensor input for real-time path correction.

Abstract:

This project focuses on the development of a robust and efficient line-following robot using an Arduino Nano microcontroller, TB6612FNG motor driver, and an analog IR sensor array. The robot utilizes a PID (Proportional-Integral-Derivative) algorithm to accurately follow a black line on a white surface. The aim is to simulate industrial automation scenarios, where precision and speed are critical. Additionally, the bot can remember paths during its first run and follow the shortest path in subsequent runs, making it a potential candidate for warehouse or delivery-based navigation systems.

Project Outcome / Result / Finding:

The bot successfully navigates through tracks with turns, curves, T-junctions, and dead-ends. It corrects itself in real time using PID tuning and follows the optimal path on its second run. The implementation proves that low-cost components can be used to create efficient automated systems suitable for educational and prototype-level industrial applications.

Innovative Approach:

- Use of PID control for smooth and precise navigation.
- Path memory system to record decisions and follow the shortest path on subsequent runs.
- Compact design with scalable hardware layout for future upgrades (e.g., maze solving, obstacle avoidance).
- Real-time feedback through buzzer and LED indicators for debugging and status monitoring.

Photos of the Project/Model:

Photograph 6.9: Smart Line Following Robot for Efficient Path Navigation
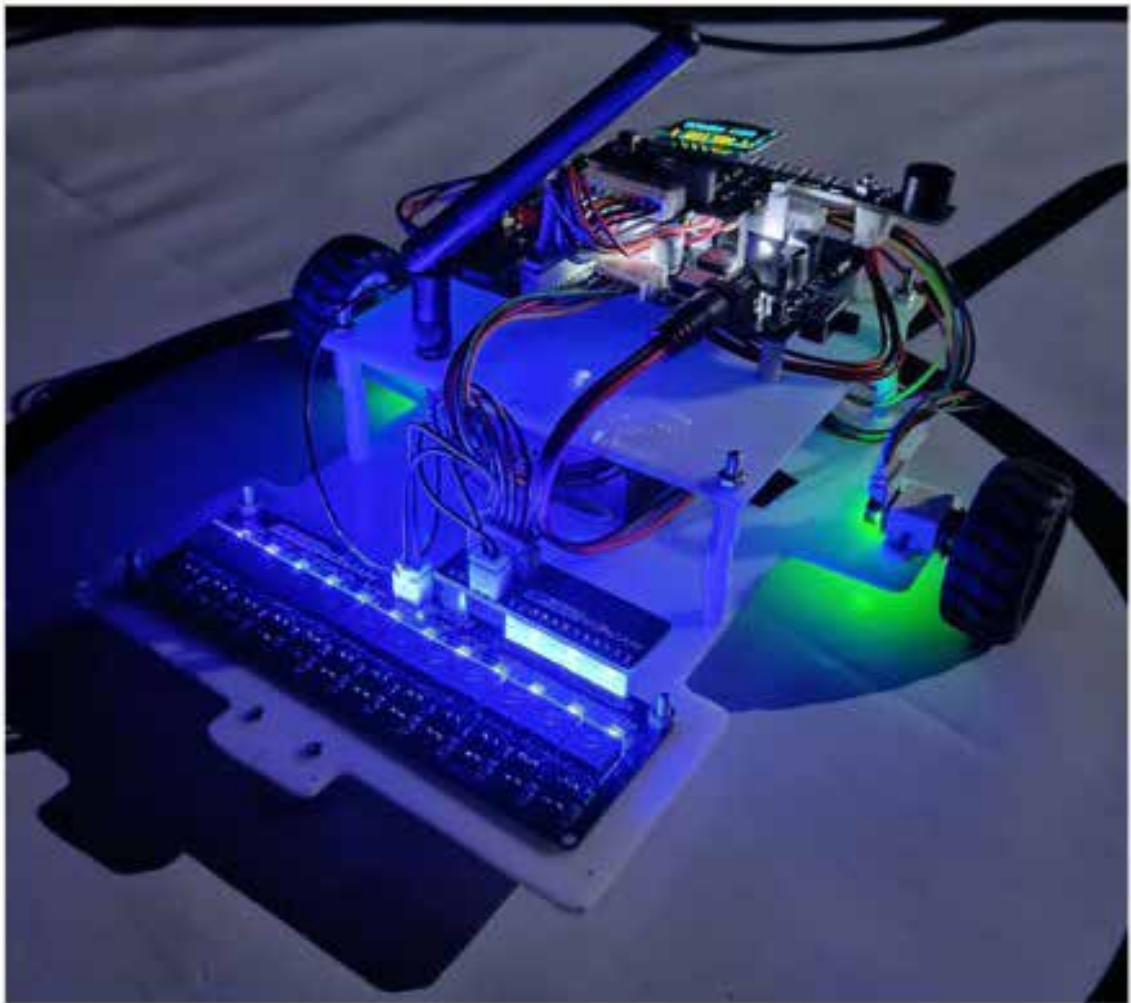
PROTOTYPE 09
Title of the Project
Team Phoenix Soccer Bot-03

Name of Applicant/s

Devang Naik

Name of Mentor:

Vedanth Pagi

Name of School/College/Startup/Organisation:

Team Phoenix

Address: 547/A Ubo Dando Santa Cruz Ilhas Goa

Contact Number: 9881633660

Contact Email ID: devang2822@gmail.com

Project Objective:

To compete in Robo Soccer competitions held in various institutions

Abstract:

A 2-wheel drive bot was made that runs on square gear box motors and is controlled by a wireless connection with the help of a transmitter and receiver. The bot is powered by a Lipo Battery and motors are connected to an ESC. Clamps are attached to the front of the bot to guide a ball into a goal in Robo Soccer

Project Outcome/ Result/ Finding:

2-wheel drive Soccer bot; Played at Resonance and Techfluence 2025

Photos of the Project/Model:

Photograph 6.10: Team Phoenix Soccer Bot 3

PROTOTYPE 10
Title of the Project
Taycan Drone

Name of Applicant/s

Vedanth Pagi

Name of School/College/Startup/Organisation:

Team Phoenix

Address: St. Cruz, Goa

Contact Number: 7498739254

Contact Email ID: pagivedanth@gmail.com

Project Objective:

To build a 3" FPV drone for cinematics

Abstract:

This project involved the design, assembly, and testing of a 3-inch cinewhoop drone tailored for stable and agile cinematic FPV footage. The build focused on achieving a balance between performance and safety, using ducted propellers to allow for indoor and close-proximity flying. Key components included lightweight yet durable materials, a reliable FPV system, and a tuned flight controller to ensure smooth operation. The resulting cinewhoop demonstrated excellent maneuverability and video quality, making it ideal for creative aerial cinematography in tight spaces.

Project Outcome/ Result/ Finding:

Drone was successfully built and test, capable of shooting video footage.

Innovative Approach:

3d printed propeller guards for safety and weight reduction compared to full sized versions.

Photos of the Project/Model:

Photograph 6.11: Taycan Drone

PROTOTYPE II
Title of the Project
3lb Horizontal Spinner Combat Robot

Name of Applicant/s

Anish Prabhu Vadolkar/ Pratik Borkar

Name of Mentor:

Vedanth Pagi

Name of School/College/Startup/Organisation:

Team Phoenix Goa

Address: Margao, Goa

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Project Objective:

To develop Goa's first 3lb horizontal spinner combat robot that not only competes in robotic combat events but also serves as a platform to showcase and enhance our skills in mechanical design, weight distribution, electronics, and time management.

Abstract:

This project involves designing and fabricating a 3lb (1.361kg) horizontal spinner combat robot tailored for competitive robotics events. The robot is equipped with a powerful, well-balanced spinning weapon optimized for offensive strategies. Key design challenges such as weight constraints, component placement, and durability under high impact were addressed to build a compact and effective war bot. This bot is a result of cumulative experience, design iteration, and cross-domain collaboration among members of Team Phoenix Goa.

Project Outcome/ Result/ Finding:

The successful fabrication and testing of Goa's first horizontal spinner in the 3lb weight category, proving its viability in combat scenarios. The robot is tournament-ready, and the process enhanced the team's understanding of electronics integration, strategic CAD design, and mechanical endurance.

Innovative Approach

1. First of its kind in Goa: A 3lb horizontal spinner robot designed from scratch

2. Achieved precision weight balancing to meet strict 1.361kg criteria

3. Custom-designed weapon assembly for optimal energy transfer

4. Compact yet robust frame designed for aggressive combat

5. Efficient use of materials and layout for better performance and impact resistance

6. Developed under strict timelines, emphasizing rapid prototyping and iterative testing

Photos of the Project/Model:
Photograph 6.12: 3lb Horizontal Spinner Combat Robot

PROTOTYPE 12
Title of the Project
Design and Fabrication of Aftermarket Rear Wiper Module for Vehicles

Name of Applicant/s

Kshitij Naik/ Prathamesh Changadkar/ Masilon Mascarenhas/ Ashley Carvalho/ Nikhil Shahapurkar

Name of Mentor:

Prof. Sharad Shanbag/ Prof. Aniket Naik

Name of School/College/Startup/Organisation:

Don Bosco College of Engineering

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Project Objective:

This project aims to develop a compact, easy-to-use rear wiper system that attaches without modifying the car. It will be durable, waterproof, and affordable, with a built-in washer spray and wireless control for convenience. The goal is to improve driver visibility in bad weather while keeping installation simple.
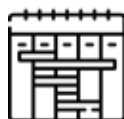
Abstract:

This project involves designing and fabricating a 3lb (1.361kg) horizontal spinner combat robot tailored for competitive robotics events. The robot is equipped with a powerful, well-balanced spinning weapon optimized for offensive strategies. Key design challenges such as weight constraints, component placement, and durability under high impact were addressed to build a compact and effective war bot. This bot is a result of cumulative experience, design iteration, and cross-domain collaboration among members of Team Phoenix Goa.

Project Outcome/ Result/ Finding:

The automotive industry is always working to make vehicles safer and more convenient for drivers. One problem that doesn't get enough attention is poor rear windshield visibility during bad weather like rain, snow, or dust storms. Many cars, especially hatchbacks, sedans, and SUVs don't have rear wipers, making it hard for drivers to see clearly.

Right now, adding a rear wiper isn't easy. It usually means replacing the windshield, drilling into the car's tailgate, and installing complex wiring. These steps take time, cost a lot, and might even void the car's warranty.

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This project introduces a better solution: A detachable rear wiper module. This system attaches to the outside of the rear windshield without the need for drilling or replacing parts. It's designed to be lightweight, compact, and easy to use. The module includes features like wireless power transfer, adhesive or magnetic mounting, a built-in washer fluid system, and an aerodynamic design. This report explains why this solution matters, how it works, and how it can benefit drivers.

Expected Outcome:

This project aims to provide a simple and effective rear wiper solution that improves driver safety and convenience. The detachable wiper will enhance visibility in bad weather without requiring any modifications to the car. It will be lightweight, easy to install, and securely attached to the windshield using a strong sticking mechanism. This cost-effective solution will also protect the vehicle's warranty, making it a practical choice for car owners.

Photos of the Project/Model:

Photograph 6.13: Design and Fabrication of Aftermarket Rear Wiper Module for Vehicles
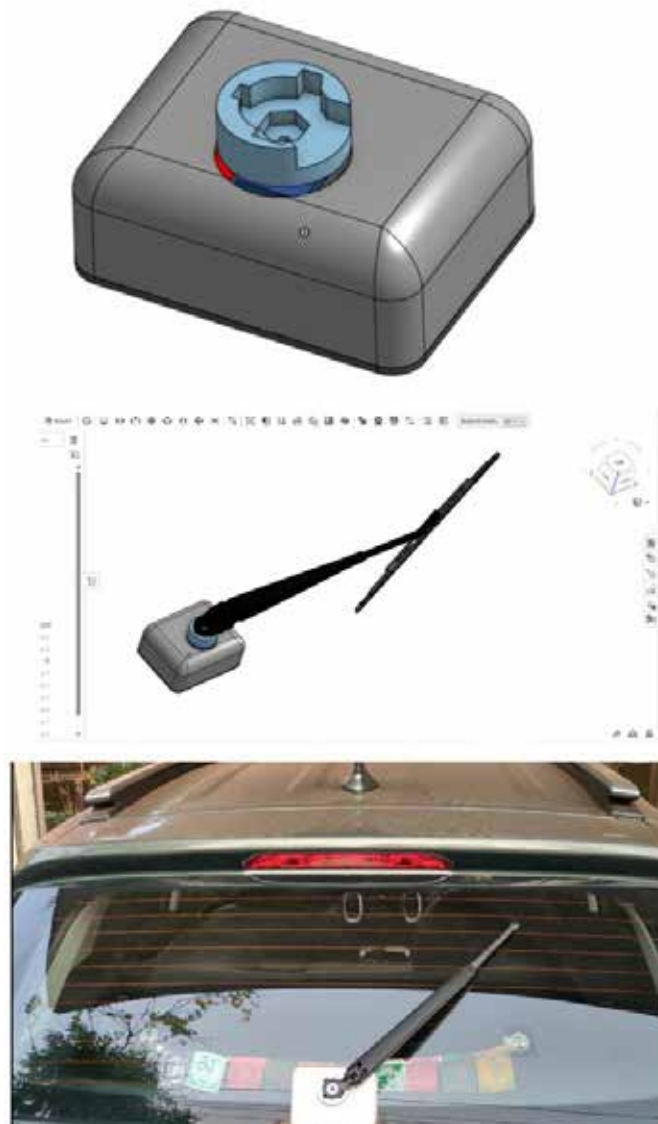
PROTOTYPE 13
Title of the Project
Robotech: Making Home Management Effortless

Name of Applicant/s

Mr. Anish Naik / Mr. Kalash Gaonkar / Mr. Akshay Kumar / Mr. Manoj Naik
Mr. Mayur Gaonkar / Mr. Pranay Gaonkar / Ms. Sohan Fadte / Ms. Sarvishtha Rane

Name of Mentor:

Dr. Nisha Sawant / Mr. Siddhant Panjikar / Mr. Pratham Naik

Name of School/College/Startup/Organisation:

Goa Multi-Faculty College, Dharbandora - Goa

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Contact Email ID: robotechmop@gmail.com

Project Objective:

To develop a smart, low-cost, and user-friendly robotic mop using Arduino and sensors that automates floor cleaning, enhances convenience, and caters to a broad range of users including busy individuals, seniors, and pet owners.

Abstract:

In today's fast-paced world, maintaining a clean home can be challenging. Robotech is a smart, cost-effective robotic mop designed to automate indoor cleaning using open-source hardware and intelligent sensor integration. Built on an Arduino Uno platform, the system incorporates IR and ultrasonic sensors, motor drivers, and Bluetooth control for efficient cleaning and obstacle avoidance. The project aims to deliver a reliable and user-friendly cleaning solution while addressing limitations found in existing commercial products such as high cost and complexity. Robotech not only simplifies daily maintenance but also sets a foundation for future smart home enhancements through AI, LiDAR, and solar-powered features.

Project Outcome/ Result/ Finding:

1. Successfully built a working prototype of a robotic mop with autonomous movement and obstacle detection.

2. Achieved smooth and stable navigation through refined motor control.

3. Reduced manual cleaning efforts, providing a practical, hands-free solution for home maintenance.

4. Proved that an affordable and functional robotic cleaner can be developed using open-source tools and components.

Innovative Approach

1. Integrated IR and ultrasonic sensors for reliable and accurate obstacle detection.

2. Implemented Bluetooth control via the Arduino Blue Control app for wireless operation.

3. Designed a modular and affordable alternative to expensive commercial robotic mops.

4. Proposed future enhancements such as LiDAR mapping, AI voice control, camera-based spill detection, and solar-powered charging—features typically reserved for high-end models.

Photos of the Project/Model:
Photograph 6.14: Robotech: Making Home Management Effortless

PROTOTYPE 14
Title of the Project
Fire Fighting Robot

Name of Applicant/s

Rio Colaco, Rodwyn Dias , Nicodemus Fernandes

Name of Mentor:

Siddhant Panjikar, Manjunath Shivapur, Vallan (SE ECS)

Name of School/College/Startup/Organisation:

Don Bosco College of Engineering, Fatorda

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Contact Email ID: 2412017@dbcegoa.ac.in

Project Objective:

For detecting household fires,based on Arduino program and extinguish it, acces small spaces and uneven terrains

Abstract:

1. Project Goal: Develop an Arduino-based fire-fighting robot.
2. Fire Detection: Uses flame sensors to detect and locate fire.
3. Fire Suppression: Equipped with a motorized water pump or fan system to extinguish fire.
4. Autonomous Navigation: Navigates using obstacle-avoidance sensors like ultrasonic or IR.
5. Control System: Operated by an Arduino microcontroller.
6. Application: Useful for fire detection and control in hazardous or hard-to-reach areas.
7. Advantages: Low-cost, efficient, and scalable for more advanced systems.

Project Outcome/ Result/ Finding:

1. Successfully built a working prototype of a robotic mop with autonomous movement and obstacle detection.
2. Achieved smooth and stable navigation through refined motor control.
3. Reduced manual cleaning efforts, providing a practical, hands-free solution for home maintenance.
4. Proved that an affordable and functional robotic cleaner can be developed using open-source tools and components.

Innovative Approach:

Autonomous Fire Targeting: The robot detects the flame's direction and navigates toward it without human intervention, uniqueness of code and use of analog sensor for more efficient approach

Photos of the Project/Model:

Photograph 6.15: Fire Fighting Robot
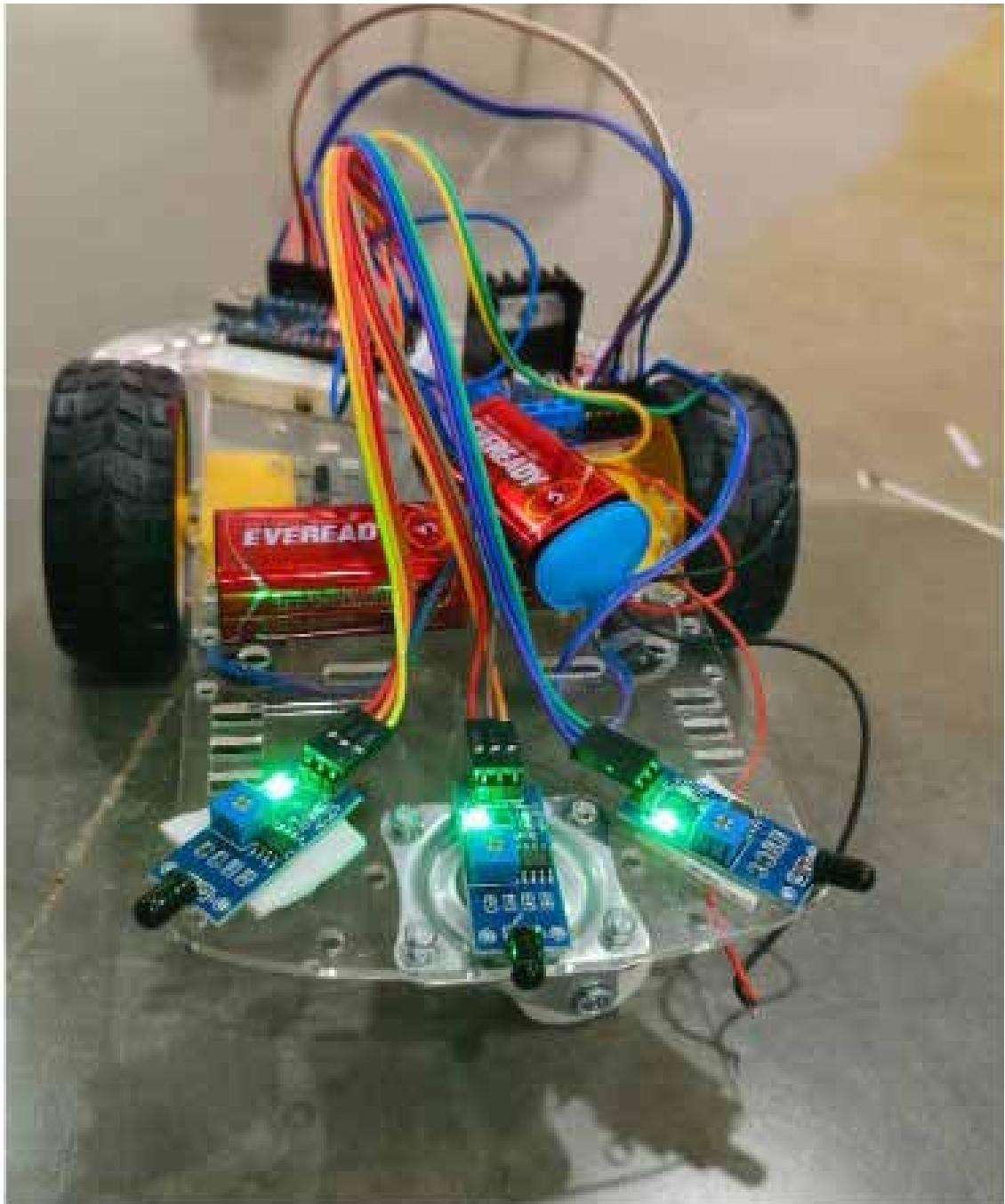
PROTOTYPE 15
Title of the Project
Signal and Barricate Project

Name of Applicant/s

Vishmaay Naik

Name of Mentor:

Siddhant Panjikar

Name of School/College/Startup/Organisation:

St Thereza's Convent High School

Address: Ganapoga- Raia, Salcete Goa
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Contact Email ID: vivekanandnaik528@gmail.com

Project Objective:

The "SignalGuard Barrier" project introduces a traffic gate system that seamlessly integrates with traffic signals, ensuring vehicles never cross an intersection when the signal is red

Abstract:

The "SignalGuard Barrier" system consists of retractable gates positioned at intersections. Sensors synced with traffic signals detect signal changes and control gate movements. When the signal turns red, the gates close, physically blocking vehicle entry, ensuring a pause in traffic movement and allowing the movement of the pedestrians.

Project Outcome/ Result/ Finding:

The "SignalGuard Barrier" project introduces a range of advantages that contribute to enhanced road safety and improved traffic management:

1. Collision Prevention: By preventing vehicles from crossing intersections during red signals, the project minimizes the likelihood of accidents.
2. Enhanced Pedestrian Safety: Pedestrians are better protected during signal changes, fostering a safer environment for all road users.
3. Optimized Traffic Flow: The synchronized gate system contributes to more efficient traffic management, reducing congestion and improving overall vehicular movement.

Photos of the Project/Model:

Photograph 6.16: Signal and Barricate Project
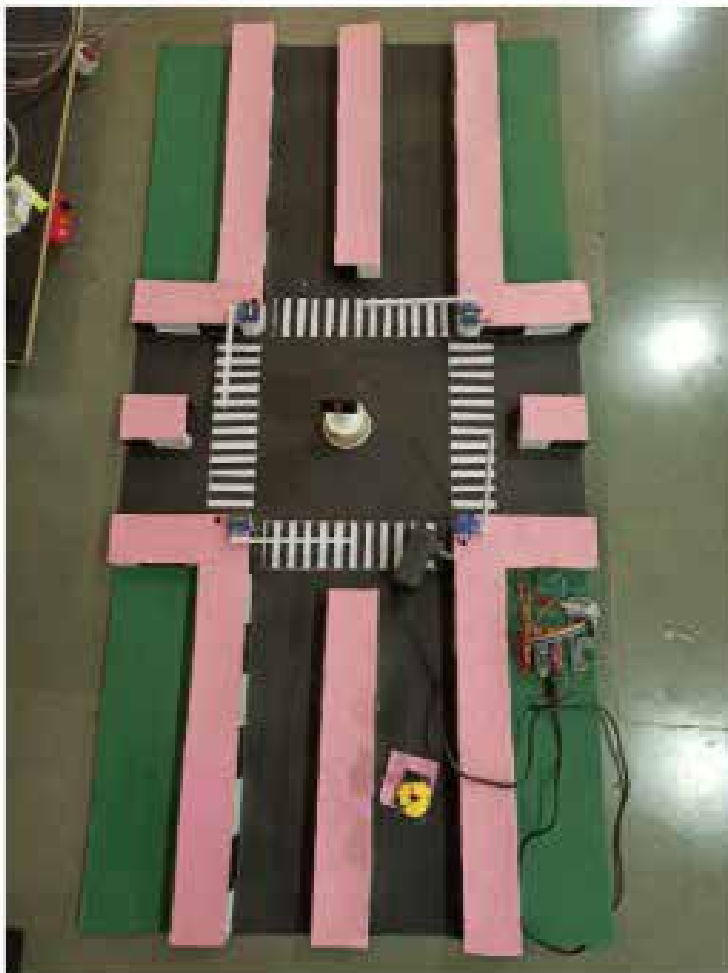
PROTOTYPE 16
Title of the Project
Quiz Buzzer System

Name of Applicant/s

Delwin Marvion Cardozo

Name of Mentor:

Vedant Pagi

Address: H.No. 188/C, Santwaddo, Assolna, Goa – 403701
Contact Number: 7066172999
Contact Email ID: delwincardozo27@gmail.com

Project Objective:

The objective of this project is to design and implement an interactive Table Buzzer System using an Arduino microcontroller and a web-based HTML interface. The system allows up to eight participants or teams, each with a dedicated button and LED, to "buzz in" during a quiz or competitive session. When a table presses its button, its corresponding LED lights up and the table number is sent to a connected computer via serial communication. A stylish HTML page displays the active table in real-time. The system includes manual and software-controlled reset options, allowing operators to reset the display or even trigger an Arduino reset remotely through the HTML interface.

Abstract:

This project is a user-friendly Table Buzzer System using Arduino and a modern HTML interface. It supports eight participants, each with a buzzer and LED. When a button is pressed, the system locks input, lights the corresponding LED, and displays the table number on a connected laptop via serial communication. A stylish HTML page shows the active table in real time and includes buttons to reset the system or even remotely restart the Arduino, enhancing ease of use in quiz or competition settings.

Project Outcome/ Result/ Finding:

The project successfully delivers a responsive 8-table buzzer system with real-time display via an HTML interface. It allows quick identification of the first respondent, provides manual and remote reset options, and enhances quiz or event coordination with a sleek and interactive user experience.

Innovative Approach:

This project uniquely combines embedded hardware (Arduino) with a modern HTML interface using the Web Serial API, enabling real-time, browser-based interaction without additional software. The integration of a software-triggered Arduino reset via a digital pin adds advanced control from the HTML page—enhancing usability and automation in quiz environments. The LED's also make it more visible to the audience along with the HTML based outcome which makes more appealing when projected on the screen.

Photos of the Project/Model:

Photograph 6.17: Quiz Buzzer System

PROTOTYPE 17
Title of the Project
NexVision

Name of Applicant/s

Mahammad Nadaf

Vikas Madhale

Deevesh Pingle

Devendra Gaonkar

Pandurang Ghanachari

Sahil Khan

Pradnya Gaonkar

Fiza Gadakar

Name of Mentor:

Mr. Sandesh Gaonkar/ Mr. Siddhant Panjikar

Name of School/College/Startup/Organisation:

St Thereza's Convent High School

Address: H.No. 188/C, Santwaddo, Assolna, Goa – 403701
Contact Number: 7066172999
Contact Email ID: delwincardozo27@gmail.com

Project Objective:

The objective of this project is to design and implement an interactive Table Buzzer System using an Arduino microcontroller and a web-based HTML interface. The system allows up to eight participants or teams, each with a dedicated button and LED, to "buzz in" during a quiz or competitive session. When a table presses its button, its corresponding LED lights up and the table number is sent to a connected computer via serial communication. A stylish HTML page displays the active table in real-time. The system includes manual and software-controlled reset options, allowing operators to reset the display or even trigger an Arduino reset remotely through the HTML interface.

Abstract:

This project is a user-friendly Table Buzzer System using Arduino and a modern HTML interface. It supports eight participants, each with a buzzer and LED. When a button is pressed, the system locks input, lights the corresponding LED, and displays the table number on a connected laptop via serial communication. A stylish HTML page shows the active table in real time and includes buttons to reset the system or even remotely restart the Arduino, enhancing ease of use in quiz or competition settings.

Project Outcome/ Result/ Finding:

Detects objects, Read texts

Innovative Approach

NexVision offers a low-cost, wearable solution for the visually impaired using a Raspberry Pi, Pi cam v3 for real-time object detection. Its simple design ensures easy use while allowing future upgrades like AI-based object recognition and voice feedback.

Photos of the Project/Model:

Photograph 6.18: NexVision

6.4 STATUS REPORT

The Prototyping Lab at the Goa State Innovation Council has been abuzz with creativity and collaboration, hosting a total of 53 Think, Design & Prototype Sessions. These sessions have served as dynamic forums for innovation, bringing together a total of 1714 participants eager to explore, create, and prototype their ideas. Through hands-on workshops, brainstorming sessions, and prototype building activities, participants have been empowered to unleash their creativity and transform their ideas into tangible prototypes. The Prototyping Lab continues to be a hub of innovation, nurturing the spirit of entrepreneurship and fostering a culture of creativity and experimentation in Goa. Below are the charts depicting the distribution of sessions conducted and the participation statistics:

Total session conducted: 53
Total no of participants: 1714

Status Report of Prototyping Lab Visitor Data

Total Visitors	4860
Students (Schools & Colleges)	2106
Startups	30
Others (Faculty, Training, Visit, Study, etc)	863
Unique Visitors	1861 (62%)

Equipment utilized
3D Printing - 79%
Laser Cutting Machine - 21%

TABLE NO. 6.3: LIST OF THINK DESIGN PROTOTYPE - STEM SESSIONS

Sr. No.	Date	Schools/Colleges/Institutions	No. of Attendees
1	04/04/2024	SS Dempo College of Commerce & Economics, Panaji	40
2	19/04/2024	Keerti Vidhyalaya, Sivolim	21
3	14/06/2024	Late Shri Vinayak Gopal Shenvi Vidyalaya, Ravanfond, Navelim	40
4	04/07/2024	Holy Spirit School, Margao. Batch-1	38
5	05/07/2024	Holy Spirit School, Margao. Batch-2	33
6	11/07/2024	St. Theresa High School, Raia	38
7	18/07/2024	The Rosary High School, Cujira-Bambolim Goa.	30
8	19/07/2024	Teachers from Higher Secondary School, Goa	38
9	24/07/2024	Goa Multi Faculty College, Dharbandora	40
10	16/08/2024	St. Mary's School, Varca	39
11	22/08/2024	Govt College of Arts, Science & Commerce, Sanquelim	34
12	23/08/2024	Govt High School, Zambaulim, Rivona	40
13	26/08/2024	Padre Conceicao College of Engineering, Verna	40
14	27/08/2024	Govt High School, Menkurem, Bicholim-Goa	43
15	28/08/2024	Our Lady of Fatima High School, Rivona	34
16	02/09/2024	Rosary College of Commerce & Arts, Navelim. Batch-1	29
17	03/09/2024	Rosary College of Commerce & Arts, Navelim. Batch-2	32
18	20/09/2024	Our Lady of Rosary High School, Fatorda-Goa	37
19	01/10/2024	GVM's College, Ponda	40
20	07/10/2024	S. S. Dempo College of Commerce & Economics, Cujira	38
21	10/10/2024	Govt. College of Arts, Science & Commerce, Quepem, Goa	30

Sr. No.	Date	Schools/Colleges/Institutions	No. of Attendees
22	16/10/2024	Multipurpose Higher Secondary School, Borda. Batch-1	56
23	16/10/2024	Multipurpose Higher Secondary School, Borda. Batch-2	80
24	17/10/2024	Cuncolim Educational Society's College of Arts & Commerce (CES), Cuncolim, Goa	38
25	02/12/2024	Cuncolim United Higher Secondary School, Cuncolim	24
26	6/12/2024	RNM Government Higher Secondary School, Baina, Vasco	17
27	6/12/2024	CPM Government High School, Baina, Vasco	16
28	16/12/2024	Government High School, Paddi	34
29	30/12/2024	Engineering Students- Attended Prototyping Workshop	5
30	13/01/2025	Government College Arts, Science & Commerce, Quepem	38
31	16/01/2025	Government High School, Fatorpa, Quepem	25
32	21/01/2025	Govt High School, Dhaushire, Usgao	45
33	22/01/2025	Margao Government Industrial Training Institute, Borda	25
34	28/01/2025	Navy Childrens School, Vasco	25
35	04/02/2025	Engineering Students- Attended Prototyping Workshop	10
36	04/02/2025	Govt College Of Commerce and Economics, Borda, Margao.	33
37	05/02/2025	Engineering Students- Attended Prototyping Workshop	25

Sr. No.	Date	Schools/Colleges/Institutions	No. of Attendees
38	06/02/2025	Government Polytechnic Curchorem, Curchorem	27
39	06/02/2025	Engineering Students- Attended Prototyping Workshop	12
40	07/02/2025	Infant Jesus Higher Secondary School, Colva- Batch-1	35
41	07/02/2025	Infant Jesus Higher Secondary School, Colva- Batch-2	30
42	07/02/2025	Engineering Students- Attended Prototyping Workshop	15
43	12/02/2025	Rosary College of Commerce & Arts, Navelim-Goa	41
44	15/02/2025	Fr. Agnel Higher Secondary School, Pilar, Goa	22
45	19/02/2025	Pope John XXIII High School, Quepem-Goa	37
46	20/02/2025	Cuncolim United Higher Secondary School, Cuncolim-Goa	34
47	27/02/2025	Agnel Institute of Technology and Design, Assagao. Batch-1	35
48	27/02/2025	Agnel Institute of Technology and Design, Assagao. Batch-2	30
49	03/03/2025	Agnel Polytechnic Verna, Verna-Goa. Batch-1	27
50	04/03/2025	Agnel Polytechnic Verna, Verna-Goa. Batch-2	27
51	07/02/2025	Teachers & Professors from Colleges-FDP	50
52	11/02/2025	PM Shri SSV Govt Hifg School, Kumbharzua, Marcel-Goa	24
53	18/02/2025	Govt High School, Kundai, Ponda-Goa	18

PHOTOGRAPH 6.19: STUDENTS FROM DON BOSCO COMMUNITY COLLEGE, LOUTOLIM 01.08.2024

**PHOTOGRAPH 6.20: REV. FR. LEO PEREIRA, ADMINISTRATOR AT DON BOSCO COLLEGE OF ENGINEERING, FATORDA ALONG WITH OTHER VISITORS
05.04.2024**

**PHOTOGRAPH 6.21: STUDENTS FROM INFANT JESUS HIGH SCHOOL
IN COLVA, GOA
07.02.2025**

**6.22: FINAL YEAR COMPUTER SCIENCE DEPARTMENT STUDENTS FROM
DON BOSCO COLLEGE OF ENGINEERING, FATORDA
16.07.2024**

**6.23: REV. FR. KINLEY D'CRUZ, ACCOMPANIED BY SALESIAN FATHERS, VISITED
THE PROTOTYPING LAB
21.08.2024**

6.24: SHRI JOSE MANUEL NORONHA, CHAIRMAN OF GSINC, ALONG WITH SHRI ANKIT YADAV, IAS, DIRECTOR OF DST&WM, VISITED THE PROTOTYPING LAB
17.09.2024

6.25: MANAGEMENT TEAM FROM DON BOSCO COLLEGE OF ENGINEERING, FATORDA, VISITED THE PROTOTYPING LAB
19.09.2024

6.26: FINAL YEAR B. COMM STUDENTS FROM GVM'S COLLEGE, PONDA
07.10.2024

6.27: FINAL YEAR MECHANICAL DEPARTMENT STUDENTS FROM
DON BOSCO CCOLLEGE OF ENGINEERING, FATORDA
08.12.2024

6.28: STUDENTS FROM VARIOUS SCHOOLS VISITING DURING INEX

13.11.2024

6.29: STUDENTS FROM VARIOUS COLLEGES VISITING DURING INEX

14.11.2024

6.30: FACULTY MEMBERS FROM VIDYA VIKAS ACADEMY VISITED THE PROTOTYPING LAB

24.04.2024

6.31: STUDENTS ALONG WITH THE PARENT VISITED THE PROTOTYPING LAB

27.04.2024

CHAPTER 07
GOA'S YOUNG INNOVATORS AWARD

CHAPTER 7
GOA'S YOUNG INNOVATOR'S AWARD

7.1 INTRODUCTION

The Goa State Innovation Council (GSInC), under the aegis of the Department of Science, Technology & Waste Management, Government of Goa, launched the Competition for Goa's Young Innovator's Award (GYIA) 2024-25. This competition aims to provide a platform for young students across Goa to present their innovative ideas and solutions that can address real-world challenges.

The Goa's Young Innovator's Award fosters innovation among school students, encouraging them to develop creative and original ideas. Teachers will play an essential role in guiding students by identifying problems and assisting in prototype development.

The competition is open to students in two categories:

Category 1   : Students studying in Classes VIII to IX
Category 2   : Students studying in Classes V to VII

Each category will have the following cash prizes:

1st Prize   : ₹20,000/-
2nd Prize   : ₹10,000/-
3rd Prize   : ₹5,000/-

Additionally, winners will receive mentoring and access to innovation facilities.
Projects will be evaluated based on Originality of the Idea, Usability & Practical Applicability of the Innovation. Students from schools across Goa are encouraged to submit their applications online. Applications can be submitted through the link: www.goastateinnovationcouncil.com/initiatives/ GYIA.

Competition Timeline:

SR. NO.	ACTIVITY	DATE
1	Last Date to Apply	28th Feb 2025
2	Shortlisting of Applications	29th Feb - 7th Mar 2025
3	Final Presentation & Exhibition	12th Mar 2025

7.2 LAUNCH OF GOA'S YOUNG INNOVATOR'S AWARD 2024-25

The Goa State Innovation Council (GSInC), under the aegis of the Department of Science, Technology & Waste Management, Government of Goa, has officially launched the Goa Young Innovator's Award (GYIA) 2024-25, an initiative aimed at fostering innovation and creativity among school students.

The brochure for the Goa Young Innovator's Award 2024-25 was unveiled at Don Bosco College of Engineering, Fatorda, at the hands of Mr. Jose Manuel Noronha, Chairman, GSInC, and Mr. Ankit Yadav, IAS, Director, Department of Science, Technology & Waste Management.

Additionally, winners will receive mentoring and access to innovation facilities.
Projects will be evaluated based on Originality of the Idea, Usability & Practical Applicability of the Innovation. Students from schools across Goa are encouraged to submit their applications online. Applications can be submitted through the link: www.goastateinnovationcouncil.com/initiatives/ GYIA.

PHOTOGRAPH 7.1: BROCHURE FOR GOA'S YOUNG INNOVATOR'S AWARD 2024-25

WHAT IS THE AWARD?
(IN EACH CATEGORY)

FIRST PRIZE	₹ 20,000
SECOND PRIZE	₹ 10,000
THIRD PRIZE	₹ 5,000

In addition to the awards in each category, the winner will be provided with the following:
a) Mentoring Support
b) Support in Prototyping
c) Support in Commercialisation

WHAT IS THE PROCESS OF PROJECT SUBMISSION?

To Submit your applications online, kindly visit:
www.goastateinnovationcouncil.com/initiatives/GYIA

Scan the QR

Last date to Apply: 28th February 2025

GOA STATE INNOVATION COUNCIL
Department of Science & Technology
SECRETARIAT
Don Bosco College of Engineering, Fatorda, Margao, Goa - 403602
0832-2740007 | admin@gsic.in
www.goastateinnovationcouncil.com

COMPETITION FOR GOA'S YOUNG INNOVATOR'S AWARD 2024-25

Goa's Young Innovator's Award 2022-23

WHAT IS INNOVATION?

Innovation can simply be described as a new idea, device or method which is useful and scalable to appropriate levels. It should have certain distinctiveness over existing similar products / devices / methods and which helps to improve output or efficiency, enables multi functionality and reduces drudgery.

WHY IS INNOVATION NECESSARY?

Innovation is necessary not only to maintain competitive advantage but growth and development of institutions, industries and countries as a global world.

It improves products, processes and services and thereby, the quality of life of people.

WHY ARE WE PROMOTING CREATIVITY AND INNOVATION IN CHILDREN?

Creativity among children is almost in-born. Every child is creative. The spirit of originality, creativity and innovation among our children has to be promoted. This will be helpful when they become leaders of our society in future, ensuring an imaginative, inclusive future for the country fueled by innovation. Inclusive development of our society needs opportunities for children so as to ensure an aversion to inertia and a reverence for innovative ways of solving problems. Creative, impatient and imaginative children are one of the most precious assets of the nation.

WHO CAN PARTICIPATE? Students between the age group of 10-15 years and studying in standard V-IX will be eligible for participation.

CATEGORY 1 - Students studying from standard VIII to IX
CATEGORY 2 - Students studying from standard V to VII

IS THERE ANY LIMIT TO THE NUMBER OF PROJECTS SUBMITTED BY A SCHOOL?
No, the schools are encouraged to submit as many projects as they wish.

CAN STUDENTS OF ALL EDUCATIONAL BOARDS PARTICIPATE? Yes, all the students studying in schools in Goa, irrespective of the Board to which their School is affiliated may participate.

WHAT KIND OF SUBMISSIONS ARE ENCOURAGED?
Children should be encouraged to come up with creative ideas on their own. Parents and teachers may propose a problem to the child to identify a possible solution and then help converting the idea into a prototype/model. Teachers are to ensure that a project submitted to the competition is an original idea so that the competition maintains a high standard.

ABOUT GSInC

Creating an innovation movement with the involvement and commitment of people at all levels which is critical for solving challenges of inclusion in our society and to set India on the path of inclusive growth and sustainable development.

OBJECTIVES

* Drive the innovation agenda in the State and harness the core competencies, local talent, resources and capabilities to create new opportunities.
* Support the State Government to promote innovation in the State.
* Encourage young talent in local universities, colleges, medium and small scale industries (MSME) and R&D institutes.

* Map opportunities for innovation in the State. Identify and reward talent in innovation and disseminate success stories.
* Organise seminars, lectures, workshops on innovation.
* Create the State innovation portal to educate and drive awareness on innovation.
* Provide input into the Innovation Roadmap for the State.

TABLE 7.1: SCHEDULE FOR THE FINALS - 12TH MARCH 2025

SR. NO.	ACTIVITY	TIME
1	Registration and Stall Setup	8:30 AM - 10:00 AM
2	Open to Judges + Open House	10:00 AM - 1:00 PM
3	Lunch Break	1:00 PM - 2:00 PM
4	Open to Judges + Open House	2:00 PM - 3:00 PM
5	Open House	3:00 PM - 4:00 PM
6	Prize Distribution	4:30 PM - 5:00 PM

A total of 20 projects from each category were shortlisted for the final presentation, which is proposed to be held on 12th March 2025 at the Seminar Hall, Don Bosco College of Engineering, Fatorda.

7.3 STATUS REPORT

TABLE 7.2: WINNERS OF GOA'S YOUNG INNOVATOR'S AWARD 2024-25

CATEGORY 1 (8TH TO 9TH STANDARD)				
	PROJECT TITLE	STUDENT NAME	GUIDE NAME	MENTOR
ENCOURAGE-MENT PRIZE	PHOENIX - MEDICARE	SYLVAN JOHN DIAS	SOFIA FER-NANDES	ST. JOSEPH HIGH SCHOOL KARAI SHIRODA PONDA GOA
SECOND PRIZE	FIRE FIGHTING GADGET TO FIRE FIGHTING DRONE	PURVESH GOURISH BORKAR	GOURISH L. BORKAR	THE NEW EDUCATIONAL INSTITUTE CUR-CHOREM
FIRST PRIZE	SHREDZILLA	MOHAMMAD RAZI FAROO-QUI, SUSHANT SHARMA	FREDERIC C. O. DIAS	CHUBBY CHEEKS SPRNG VALLEY HIGH SCHOOL

CATEGORY 2 (5TH TO 7TH STANDARD)				
	PROJECT TITLE	STUDENT NAME	GUIDE NAME	MENTOR
ENCOURAGE-MENT PRIZE	ISMS (INTELLI-GENT STROKE MANAGEMENT SYSTEM)	RONAV CHO-DANKAR, ARIANA CHO-DANKAR	DR DEEPA CHO-DANKAR	SHARADA MANDIR SCHOOL, PAN-JIM
SECOND PRIZE	GREENHOUSE 2.0	SUMUKH G. AGASTIPURKAR	MANASI BAKHALE	G.V.M'S A.J.DE ALMEIDA HIGH SCHOOL PON-DA -GOA
FIRST PRIZE	JEEVAN AMRIT	AYUSH S. SHIN-DE, VEDANT B. ADARKAR, SOHAM M. GURAV	PRIYANKA P. PEDNEKAR	SHREE MA-HALASA NARAYANI HIGH SCHOOL, VERNA

PHOTOGRAPH 7.2: THE BROCHURE FOR THE GOA'S YOUNG INNOVATOR'S AWARD 2024–25 COMPETITION WAS OFFICIALLY LAUNCHED BY SHRI ANKIT YADAV, IAS, DIRECTOR, DST&WM; SHRI JOSE MANUEL NORONHA, CHAIRMAN, GSINC; REV. FR. KINLEY D'CRUZ, DIRECTOR, DBCE; AND DR. NEENA PANANDIKAR, PRINCIPAL, DBCE.

PHOTOGRAPHS 7.3 : STUDENT PROJECTS ON DISPLAY DURING THE FINALS OF GOA'S YOUNG INNOVATOR'S AWARD 2024–25
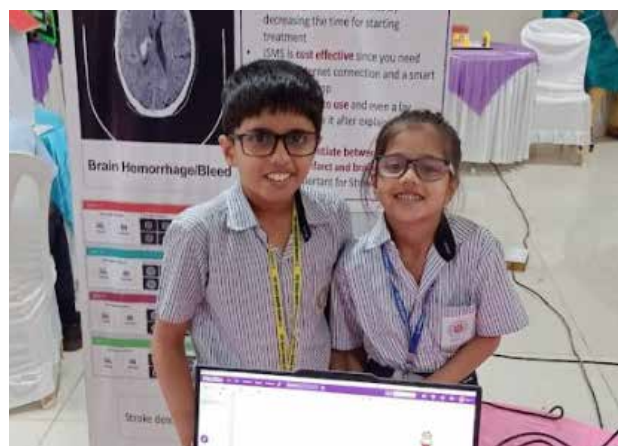
PHOTOGRAPHS 7.3 : STUDENT PROJECTS ON DISPLAY DURING THE FINALS OF GOA'S YOUNG INNOVATOR'S AWARD 2024–25

PHOTOGRAPHS 7.3 : STUDENT PROJECTS ON DISPLAY DURING THE FINALS OF GOA'S YOUNG INNOVATOR'S AWARD 2024–25
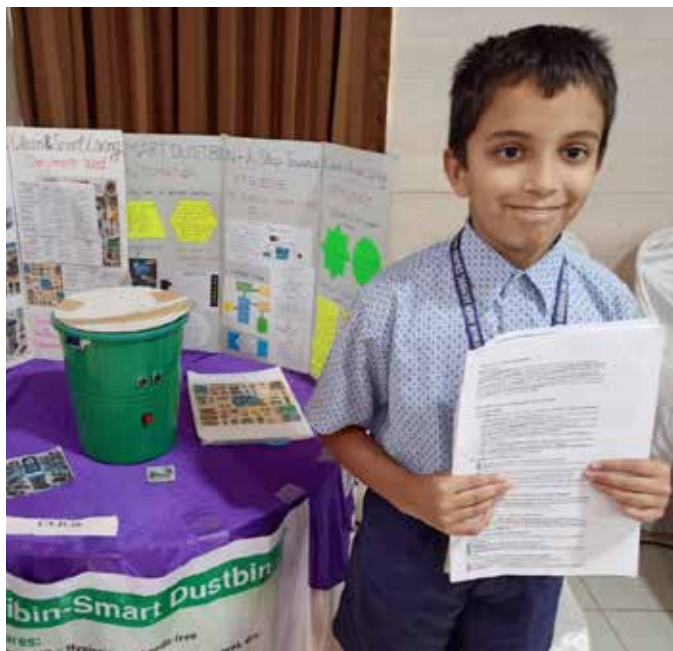
PHOTOGRAPHS 7.4 : PRIZE DISTRIBUTION CEREMONY OF GOA'S YOUNG INNOVATOR'S AWARD 2024–25, CHIEF GUEST SHRI ANKIT YADAV, IAS, DIRECTOR, DST&WM ALONG WITH THE WINNERS

CHAPTER 08
BOOTCAMPS ON INNOVATION, CREATIVITY & STARTUPS IN COLLEGES

CHAPTER 8

BOOTCAMPS ON INNOVATION, CREATIVITY & STARTUPS IN COLLEGES

8.1 INTRODUCTION

For a nation as industrious and self-reliant as India, it is unsurprising that an increasing number of people across ages and professional backgrounds are opting for their entrepreneurial journey. However, since the world, especially in the technology domain, is evolving at an unprecedented pace, staying ahead requires more than just theoretical knowledge—it demands creativity, adaptability, and an entrepreneurial mindset. To equip students with these essential skills, the Goa State Innovation Council (GSInC) organizes high-energy bootcamps focused on three key pillars: technology, innovation and startups.

Designed exclusively for college students in Goa, these bootcamps are not just about learning—they're about experiencing. In our bootcamps, participants are immersed in practical challenges that require them to think critically, solve real-world challenges, and develop scalable business ideas that bridge market gaps or address pressing community needs.

Guided by seasoned mentors, industry experts, and academic leaders, students gain practical insights into building and growing a startup in today's fast-changing landscape. They are introduced to the nuances of product development, business strategy, and market positioning while also learning about the extensive support ecosystem provided by GSInC. From state-backed startup schemes to networking opportunities, these bootcamps unlock the doors to Goa's thriving entrepreneurial community.

Whether you're an aspiring entrepreneur, an innovator with a groundbreaking idea, or simply curious about the world of startups, these bootcamps offer the perfect launchpad. It's more than an event—it's a movement to shape the next generation of problem-solvers, change-makers, and tech-driven entrepreneurs in Goa.

Schedule:

TABLE: 8.1: SCHEDULE OF BOOTCAMPS ON INNOVATIONS IN COLLEGES

SR. NO.	SCHOOLS/COLLEGES/INSTITUTIONS	DURATION
1	Introduction of Goa State Innovation Council & Bootcamp	30 MINS
2	How to be a Tech Startup Entrepreneur?	45 MINS
3	Process of setting up an Enterprise, Ide-ation, Planning, execution, etc.	45 MINS
4	Various Government Funds and Schemes assistance for starting up	45 MINS
5	Q & A	15 MINS

8.2 STAUTS REPORT

Total Sessions: 18
Total students: 1454

Districts	No of Bootcamps
North Goa	09
South Goa	09
Total	18

Districts	No of participants
North Goa	672
South Goa	782
Total	1454

Status Report on the Bootcamps on Innovation in Institutes:

Between July and December 2024, a total of 18 bootcamps were organized across premier educational institutions in Goa, covering both engineering and general degree colleges. These sessions provided a structured platform for students to explore emerging technologies, develop entrepreneurial acumen, and understand the intricacies of launching and sustaining a startup.

The bootcamps were conducted at institutions such as Shree Rayeshwar Institute of Engineering & Information Technology, Rosary College of Commerce and Arts, GVM's Gopal Govind Poy Raiturcar College, Dempo College of Commerce & Economics, Don Bosco College of Engineering, and St. Xavier's College, among others. These institutes served as hubs of learning, where students engaged in interactive discussions, hands-on activities, and mentorship-driven guidance from industry leaders and startup experts.

Each session, spanning two to four hours, focused on critical aspects of technology, innovation, and entrepreneurship, encouraging students to think critically about real-world problems and design scalable solutions. The sessions also introduced students to various state-supported startup schemes and innovation grants available through GSInC, helping them navigate the early stages of their entrepreneurial journey.

The enthusiastic participation and positive feedback from students reflect the growing interest in innovation and startups among Goa's youth. Many participants expressed a keen desire to explore startup opportunities and seek mentorship for their business ideas. The Goa State Innovation Council remains dedicated to building a strong innovation ecosystem in the state, ensuring that young minds are well-prepared to lead Goa's entrepreneurial future.

TABLE 8.2: LIST OF BOOTCAMPS

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
1	16/07/2024	Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda	90
2	19/07/2024	Rosary College of Commerce and Arts, Navelim	93
3	27/07/2024	GVM's Dr. Dada Vaidya College of Education, Ponda	50
4	31/07/2024	Goa Multi Faculty College, Dharbandora	108
5	02/08/2024	SSA Government College of Arts & Commerce, Virnoda, Pernem	43
6	03/08/2024	Swami Vivekanand College, Ponda	92

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
7	07/08/2024	Government College of Arts, Science & Commerce, Sanquelim	80
8	08/08/2024	Dempo College of Commerce & Economics, Cujira	45
9	10/08/2024	Don Bosco College of Engineering, Fatorda	80
10	13/08/2024	Agnel Institute of Technical Design, Assagao	120
11	19/08/2024	St. Joseph Vaz College, Cortalim	81
12	20/08/2024	Dhempe College of Arts & Science, Panaji	80
13	23/08/2024	Padre Conceicao College of Engineering, Verna	75
14	29/08/2024	Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda	75
15	26/09/2024	Cuncolim Educational Society's College of Arts & Commerce (CES), Cuncolim	120
16	30/09/2024	GVM's Dr. Dada Vaidya College of Education, Ponda	110
17	02/12/2024	Gomantak Ayurved Mahavidyalaya and Research Centre, Shiroda	60
18	17/12/2024	St. Xavier's College, Mapusa	52

PHOTOGRAPH 8.1: BOOTCAMP AT SHREE RAYESHWAR INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY, SHIRODA
16/07/2024

PHOTOGRAPH 8.2: BOOTCAMP AT ROSARY COLLEGE OF COMMERCE AND ARTS, NAVELIM
19/07/2024

PHOTOGRAPH 8.3: BOOTCAMP AT GVM'S DR. DADA VAIDYA COLLEGE OF EDUCATION, PONDA
27/07/2024

PHOTOGRAPH 8.4: BOOTCAMP AT GOA MULTI FACULTY COLLEGE, DHARBANDORA
31/07/2024

PHOTOGRAPH 8.5: BOOTCAMP AT SANT SOHIROBANATH AMBIYE GOVERNMENT COLLEGE OF ARTS & COMMERCE, VIRNODA, PERNEM-GOA
02/08/2024

PHOTOGRAPH 8.6: BOOTCAMP AT SWAMI VIVEKANAND VIDYA PRASARAK MANDALS COLLEGE OF COMMERCE, PONDA 03/08/2024

PHOTOGRAPH 8.7: BOOTCAMP AT GOVERNMENT COLLEGE OF ARTS, SCIENCE & COMMERCE, SANQUELIM 07/08/2024

PHOTOGRAPH 8.8: BOOTCAMP AT SRINIVASSA SINAI DEMPO COLLEGE OF COMMERCE &
ECONOMICS, CUJIRA
08/08/2024

PHOTOGRAPH 8.9: BOOTCAMP AT DON BOSCO COLLEGE OF
ENGINEERING, FATORDA
10/08/2024

PHOTOGRAPH 8.10: BOOTCAMP AT AGNEL INSTITUTE OF TECHNICAL DESIGN, ASSAGAO
13/08/2024

PHOTOGRAPH 8.11: BOOTCAMP AT ST. JOSEPH VAZ COLLEGE, CORTALIM
19/08/2024

**PHOTOGRAPH 8.12: BOOTCAMP AT DHEMPE COLLEGE OF
ARTS & SCIENCE, PANAJI
20/08/2024**

**PHOTOGRAPH 8.13: BOOTCAMP AT PADRE CONCEICAO
COLLEGE OF ENGINEERING, VERNA
23/08/2024**

PHOTOGRAPH 8.14: BOOTCAMP AT SHREE RAYESHWAR INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY, SHIRODA
29/08/2024

PHOTOGRAPH 8.15: BOOTCAMP AT CUNCOLIM EDUCATIONAL SOCIETY'S COLLEGE OF ARTS & COMMERCE, CUNCOLIM
26/09/2024

PHOTOGRAPH 8.16: BOOTCAMP AT GVM'S DR. DADA VAIDYA COLLEGE OF EDUCATION, PONDA
30/09/2024

PHOTOGRAPH 8.17: BOOTCAMP AT GOMANTAK AYURVED MAHAVIDYALAYA AND RESEARCH CENTRE, SHIRODA
02/12/2024

PHOTOGRAPH 8.18: BOOTCAMP AT ST XAVIER'S COLLEGE,
MAPUSA
17/12/2024

17 December 2024 at 10:35

CHAPTER 09

SENSITISATION WORKSHOPS ON INNOVATION IN SCHOOLS

CHAPTER 9
SENSITISATION WORKSHOPS ON INNOVATION IN SCHOOLS

9.1 INTRODUCTION

Technology and innovation are reshaping every aspect of our lives in today's rapidly evolving world. From how we communicate to solving complex global challenges, the impact of STEM (Science, Technology, Engineering, and Mathematics) is undeniable. Recognizing the importance of preparing young minds for this future, the Goa State Innovation Council has proactively introduced STEM education at the school level.

The goal is simple yet powerful—to equip students with essential skills such as creativity, critical thinking, problem-solving, collaboration, and curiosity. These skills go beyond textbooks and classrooms; they shape adaptable, future-ready individuals who can navigate a world driven by technology and change. Through engaging learning experiences, GSInC works hand in hand with schools to integrate STEM seamlessly into their curriculum, ensuring that students gain practical exposure to innovative thinking.

To make this vision a reality, GSInC partners with schools of all sizes—government and private—across Goa. The council collaborates with incubators, tinkering labs, and other industry experts to bring real-world insights into the classroom. By organizing hands-on workshops, interactive sessions, and exposure to cutting-edge technological advancements, students get a firsthand experience of the endless possibilities within STEM fields.

These workshops have already sparked a wave of enthusiasm among students and educators alike, fostering a culture of curiosity and innovation in Goa's schools. As the initiative continues to grow, GSInC remains committed to shaping a generation that doesn't just adapt to the future but actively builds it.

Schedule:
- Introduction to Session & Virtual Innovation Register
- Introduction to Innovation, Creativity & Ideation
- Activity Session on Innovation, Creativity & Prototyping
- Q&A

9.2 STATUS REPORT: SENSITISATION WORKSHOPS ON INNOVATION IN SCHOOLS

Workshops Conducted: 54

Total participants: 4148

	DISTRICT WISE - SESSIONS DATA	DISTRICT WISE - PARTICIPANTS DATA
North Goa	**29**	**1656**
South Goa	**25**	**2492**

Innovation begins with curiosity, and curiosity is best nurtured at a young age. The Goa State Innovation Council (GSInC) remains steadfast in its commitment to fostering an innovation-driven mindset among students by integrating STEM (Science, Technology, Engineering, and Mathematics) education into school curriculums. Through hands-on workshops designed to spark creativity, problem-solving, and critical thinking, GSInC has continued to make significant strides in shaping the next generation of innovators.

During this reporting period, a total of 54 sensitisation workshops were conducted across various schools in Goa, engaging 4,184 students and educators in interactive learning experiences. These workshops were strategically distributed across both districts, with 29 sessions held in North Goa and 25 in South Goa, ensuring broad participation and accessibility for students from diverse backgrounds. District-wise analysis suggests that a total of 1,656 participants attended the workshops in the North Goa district while a much larger attendance of 2,492 participants was reported in the South Goa district across 25 sensitization workshop sessions.

The workshops were designed to provide students with an immersive learning experience, encouraging them to explore scientific principles through practical applications, collaborative problem-solving exercises, and exposure to emerging technologies. By engaging students in stimulating discussions and real-world challenges, the sessions aimed to bridge the gap between theoretical knowledge and practical innovation.

GSInC's approach focused on ensuring that students from both urban and rural schools had equal opportunities to benefit from these workshops. Schools in bustling educational hubs, as well as those in remote regions, were actively included, reinforcing the Council's commitment to inclusive learning and equitable access to STEM education.

Beyond just imparting knowledge, these sensitisation workshops acted as a catalyst for inspiring young minds to think beyond textbooks—to innovate, to experiment, and to see STEM as a gateway to endless possibilities. The overwhelming response from students and educators alike highlights the growing enthusiasm for innovation-led learning and the need for continued engagement in this space.

Looking Ahead

The success of these workshops reaffirms the importance of fostering a culture of curiosity and creativity in schools. Moving forward, GSInC aims to expand its outreach, introduce more hands-on STEM initiatives, and strengthen collaborations with educators, industry experts, and incubators to create a more robust ecosystem for innovation in education.

By equipping students with the tools, skills, and confidence to explore the frontiers of science and technology, we are laying the foundation for a future generation of problem-solvers, inventors, and entrepreneurs who will contribute meaningfully to Goa's innovation landscape. The journey has just begun, and the road ahead is filled with exciting opportunities to redefine learning and inspire a new wave of young innovators.

TABLE 9.1 : LIST OF SENSITISATION WORKSHOPS

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
1	21/06/2024	Vidya Vihar High School, Cortalim	64
2	21/06/2024	Mount Litera Zee School, Zuarinagar	490
3	24/06/2024	Late Shri Vinayak Gopal Shenvi Vidyalaya, Ravanfond, Navelim	64
4	25/06/2024	The Progress High School, Panaji	21
5	26/06/2024	Mae Dos Pobres High School, Nuvem	27
6	26/06/2024	J.A Chopdekar Memorial Govt High School, Agarwada, Pernem Goa	55
7	27/06/2024	St. Anthony High School, Monte de Guirim	90
8	28/06/2024	Govt. High School, Zambaulim, Rivona	46
9	29/06/2024	Sarvodaya Educational Society High School, Curchorem	140
10	01/07/2024	Government High School, Ambaulim	83
11	01/07/2024	Goa Science Centre, Miramar	120
12	02/07/2024	Auxilium High School, Benaulim-Goa	176
13	11/07/2024	Govt. High School Menkurem, Bicholim	111
14	12/07/2024	St. Andrew's ICSE School, Vasco-Goa.	145
15	12/07/2024	PM Shri Government High School, Morpirla, Quepem	110
16	19/07/2024	DadaVaidya High School, Ponda	139
17	26/07/2024	Jnyan Vikas School, Porvorim	140
18	17/08/2024	Rosary High School, Navelim	176
19	30/08/2024	Don Bosco High School, Calangute	60
20	30/08/2024	St. Thomas Boys High School, Aldona	195

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
21	18/09/2024	Chubby Cheeks Spring Valley High School, Porvorim	220
22	18/09/2024	Poira High School, Poira, Assonora-Goa	52
23	09/12/2024	T B Cunha School, Aquem, Margao	32
24	06/01/2025	Govt High School, Daushire, Usgao	26
25	20/01/2025	Government High School, Baina Vasco	10
26	20/01/2025	Government Higher Secondary School, Baina-Vasco	33
27	20/01/2025	Government High School, Vadenagar, Vasco	33
28	24/01/2025	Government High School, Paddi, Quepem- Batch 1	68
29	24/01/2025	Government High School, Paddi, Quepem- Batch 2	72
30	03/02/2025	The New Educational Institute, Curchorem- Batch-1	38
31	03/02/2025	Government High School, Balli	42
32	04/02/2025	Government High School, Paddi, Quepem- Batch 3	38
33	04/02/2025	Government High School, Sadolxem, Cancona- Batch 1	35
34	05/02/2025	Government High School, Paddi, Quepem- Batch 4	30
35	05/02/2025	Government High School, Sadolxem, Cancona- Batch 2	42
36	05/02/2025	The New Educational Institute, Curchorem- Batch-2	20
37	08/02/2025	PM Shri Government High School, Bicholim	34
38	11/02/2025	Government High School, Dabem, Valpai	32
39	11/02/2025	Government High School, Thane, Sattari	21

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
40	13/02/2025	Immaculate Conception High School, Dabal, Dharbandora	140
41	13/02/2025	Government High School, Zambaulim, Rivona	30
42	13/02/2025	The New Educational Institute, Curchorem-Batch-3	15
43	14/02/2025	PM Shri Government High School, Gurim, Mapusa- Batch-1	70
44	22/02/2025	Shri Hanuman Vidhyalaya, Veluz, Sattari-Goa	18
45	24/02/2025	PM Shri Government High School, Gurim, Mapusa. Btach-2	110
46	25/02/2025	Vadenagar Higher Secondry School, New Vadem, Vasco	85
47	25/02/2025	Mata Secondry School, Baina-Vasco	90
48	05/03/2025	PM Shri Govt. High School, Gaval Khol, Canacona-Goa	70
49	06/03/2025	PM Shri SSV Govt High School, Kumbharjua, Marcel-Goa	46
50	10/03/2025	PM Shri SSV Govt High School, Kumbharjua, Marcel-Goa	20
51	19/03/2025	Govt Multipurpose Higher Secondry School, Borda- Batch-1	16
52	19/03/2025	Govt Multipurpose Higher Secondry School, Borda-Batch-2	32
53	24/03/2025	St. Xavier Higher Secondry School, Mapusa. Batch-1	38
54	24/03/2025	St. Xavier Higher Secondry School, Mapusa. Batch-2	38

**PHOTOGRAPH 9.1: SENSITISATION WORKSHOPS AT
VIDYA VIHAR HIGH SCHOOL, CORTALIM
21/06/2024**

**PHOTOGRAPH 9.2: SENSITISATION WORKSHOPS AT
MOUNT LITERA ZEE SCHOOL, ZUARINAGAR
21/06/2024**

PHOTOGRAPH 9.3: SENSITISATION WORKSHOPS AT LATE SHRI VINAYAK GOPAL SHENVI VIDYALAYA, RAVANFOND, NAVELIM
24/06/2024

PHOTOGRAPH 9.4: SENSITISATION WORKSHOPS AT THE PROGRESS HIGH SCHOOL, PANAJI
25/06/2024

**PHOTOGRAPH 9.5: SENSITISATION WORKSHOPS AT MAE DOS POBRES
HIGH SCHOOL, NUVEM
26/06/2024**

**PHOTOGRAPH 9.6: SENSITISATION WORKSHOPS AT J.A CHOPDEKAR MEMORIAL GOVT
HIGH SCHOOL, AGARWADA, PERNEM GOA
26/06/2024**

PHOTOGRAPH 9.7: SENSITISATION WORKSHOPS AT ST. ANTHONY HIGH SCHOOL, MONTE DE GUIRIM
27/06/2024

PHOTOGRAPH 9.8: SENSITISATION WORKSHOPS AT GOVT. HIGH SCHOOL, ZAMBAULIM, RIVONA
28/06/2024

PHOTOGRAPH 9.9: SENSITISATION WORKSHOPS AT SARVODAYA EDUCATIONAL SOCIETY HIGH SCHOOL, CURCHOREM
29/06/2024

PHOTOGRAPH 9.10: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, AMBAULIM
01/07/2024

PHOTOGRAPH 9.11: SENSITISATION WORKSHOPS AT GOA SCIENCE CENTRE, MIRAMAR
21/07/2024

PHOTOGRAPH 9.12: SENSITISATION WORKSHOPS AT AUXILIUM HIGH SCHOOL,
BENAULIM-GOA
02/07/2024

PHOTOGRAPH 9.13: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL MENKUREM, BICHOLIM
11/07/2024

PHOTOGRAPH 9.14: SENSITISATION WORKSHOPS AT ST. ANDREW'S ICSE SCHOOL, VASCO-GOA
12/07/2024

**PHOTOGRAPH 9.15: SENSITISATION WORKSHOPS AT PM SHRI GOVERNMENT HIGH SCHOOL, MORPIRLA, QUEPEM
21/07/2024**

**PHOTOGRAPH 9.16: SENSITISATION WORKSHOPS AT DADA VAIDYA HIGH SCHOOL, PONDA
19/07/2024**

PHOTOGRAPH 9.17: SENSITISATION WORKSHOPS AT JNYAN VIKAS SCHOOL, PORVORIM 26/07/2024

PHOTOGRAPH 9.18: SENSITISATION WORKSHOPS AT ROSARY HIGH SCHOOL, NAVELIM 17/08/2024

**PHOTOGRAPH 9.19: SENSITISATION WORKSHOPS AT
DON BOSCO HIGH SCHOOL, CALANGUTE
30/08/2024**

**PHOTOGRAPH 9.20: SENSITISATION WORKSHOPS AT
ST. THOMAS BOYS HIGH SCHOOL, ALDONA
30/08/2024**

PHOTOGRAPH 9.21: SENSITISATION WORKSHOPS AT CHUBBY CHEEKS SPRING VALLEY HIGH SCHOOL, PORVORIM
18/09/2024

PHOTOGRAPH 9.22: SENSITISATION WORKSHOPS AT POIRA HIGH SCHOOL, POIRA, ASSONORA-GOA
18/09/2024

PHOTOGRAPH 9.23: SENSITISATION WORKSHOPS AT T B CUNHA SCHOOL, AQUEM, MARGAO
09/12/2024

PHOTOGRAPH 9.24: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, DAUSHIRE, USGAO
06/01/2025

PHOTOGRAPH 9.25: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, BAINA VASCO 20/01/2025

PHOTOGRAPH 9.26: SENSITISATION WORKSHOPS AT GOVERNMENT HIGHER SECONDARY SCHOOL, BAINA-VASCO 20/01/2025

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**PHOTOGRAPH 9.27: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, VADENAGAR, VASCO
20/01/2024**

**PHOTOGRAPH 9.28: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, PADDI, QUEPEM-BATCH 1
24/01/2025**

PHOTOGRAPH 9.29: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, PADDI, QUEPEM-BATCH 2
24/01/2025

PHOTOGRAPH 9.30: SENSITISATION WORKSHOPS AT THE NEW EDUCATIONAL INSTITUTE, CURCHOREM- BATCH-1
03/02/2025

PHOTOGRAPH 9.31: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, BALLI
03/02/2025

PHOTOGRAPH 9.32: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, PADDI, QUEPEM- BATCH 3
04/02/2025

PHOTOGRAPH 9.33: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, SADOLXEM, CANCONA- BATCH 1
04/02/2025

PHOTOGRAPH 9.34: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, PADDI, QUEPEM- BATCH 4
05/02/2025

**PHOTOGRAPH 9.35: SENSITISATION WORKSHOPS AT
GOVERNMENT HIGH SCHOOL, SADOLXEM, CANCONA- BATCH 2
05/02/2025**

**PHOTOGRAPH 9.36: SENSITISATION WORKSHOPS AT
THE NEW EDUCATIONAL INSTITUTE, CURCHOREM- BATCH-2
05/02/2025**

PHOTOGRAPH 9.37: SENSITISATION WORKSHOPS AT PM SHRI GOVERNMENT HIGH SCHOOL, BICHOLIM 08/02/2025

PHOTOGRAPH 9.38: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, DABEM, VALPAI 11/02/2025

**PHOTOGRAPH 9.39: SENSITISATION WORKSHOPS AT
GOVERNMENT HIGH SCHOOL, THANE, SATTARI
11/02/2024**

**PHOTOGRAPH 9.40: SENSITISATION WORKSHOPS AT IMMACULATE CONCEPTION HIGH
SCHOOL, DABAL, DHARBANDORA
13/02/2024**

PHOTOGRAPH 9.41: SENSITISATION WORKSHOPS AT GOVERNMENT HIGH SCHOOL, ZAMBAULIM, RIVONA 13/02/2025

PHOTOGRAPH 9.42: SENSITISATION WORKSHOPS AT THE NEW EDUCATIONAL INSTITUTE, CURCHOREM- BATCH-3 13/02/2025

PHOTOGRAPH 9.43: SENSITISATION WORKSHOPS AT PM SHRI GOVERNMENT HIGH SCHOOL, GURIM, MAPUSA- BATCH-1
14/02/2025

PHOTOGRAPH 9.44: SENSITISATION WORKSHOPS AT SHRI HANUMAN VIDHYALAYA, VELUZ, SATTARI- GOA
22/02/2025

**PHOTOGRAPH 9.45: SENSITISATION WORKSHOPS AT PM SHRI GOVERNMENT HIGH SCHOOL, GURIM, MAPUSA. BATCH-2
24/02/2025**

**PHOTOGRAPH 9.46: SENSITISATION WORKSHOPS AT VADENAGAR HIGHER SECONDARY SCHOOL, NEW VADEM, VASCO
25/02/2025**

**PHOTOGRAPH 9.47: SENSITISATION WORKSHOPS AT
MATA SECONDRY SCHOOL, BAINA-VASCO
25/02/2025**

**PHOTOGRAPH 9.48: PM SHRI GOVT. HIGH SCHOOL,
GAVAL KHOL, CANACONA-GOA
05/03/2025**

**PHOTOGRAPH 9.49: PM SHRI SSV GOVT HIGH SCHOOL,
KUMBHARJUA, MARCEL-GOA
06/03/2025**

**PHOTOGRAPH 9.50: PM SHRI SSV GOVT HIGH SCHOOL, KUMBHARJUA, MARCEL-GOA
10/03/2025**

PHOTOGRAPH 9.51: GOVT MULTIPURPOSE HIGHER SECONDARY SCHOOL, BORDA- BATCH-1 19/03/2024

PHOTOGRAPH 9.52: GOVT MULTIPURPOSE HIGHER SECONDARY SCHOOL, BORDA-BATCH-2 19/03/2024

PHOTOGRAPH 9.53: ST. XAVIER HIGHER SECONDARY SCHOOL, MAPUSA. BATCH-1
24/03/2025

PHOTOGRAPH 9.54: SENSITISATION WORKSHOPS AT ST. XAVIER
HIGHER SECONDARY SCHOOL, MAPUSA. BATCH-2
24/03/2025

CHAPTER 10

INTELLECTUAL PROPERTY RIGHTS

CHAPTER 10
INTELLECTUAL PROPERTY RIGHTS

10.1 INTRODUCTION

Protecting Intellectual Property Rights (IPR) is essential for fostering innovation and sustaining long-term growth in today's highly competitive landscape. IPR is crucial for any innovator or start-up's success as it helps safeguard ideas and innovations against copying and theft. Innovators, often working with limited resources, must ensure that their breakthroughs are protected from duplication, as it may limit their commercial potential and discourage further advancements.

Patents, trademarks, copyrights, and other forms of intellectual property secure creators' rights and enhance industrial competitiveness. The Goa State Innovation Council (GSInC) is committed helping innovators protect their work, attract investment, and drive sustainable economic growth by strengthening the IPR framework in Goa.

This chapter highlights the Council's efforts in building IPR awareness, supporting patent filings, and fostering a culture of intellectual property protection. It also examines the evolving role of IPR in innovation-led enterprises, reinforcing its importance as a key driver of progress in Goa's dynamic entrepreneurial ecosystem.

10.2 INTELLECTUAL PROPERTY RIGHTS SESSIONS

In its consistent and relentless efforts to promote awareness and education on Intellectual Property Rights (IPR), the Goa State Innovation Council (GSInC) organized multiple dedicated sessions across educational institutions in the financial year 2024-25. These initiatives aimed to equip students and faculty with a fundamental understanding of IPR, its significance in protecting innovations, and its role in fostering a competitive business environment.

In its bid to spread knowledge and information about the IPR, GSInC conducted several workshops and training sessions across the length and breadth of Goa, including far-off locations such as Bicholim, Curtorim, Sanquelim, etc. These interactive sessions served as a platform to encourage curiosity, clarify misconceptions, and inspire young minds to integrate IPR considerations into their academic and professional journeys. Through such initiatives, GSInC continues to reinforce its commitment to building a strong culture of innovation and intellectual property awareness in Goa.

10.3 STATUS REPORT

Session conducted: 11
Total participants: 569

The Goa State Innovation Council (GSInC) successfully conducted 11 Intellectual Property Rights (IPR) sessions during the year, engaging a total of 569 participants from diverse backgrounds, including students, entrepreneurs, and industry professionals.

These sessions provided invaluable insights into the fundamentals of intellectual property, covering key aspects such as patents, trademarks, copyrights, and design protection. With a focus on fostering a culture of innovation and safeguarding original ideas, the sessions empowered participants with the knowledge required to navigate the complexities of intellectual property laws and leverage them for competitive advantage.

Through expert-led discussions, interactive workshops, and case studies, the IPR sessions reinforced GSInC's commitment to strengthening Goa's innovation ecosystem by equipping individuals with the tools to protect and commercialize their creative endeavors.

TABLE 10.1: LIST OF IPR SESSIONS

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
1	27/01/2025	Govt High School, Menkurem, Bicholim	50
2	07/02/2025	Govt College of Arts, Science and Commerce, Sanqulim	30
3	18/02/2025	Government College of Arts, Science And Commerce, Khandola, Marcel	85
4	06/03/2025	St. Joseph's Institute, Vasco	70
5	06/03/2025	The New Educational Institute, Curchorem	38
6	07/03/2025	St. Xavier's Institute, Curtorim	64
7	07/03/2025	Padre Conceicao College of Engineering	30
8	08/03/2025	Shri Nirankar Vidyalaya, Mashem	42
9	08/03/2025	Shri Shradhanand Vidyalaya, Poinguinim	40
10	10/03/2025	St. Joseph Vaz College, Cortalim	70
11	28/03/2025	Carmel college of Arts & Science	50

10.1: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT GOVERNMENT HIGH SCHOOL, MENKUREM, BICHOLIM-GOA
27/01/2025

10.2: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT GOVERNMENT COLLEGE OF ARTS, SCIENCE & COMMERCE, SANQUELIM
07/02/2025

**10.3: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT
GOVERNMENT COLLEGE OF ARTS, SCIENCE AND COMMERCE, KHANDOLA, MARCEL
18/02/2025**

**10.4: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT
ST. JOSEPH'S INSTITUTE, VASCO
06/03/2025**

**PHOTOGRAPH 10.5: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT
THE NEW EDUCATIONAL INSTITUTE, CURCHOREM
07/03/2025**

**PHOTOGRAPH 10.6: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT ST. XAVIER'S
INSTITUTE, CURTORIM
07/03/2025**

**PHOTOGRAPH 10.7: INTELLECTUAL PROPERTY RIGHTS SEMINAR
AT PADRE CONCEIÇÃO COLLEGE OF ENGINEERING, VERNA
07/03/2025**

**PHOTOGRAPH 10.8: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT
NIRAKAR HIGH SCHOOL, MASHEM
08/03/2025**

PHOTOGRAPH 10.9: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT SHRI SHRADHANAND VIDYALAYA, POINGUINIM
08/03/2025

PHOTOGRAPH 10.10: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT ST. JOSEPH VAZ COLLEGE, CORTALIM
10/03/2025

PHOTOGRAPH 10.11: INTELLECTUAL PROPERTY RIGHTS SEMINAR AT CARMEL COLLEGE OF ARTS & SCIENCE
28/03/2025

CHAPTER 11
FACULTY DEVELOPMENT PROGRAM

CHAPTER 11
FACULTY DEVELOPMENT PROGRAM

11.1 INTRODUCTION

Empowering Educators for Entrepreneurial Excellence

Entrepreneurship stands as a beacon of innovation and resilience, illuminating the path towards a future fueled by ingenuity and enterprise. Yet, to cultivate a generation of entrepreneurial trailblazers, we must first equip our educators with the tools and knowledge needed to ignite the spark of entrepreneurship within the hearts and minds of their students.

Enter the Faculty Development Programme (FDP) spearheaded by the Goa State Innovation Council (GSInC), a visionary initiative aimed at empowering faculties across science and technology institutions. At the core of this program lies a steadfast commitment to nurturing a culture of innovation and entrepreneurial spirit, laying the foundation for a self-reliant and prosperous India.

Conducted across a diverse array of institutions including science and engineering colleges, polytechnic institutes, and industrial training centers, the FDP serves as a catalyst for transformation, equipping educators with the pedagogical prowess and entrepreneurial acumen needed to guide and mentor the next generation of innovators.

Spanning a wide spectrum of topics ranging from entrepreneurship development to communication skills, creativity, and problem-solving, the FDP offers a comprehensive curriculum designed to empower educators with the skills and insights necessary to foster a culture of innovation within their classrooms.

Through dynamic and interactive training methodologies, including hands-on workshops, case study analyses, and engaging interactions with industry luminaries and entrepreneurs, the FDP cultivates a vibrant ecosystem of learning and collaboration, empowering educators to inspire and empower the entrepreneurial leaders of tomorrow.

As we embark on this transformative journey, guided by the principles of innovation and excellence, the Faculty Development Programme emerges as a beacon of hope and opportunity, illuminating the path towards a future defined by entrepreneurial excellence and sustainable growth.

Schedule

FACULTY DEVELOPMENT PROGRAM 2024-25

Venue: Auditorium, 2nd Floor, Don Bosco College of Engineering, Fatorda

SR. NO.	FROM	TO	TOPICS
Day 1 6th Mar 2025 (Thr)	10:00 AM	10:30 AM	Registration, Inaugural Session & Welcome Address
	10:30 AM	11:30 AM	Key Note Address Speaker: Shri Mangirish Salelkar, CEO & Co-Founder UMANG Group
	Tea Break		
	11:45 AM	11:45 AM	Introduction to Goa State Innovation Council's (GSInC) Virtual Innovation Register (VIR) & support schemes for students project Ideas. Speaker: SHRI SUDIP FALDESAI, Project Officer, GSIn
	Lunch Break		
	2:00 PM	3:00 PM	Innovation & Technology in the Army: Enhancing Warfare, Operations & Student Collaborations Speaker: LT COL TEJAS MEHTA, Indian Army, HQ 2 STC, Goa
	Tea Break		
	3:30 PM	5:00 PM	Session on Motivative student innovative projects, Creative Thinking, Student Ideas to Startups Speaker: DR. SHRADDHA DAMLE, IP Counsel, JetSynthesys Pvt Ltd, Pune

SR. NO.	FROM	TO	TOPICS
Day 2 7th Mar 2025 (Fri)	10:00 AM	1:00 PM	Patenting Student Projects Speaker: SHRI RAGHAVENDRA BHAT, Founder, INNOIPS, Pune
	Lunch Break		
	2:00 PM	4:00 PM	Think Design Prototype Workshop on Prototyping Student Ideas to Minimum Viable Products (MVP)
	4:30 PM	5:00 PM	Valedictory Function, Certificate Distribution & Group Photo
	High Tea		

II.2 STATUS REPORT

Program Conducted: 01
Total participants: 53

TABLE 10.2: LIST OF PARTICIPANTS FOR THE FACULTY DEVELOPMENT PROGRAM

SR. NO.	NAME
1	DR. ALVITA DE SOUZA
2	DR. DEEPIKA KARMALKAR
3	DR. SUFOLA DAS CHAGAS SILVA E ARAUJO
4	DILMA VELIP
5	MRS. VINITA MAYUR BHANDARI
6	SITHAL R. FAL DESSAI
7	DR. JOHNROSS V. ALBUQUERQUE
8	DR. BOTHIRAJA CHELLAMPILLAI
9	DR RAVEENDRANATH NAYAK
10	DR. RAJASHREE GUDE

SR. NO.	NAME
11	SONIA X MASHAL
12	MRS RAMA AMBAR SHENVI BORKAR
13	NILAMBARI SHAILENDRA GURAV
14	NIKITA UDAY RIVONKER
15	NITIN G. GAWAS
16	DHIRAJ RAMAKANT NAIK
17	DR. ADITI VENKATESH NAIK
18	MS. ANUSHKA AMARNATH PANJIKAR
19	VAISHNAVI MARDOLKER
20	ANTHONY RODRIGUES
21	RITESH NARAYAN VAIGANKAR
22	ISHWARI KALANGUTKAR
23	DR. SANJAY D. GAIKWAD
24	VIVEK KRISHNANAND RANE
25	DEVANAND VELINGKAR
26	MS. DIXITA CHANDRAKANT SHINDE
27	NIYATI KALANGUTKAR
28	GAURAV GAJANAN TIKEKAR
29	FIONA PERPETUAL COUTINHO
30	SWAPNA VASUDEV NARVEKAR
31	SARVESHA AVDHOOT DHAIMODKAR
32	DR. RESHAM KAUR BHAMBRA
33	MILTON PIRES
34	MS. APURVA A. NAIK

SR. NO.	NAME
35	DEVENDRAPRASAD CHANDRAKANT KUVELKAR
36	DIOGO DSOUZA
37	ADITYA SANKHALKAR
38	DR. BIPIN NAMDEV BANDEKAR
39	JARRET FERNANDES
40	VICENTE COLACO
41	VISHAL JAMUNI
42	BHUPESH A MADKAIKAR
43	AVINASH ANNARAO PATIL
44	SATYAVAN PANDURANG GAONKAR
45	BANDANA YADAV
46	NILAMBARI SHAILENDRA GURAV
47	LALAT INDU GIRI
48	ROSARIO BAPTISTA
49	DR RAGHUVIR L. CHARY NACHINOLKAR
50	DR NIYATI KALANGUTKAR
51	DR. GOVIND VISHNOO BHAGAT
52	DR. PURVA PANDIT VASTA
53	DEVANAND R GAONKAR

Faculty Development Program Status Report

The Goa State Innovation Council (GSInC) successfully organized a Faculty Development Program (FDP) for the academic year 2024-25, aimed at enhancing the capacity of educators to foster innovation and entrepreneurship among students. The program was held at the Auditorium, 2nd Floor, Don Bosco College of Engineering, Fatorda, and saw the participation of 53 faculty members from various institutions.

This two-day intensive program, conducted on March 6th and 7th, 2025, featured expert-led sessions covering a diverse range of topics essential for guiding student innovation. Speakers from industry, academia, and the armed forces provided valuable insights into intellectual property rights, startup ecosystems, emerging technologies, and the role of faculty in nurturing innovative thinking.

Key Program Highlights:
- Industry Perspectives:
  Shri Mangirish Salelkar (CEO & Co-Founder, UMANG Group) delivered a keynote address emphasizing the role of faculty in bridging academia with real-world innovation.

- Virtual Innovation Register (VIR):
  Shri Sudip Faldesai (Project Officer, GSInC) introduced GSInC's Virtual Innovation Register and support schemes for student projects.

- Innovation in Defense:
  Lt Col Tejas Mehta (Indian Army, HQ 2 STC, Goa) shared insights on the role of technology in modern warfare and potential student collaborations.

- Motivating Student Projects:
  Dr. Shraddha Damle (IP Counsel, JetSynthesys Pvt Ltd, Pune) conducted a session on fostering creativity and helping students transition from ideas to startups.

- Patenting Student Innovations:
  Shri Raghavendra Bhat (Founder, INNOIPS, Pune) guided faculty on the patenting process for student projects.

- Hands-on Workshop:
  A practical Think-Design-Prototype workshop was conducted to help faculty mentor students in developing Minimum Viable Products (MVPs).

The valedictory session, held on March 7th, marked the successful conclusion of the program with certificate distribution and a group photo, symbolizing the collective commitment of educators towards nurturing the next generation of innovators.

Through this initiative, GSInC reaffirmed its mission to empower faculty with the tools and knowledge necessary to inspire student-led innovation, drive research-based entrepreneurship, and contribute to Goa's growing innovation ecosystem.

PHOTOGRAPH 11.1: DAY 1 - REV. FR. KINLEY D'CRUZ, DIRECTOR OF DON BOSCO COLLEGE OF ENGINEERING, FATORDA DELIVERING THE WELCOME ADDRESS DURING THE INAUGURAL SESSION OF THE FDP

PHOTOGRAPH 11.2: DAY 1 - SHRI MANGIRISH SALELKAR, CEO & CO-FOUNDER OF UMANG GROUP, DELIVERING THE KEYNOTE ADDRESS DURING THE FDP.

PHOTOGRAPH 11.3: DAY 1- SHRI SUDIP FALDESAI, PROJECT OFFICER, GSINC, INTRODUCED THE VIRTUAL INNOVATION REGISTER (VIR) & SUPPORT SCHEMES FOR STUDENT PROJECT IDEAS BY GOA STATE INNOVATION COUNCIL (GSINC) DURING THE FDP.

PHOTOGRAPH 11.4: DAY 1- LT. COL. TEJAS MEHTA, INDIAN ARMY, HQ 2 STC, GOA, DELIVERING A SESSION ON INNOVATION & TECHNOLOGY IN THE ARMY: ENHANCING WARFARE, OPERATIONS & STUDENT COLLABORATIONS DURING THE FDP.

PHOTOGRAPH 11.5: DAY 1 - DR. SHRADDHA DAMLE, IP COUNSEL, JETSYNTHESYS PVT. LTD., PUNE, DELIVERING A SESSION ON MOTIVATING STUDENT INNOVATION PROJECTS, CREATIVE THINKING, AND TRANSFORMING STUDENT IDEAS INTO STARTUPS DURING THE FDP.

PHOTOGRAPH 11.6: DAY 2 - SHRI RAGHAVENDRA BHAT, FOUNDER, INNOIPS, PUNE, DELIVERING A SESSION ON PATENTING STUDENT PROJECTS DURING THE FDP.

PHOTOGRAPH 11.7: DAY 2 - SESSION ON THINK, DESIGN, PROTOTYPE – A WORKSHOP ON TRANSFORMING STUDENT IDEAS INTO MINIMUM VIABLE PRODUCTS (MVP) AT THE RAPID PROTOTYPING LAB OF GSINC.

CHAPTER 12
STEM - THINK DESIGN PROTOTYPING WORKSHOPS

CHAPTER 12
STEM - THINK DESIGN PROTOTYPING WORKSHOPS

12.1 INTRODUCTION

Innovation begins with ideas, but it is through prototyping that these ideas take shape, evolve, and become real-world solutions. The Think Design Prototyping Workshops at the Goa State Innovation Council (GSInC) serve as a bridge between imagination and execution, providing a structured space where creativity meets technology to foster tangible progress.

Prototyping is a dynamic and iterative process—one that blends research, experimentation, and hands-on application. It allows innovators, entrepreneurs, and students to create functional models of their ideas, test their feasibility, and refine them based on feedback. Whether it's a product, service, or technology-driven concept, prototyping helps bring clarity, structure, and precision to innovation. By developing cost-effective prototypes, participants can better communicate their vision to potential stakeholders, secure investments, and accelerate the journey from concept to market.

At GSInC, STEM-focused Think Design Prototyping Workshops are designed to equip participants with cutting-edge resources such as 3D printers, laser cutting machines, and advanced fabrication tools. These workshops provide a collaborative and hands-on learning environment, empowering innovators to explore emerging technologies and push the boundaries of design thinking.

Beyond entrepreneurs and inventors, GSInC also extends prototyping education to schools and colleges, ensuring that young minds are exposed to innovation at an early stage. By integrating STEM principles with practical application, these workshops nurture a problem-solving mindset, cultivate technical skills, and ignite a passion for scientific exploration. Through strategic collaborations with educational institutions, GSInC is fostering a future-ready generation of thinkers, designers, and innovators.

More than just a technical exercise, the Think Design Prototyping Workshops at GSInC represent a culture of transformation—where ideas are not just imagined but brought to life. From conceptualization to execution, from theory to practice, these workshops empower participants to take bold steps toward building a smarter, more innovative, and future-ready Goa.

12.2 LIST OF *W*ORKSHOPS

Empowering the next generation of innovators requires more than just theoretical knowledge—it demands hands-on experience, experimentation, and a space to bring ideas to life. Recognizing this, the Goa State Innovation Council (GSInC) has continued its mission to foster a culture of creativity, problem-solving, and technical proficiency among students through its Think Design Prototyping Workshops.

During the year 2024-25, GSInC successfully organized 54 workshops, engaging a total of 1,754 participants from various schools, colleges, and educational institutions. These workshops provided students with a firsthand experience in prototyping, allowing them to explore diverse technological domains such as robot building, laser engraving, 3D printing, and electronics prototyping.

Each session was structured to introduce participants to the state-of-the-art tools and resources available at GSInC's Prototyping Lab, covering a wide range of topics, including 3D Printing, Laser Engraving, Robotics, and Product Design Prototyping. Through interactive demonstrations and guided activities, students were encouraged to explore, build, and refine their ideas into tangible prototypes—bridging the gap between conceptualization and realization.

By making prototyping accessible to young minds, GSInC continues to fuel innovation at the grassroots level, ensuring that students are equipped with the skills, confidence, and exposure needed to thrive in a technology-driven future.

<div align="center">

Total number of sessions conducted: 53
Total Number of participants: 1714

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TABLE 12.1: LIST OF EDUCATIONAL INSTITUTIONS PRTICIPATING IN STEM - THINK DESIGNING PROTOTYPING WORKSHOP

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
1	04/04/2024	SS Dempo College of Commerce & Economics, Panaji	40
2	19/04/2024	Keerti Vidhyalaya, Sivolim	21
3	14/06/2024	Late Shri Vinayak Gopal Shenvi Vidyalaya, Ravanfond, Navelim	40
4	04/07/2024	Holy Spirit School, Margao. Batch-1	38
5	05/07/2024	Holy Spirit School, Margao. Batch-2	33
6	11/07/2024	St. Theresa High School, Raia	38
7	18/07/2024	The Rosary High School, Cujira-Bambolim Goa.	30
8	19/07/2024	Teachers from Higher Secondary School, Goa	38
9	24/07/2024	Goa Multi Faculty College, Dharbandora	40
10	16/08/2024	St. Mary's School, Varca	39
11	22/08/2024	Govt College of Arts, Science & Commerce, Sanquelim	34
12	23/08/2024	Govt High School, Zambaulim, Rivona	40
13	26/08/2024	Padre Conceicao College of Engineering, Verna	40
14	27/08/2024	Govt High School, Menkurem, Bicholim-Goa	43
15	28/08/2024	Our Lady of Fatima High School, Rivona	34
16	02/09/2024	Rosary College of Commerce & Arts, Navelim. Batch-1	29
17	03/09/2024	Rosary College of Commerce & Arts, Navelim. Batch-2	32
18	20/09/2024	Our Lady of Rosary High School, Fatorda-Goa	37

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
19	01/10/2024	GVM's College, Ponda	40
20	07/10/2024	S. S. Dempo College of Commerce & Economics, Cujira	38
21	10/10/2024	Govt. College of Arts, Science & Commerce, Quepem, Goa	30
22	16/10/2024	Multipurpose Higher Secondary School, Borda. Batch-1	56
23	16/10/2024	Multipurpose Higher Secondary School, Borda. Batch-2	80
24	17/10/2024	Cuncolim Educational Society's College of Arts & Commerce (CES), Cuncolim, Goa	38
25	02/12/2024	Cuncolim United Higher Secondary School, Cuncolim	24
26	6/12/2024	RNM Government Higher Secondary School, Baina, Vasco	17
27	6/12/2024	CPM Government High School, Baina, Vasco	16
28	16/12/2024	Government High School, Paddi	34
29	30/12/2024	Engineering Students- Attended Prototyping Workshop	5
30	13/01/2025	Govternment College Arts, Science & Commerce, Quepem	38
31	16/01/2025	Government High School, Fatorpa, Quepem	25
32	21/01/2025	Govt High School, Dhaushire, Usgao	45
33	22/01/2025	Margao Government Industrial Training Institute, Borda	25
34	28/01/2025	Navy Childrens School, Vasco	25
35	04/02/2025	Engineering Students- Attended Prototyping Workshop	10
36	04/02/2025	Govt College Of Commerce and Economics, Borda, Margao.	33

SR. NO.	DATE	SCHOOLS/COLLEGES/INSTITUTIONS	NO. OF ATTENDEES
37	05/02/2025	Engineering Students- Attended Prototyping Workshop	25
38	06/02/2025	Government Polytechnic Curchorem, Curchorem	27
39	06/02/2025	Engineering Students- Attended Prototyping Workshop	12
40	07/02/2025	Infant Jesus Higher Secondary School, Colva- Batch-1	35
41	07/02/2025	Infant Jesus Higher Secondary School, Colva- Batch-2	30
42	07/02/2025	Engineering Students- Attended Prototyping Workshop	15
43	12/02/2025	Rosary College of Commerce & Arts, Navelim-Goa	41
44	15/02/2025	Fr. Agnel Higher Secondary School, Pilar, Goa	22
45	19/02/2025	Pope John XXIII High School, Quepem-Goa	37
46	20/02/2025	Cuncolim United Higher Secondary School, Cuncolim-Goa	34
47	27/02/2025	Agnel Institute of Technology and Design, Assagao. Batch-1	35
48	27/02/2025	Agnel Institute of Technology and Design, Assagao. Batch-2	30
49	03/03/2025	Agnel Polytechnic Verna, Verna-Goa. Batch-1	27
50	04/03/2025	Agnel Polytechnic Verna, Verna-Goa. Batch-2	27
51	07/02/2025	Teachers & Professors from Colleges-FDP	50
52	11/02/2025	PM Shri SSV Govt Hifg School, Kumbharzua, Marcel-Goa	24
53	18/02/2025	Govt High School, Kundai, Ponda-Goa	18

12.3 STAUS REPORT

The Think Design Prototyping Workshops organized by the Goa State Innovation Council (GSInC) have continued to make a significant impact, equipping students and educators across the state with hands-on experience in prototyping, design thinking, and innovation.

During the year 2024-25, GSInC successfully conducted 54 workshops that served as dynamic platforms for creativity, critical thinking, and problem-solving, allowing students to explore the limitless possibilities of prototyping and product development.

Key Highlights of the Year's Workshops:

- **SS Dempo College of Commerce & Economics, Panaji:**
  Engaged 40 students in prototyping methodologies on April 4, 2024.
- **Holy Spirit School, Margao:**
  Conducted in two batches, introducing 71 students to design and prototyping tools on July 4-5, 2024.
- **Multipurpose Higher Secondary School, Borda:**
  Hosted the largest workshop of the year, engaging a total of 136 students in two sessions on October 16, 2024.
- **Engineering Students Prototyping Workshops:**
  Several dedicated sessions provided hands-on training for engineering students, ensuring they gained practical exposure to advanced prototyping techniques.
- **Faculty Development Program (FDP) for Teachers & Professors:**
  A specialized session on February 7, 2025, equipped 50 faculty members with the necessary skills to integrate prototyping methodologies into their curriculum.

Through these workshops, participants had access to state-of-the-art tools, including 3D printers, laser engraving machines, and rapid prototyping equipment, enabling them to transform ideas into tangible prototypes.

Looking ahead, GSInC remains committed to expanding the reach of these workshops and ensuring that students, educators, and innovators across Goa have the opportunity to develop essential 21st-century skills. By fostering strategic collaborations with educational institutions and industry partners, GSInC aims to strengthen Goa's innovation ecosystem and inspire the next generation of thinkers, makers, and entrepreneurs.

PHOTOGRAPH 12.1: STUDENTS FROM SS DEMPO COLLEGE OF COMMERCE & ECONOMICS, PANAJI
04/04/2024

PHOTOGRAPH 12.2: STUDENTS FROM KEERTI VIDHYALAYA, SIVOLIM
19/04/2024

PHOTOGRAPH 12.3: STUDENTS FROM LATE SHRI VINAYAK GOPAL SHENVI VIDYALAYA, RAVANFOND, NAVELIM
14/06/202424

PHOTOGRAPH 12.4: STUDENTS FROM HOLY SPIRIT SCHOOL, MARGAO. BATCH-1
04/07/2024

PHOTOGRAPH 12.5: STUDENTS FROM HOLY SPIRIT SCHOOL, MARGAO. BATCH-2
05/07/2024

PHOTOGRAPH 12.6: STUDENTS FROM ST. THERESA HIGH SCHOOL, RAIA
11/07/2024

PHOTOGRAPH 12.7: STUDENTS FROM THE ROSARY HIGH SCHOOL, CUJIRA-BAMBOLIM
18/07/2024

**PHOTOGRAPH 12.8: STUDENTS FROM TEACHERS FROM HIGHER
SECONDARY SCHOOL, GOA
19/07/2024**

**PHOTOGRAPH 12.9: STUDENTS FROM GOA MULTI FACULTY COLLEGE, DHARBANDORA
24/07/2024**

**PHOTOGRAPH 12.9: STUDENTS FROM GOA MULTI FACULTY COLLEGE, DHARBANDORA
24/07/2024**

PHOTOGRAPH 12.10: STUDENTS FROM ST. MARY'S SCHOOL, VARCA
16/08/2024

PHOTOGRAPH 12.11: STUDENTS FROM GOVERNMENT COLLEGE OF ARTS, SCIENCE & COMMERCE, SANQUELIM
22/08/2024

**PHOTOGRAPH 12.12: STUDENTS FROM GOVERNMENT
HIGH SCHOOL, ZAMBAULIM, RIVONA
23/08/2024**

**PHOTOGRAPH 12.13: STUDENTS FROM PADRE CONCEICAO
COLLEGE OF ENGINEERING, VERNA
26/08/2024**

PHOTOGRAPH 12.14: STUDENTS FROM GOVERNMENT HIGH SCHOOL, MENKUREM, BICHOLIM
27/08/2024

PHOTOGRAPH 12.15: STUDENTS FROM OUR LADY OF FATIMA HIGH SCHOOL, RIVONA
28/08/2024

PHOTOGRAPH 12.16: STUDENTS FROM ROSARY COLLEGE OF COMMERCE & ARTS, NAVELIM. BATCH-1
02/09/2024

PHOTOGRAPH 12.17: STUDENTS FROM ROSARY COLLEGE OF COMMERCE & ARTS, NAVELIM. BATCH-2
03/09/2024

PHOTOGRAPH 12.18: STUDENTS FROM OUR LADY OF ROSARY HIGH SCHOOL, FATORDA
20/09/2024

PHOTOGRAPH 12.19: STUDENTS FROM GVM'S COLLEGE, PONDA
01/10/2024

PHOTOGRAPH 12.20: STUDENTS FROM S. S. DEMPO COLLEGE OF
COMMERCE & ECONOMICS, CUJIRA
07/10/2024

PHOTOGRAPH 12.21: STUDENTS FROM GOVERNMENT COLLEGE OF ARTS,
SCIENCE & COMMERCE, QUEPEM
10/10/2024

**PHOTOGRAPH 12.22: STUDENTS FROM MULTIPURPOSE HIGHER
SECONDARY SCHOOL, BORDA. BATCH-1
16/10/2024**

**PHOTOGRAPH 12.23: STUDENTS FROM MULTIPURPOSE HIGHER
SECONDARY SCHOOL, BORDA. BATCH-2
16/10/2024**

**PHOTOGRAPH 12.24: STUDENTS FROM CUNCOLIM EDUCATIONAL SOCIETY'S
COLLEGE OF ARTS & COMMERCE, CUNCOLIM
17/10/2024**

**PHOTOGRAPH 12.25: STUDENTS FROM CUNCOLIM UNITED
HIGHER SECONDARY SCHOOL, CUNCOLIM
02/12/2024**

**PHOTOGRAPH 12.26: STUDENTS FROM RNM GOVERNMENT
HIGHER SECONDARY SCHOOL, BAINA, VASCO
6/12/2024**

**PHOTOGRAPH 12.27: STUDENTS FROM CPM GOVERNMENT
HIGH SCHOOL, BAINA, VASCO
6/12/2024**

PHOTOGRAPH 12.28: STUDENTS FROM GOVERNMENT HIGH SCHOOL, PADDI
16/12/2024

PHOTOGRAPH 12.29: STUDENTS FROM ENGINEERING STUDENTS- ATTENDED PROTOTYPING WORKSHOP
30/12/2024

PHOTOGRAPH 12.30: STUDENTS FROM GOVERNMENT COLLEGE ARTS, SCIENCE & COMMERCE, QUEPEM
13/01/2025

**PHOTOGRAPH 12.31: STUDENTS FROM GOVERNMENT
HIGH SCHOOL, FATORPA, QUEPEM
16/01/2025**

**PHOTOGRAPH 12.32: STUDENTS FROM GOVERNMENT HIGH SCHOOL,
DHAUSHIRE, USGAO
21/01/2025**

PHOTOGRAPH 12.33: STUDENTS FROM MARGAO GOVERNMENT INDUSTRIAL TRAINING INSTITUTE, BORDA
22/01/2025

PHOTOGRAPH 12.34: STUDENTS FROM NAVY CHILDREN SCHOOL, VASCO
28/01/2025

PHOTOGRAPH 12.35: STUDENTS FROM ENGINEERING COLLEGES ATTENDING PROTOTYPING WORKSHOP
04/02/2025

PHOTOGRAPH 12.36: STUDENTS FROM GOVERNMENT COLLEGE OF COMMERCE AND ECONOMICS, BORDA, MARGAO
04/02/2025

PHOTOGRAPH 12.37: STUDENTS FROM ENGINEERING COLLEGES ATTENDING PROTOTYPING WORKSHOP
04/02/2025

PHOTOGRAPH 12.38: STUDENTS FROM GOVERNMENT POLYTECHNIC CURCHOREM, CURCHOREM
06/02/2025

PHOTOGRAPH 12.39: STUDENTS FROM ENGINEERING COLLEGES ATTENDING PROTOTYPING WORKSHOP
06/02/2025

PHOTOGRAPH 12.40: STUDENTS FROM INFANT JESUS HIGHER SECONDARY SCHOOL, COLVA- BATCH-1
07/02/2025

PHOTOGRAPH 12.41: STUDENTS FROM INFANT JESUS HIGHER SECONDARY SCHOOL, COLVA- BATCH-2
07/02/2025

PHOTOGRAPH 12.42: STUDENTS FROM ENGINEERING COLLEGES ATTENDING PROTOTYPING WORKSHOP
07/02/2025

PHOTOGRAPH 12.43: STUDENTS FROM ROSARY COLLEGE OF COMMERCE & ARTS, NAVELIM
12/02/2025

PHOTOGRAPH 12.44: STUDENTS FROM FR. AGNEL HIGHER SECONDARY SCHOOL, PILAR
15/02/2025

PHOTOGRAPH 12.45: STUDENTS FROM POPE JOHN XXIII HIGH SCHOOL,
QUEPEM-GOA
15/02/2025

PHOTOGRAPH 12.46: STUDENTS FROM CUNCOLIM UNITED
HIGHER SECONDARY SCHOOL, CUNCOLIM
20/02/2025

PHOTOGRAPH 12.47: STUDENTS FROM AGNEL INSTITUTE OF TECHNOLOGY AND DESIGN, ASSAGAO. BATCH-1
27/02/2025

PHOTOGRAPH 12.48: STUDENTS FROM AGNEL INSTITUTE OF TECHNOLOGY AND DESIGN, ASSAGAO. BATCH-2
27/02/2025

PHOTOGRAPH 12.49: STUDENTS FROM AGNEL POLYTECHNIC VERNA, VERNA-GOA. BATCH-1
03/03/2025

PHOTOGRAPH 12.50: STUDENTS FROM AGNEL POLYTECHNIC VERNA, VERNA-GOA. BATCH-2
04/03/2025

PHOTOGRAPH 12.51: VISITORS DURING FACULTY DEVELOPMENT PROGRAM
07/02/2025

**PHOTOGRAPH 12.52: STUDENTS FROM PM SHRI SSV GOVERNMENT
HIGH SCHOOL KUMBHARJUA
11/02/2025**

**PHOTOGRAPH 12.53: STUDENTS FROM GOVERNMENT HIGH SCHOOL,
KUNDAI, PONDA
18/02/2025**

CHAPTER 13
RISK CAPITAL SESSION

CHAPTER 13
RISK CAPITAL SESSION

13.1 INTRODUCTION

Empowering Entrepreneurs with Risk Capital Knowledge

Innovation drives progress, but transforming groundbreaking ideas into successful ventures requires more than just vision—it demands access to capital. Risk capital, or venture capital, is the fuel that enables entrepreneurs to take bold steps, scale their innovations, and create lasting impact. Understanding how to secure funding is crucial for turning potential into success, and that's where the Goa State Innovation Council (GSInC) steps in.

GSInC's Risk Capital Sessions are designed to equip aspiring entrepreneurs with the practical knowledge and strategic insights needed to navigate the world of venture funding. These sessions break down the complexities of securing investments, providing participants with an in-depth understanding of investor expectations, funding strategies, and financial structuring. Through interactive discussions, expert-led workshops, and hands-on pitch training, entrepreneurs learn how to position their ideas, attract investors, and accelerate business growth.

By demystifying the fundraising process and fostering financial acumen, GSInC empowers innovators to confidently take the next step in their entrepreneurial journeys, ensuring that promising ideas do not remain confined to the drawing board but evolve into game-changing enterprises.

SR NO	DATE	NAME OF THE COLLEGE	NO. OF STUDENTS
1	26/07/2024	Rosary College, Navelim	90
2	21/10/2024	Startups and College Students	20

The Goa State Innovation Council (GSInC) conducted two Risk Capital Sessions in 2024, equipping students and aspiring entrepreneurs with critical knowledge about securing venture funding. These sessions provided valuable insights into investor expectations, financial planning, and fundraising strategies, enabling participants to navigate the complexities of risk capital effectively.

13.2 STATUS REPORT

Session Details

DATE	VENUE	PARTICIPANTS	DETAILS
26th July 2024	Prototyping Lab	Startups & College Students 90	This session introduced students to the fundamentals of risk capital, helping them understand the role of venture funding in scaling innovative ideas. Through expert-led discussions and real-world case studies, participants gained clarity on investment readiness and financial planning.
21st October 2024	Rosary College, Navelim	Startups & College Students 20	Designed for both early-stage startups and aspiring entrepreneurs, this session provided an interactive platform for participants to explore strategies for securing investment. The discussions covered investor expectations, pitch development, and best practices for engaging with venture capitalists. These Risk Capital Sessions reaffirm GSInC's commitment to empowering Goa's entrepreneurial ecosystem, ensuring that innovators are well-equipped to attract funding and scale their ventures successfully. By fostering a deeper understanding of venture capital and its role in economic growth, GSInC continues to drive progress and nurture the next generation of entrepreneurs.

**PHOTOGRAPH 13.1: STUDENTS AND STARTUPS ATTENDING
THE WORKSHOP AT RAPID PROTOYPING LAB
26/7/2024**

PHOTOGRAPH 13.2:

CHIEF GUEST SHRI JOSE MANUEL NORONHA, CHAIRMAN, GSINC, ADDRESSING THE ATTENDEES, FOLLOWED BY A SESSION ON RISK CAPITAL DELIVERED BY SHRI RAHUL BAGGA, MANAGING DIRECTOR, AUMIRAH IP, DELHI 21/10/2024

CHAPTER 14
WOMEN CENTRIC WORKSHOP

CHAPTER 14
WOMEN CENTRIC WORKSHOP

14.1 INTRODUCTION

Driving Women-Led Innovation and Entrepreneurship

Women are shaping industries, driving innovation, and building businesses that redefine success. Recognizing their potential as game-changers, the Goa State Innovation Council (GSInC) is committed to equipping them with the right tools, knowledge, and support to turn bold ideas into thriving enterprises.

GSInC has been actively organizing specialized workshops and seminars designed to fuel women's entrepreneurial ambitions. These sessions are structured to provide strategic insights, technical skills, and access to critical resources that help women-led ventures scale and sustain growth. Participants gain exposure to government schemes, funding opportunities, and industry networks, ensuring they have the backing needed to navigate the competitive business landscape.

The workshops go beyond theoretical learning—hands-on training, expert mentoring, and interactive discussions create a dynamic environment where women sharpen their business acumen, refine their strategies, and build enterprises that stand the test of time. By fostering a culture of leadership and innovation, GSInC is driving a new wave of women entrepreneurs who are setting benchmarks across industries.

With knowledge, strategy, and execution as the foundation, this initiative is not just about supporting women—it is about ensuring they lead, innovate, and transform the entrepreneurial landscape.

Schedule

SR NO	TOPIC	DURATION
1	Introduction of Goa State Innovation Council & VIR	30 mins
2	Ideation with a focus on Problem-solving, Creativity, Innovation	30 mins
3	How to convert an Idea into an Enterprise?	30 mins
4	Various Government Funds and Schemes assistance for starting up	30 mins

14.2 STATUS REPORT

Workshops
Conducted
01

Total
Participants
50

The Goa State Innovation Council (GSInC) continues its commitment to empowering women through skill-building and entrepreneurship-focused initiatives. As part of this mission, a Women-Centric Workshop was conducted at Carmel College, Nuvem, on January 23, 2025, from 11:00 AM to 1:00 PM, with the participation of 50 students.

This workshop was designed to provide women with the knowledge, tools, and resources needed to transform innovative ideas into sustainable businesses. Sessions focused on problem-solving, innovation, and leveraging available state infrastructure to build scalable enterprises. The interactive format encouraged participants to explore entrepreneurial possibilities and gain practical insights into government schemes, funding opportunities, and regulatory clearances that support women-led ventures.

Through expert-led discussions, hands-on learning experiences, and mentorship opportunities, the workshop equipped attendees with the confidence and strategic direction to navigate the entrepreneurial landscape successfully. By fostering a culture of leadership, resilience, and innovation, GSInC reaffirms its role in driving women-led entrepreneurship and strengthening Goa's innovation ecosystem.

SR NO	DATE	NAME OF THE COLLEGE	TIME	NO. OF STUDENTS
1	23/01/2025	Carmel College, Nuvem	11.00 am to 1.00 pm	50

PHOTOGRAPH 14.1: WOMEN CENTRIC WORKSHOP AT CARMEL COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN, NUVEM
23/01/2025

CHAPTER 15
INDUSTRY INSTITUTE INTERACTION

CHAPTER 15
INDUSTRY INSTITUTE INTERACTION

15.1 INTRODUCTION

Fostering Industry-Academia Synergy for Innovation

Innovation thrives where knowledge meets experience, and the collaboration between industry and academia is the driving force behind meaningful advancements. The Goa State Innovation Council (GSInC) has been instrumental in bridging this gap, creating opportunities for students to engage with industry leaders, gain real-world insights, and translate their ideas into tangible solutions.

GSInC's Industry-Institute Interaction initiative is designed to prepare students for the evolving demands of the professional world. By facilitating dialogues, mentorship programs, workshops, and collaborative projects, the initiative ensures that students are not just learning theory but actively understanding how innovation is applied in real-world scenarios. These engagements offer a firsthand perspective on industry trends, technological breakthroughs, and emerging opportunities, equipping young minds with the confidence and knowledge to navigate their entrepreneurial and professional journeys.

Through this initiative, GSInC is laying the foundation for a future where Goa's youth are not just job seekers but problem solvers, innovators, and change-makers, driving progress and transforming industries with their fresh perspectives and inventive ideas.

INDUSTRY INSTITUTE INTERACTION

Panel discussion on Innovation and Industry suggestions for students

03.08.2024

SR NO	TIME	AGENDA
1	10:30 am – 11:00 am	Registration & Arrival of Expert speakers
2	11:00 am – 11:15 am	Welcome Address & Introduction to Expert speakers: • Mr. Royan Carvalho (Director, Carvalho Business Solutions) • Mr. Yashvit Naik (Co-founder & CTO, Teknorix and Vice President, Goa Technology Association) • Mr. Sudip Faldesai (Project Officer, GSInC), Moderator
3	11:15 am – 12:00 pm	Panel Discussion
4	12:00 pm – 12:30 pm	Q&A and Interaction with students
5	12:30 pm – 12:40 pm	Mementos to Expert Speakers, Vote of thanks & Group Photo
6	12:40 pm	Lunch for Expert speakers

Venue:

2nd Floor, Conference Hall, Rosary College of Commerce and Arts, Navelim

15.2 STATUS REPORT

The Goa State Innovation Council (GSInC), in collaboration with Rosary College of Commerce and Arts, Navelim, successfully organized an Industry-Institute Interaction on August 3, 2024. The event served as a dynamic platform for 75 students to engage with industry experts, gain valuable insights into innovation, entrepreneurship, and industry expectations, and explore pathways to career success.

Event Overview

The session featured a panel discussion with distinguished industry leaders who shared their expertise and perspectives on bridging the gap between academia and industry.

Key Highlights:
Expert Panelists:

SR NO	NAME	DESIGNATION
1	Royan Carvalho	Director, Carvalho Business Solutions
2	Mr. Yashvit Naik	Co-founder & CTO, Teknorix, and Vice President, Goa Technology Association
3	Mr. Sudip Faldesai	Mr. Sudip Faldesai (Project Officer, GSInC)| Moderator

Key Takeaways for Students:
• Industry Expectations: Panelists emphasized the need for practical knowledge, adaptability, and critical thinking in today's fast-evolving job market
• Innovation & Entrepreneurship: Students were encouraged to think beyond conventional career paths and explore entrepreneurial opportunities
• Emerging Trends: Discussions covered technology adoption, digital transformation, and skill-building required for future careers
• Student Engagement: The interactive Q&A session provided students with personalized career guidance and industry insights

Conclusion & Future Plans

The Industry-Institute Interaction was a resounding success, fostering meaningful dialogue between students and industry leaders. Moving forward, GSInC aims to organize more such engagements, ensuring students receive continuous industry exposure, mentorship, and real-world learning opportunities.

15.1: PANEL DISCUSSION ON INNOVATION AND INDUSTRY SUGGESTIONS FOR STUDENTS AT ROSARY COLLEGE OF ARTS AND COMMERCE, NAVELIM
03/08/2024

CHAPTER 16

INDIA INTERNATIONAL INNOVATION & INVENTION EXPO (INEX)

CHAPTER 16

INDIA INTERNATIONAL INNOVATION & INVENTION EXPO (INEX)

16.1 INTRODUCTION

INEX INDIA 2024 – A Successful Global Innovation & Invention Showcase!

INEX INDIA 2024, the India International Innovation and Invention Expo, successfully took place from November 13-15, 2024, at Don Bosco College, Margao, Goa. The event brought together innovators, researchers, startups, and industry leaders from over 20 countries, facilitating B2B interactions, knowledge sharing, and groundbreaking innovations.

One of the highlights of INEX INDIA 2024 was the enthusiastic participation of schools and colleges across North and South Goa, offering students a first-hand experience of cutting-edge inventions, international collaborations, and entrepreneurial opportunities.

INEX 2024 DETAILED SCHEDULE		
Date	**Activity**	
11-11-2024	10:00-17:00	Induction and Orientation program for International Delegates
12-11-2024	12:00-15:00	Stall setup
13-11-2024	8:30-10:30	Stall Setup
	10:00-10:30	Welcome to Delegates in the boardroom & Arrival of Chief Guest
	10:30-10:35	Welcome address by EMCEE Ms. Carol DBCE
	10:35-10:40	Lighting of Lamp
	10:40-10:45	Floral welcome to Chief Guest & Dignitaries
	10:45-10:50	Address for INEX 2024 by Mr Raman Teja Venigalla, CTO, IBS Global
	10:50-10:55	Address by Ms. Edyta Wolczyk, CEO, IBS Global
	10:55-11:00	Address by Dr. A.S.Rao, President, Indian Innovators Association
	11:00-11:05	Address by the Polish Delegate Prof. Krystyna Tosik, Scientist and Manager of Lukasiewicz - Lodz Institute of Technology
	11:05-11:10	Address by the Malaysian Delegate Ms. SARASWATHY A/P SUPPIRAMANIAM, SJK TAMIL JENJAROM, MALAYSIA and Representative of MIICA - Malaysia Innovation, Invention and Creativity Association
	11:10-11:15	Launch of "Innovation Yearbook 2024"
	11:15-11:20	Keynote Address by Shri J.M. Noronha, Chairman, GSInC
	11:20-11:25	Address by Chief Guest Shri Aleixo R. Lourenco, MLA Curtorim,

		Chairman, GIDC
	11:40-12:10	*Panel Discussion: Leveraging Innovation Ecosystem for promoting Young Innovators Globally*
	12:25-12:30	*Jury Briefing Session*
	12:30-16:30	*Jury Evaluation of Innovations*
	12:10-17:00	*Expo Visiting hours*
14-11-2024	*10:30-16:00*	*Jury Evaluation of Innovations*
	10:30-16:00	*Expo visiting hours*
15-11-2024	*10:00-11:00*	*INEX 2024 Award Ceremony SPECIAL AWARD: For Technology Business Incubators in HEIs across India*
	11:00-13:00	*Lunch for the international delegates joining the tour*
	13:00-19:00	*Goa Heritage tour of International delegates Supported by GSInC, DST&WM, Government of Goa*

INDIAN INNOVATORS ASSOCIATION
Voice of Indian Innovators

(A Registered Society)

11-09-2024

To,
SHRI. JOSE MANUEL NORONHA
Chairman, Goa State Innovation Council,
Panaji, Goa

Attn: Principal,
Don Bosco College of Engineering,
Fatorda, Margao,Goa- 403 602

Dear Sir,

Subject: India International Innovation & Invention Expo – INEX 2024 – Reg.

Indian Innovators Association, India and IBS Global, Poland are jointly organising the ninth edition of **INEX - INDIA INTERNATIONAL INNOVATION & INVENTION EXPO 2024**. The upcoming edition of **INEX** is scheduled to be organized in Goa, India during **13th,14th and 15th of November 2024**.

INEX has participants in virtual mode and in-person mode from around 20 countries including Poland, Croatia, Italy, France, Germany China, Vietnam, Indonesia, Malaysia, Peru, Iran, Macao, Turkey, USA, Belgium, Sudan, Congo, Portugal, Korea, Spain, Lebanon and Canada. In INEX 2022 edition, innovations from 7 countries have been presented on-site in Goa and in 2023 Edition innovations from 9 countries have been presented on-site in Goa. We are certain that INEX will be fruitful for innovators across the globe. India is a trillion-dollar open economy and there will be significant demand for innovations and new products around the globe in India.

India International Innovation & Invention Expo – INEX 2024 will take place during 13th to 15th November 2024. We are looking forward to having **Goa State Innovation Council – GSInC and Don Bosco College of Engineering** as our partner for this event and we will sincerely appreciate if you agree to host the event.

We request to have the innovation presentation and stalls in a suitable indoor venue that can accommodate presentation of around 100 - 150 innovations and the panel discussion, and award ceremony in a suitable auditorium.

INDIAN INNOVATORS ASSOCIATION
Voice of Indian Innovators

(A Registered Society)

In this regard we herewith list the necessary arrangements to be made for the event:

1. Dedicated Exhibition space in a suitable air-conditioned indoor venue for international delegations and Indian participants (around 500 Sq. Feet minimum – to accommodate 100-150 projects/inventions/innovations on open space column display format) for the below dates:
    a. 13th - 14th November: Event
    b. 15th November: Award ceremony
2. Electricity and WIFI Connectivity for the innovations being displayed at the venue
3. Food arrangements and refreshments for international participants, delegates and organizing committee.
4. Auditorium/Seminar Hall for award ceremony.
5. Promotion in Media & Press releases
6. Goa heritage tour for international delegates and innovators after award ceremony on 15th or 16th November.

As a host and partner, the Goa State Innovation Council and Don Bosco College of Engineering would receive the following benefits:

1. Free participation in INEX 2024 for 30 eligible innovators identified by GSIC from Goa.
2. Logo of GSIC and DBCE in all the posters, certificates and on promotional content to be posted on all the social media platforms as INEX partner.
3. Mentoring for top ten innovations identified by GSIC and DBCE by Indian Innovators association and IBS Global
4. Article about GSInC and DBCE in international media (IBS GLOBAL website and international magazine – Patent News).

We wish to extend our unconditional support and ensure maximum innovators get benefitted out of our collaboration in the days to come.

Regards,

Indian Innovators Association
A-50, AshokaEnclave -II,Sector 37,
Faridabad-121003 , INDIA

Dr. Aynampudi Subbarao,
President, Indian Innovators Association

16.2 CHAIRMAN'S VISIT TO POLAND

At the General Body meeting of the Goa State Innovation Council held on 19th March 2024, it was approved that Chairman attends the E-Innovate event as the Chief Guest from 14th to 18th May 2024 at Jagiellonian University Campus, Krakow, Poland. Mrs. Edyta Wolczyk, President – IBS Global invited Hon'ble Chairman to Poland to see the work being carried out by IBS Global. Hon'ble Chairman applied for a Polish Visa which was granted for 6 days between 20th March 2024 and 9th April 2024.

During this visit Hon'ble Chairman met the following officials:

SR NO	NAME	DESIGNATION	ORGANISATION
1	Mr. Jan Szczucki	President	EMAG-SERWIS
2	Mr. Zbigniew Szczucki	Technical and Development Director Commercial Proxy	EMAG-SERWIS
3	Mr. Marlena Miasko	Vice President, Deputy General Director	Chamber of Commerce and Industry in Katowice
4	Mr. Marzena Koczorek	International Relations Specialist	Chamber of Commerce and Industry in Katowice
5	Mrs. Krinal Shah Suri	Specialist for Asian Markets	Chamber of Commerce and Industry in Katowice

In addition the Hon'ble Chairman also had discussions with the following officials of IBS Global:

SR NO	NAME	DESIGNATION
1	Mrs. Edyta Wolczyk	President
2	Mr. Raman Teja Venigalla	Chief Technical Officer

PHOTOGRAPH 16.1: SHRI JOSE MANUEL NORONHA, CHAIRMAN, GSINC, INTERACTING WITH POLISH DELEGATES DURING HIS VISIT TO POLAND.

PHOTOGRAPH 16.2: BROCHURE FOR INEX

**INDIA INTERNATIONAL
INNOVATION & INVENTION EXPO**
HYBRID EDITION

INEX 2024

DON BOSCO COLLEGE OF ENGINEERING,
MARGAO, GOA, INDIA

13-15 November 2024

FOR REGISTRATION LOG ON TO
WWW.INEX-INDIA.COM

REGISTRATION DEADLINE 30-10-2024
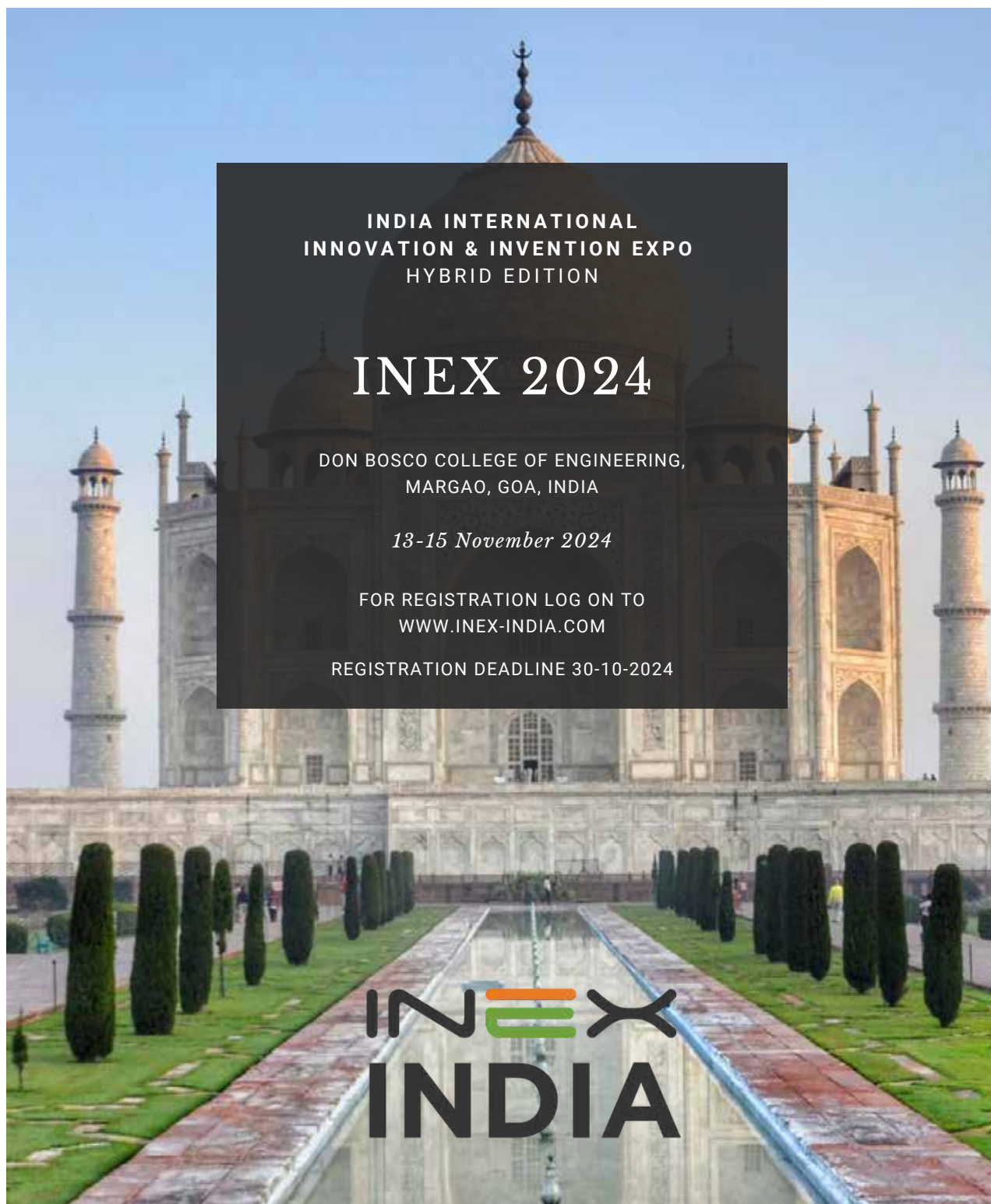
MESSAGE FROM THE PRESIDENT, IIA

Greetings to all,

We invite you to participate in the India International Innovation and Invention Expo INEX 2024.

Since 2016, the Indian Innovators Association (IIA) has been organizing international invention and innovation expos, presenting annually over 300 solutions from 30 co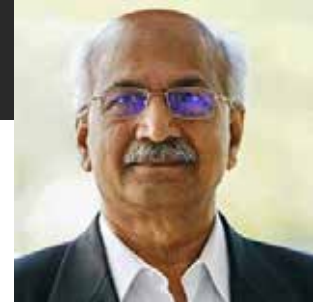untries of the world from the most trending domains, such as environmental protection, technology transfer, IPR, Industry 4.0.

This year, INEX focuses on international start-ups, industrial technologies, technology transfer and promotion in the Indian market. To achieve this, IIA and IBS Global, a global organization engaged in the international commercialization of innovation, strengthening industry and trade with an emphasis on products, services based on innovation and new technologies has partnered with the Goa State Innovation Council under the honorary patronage of the State Government of GOA, India.

The INEX 2024 fair is not only an opportunity to present your scientific solutions and innovations, but above all an opportunity to establish great business contacts and learn about the unique culture and hospitality of India.

I cordially invite you to Goa on November 13-15 to the largest event in India devoted to innovation, which will be held in both traditional and virtual form.

Dr AS Rao
President
Indian Innovators Association

For any queries regarding registering your innovation, contact: IBS GLOBAL,
contact@ibsglobal.pl; indiainex@gmail.com
+91 90321 95562 , +48 799 040 774
www.inex-india.com

MESSAGE FROM THE CHAIRMAN, GSInC

Dear Participants and Innovators,

I am happy to welcome you to the grand stage of innovation and creativity, the 8th edition of the highly coveted India International Innovation and Invention Expo (INEX) 2024, to be held successively for the third year in Goa.

Building upon the resounding success of INEX 2023, our journey continues with even greater zeal and commitment. The Goa State Innovation Council (GSInC), under the aegis of the Department of Science, Technology & Waste Management, Government of Goa, is firmly dedicated to fostering a culture of innovation and discovery in our vibrant state.

This year, we focus on startups, industrial technologies, technology transfer, and promoting local products globally. In collaboration with our esteemed partners, the Indian Innovators Association and IBS Global, we are poised to elevate our mission to new heights.

The goal of INEX 2024 is not just to present solutions and inventions but also to forge meaningful business connections and collaborations. We are confident that these partnerships will catalyze the growth of innovation ecosystems, not just within the State of Goa but across the nation. Our commitment to nurturing innovation from grassroots levels remains unwavering as we strive to cultivate a thriving culture of startups and ingenuity.

With your participation, INEX 2024 is set to be a harbinger of change, a catalyst for progress, and a testament to human ingenuity. This year's expo will not only inspire us with novel ideas but also lay the foundation for a brighter, more innovative future. The hybrid event is open for physical as well as virtual participation
.

Shri Jose Manuel Noronha,
Chairman,
Goa State Innovation Council

For any queries regarding registering your innovation, contact: IBS GLOBAL, contact@ibsglobal.pl; indiainex@gmail.com
+91 90321 95562 , +48 799 040 774
www.inex-india.com

ABOUT THE EVENT

INEX INDIA

The 9th edition of India International Innovation & Invention Expo will be organized in Goa, in the city of Margao on November 13-15, 2024, under the patronage of some of the world's largest associations promoting innovation. This year's edition is supported by the Goa state Innovation council of the government of Goa, Industry associations and India's leading research and development institutes.

Having been a Portuguese territory for over 450 years, Goan culture is an amalgamation of both Eastern and Western styles, with the latter having a more dominant role. Western royal attire of kings is as much part of Goa's cultural heritage as are regional dances performed depicting a unique blend of different religions and cultures of this State. Prominent local festivals are Christmas, Easter, Carnival, Diwali, Shigmo, Chavoth, Samvatsar Padvo, Dasara etc. A rich tourist infrastructure has been built throughout the state.

India is a trillion dollar market and the 6th fastest growing economy in the world. The main goal of the INEX is international promotion and transfer of innovation. As part of the knowledge exchange among the innovator community, the "Innovation Year Book 2024" will be published during the expo.

For any queries regarding registering your innovation, contact: IBS GLOBAL, contact@ibsglobal.pl; indiainex@gmail.com
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www.inex-india.com

IBS GLOBAL

INEX 2024 SCHEDULE

INEX INDIA

DAY 1 (12.11.2024)
12:00 - 15:00 - Setup and Arrangements

DAY 2 (13.11.2024) - INEX 2024 INAUGURATION
11:00 - 11:30 -INEX 2024 Inauguration
11:30 - 11:45 - Innovation Year Book 2024 Launch
12:00 - 17:00 - evaluation of inventions by an jury panel
12:00 - 17:00 - Visiting hours for public

DAY 3 (14.11.2024) - INEX 2024
11:00 - 15:00 - evaluation of inventions by an jury panel
11:00 - 17:00 - Visiting hours for public

Day 4 (15.11.2024) - INEX 2024 Award Ceremony
10:00 - Expo opening time.
10:30 - 11:00 - Panel Discussion on Importance of Innovation Expositions
11:00 - 12:00 - INEX 2024 Award Ceremony

DAY 5 (16.11.2024) – Dedicated B2B meetings as part of INEX International Trade mission - Only for the innovators who have applied.
The schedule of meetings will be provided after they are finalized. Please choose this option in the application form. Please note that this will be done on best effort basis and the organizer does not guarantee the outcome.

NOTE: *The event schedule may undergo changes without prior notice due to operational factors and unavoidable circumstances*

**FOR REGISTRATION LOG ON TO WWW.INEX-INDIA.COM
DOWNLOAD THE APPLICATION FORM AND EMAIL THE DULY FILLED OUT FORM TO
contact@ibsglobal.pl or indiainex@gmail.com
on or before 30-10-2024**

For any queries regarding registering your innovation, contact: IBS GLOBAL,
contact@ibsglobal.pl; indiainex@gmail.com
+91 90321 95562 , +48 799 040 774
www.inex-india.com

IBS GLOBAL

INEX 2024 "INNOVATION FUNNEL"

EXPERIENCE INNOVATION AT INEX!
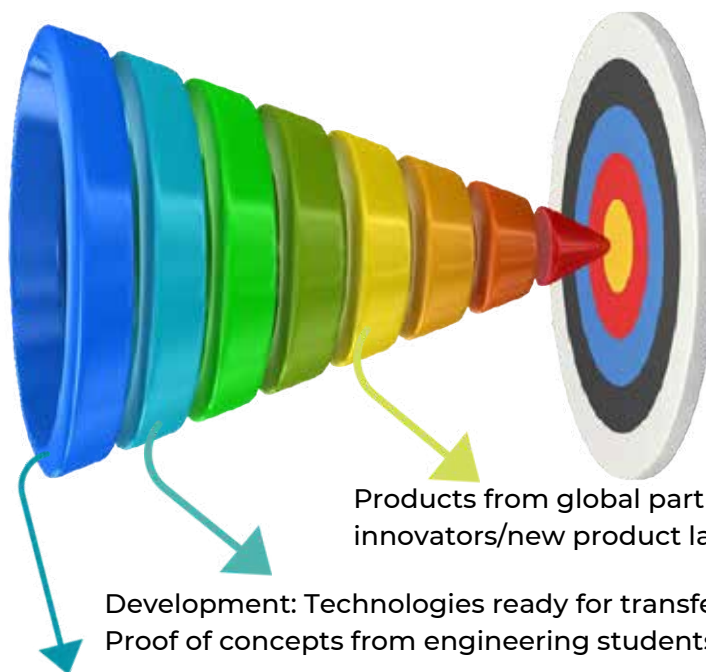
Products from global partners/grassroot innovators/new product launches by companies

Development: Technologies ready for transfer from research institutes. Proof of concepts from engineering students and innovators.

Investigations: Student projects selected by IIA, IBS GLOBAL, GSInC and global partners, patents and research papers.

**FOR REGISTRATION LOG ON TO WWW.INEX-INDIA.COM
DOWNLOAD THE APPLICATION FORM AND EMAIL THE DULY FILLED OUT FORM TO
contact@ibsglobal.pl or indiainex@gmail.com
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www.inex-india.com

INEX GALLERY

For any queries regarding registering your innovation, contact: IBS GLOBAL,
contact@ibsglobal.pl; indiainex@gmail.com
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www.inex-india.com

INEX INDIA

13-15.11.2024

Margao, Goa, INDIA

www.inex-india.com

INDIA INTERNATIONAL INNOVATION AND INVENTION EXPO

INEX 2024 HIGHLIGHTS

20+ COUNTRIES * B2B INTERACTIONS * INDUSTRY VISITS * SEMINARS * INTERNATIONAL JURY AWARDS

FOR REGISTRATION: IBS GLOBAL
contact@ibsglobal.pl, +48 799 4040 774, + 91 90321 95562

16.3 STATUS REPORT

Students gained valuable insights into global trends in technology, sustainable solutions, and business innovations, making the event an enriching educational experience. Their engagement with innovators, experts, and entrepreneurs helped inspire the next generation of thinkers, creators, and problem-solvers.

With its success in bringing together visionaries, industry leaders, and aspiring innovators, INEX INDIA 2024 reinforced its position as a premier platform for technological advancements and entrepreneurial growth.

PHOTOGRAPH 16.3: THE BROCHURE FOR INEX 2024 WAS OFFICIALLY LAUNCHED ON 21ST OCTOBER 2024 BY SHRI ANKIT YADAV, IAS, DIRECTOR, DST&WM; SHRI JOSE MANUEL NORONHA, CHAIRMAN, GSINC; REV. FR. KINLEY D'CRUZ, DIRECTOR, DBCE; DR. NEENA PANANDIKAR, PRINCIPAL, DBCE; AND SHRI RAMAN TEJA, CTO, IBS GLOBAL, POLAND, IN THE PRESENCE OF THE PRESS.

PHOTOGRAPH 16.4: DAY 1 - INEX 2024 INAUGURATION PROGRAM

PHOTOGRAPH 16.5: BOOK LAUNCH: LAUNCH OF INNOVATION YEARBOOK 2024

PHOTOGRAPH 16.6: DAY 1 - INEX 2024 PANEL DISCUSSION

16.7: SHRI REGINALDO LOURENCO, MLA, INTERACTED WITH STUDENTS DURING THE INAUGURAL PROGRAMME OF INEX, IN THE PRESENCE OF SHRI ANKIT YADAV, IAS, DIRECTOR, DST&WM; SHRI JOSE MANUEL NORONHA, CHAIRMAN, GSINC; REV. FR. KINLEY D'CRUZ, DIRECTOR, DBCE; DR. NEENA PANANDIKAR, PRINCIPAL, DBCE; AND SHRI RAMAN TEJA, CTO, IBS GLOBAL, POLAND.

PHOTOGRAPH 16.8: DAY 1 - INEX 2024 GALA DINNER

PHOTOGRAPH 16.9: DAY 2 - INEX 2024 JURY EVALUATION

PHOTOGRAPH 16.10: DAY 3 - INEX 2024 AWARD CEREMONY

PHOTOGRAPH 16.11: DAY 3 - INEX 2024 GOA HERITAGE TOUR OF INTERNATIONAL DELEGATES

CHAPTER 17
OTHER ACTIVITIES

CHAPTER 17

OTHER ACTIVITIES

17.1 INTRODUCTION

A Year of Impactful Innovation Initiatives

Beyond the success of INEX INDIA 2024, GSInC actively spearheaded a series of initiatives throughoutthe year, fostering innovation, entrepreneurship, and industry-academia collaboration. These programs provided a platform for startups, innovators, students, and industry leaders to engage in meaningful discussions, skill-building, and networking.

Some of the key events organized included:

TABLE 17.1: KEY EVENTS ORGANIZED

SR. NO.	DATE	EVENT
1	17th June 2024	Interactive Session at Shree Rayeshwar Institute of Engineering & Information Technology (RIT), Shiroda
2	1st July 2024	Goa Science Centre – Innovation Hub Talk
3	20th Oct.2024	Accelerating Innovation: Design Thinking for Startups and Innovators Using the IBSG Method
4	14th Nov.2024	India International Trade Fair 2024
5	23rd November 2024	Goa Innovation & Startup Times 2024 (GIST-24)
6	2nd December 2024	Gomantak Ayurved Mahavidyalaya and Research Centre
7	13th Decemeber.24	Manohar Parrikar Vidnyan Mahotsav at Ravindra Bhavan, Margao
8	14th January 2025	NOESIS – Rosary College of Commerce and Arts, Navelim
9	17th January 2025	Drone Workshop at Goa Multi-Faculty College, Darbandora
10	17th January 2025	Bridging Horizon – Panel Discussion by Goa Technology Association & ASSOCHAM
11	5th February 2025	Director's Visit to Manovikas School's AR/VR Lab Centre
12	19th February 2025	3D Modelling & Printing Workshop at BULBUL, Ravindra Bhavan, Margao
13	23rd January 2025	3rd Destination Goa @ 25 – Exhibition on Atmanirbhar Bharat & Viksit Bharat
14	21st March 2025	AI Nexus – Goa Multi-Faculty College, Darbandora
15	29th January 2025	Science Film Festival Of India (SCI-FFI)
16	5th March 2025	CONVERGE 2.0 – Cuncolim Educational Society's College of Arts & Commerce
17	11th March 2025	BITS, Deodhar

17.2: GOA SCIENCE CENTRE - INNOVATION HUB TALK - 1.7.2024

The Goa Science Centre celebrated the 5th Anniversary of its Innovation Hub with a three-day program held from 29th June to 1st July 2024. The event marked five years of impactful engagement in fostering scientific curiosity and innovation among students and young minds in the state. As part of the anniversary celebrations, a series of interactive sessions, exhibitions, and expert talks were organized to inspire and guide young innovators.

On 1st July 2024, the final day of the celebration, the Project Officer of the Goa State Innovation Council was invited as a guest speaker to deliver a talk on the topic "Creativity, Innovation, and Prototyping Projects for School Students." The session aimed to ignite the spirit of innovation among school students and provide practical insights into the journey from idea to prototype.

During the talk, the Project Officer highlighted the importance of nurturing creativity at a young age and emphasized how early exposure to innovation tools, techniques, and mentorship can shape the future of budding inventors. The session included examples of successful student-led projects, strategies for identifying real-world problems, and approaches to develop working prototypes using basic technologies such as electronics, 3D printing, and IoT.

The session was well-received by students, teachers, and organizers, and contributed meaningfully to the broader objective of the Innovation Hub — promoting a culture of innovation and experiential learning among the youth of Goa.

PHOTOGRAPH 17.1:
GOA SCIENCE CENTRE INNOVATION HUB TALK

PHOTOGRAPH 17.1:
GOA SCIENCE CENTRE INNOVATION HUB TALK

17.3: ACCELERATING INNOVATION: DESIGN THINKING FOR STARTUPS AND INNOVATORS USING THE IBSG METHOD - 20.10.2024

This immersive workshop explores how Design Thinking, combined with the Innovative Business Strategy Generation (IBSG) method, can drive meaningful innovation in startups and entrepreneurial ventures. Focused on a human-centered and strategic approach, the session guides participants through a structured innovation journey—helping them ideate, prototype, test, and scale solutions that meet real market needs.

The workshop agenda includes:
1. Introduction & Overview – Understanding the IBSG Method
2. Phase 1: Innovate – Identifying problems and generating ideas
3. Phase 2: Build – Designing and prototyping solutions
4. Phase 3: Solve – Testing, refining, and validating
5. Phase 4: Grow – Scaling solutions and ensuring sustainability
6. Closing Session – Recap, Q&A, and final thoughts

PHOTOGRAPH 17.2:

ACCELERATING INNOVATION: DESIGN THINKING FOR STARTUPS AND INNOVATORS USING THE IBSG METHOD

17.4: INDIA INTERNATIONAL TRADE FAIR 2024 - 14.11.2024

The India International Trade Fair (IITF), organized annually by the India Trade Promotion Organization (ITPO) since 1980, has emerged as a flagship event for the Indian and global business community. Held every year from 14th to 27th November at Pragati Maidan, New Delhi, the event serves as a vibrant platform for manufacturers, traders, exporters, and importers to showcase their products and services across a diverse spectrum of industries including automobiles, textiles, electronics, pharmaceuticals, processed foods, and more.

The Department of Science, Technology, Government of Goa participated in the 2024 edition of the trade fair, highlighting the state's growing emphasis on innovation, technology, and research-driven development. The stall showcased the initiatives of the Goa State Innovation Council (GSInC), including programs supporting startups, student innovation, prototyping, and intellectual property. Hon'ble Chief Minister of Goa, Dr. Pramod Sawant, visited the Goa Pavilion and interacted with the representatives of DST. He appreciated the state's efforts in promoting a culture of innovation and entrepreneurship through strategic programs and outreach activities.

PHOTOGRAPH 17.3:
INDIA INTERNATIONAL TRADE FAIR 2024

PHOTOGRAPH 17.3:
INDIA INTERNATIONAL TRADE FAIR 2024

17.5: GOA INNOVATION & STARTUP TIMES 2024 (GIST-24) - 23.11.2024

The 2nd edition of GIST-24, organized by BITS BioCyTiH Foundation (BBF), was held on 23rd November 2024 at the BITS Goa campus, BITS Pilani. The event brought together key stakeholders from academia, industry, and government to advance the dialogue on strengthening the regional innovation and startup ecosystem.

Shri Jose Manuel Noronha, Chairman, Goa State Innovation Council, attended as Chief Guest and delivered an inspiring address. He commended GIST-24's collaborative efforts and urged innovators to focus on solving real-world societal challenges through meaningful, sustainable innovations.

PHOTOGRAPH 17.4:
GOA INNOVATION & STARTUP TIMES 2024

17.6: GOMANTAK AYURVED MAHAVIDYALAYA AND RESEARCH CENTRE – 2.12.2024

On 2nd December 2024, Gomantak Ayurved Mahavidyalaya and Research Centre organized a guest speaker session focused on "Innovation and Government Support Schemes for Students." The session was aimed at inspiring students to adopt a problem-solving mindset and leverage various innovation ecosystems available to them through government initiatives. The Project Officer from the Goa State Innovation Council (GSInC) was invited as the guest speaker for the session. He delivered an engaging and informative talk, highlighting the importance of cultivating innovation and creativity within the academic space—particularly among students in traditional and research-driven fields like Ayurveda.

The session covered real-life case studies of student-led innovations and provided practical insights into how young minds can identify challenges in their immediate surroundings and address them through structured innovation approaches. The speaker also detailed the various support schemes offered under the Virtual Innovation Register (VIR) initiative by GSInC. This included guidance on patent filing support, access to prototyping grants, use of the Rapid Prototyping Lab, and prestigious recognitions like the Goa Rajya Vidnyanik Puraskar. The interaction aimed to bridge the gap between academic learning and real-world application, showcasing how even students from traditional fields like Ayurveda can innovate in diagnostics, treatment methodologies, herbal formulations, and healthcare delivery mechanisms.

PHOTOGRAPH 17.5:
GUEST SPEAKER SESSION AT GOMANTAK AYURVED MAHAVIDYALAYA AND RESEARCH CENTRE

17.7: MANOHAR PARRIKAR VIDNYAN MAHOTSAV AT RAVINDRA BHAVAN, MARGAO 13.12.2025

The Manohar Parrikar Vidnyan Mahotsav, Goa's flagship science festival celebrating innovation, research, and scientific curiosity, was held with great enthusiasm across multiple venues in the state. One of the key venues for the event was Ravindra Bhavan, Margao, where around 700 students from 17 schools and colleges participated in the day-long celebration of science and innovation.

The main inaugural function of the Mahotsav took place at the National Institute of Oceanography (NIO), Goa, and was live-streamed simultaneously to nine different venues across the state, including Ravindra Bhavan. Students and faculty gathered at these venues to witness the inaugural session in real time, which included addresses by distinguished dignitaries and scientists.

Following the live-streamed inaugural session, eminent scientists and experts interacted with the audience at Ravindra Bhavan. These sessions covered topics ranging from cutting-edge scientific research to innovation in technology, aiming to inspire the next generation of young minds. The talks were highly engaging and provided students with valuable insights into the real-world application of science and the role of innovation in nation-building.

The event served as a platform to promote scientific temper and creativity among students, bridging the gap between academia and applied science. Students actively participated in Q&A sessions and were encouraged to think beyond textbooks.

The Vidnyan Mahotsav was a fitting tribute to the legacy of late Shri Manohar Parrikar, fostering a spirit of inquiry and innovation among Goa's youth.

PHOTOGRAPHS 17.6:
MANOHAR PARRIKAR VIDNYAN MAHOTSAV AT RAVANDRABHAVAN

PHOTOGRAPHS 17.6:
MANOHAR PARRIKAR VIDNYAN MAHOTSAV AT RAVANDRABHAVAN

PHOTOGRAPHS 17.6:
MANOHAR PARRIKAR VIDNYAN MAHOTSAV AT RAVANDRABHAVAN

17.8: NOESIS - ROSARY COLLEGE OF COMMERCE AND ARTS, NAVELIM - 14.01.2025

On 14th January 2025, Rosary College of Commerce and Arts, Navelim organized a technology-focused event "NOESIS", aimed at inspiring students to engage with emerging technologies and develop innovative thinking. The event served as a platform for students to showcase their technical skills, explore real-world applications, and interact with thought leaders in the field of innovation and entrepreneurship.

Shri Jose Manuel Noronha, Chairman of the Goa State Innovation Council (GSInC), was invited as the Chief Guest for the function. During his keynote address, he encouraged students to cultivate a problem-solving mindset and use technology as a powerful tool for social impact. He emphasized that innovation should not be limited to academic projects but should focus on addressing the challenges faced by society.

Shri Noronha highlighted the importance of being socially conscious innovators and urged the youth to look around for real-world issues that could be transformed into impactful solutions through the intelligent use of technology. He also touched upon the various initiatives of GSInC that support students and young innovators in their journey from idea to execution.

PHOTOGRAPH 17.7:
NOESIS – ROSARY COLLEGE OF COMMERCE AND ARTS, NAVELIM

PHOTOGRAPH 17.7:

NOESIS – ROSARY COLLEGE OF COMMERCE AND ARTS, NAVELIM

17.9: DRONE WORKSHOP AT GOA MULTI-FACULTY COLLEGE, DARBANDORA - 17.1.2025

The Goa State Innovation Council (GSInC) conducted a one-day Drone Workshop on 17th January 2025 at Goa Multi-Faculty College, Darbandora, as part of its ongoing efforts to promote hands-on learning and emerging technologies among students.

The workshop aimed to introduce students to the fascinating world of unmanned aerial vehicles (UAVs), commonly known as drones. The session covered a wide range of foundational topics, including the types of drones, their components, the principles of drone flight, and an overview of how drones are built and operated. Special emphasis was placed on understanding the applications of drones in sectors such as agriculture, disaster management, surveillance, delivery services, and environmental monitoring.

Participants were also given a live demonstration of drone assembly, offering insights into the internal circuitry and mechanical parts involved in building a functional drone. One of the key highlights of the workshop was the hands-on experience using drone simulation software, which allowed students to practice flying drones in a virtual environment before handling actual flight controls.

The interactive nature of the session encouraged curiosity and active participation. Students asked insightful questions and showed great enthusiasm in learning how drone technology is shaping the future across various industries.

PHOTOGRAPH 17.8:
DRONE WORKSHOP AT GOA MULTI-FACULTY COLLEGE, DARBANDORA

PHOTOGRAPH 17.8:

DRONE WORKSHOP AT GOA MULTI-FACULTY COLLEGE, DARBANDORA

17.10: BRIDGING HORIZON - PANEL DISCUSSION BY GOA TECHNOLOGY ASSOCIATION & ASSOCHAM - 17.1.2025

On 17th January 2025, the Goa Technology Association (GTA) in association with ASSOCHAM (The Associated Chambers of Commerce and Industry of India) organized a panel discussion titled "Bridging Horizon" at the Government College of Arts, Science & Commerce, Quepem. The event aimed to bring together industry leaders, academicians, and students to explore opportunities at the intersection of technology, education, and innovation.

The panel discussion focused on the changing landscape of employment, emerging technologies, and the need to bridge the gap between academia and industry expectations. Experts shared their insights on skill development, entrepreneurship, and the importance of fostering innovation among youth.

Students had the opportunity to interact with professionals from various sectors and gain valuable perspectives on building future-ready careers. The event successfully created a platform for collaborative dialogue, highlighting Goa's growing role in the innovation and technology ecosystem.

PHOTOGRAPHS 17.9:
BRIDGING HORIZON

PHOTOGRAPHS 17.9:
BRIDGING HORIZON

17.11: DIRECTOR'S VISIT TO MANOVIKAS SCHOOL'S AR/VR LAB CENTRE - 5.2.2025

On 5th February 2025, Shri Ankit Yadav, IAS, Director, Department of Science, Technology & Waste Management (DST&WM), accompanied by Shri Jose Manuel Noronha, Chairman, Goa State Innovation Council (GSInC), visited the AR/VR Lab at Manovikas English Medium School, Margao. The visit was part of an initiative to observe and encourage the integration of emerging technologies in school education.

During the visit, the dignitaries explored the immersive learning experiences being facilitated through augmented and virtual reality. They also toured the school's planetarium and 3D printing facility, where they witnessed students engaging in hands-on, experiential learning.

The Director interacted with students and faculty, appreciating their efforts to incorporate practical and future-focused education. He emphasized the importance of innovation in foundational education and commended the school for creating a tech-enabled environment that fosters creativity, critical thinking, and problem-solving among students.

PHOTOGRAPH 17.10:
DIRECTOR'S VISIT TO MANOVIKAS SCHOOL'S AR/VR LAB CENTRE

17.12: 3D MODELLING & PRINTING WORKSHOP AT BULBUL, RAVINDRA BHAVAN, MARGAO - 19.2.2025

As part of the Bulbul Children's International Film Festival (BCIFF) organized by the Department of Information and Publicity, a special 3D Modelling and Printing Workshop was conducted by the Goa State Innovation Council (GSInC) on 19th February 2025 at Ravindra Bhavan, Margao.

The session was held by Shri Siddhant Panjikar, Mentor at the Prototyping Lab of GSInC, who was nominated to conduct the workshop. Aimed at introducing young minds to modern prototyping technology, the session covered the basics of 3D design, the working of 3D printers, and the applications of this technology across various fields.

Participants were introduced to 3D modelling software tools and given a hands-on experience in designing and printing simple objects. The session sparked curiosity and creativity among students, making it one of the highlights of the festival. It successfully showcased the role of innovation in education and learning.

PHOTOGRAPHS 17.11:
BULBUL, RAVINDRA BHAVAN, MARGAO

PHOTOGRAPHS 17.11:
BULBUL, RAVINDRA BHAVAN, MARGAO

17.13: 3RD DESTINATION GOA @ 25   EXHIBITION ON *ATMANIRBHAR BHARAT & VIKSIT BHARAT* - 23.1.2025

As part of the Bulbul Children's International Film Festival (BCIFF) organized by the Department of Information and Publicity, a special 3D Modelling and Printing Workshop was conducted by the Goa State Innovation Council (GSInC) on 19th February 2025 at Ravindra Bhavan, Margao.

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PHOTOGRAPHS 17.12:
3RD DESTINATION GOA @ 25

DAY 01

DAY 02

DAY 03

17.14: AI NEXUS - GOA MULTI-FACULTY COLLEGE, DARBANDORA - 21.3.2025

The event "AI Nexus: The Convergence of AI, Innovation and Possibilities" was inaugurated on 21st March 2025 by Mr. Ankit Yadav, IAS, Director of Science, Technology and Waste Management, at the Lecture Hall, Directorate of Art and Culture, Patto-Panaji, Goa. The event brought together experts, educators, and students to explore the transformative impact of Artificial Intelligence on innovation and future opportunities.

The Project Officer from Goa State Innovation Council was invited to participate in a panel discussion, where he shared insights on the role of AI in driving student innovation and entrepreneurship.

PHOTOGRAPHS 17.13:
AI NEXUS – GOA MULTI-FACULTY COLLEGE, DARBANDORA

17.15: SCIENCE FILM FESTIVAL OF INDIA (SCI-FFI) – 29.1.2025

The Goa State Innovation Council (GSInC) showcased at SCI-FFI, held from January 29 to February 1 2025, captivating students from across Goa with the transformative power of 3D printing technology. The event served as a vibrant platform to spark curiosity, fuel creativity, and promote innovation among the youth.

At the GSInC stall, students were introduced to the real-world applications of 3D printing through interactive exhibits, live demonstrations, and hands-on workshops. These sessions showcased the complete process—from digital design to physical prototype—highlighting how 3D printing is revolutionizing industries and creating new opportunities for innovation.

With over 1,000 students in attendance, the exhibit provided a dynamic and engaging environment for experiential learning. Students enthusiastically explored the technology, tested their own designs, and gained practical exposure to one of today's most promising tools for rapid prototyping and innovation.

GSInC's participation at SCI-FFI reaffirmed its dedication to fostering technological curiosity and entrepreneurial thinking among young minds. By creating opportunities for students to engage directly with emerging technologies, GSInC continues to play a pivotal role in shaping Goa's innovation ecosystem and empowering the next generation of thinkers and creators.

PHOTOGRAPHS 17.14:
SCIENCE FILM FESTIVAL OF INDIA

DAY 01

DAY 02

DAY 03

DAY 04

17.16: CONVERGE 2.0: CUNCOLIM EDUCATIONAL SOCIETY'S COLLEGE OF ARTS & COMMERCE - 5.03.2025

On 5th March 2025, Cuncolim Educational Society's College of Arts & Commerce (CES) successfully organized CONVERGE 2.0, a one-day educational and skill development program aimed at enriching students' perspectives on career readiness and innovation. The event brought together a panel of eminent resource persons from diverse fields to deliver insightful sessions on education, emerging career opportunities, and the importance of skill-based learning in today's rapidly evolving landscape.

The Project Officer from the Goa State Innovation Council was invited as the Chief Guest for the event. During his address, he encouraged students to embrace skill development, practical learning, and innovation as essential tools for success in both academic and professional life. He highlighted the growing relevance of creativity, adaptability, and entrepreneurial thinking in a competitive world, and urged students to make use of platforms and schemes available to support young innovators.

The event included interactive sessions, student activities, and discussions designed to spark curiosity and promote critical thinking.

PHOTOGRAPH 17.15:

CONVERGE 2.0 – CUNCOLIM EDUCATIONAL SOCIETY'S COLLEGE OF ARTS & COMMERCE

17.17: BITS, DEODHAR - 11.3.2025

On 11th March 2025, BITS Deodhar organized an expert session aimed at fostering innovation and entrepreneurial thinking among students. The Project Officer from the Goa State Innovation Council was invited as a guest speaker to deliver a talk on "Innovation, Problem Solving, and Prototyping Projects." The session focused on empowering students to convert their ideas into tangible solutions through structured innovation processes.

During the talk, the Project Officer elaborated on how students can identify real-world problems and apply creative thinking to develop impactful solutions. He discussed the concept of Minimum Viable Product (MVP) development, explaining how early-stage product prototypes can help validate ideas before scaling up.

The session also included insights into the startup ecosystem, including practical tips on how students can transition from project work to building sustainable startups. The speaker highlighted various government funding schemes, incubation support, and initiatives under the Goa State Innovation Council and Startup Promotion Cell, such as prototyping grants, patent support, and mentorship opportunities.

PHOTOGRAPH 17.16 : GUEST SESSION AT BITS, DEODHAR

17.18: INTERACTIVE SESSION AT SHREE RAYESHWAR INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY (RIT), SHIRODA - 17.06.2024

On 17th June 2024, the Project Officer from the Goa State Innovation Council (GSInC) was invited to interact with the first-year engineering students at Shree Rayeshwar Institute of Engineering & Information Technology (RIT), Shiroda. The session was organized to motivate students at the start of their academic journey and to highlight the importance of innovation, creativity, and skill development in engineering education.

During the talk, the Project Officer emphasized that the four years of engineering are a crucial period for students to build not only academic knowledge but also practical skills that can help them solve real-world problems. He encouraged students to go beyond the textbook and actively engage in learning new technologies, understanding how things work, and experimenting with ideas through projects and hands-on experiences.

The speaker also spoke about the significance of innovation and creativity in today's dynamic world and urged students to read about successful innovators, emerging trends, and breakthrough technologies. He stressed the value of problem-solving skills as a foundation for engineering success and future careers.

PHOTOGRAPH 17.17:
INTERACTIVE SESSION AT SHREE RAYESHWAR INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY (RIT), SHIRODA

PHOTOGRAPH 17.17:
INTERACTIVE SESSION AT SHREE RAYESHWAR INSTITUTE OF ENGINEERING &
INFORMATION TECHNOLOGY (RIT), SHIRODA

CHAPTER 18

FINANCE AND ACCOUNTS OF THE COUNCIL

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FINANCE AND ACCOUNTS OF THE COUNCIL

TABLE 18.1: GRANTS AND FUNDING ACCOUNT OF THE COUNCIL

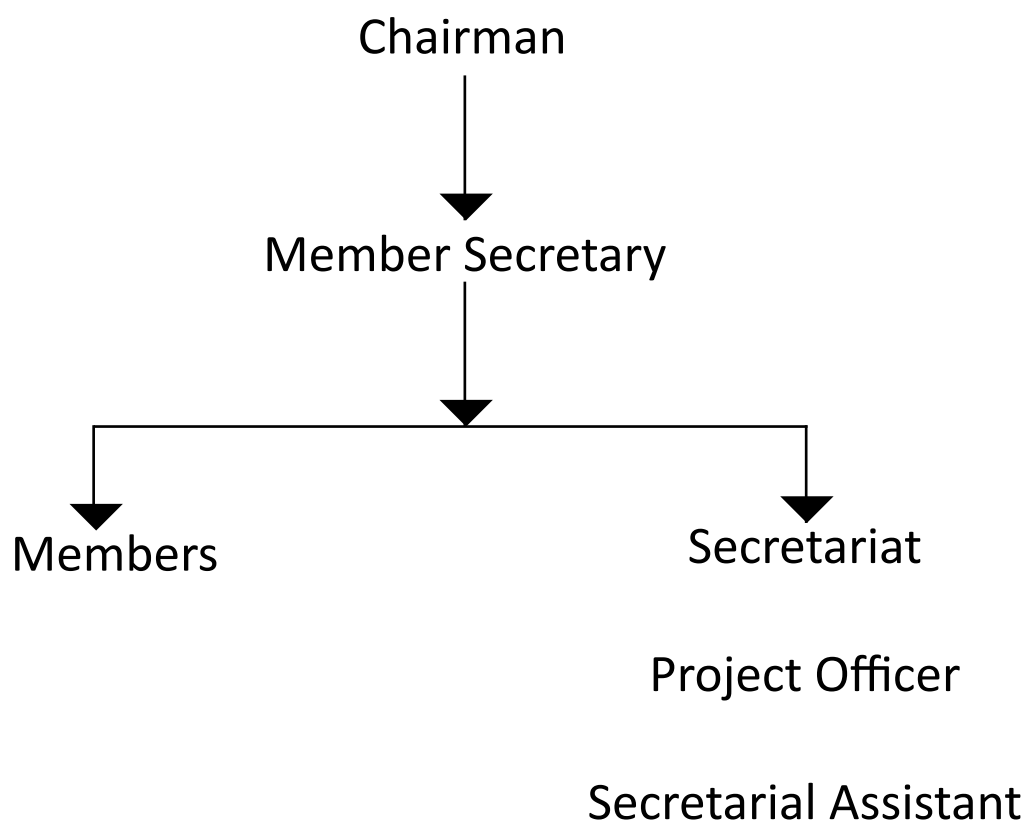| Sr. No.	Date	Amount	Order No.
1	18.6.2024	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/222
2	18.6.2024	Rs. 6,06,492.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/221
3	18.6.2024	Rs. 1,43,508.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/223
4	5.12.2024	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/929
5	28.1.2025	Rs. 6,06,492.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/1221
6	28.1.2025	Rs. 1,43,508.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/1222

TABLE 18.2 : UTILIZATION CERTIFICATE OF THE GRANT

Sr. No.	Amount	Order No.
1	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/222
2	Rs. 6,06,492.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/221
3	Rs. 1,43,508.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/223
4	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/929
5	Rs. 6,06,492.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/1221
6	Rs. 1,43,508.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/1222

ANNEXURE

ANNEXURE

Chairman

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Member Secretary

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Members

Secretariat

Project Officer

Secretarial Assistant

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