



ANNUAL REPORT 2023-24

GOA STATE INNOVATION COUNCIL



ANNUAL REPORT 2023-24



Atanasio Monserrate

Minister for Revenue, Labour & Waste Management
Government of Goa

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

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Jose Manuel Noronha
Chairman

Chairman's Message



It is with great delight and gratification that I share the outstanding achievements of the Goa State Innovation Council for the previous financial year 2023-24. Inspired by the visionary dreams of our beloved ex-Chief Minister, Late Shri Manohar Parrikar, who aspired to make Goa the Innovation capital of India, GSInC has surpassed expectations and set new benchmarks.

Our journey over the past year has been marked by a series of initiatives aimed at fostering an innovation-centric culture and bolstering the startup ecosystem in Goa. From organizing startup bootcamps and STEM education workshops in schools to conducting specialized training programs on Intellectual Property Rights, our dedicated team has worked tirelessly to spark the spirit of innovation and entrepreneurship across the state.

At Goa State Innovation Council, our mission is clear: to cultivate a nurturing environment where innovative ideas can flourish and an entrepreneurial mindset can thrive. I am thrilled to report that we have made significant progress in building an agile, responsive, and future-ready startup infrastructure, thanks to the unwavering commitment and hard work of the GSInC team.

As we look to the future, I am filled with optimism and confidence. The initiatives we have undertaken in FY 2022-23 have laid a robust foundation for what lies ahead. We are on a path to creating a vibrant startup and innovation culture that will propel Goa to new heights.

I want to extend my deepest gratitude to all Dr Pramod Sawant - Hon'ble Chief Minister of Goa, Shri Atanasio Monserrate - Hon'ble Minister for Labour, Revenue and Waste Management, stakeholders— Industry partners, Educational institutions, and enthusiastic participants—who have played a crucial role in our success. Your unwavering support and collaboration have been the driving force behind our achievements.

Let us continue to pursue excellence, embrace innovation, and foster the spirit of entrepreneurship. Together, we can turn our vision of making Goa a beacon of innovation in India into reality.

This era of innovation holds boundless potential for transforming lives and driving progress. Together, we can create a future where innovation thrives, startups flourish, and Goa stands tall as a symbol of advancement and prosperity.



(Jose Manuel Noronha)
Chairman
Goa State Innovation Council



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01



INTRODUCTION

CHAPTER 01 **INTRODUCTION**

“Introductions are the first step toward building bridges, forging connections, and expanding horizons.”

DANIEL JOHNSON

1.1 GENERAL INTRODUCTION

Established under the Directorate of Science and Technology of the Government of Goa, the Goa State Innovation Council (GSInC) epitomizes the spirit of innovation and entrepreneurial excellence in the sunshine state of Goa. Aligned with the vision of the National Innovation Council, our council is dedicated to fostering a vibrant ecosystem that ignites creativity, drives economic growth, and enhances societal well-being through innovation.

Since its inception, the Innovation Council has worked relentlessly towards giving Goa a different dimension – much distant from its identity as a global tourist spot. Today, Goa is on the national map for offering world-class infrastructure and a robust startup ecosystem, attracting innovators and entrepreneurs from the rest of the country and the world, and GSInC has played a major role in making this transition possible.

GSInC has been at the forefront of catalyzing innovation and entrepreneurship in the state of Goa, right from the day one. Our primary objective is to cultivate an environment conducive to the development of groundbreaking technologies, novel products, and innovative services. By leveraging research, development, and collaborative partnerships among academia, industry, and government agencies, GSInC aims to propel Goa towards innovation-driven economic prosperity and social progress. At the heart of our mission lies the recognition of the transformative power of innovation. We believe that by nurturing a culture of creativity and ingenuity, we can unlock unprecedented opportunities for individuals, businesses, and communities. GSInC serves as a catalyst for change, bridging the gap between ideas and implementation, and transforming innovative concepts into tangible solutions that address pressing societal challenges and fuel economic growth.

In the pursuit of our objectives, GSInC remains steadfast in its commitment to supporting innovators, entrepreneurs, and startups. Through our diverse programs and initiatives, we provide a platform for talent to thrive, connect with mentors, access funding opportunities, and navigate the complexities of the innovation landscape. By fostering an ecosystem where ideas flourish and collaborations thrive, GSInC empowers individuals to turn their aspirations into reality and contribute to Goa's journey towards becoming a hub of innovation excellence.

Furthermore, we recognize the pivotal role of innovation in building a sustainable future. We are deeply committed to nurturing a skilled workforce equipped with the knowledge and expertise to tackle emerging challenges and drive inclusive growth. By promoting sustainability and responsible innovation practices,

GSInC seeks to create lasting impact and ensure Goa's continued prosperity for generations to come. As we reflect on the achievements and milestones of the past year, we remain steadfast in our dedication to fostering a culture of innovation, entrepreneurship, and excellence in Goa. Together, let us embark on this journey of innovation, where every idea has the power to shape the future and create a better tomorrow for all.

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

Table: 1.2: Name & Designation of Staff employed by GSInC

Sr. No.	Name of the Employee	Designation
01	Mr. Sudip Faldesai	Project Officer
02	Mrs. Valencia Fernandes	Secretarial Assistant

The Organizational Chart is attached in Annexure I.

Photograph 1:

The Secretariat of Goa State Innovation Council established at Don Bosco College of Engineering, Fatorda





***CONSTITUTION OF
THE COUNCIL***

CHAPTER 02

CONSTITUTION OF THE COUNCIL

"Councils are the forums where wisdom converges, decisions crystallize, and communities flourish."

SANTHANHA LEE

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.

2.1 INTRODUCTION

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.

Photograph 2:
Society Registration Certificate

<p>Government of Goa</p> <p>OFFICE OF THE DISTRICT REGISTRAR, SOUTH & INSPECTOR GENERAL OF SOCIETIES</p> <p>2nd Floor, Osia Commercial Complex D Wing Off Tel No.0832-2735194 Email:- drsouth-rd.goa@nic.in Website:- www.registration.goa.gov.in</p>

<p>CERTIFICATE OF REGISTRATION</p> <p>(See Rule 5)</p> <p>(The Societies Registration Act, 1860)</p> <p>(Central Act 21 of 1860)</p>
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Registered No. 98/Goa/2023</p> </div>
<p><i>It is certified that the Society "GOA STATE INNOVATION COUNCIL" has this day been duly registered under the Societies Registration Act, 1860 (Central Act 21 of 1860).</i></p>
<p>Given under my hand this day of 02/August/2023</p>
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  (VASUDEV HADKONKAR) Inspector General of Societies (South) Margao Goa </div> </div>
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Paid 1050/- vide eChallan No 202300575800 dated 02/08/2023 towards Processing and Registration fees.</p> </div>

2.2 THE CONSTITUTION OF THE COUNCIL MEMBERS

THE GOVERNING COUNCIL

DR. V. CANDAVELOU, IAS (1997)	Ex-Officio President Principal Secretary (Finance) Secretariat, Porvorim – Goa
SHRI JOSE MANUEL NORONHA	Ex-Officio Member Chairman, Goa State Innovation Council, Fatorda - Goa
SHRI PRASAD LOLAYEKAR, IAS (2014)	Ex-Officio Member Secretary (Education) Secretariat, Porvorim – Goa
SHRI RAMESH VERMA, IAS (2009)	Ex-Officio Member Secretary (Science, Technology and Waste Management) Secretariat, Porvorim – Goa
SHRI SUNEEL ANCHIPAKA, IAS	Ex-Officio Member Director (Information Technology) Government of Goa
MRS. BRENDA FERNANDES	Ex-Officio Member Member Secretary (Goa State Council for Science & Technology)
SHRI. ANKIT YADAV, IAS.....	Ex-Officio Member Director (Department of Science, Technology & Waste Management) Government of Goa

THE GENERAL BODY OF THE SOCIETY

SHRI JOSE MANUEL NORONHA	Chairman Chairman, Goa State Innovation Council, Fatorda - Goa
PROF. SUNIL KUMAR SINGH	Ex-Officio Member Director, CSIR-National Institute of Oceanography (NIO), Dona Paula, Goa
PROF. O. R. JAISWAL	Ex-Officio Member Director, National Institute of Technology Goa
DR. SUMAN KUNDU	Ex-Officio Member Director, BITS Pilani K K Birla Goa Campus
SHRI SUNEEL ANCHIPAKA	Ex-Officio Member Director, Department of Information Technology, Government of Goa
DR. VIVEK KAMAT	Ex-Officio Member Director, Directorate of Technical Education, Porvorim, Goa
SHRI PRASAD LOLAYEKAR (IAS)	Ex-Officio Member Director, Directorate Of Higher Education
DR. MS KRUPASHANKARA	Ex-Officio Member Principal, Goa College of Engineering, Farmagudi
DR. NEENA PANANDIKAR	Ex-Officio Member Principal, Don Bosco College of Engineering, Fatorda

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

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

SHRI. D. S. PRASHANT Member
CEO, Forum for Innovation Incubation
Research & Entrepreneurship,
Fatorda, Goa

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

SHRI. SREEDHAR BEVARA Member
CEO, BMR Innovations

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

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



***MEETINGS OF
THE COUNCIL***

CHAPTER 03

MEETINGS OF THE COUNCIL

“In meetings, we don't just exchange words; we exchange ideas, solutions, and possibilities.”

MICHAEL ROBERTS

3.1 MEETING OF THE COUNCIL

The Goa State Innovation Council (GSInC) holds important meetings to discuss and review key activities essential for meeting its objectives. Within these meetings, crucial decisions regarding activities, infrastructure, and other vital aspects necessary for the fulfilment of the council's objectives are deliberated upon and efforts of the GSInC team in charting a course towards fostering innovation, entrepreneurship, and sustainable development in Goa is planned out.

Table: 3.1: List of Goa State Innovation Council meetings

Sr. No.	Particulars	Date of Meeting	Venue
1	1st General Body Meeting	14/09/2023	Don Bosco College of Engineering, Fatorda
2	2nd General Body Meeting	19/03/2024	Don Bosco College of Engineering, Fatorda

THE FIRST GENERAL BODY 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

No. GSInC/2023-24/23

29/08/2023

NOTICE

Notice is hereby given that the First General Body meeting of the Goa State Innovation Council Society is convened on **Thursday, 14th September 2023**, from **9:30 a.m.** at **Ground Floor, Conference Room, Don Bosco College of Engineering, Fatorda, Goa.**

Agenda

1. Introduction to Goa State Innovation Council Society.
2. To discuss and approve the Authorised Signatory, Appointment of Auditors, Petty Cash, Finances & Bank Account, PAN Card registration, 12A & 80G registration for the Society.
3. To approve the post creation for the Society.
4. To approve the budget for the financial year 2023-24.
5. Any other matter with the permission of the Chair.

Note:

Meeting shall be adjourned if no quorum is reached by 9:30 a.m. and shall commence at 10:00 a.m. treating those present as quorum.

For Goa State Innovation Council

(Shri Levinson Martins)

Member Secretary

Date: 29/08/2023



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/2023-24/31

25/09/2023

Minutes of the First meeting of the General Body of the Goa State Innovation Council held on Thursday, 14th September 2023 at 9:30 a.m. at the Don Bosco College of Engineering, Fatorda, Margao, Goa – 403602.

Present:

Shri. Carminho Jose Manuel do Rosario de Noronha Chairman, Goa Public Service Commission, Panaji, Goa	Chairman – Present in person
Dr. Krupashankara M. S Principal, Goa College of Engineering, Farmagudi, Ponda, Goa	Member – Present in person
Dr. Neena Panandikar Principal, Don Bosco College of Engineering, Fatorda, Goa	Member – Present in person
Dr. Sunil Paul Assistant Professor, Indian Institute of Technology Goa, Farmagudi, Ponda, Goa	Member – Present in person
Shri. D. S. Prashant CEO, Startup and IT Promotion Cell, Govt. of Goa	Member – Present through Video Conferencing
Smt Brenda Fernandes Member Secretary, Goa State Council for Science and Technology, Government of Goa, Saligao, Bardez - Goa	Member – Present through Video Conferencing
Shri. Yashvit Naik Co-Founder & CTO, Teknorix Systems	Member – Present in person
Fr. Kinley D'Cruz Director, Don Bosco College of Engineering, Fatorda, Goa	Invitee – Present in person
Shri. Vikas Gaunker Additional Secretary (Finance), Secretariat, Porvorim, Goa	Invitee – Present in person
Shri. Levinson Jeronimo Martins Director, Department of Science, Technology & Waste Management, Government of Goa	Member Secretary – Present in person



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

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The 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 9:30 a.m. The Members confirmed having received the Notice and Agenda of the Meeting. The Chairman, Member Secretary, Members and Invitees signed the Attendance Register.

1.1 Introduction to Goa State Innovation Council Society:

The Chairman briefed about the background of the Goa State Innovation Council (GSInC) and stated that the State Innovation Councils were formed under the National Innovation Council (NInC), Government of India as advised by the Adviser to Prime Minister, Public Information Infrastructure and Innovations, Government of India on 4th August 2011. The GSInC 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 GSInC was later re-constituted on 19th October 2021 under the Department of Science, Technology & Waste Management (S&T&WM) he added that recently Finance Department advised that GSInC should be registered under the Societies Registration Act 1860 in order to continue receiving financial grants from the Government.

Chairman placed a copy of the Certificate of Registration of the Goa State Innovation Council Society dated 02/August/2023 (Registered No. 98/Goa/2023) received from the Office of District Registrar, South & Inspector General of Societies before the General Body and the General Body took note of the same.

The General Body noted the Governing Council and the General Body members as named in the Articles of Association.

1.2 Financial Year:

The General Body decided that the financial year of the Society should be from 1st April to 31st March, and accordingly, the first accounts be made for the period from Society registration to 31st March, 2024.

1.3 Appointment of Auditors:

The General Body discussed about the appointment of the auditors for the Society, The Society had approached M/s. Anup R. S. Borkar and Co., Chartered Accountants, to act as the Auditors of the Society. The General Body considered the matter and passed the following resolution:

"RESOLVED that M/s. Anup R. S. Borkar and Co., Chartered Accountants, be and are hereby appointed Auditors of the Society to hold office until the conclusion of the First Annual General Meeting of the Society, on such remunerations as may be mutually agreed upon"

1.4 Registered Office:

The General Body noted that the Registered Office of the Society will be at the Secretariat, Goa State Innovation Council Society, Don Bosco College of Engineering, Fatorda, Margao, Goa – 403601, the intimation of which had already been given to the Office of District Registrar, South & Inspector General of Societies.



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

1.5 Opening of Bank Account:

The General Body discussed about opening of Bank Account of the Society and passed the following resolution:

"RESOLVED that a Bank Account of the Society be opened with Bank of India, Fatorda Branch and that the said Bank be and is hereby authorized to honour all cheques, bills of exchange or Promissory Notes signed, executed, endorsed or made on behalf of the Society jointly by the Chairman and Member Secretary, and to act on any instructions so given by them relating to the Account whether the same be overdrawn or not or relating to the translations of the Society"

"RESOLVED further that a petty cash amount of Rs 15,000/- (Rupees Fifteen Thousand) be provided and maintained at the Secretariat of the Society"

"RESOLVED further that Mr. Bhupesh Prabhu Dessai, the accountant at the Don Bosco of Engineering, Fatorda shall be authorized to maintain the cash receipts, bank account and books of the society and he shall be paid a monthly honorarium of Rs 5,000/-"

The General Body agreed about creating a corpus fund for the Society, an amount of Rs 10,00,000/- (Rupees Ten Lakhs) every year to be proposed to the Department of Science, Technology & Waste Management, Government of Goa, the interest earned from the corpus fund can be utilized by the Society for its activities or initiatives. The General Body authorized the Chairman to utilize the funds. The Account of the corpus fund be titled **GOA STATE INNOVATION COUNCIL SOCIETY CORPUS FUND** and the signatories of the bank account shall also operate this corpus fund and also invest the money of corpus fund to earn interest/income.

1.6 Application for Permanent Account Number:

The General Body was informed that the Society was required to make an application to the Income Tax authorities for the allotment of Permanent Account Number (PAN). The General Body was briefed about the requirement of quoting PAN in case of several transactions as specified under the provisions of the Income Tax Act, 1961. The General Body considered the matter and pass the resolution:

"RESOLVED that Society do apply to the Income Tax authorities for the allotment of Permanent Account Number (PAN) for the Society and that the Project Officer be and is hereby authorized to sign the application forms and all other documents as may be required in this connections."

1.7 Application for Tax Deduction Account Number:

The General Body was informed that it was necessary to obtain a Tax Deduction Account Number (TAN) of the Society. The General Body considered the matter and pass the resolution:

"RESOLVED that Society do apply to the Income Tax authorities for the allotment of Tax Deduction Account Number (TAN) of the Society and the Project Officer be and is hereby authorized to sign the application forms and all other documents as may be required in this connections."



Society Registration No. 98/Goa/2023

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1.8 Application for 12A and 80G registration of the Society:

The General Body was informed that it was necessary to apply for 12A and 80G registration of the Society. The General Body considered the matter and pass the resolution:

"RESOLVED that Society do apply to 12A and 80G registration of the Society and that M/s. Anup R. S. Borkar and Co., Chartered Accountants, be and are hereby appointed for the purpose. The Member Secretary be and is hereby authorized to sign the application forms and all other documents as may be required in this connections."

1.9 Seal and Authorized Signatory of the Society

The General Body was informed that the Society was required to provide a Seal of the Society and passed the following resolution:

"RESOLVED that Society do apply for the seal of the Society and the Project Officer of the Society be and is hereby authorized to sign the documents on behalf of the Member Secretary as may be required."

1.10 Appointment of Staff and Sub-Committees:

The General Body was informed that the Society would have to appoint a Program Manager, Project Officers and other support staff. The General Body discussed the matter and decided to set up a Selection Committee consisting of Mr. Carminho Jose Manuel do Rosario de Noronha Chairman – Chairman, Mr. Levinson Jeronimo Martins – Member Secretary and Dr. Neena Panandikar – Member and such other experts as the Chairman deems appropriate. The General Body authorized this Selection Committee to first select and appoint the Project Officer and Secretarial Assistant on such terms as it thinks fit.

The General Body also authorized to appoint a Purchase Committee consisting of Dr. Krupashankara M. S – Member, Dr. Sunil Paul – Member, Mr. Yashvit Naik – Member and Project Officer – GSInC. Any Purchase related matters will be discussed and recommended for approval to the Chairman by the Purchase Committee.

"RESOLVED that purchase of Goods/Services up to the value of Rs 25,000/- (Rupees Twenty five Thousand) only on each occasion may be made with the requisite quality and specifications and have been purchased from a reliable supplier at a reasonable price without multiple quotation by the Project Officer."

"RESOLVED further that purchase of Goods/Services costing above Rs 25,000/- (Rupees Twenty five Thousand) only and up to Rs 1,00,000/- (Rupees One Lakh) only on each occasion may be made with the requisite quality will accept multiple quotations to ascertain the reasonableness of rate, quality and specifications and identify the appropriate supplier by the Project Officer."

"RESOLVED further that purchase of Goods/Services costing above Rs 1,00,000/- (Rupees One Lakh) only and up to Rs 5,00,000/- (Rupees Five Lakhs) only on each occasion may be made on recommendation of the Purchase Committee. The Purchase Committee will accept multiple quotations to ascertain the reasonableness of rate, quality and specifications and identify the appropriate supplier."

"RESOLVED further that purchase of Goods/Services costing above Rs 5,00,000/- (Rupees Five Lakhs) only on each occasion may be made through eTender process by the State or Central Government.



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The Chairman informed the General Body that the activities of the Society were increasing and there was a need felt to appoint additional staff to carry out these activities. Further while discussing it was informed that presently the Society operates from the Secretariat at Don Bosco College of Engineering, Fatorda with the following staff:

- i. Project Officer
- ii. Secretarial Assistant

The General Body discussed the need to appoint additional staff to carry out the activities of the Society at length and it was decided that the following job roles at the Society were approved and to be proposed to the State Government.

Sr No	Designation of the Post	Number of post to be created	Pay Band + G.P.
1	Program Manager	1 (one)	Rs 9,300 – 34,800 + 4,600/- (Pay Matrix level 7)
2	Project Officers	2 (two)	Rs 5,200 – 20,200 + 2,400/- (Pay Matrix level 4)
3	Upper Division Clerk	1 (one)	Rs 5,200 – 20,200 + 2,400/- (Pay Matrix level 4)
4	Lower Division Clerk	1 (one)	Rs 5,200 – 20,200 + 1,900/- (Pay Matrix level 2)
5	Multi-Tasking Staff	1 (one)	Rs 5,200 – 20,200 + 1,800/- (Pay Matrix level 1)

1.11 Any other matters:

The General Body was informed about the India International Innovation & Invention Expo (INEX) 2023 and the dates were 9th, 10th & 11th Nov 2022. The venue for INEX 2023 was finalized at the Don Bosco College of Engineering, Fatorda.

The General Body was also informed about the utilization of the premises for the purpose of the Secretariat and Rapid Prototyping Lab of the Society and the Project Officer was directed to consult the PWD for finalizing the rent to be paid to the Don Bosco College of Engineering, Fatorda.

There being no further business, the Meeting ended at 10:45 a.m. with a vote of thanks to the Chair.

CHAIRMAN

Photograph 3:

Shri. Jose Manuel Noronha, Chairman of Goa State Innovation Council presenting a bouquet of flowers to Rev. Fr. Kinley D'Cruz for his immense support to the Council. The following members were present: (L-R) Dr. Sunil Paul, Dr. Ms Krupashankara, Dr. Neena Panandikar, Dr. Levinson Martins, Shri. Vikas Gaunekar and Shri. Yashvit Naik



THE SECOND GENERAL BODY MEETING



GOA STATE INNOVATION COUNCIL

Department of Science & Technology, Government of Goa

Secretariat

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NOTICE

Notice is hereby given that the Second General Body meeting of the Goa State Innovation Council Society is convened on **Tuesday, 19th March 2024**, from **9:30 a.m.** at **Ground Floor, Conference Room, Don Bosco College of Engineering, Fatorda, Goa.**

Agenda

1. Minutes of the First General Body meeting on 14th September 2023.
2. Matters arising from the Minutes.
3. Updates on previously conducted events and Annual Report.
4. Proposal of GSInC's Initiatives for 2024-25.
5. Any other matter with the permission of the Chair.

Note:

Meeting shall be adjourned if no quorum is reached by 9:30 a.m. and shall commence at 10:00 a.m. treating those present as quorum.

For Goa State Innovation Council

A blue ink signature, appearing to read "Sudip Faldesai", is written over a horizontal line.

(Sudip Faldesai)

For Member Secretary

Date: 14/03/2024



Society Registration No. 98/Goa/2023

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Ref: GSInC/2023-24/

19/03/2023

Minutes of the Second meeting of the General Body of the Goa State Innovation Council held on Tuesday, 19th March 2024 at 9:30 a.m. at the Don Bosco College of Engineering, Fatorda, Margao, Goa – 403602 in hybrid mode.

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

Shri. Jose Manuel Noronha	Chairman – Present Online
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
Dr. Kaustubh Priolkar Professor, Department of Physics, Goa University, Taleigao, Goa	Member – Present Online
Dr. Sunil Paul Assistant Professor, Indian Institute of Technology Goa, Ponda, Goa	Member – Present Online
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
Shri. Shreedhar Bevara CEO, BMR Innovations, Vishakapatnam, Andhra Pradesh	Member – Present Online
Shri. Yashvit Naik Goa Technology Association, Goa	Member

Shri Levinson Martins, Director - Department of Science and Technology and Waste Management, Government of Goa informed that he was transferred to the position of Director - Commissioner of Labour and Employment and Shri Ankit Yadav, IAS is appointed as the Director - Department of Science and Technology and Waste Management, Government of Goa. It was further informed Ms. Gayatri Ghatwal, Scientific Officer at Department of Science and Technology and Waste Management, Government of Goa was present for the meeting.

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



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2.0 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 9:30 a.m. He stated that the Society has achieved its objectives for the 2023-24 year and appreciated the contribution of the General Body. He emphasized that a lot of Innovation driven programs and events were organized by the Society so that the youth and Innovators are exposed to various facets of Innovation. He, then directed the Project Officer, GSInC to take up the agenda items.

2.1 Confirmation of the Minutes of the First General Body meeting held on 14th September 2023.

The Project Officer informed that the Minutes of the First General Body meeting held on 14th September 2023 were circulated through e-mail to all members. The members confirmed having received the minutes and since there were no observations, the minutes were confirmed.

2.2 Item no 2.2: Follow up action on the decisions taken in the First General Body meeting of the Society

The Project Officer briefly explained the status update on the opening of the bank account for the society. He mentioned that the bank account was issued at the Bank of India, Fatorda Branch with Account Number 103810210000069. He also informed the General Body that the PAN Card No. AAJAG6036A had been issued to the Goa State Innovation Council. He added that the status on 12A & 80G registration was still in process and the Chairman directed the Project Officer to follow-up with the concerned departments.

The Project Officer updated the status on the Creation of New Posts for the Society, as approved at the earlier meeting and it was informed a file for creation of these post was submitted to Administrative Reforms Department, Government of Goa by the Department of Science, Technology & Waste Management, Government of Goa. He added that The Technical Officer at the Administrative Reforms Department had made observations and requested for additional clarifications which are addressed to the Member Secretary of the Society. The Chairman directed the Project Officer to follow-up with the Concerned Officer at the Department of Science, Technology & Waste Management, Government of Goa.

2.3 Item No 2.3: Budget Estimate for the financial year 2024-25.

The Project Officer informed the members of the General Body about the budget estimate for the financial year 2024-25.

a. Staff salaries and administration costs:

Sr. No.	Item of Expenditure	Proposed Support per annum (RS in lakhs)
1	Program Manager Salary (Rs 9,300 – 34,800 + 4,600/- Pay Matrix level 7) Total Gross Salary Rs 74,396 per month x 12 months	₹8,92,752.00
2	Project Officers Salary – 2 nos (Rs 5,200 – 20,200 + 2,400/- Pay Matrix level 4) Total Gross Salary Rs 43,356 per month x 2 x 12 months	₹10,40,544.00
3	Upper Division Clerk Salary (Rs 5,200 – 20,200 + 2,400/- Pay Matrix level 4) Total Gross Salary Rs 43,356 per month x 12 months	₹5,20,272.00
4	Lower Division Clerk Salary (Rs 5,200 – 20,200 + 1,900/- Pay Matrix level 2) Total Gross Salary Rs 34,396 per month x 12 months	₹4,12,752.00
5	Multi-Tasking Staff Salary (Rs 5,200 – 20,200 + 1,800/- Pay Matrix level 1) Total Gross Salary Rs 31,356 per month x 12 months	₹3,76,272.00
	Sub total	₹32,42,592.00
		(say) 32.5



Society Registration No. 98/Goa/2023

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6	Travel Allowance	5.00
7	Taxi on Hire @ Rs 25,000/month	03.00
8	Networking and meetings, Administrative Expenses, Miscellaneous & Contingencies	3.00
9	Goa State Innovation Council Society Corpus Fund	10.00
	TOTAL	53.50

b. Initiatives and program costs:

S.N	Initiatives	No. of Sessions	Estimate in Lacs
1	Virtual Innovation Register		04.00
2	Provisional Patent Scheme	10	01.00
3	Prototyping Grant Scheme	25	05.00
4	Bootcamps in Colleges	50	05.00
5	Sensitisation Workshops in Schools	50	06.00
6	Faculty Development Program	1	02.00
7	Women Centric Workshops	3	01.00
8	Intellectual Property Rights Training	5	02.00
9	Industry Institute Interaction	2	01.50
10	Risk Capital Session	2	01.00
11	STEM – Think, Design & Prototyping Workshops	60	11.00
12	Prototyping Lab – Projects to Product Development from VIR	10	10.00
13	Prototyping Lab – Purchase of Prototyping Consumables & Maintenance		02.50
14	Most Innovative Student Projects Competition		03.00
15	Competition for Goa's Young Innovators Award		03.00
16	Ideathon/Hackathons on Problem statements		02.00
	TOTAL		60.00

Project Officer informed the General Body that a total of Rs 113.5 lakhs (Rs 53 lakhs + Rs 60 lakhs) is estimate for the financial year 2024-25. After discussions the General Body approved the proposed estimated budget for salaries and administrative expenses and resolved to forward the same to Department of Science and Technology and Waste Management, Government of Goa for approval. It was further resolved that in order that the initiatives being undertaken by the Society carry on smoothly, the Grant in Aid to the Society should also be made available in timely manner.



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2.4 Item No.2.4: Progress achieved for the year 2023-24

The Project Officer presented the General Body with the Progress achieved & previously conducted events, initiatives & programs of the Society.

S.N	Initiatives for 2023-24	Proposed Events	Total Events	Total Pax
1	Bootcamps on Innovation, Creativity & Prototyping in Colleges	25	12	681
2	Sensitisation Workshop on Innovation, Creativity & Prototyping in Schools	50	58	5370
3	Prototyping Workshops on Think, Design & Prototype	60	57	2291
4	Faculty Development Program (FDP) on Innovation, Creativity & Prototyping	2	4	126
5	Women centric Workshop	3	2	262
6	Panel Discussion on Industry Institute Interaction	2	1	150
7	Risk Capital Session on Venture Capital	2	5	227
8	INEX 2023	1	1	4950
9	IPR Sessions	5	3	225
	TOTAL	150	143	14,282

The Project Officer informed the General Body that a total of 143 programs & events were organized by the Society, training a total of 14,282 participants from schools, colleges, research faculty, innovators, startups, entrepreneurs, etc.

The General Body also noted that a total of 10 final year Engineering project were selected under the Scheme titled **"Scheme to encourage Students for Innovative Projects"** and a total of 11 prototypes were support and mentored at the Rapid Prototyping Lab for the year 2023-24.

The Project Officer showcased the overall achievements of the Society:

1	Provisional Patents filled	11
2	Prototyping Grants supported	57
3	Projects Mentored	87
4	Workshops Conducted	554
5	Participants Trained	42,718
6	Workshops conducted in the Prototyping Lab	256
7	Participants Trained in the Prototyping Lab	8,961
8	VIR – New Users registered	1021
9	VIR – Startups registered	76

The Chairman and the members expressed their appreciation towards this achievement of the Society and suggested to highlight the success stories of the projects and Innovations supported by the Society through various News and Media channels for information of general public.

2.5 Item No.2.5: Awards & Recognitions received by the Society for the year 2023-24

a. The General Body was informed that the Hon'ble Chief Minister of Goa, Dr. Pramod Sawant appreciated the efforts of the Goa State Innovation Council during the Goa Legislative Assembly session on 20.7.2023. He was speaking on the Annual report that was placed on the floor of the house for the information of members.

b. The General Body was presented with the SKOCH ORDER OF MERIT Award 2023-24 which was received for the initiative of the Rapid Prototyping Lab established at the Don Bosco College of Engineering, Fatorda.

The Chairman and the members congratulated the Secretariat Staff at the Goa State Innovation Council for this achievement and suggested to highlight this achievement in the News and Media channels.



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2.6 Item No.2.6: Any other Item with the permission of the Chair:

The General Body approved the proposal to pay sitting fees to the Non-Official Members of the Society and approved to pay Rs 3,000/- to Non-Official Members of the Society as sitting fees for attending the General Body and Governing Body meetings of the Society. It was further decided to send this proposal to the Government for approval.

The Chairman informed the General Body Members on the ERASMUS Project and mentioned that the Goa State Innovation Council with collaboration with IBS Global, Poland had applied for the Project titled as "Incubation on Demand" from Goa, India. He also added that other countries like Canada and United Kingdom were part of the project.

Chairman informed that the Trade Commissioner, Global Affairs Canada at Mumbai had visited the Secretariat of the Goa State Innovation Council and had proposed that the Society conduct Women Centric programs in fields of Startups and Innovations for which the Canada Trade Missions would collaborate financially and technically. After discussions the members appreciated these developments and decided that the Society should proceed with implementation of both these projects.

The chairman informed that he had been invited to be Chief Guest for the E-Innovate Event from 14th to 18th May 2024 at Jagiellonian University Campus, Krakow, Poland and he further added that this event would showcase cutting edge technologies and Innovative solutions. After discussions it was approved that the chairman attends the program and travel and other cost be borne through the funds of the council.

The General Body approved the proposal to conduct a Hackathon to identify and develop Defence Innovative Solutions titled as **Defence Innovative Solution Hackathon (DISK) 2024** in collaboration and support of the Indian Army – HQ, STC, Panaji. The Activities at the DISK 2023 Hackathon are:

- Defence Challenge Identification Workshop by the Army
- Design Thinking Workshop by GSInC
- Prototype development Workshop by GSInC
- Mentoring Workshop by GSInC
- Product Implementation Session by GSInC

Project Officer explained that a provision of Rs 2 lakhs was made for conduct of Ideathon/hackathon on problem statements and funds on this head could be used for this program. After discussions the same was approved.

While concluding the meeting all the Members including the Chairman unanimously appreciated the efforts of Mr. Sudip Faldesai, Project Officer with his dedicated and professional approach had made a deep impact on Innovation ecosystem in the State. The Chairman further added that this appreciation should be placed on record in the minutes.

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

04



**COMMITTEES &
SUB-COMMITTEES**

CHAPTER 04

COMMITTEES & SUB-COMMITTEES


“Committees are the engines of collaboration,
where diverse voices harmonize to drive impactful change.”

EMILY DAVIS

4.1 Provisional Patent Grant

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.



PROVISIONAL PATENT GRANT

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

[Download](#) [Apply](#)

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20/03/2024

Notice is hereby given that the Seventh Meeting of the Selection Committee for the Scheme entitled **"SCHEME FOR PATENT FILING UNDER VIRTUAL INNOVATION REGISTER (VIR)"** is convened on Thursday, 21st March 2024 from 10 a.m. to 12 p.m. at **Ground Floor, Conference Room, Don Bosco College of Engineering, Fatorda, Goa.**

Agenda

1. Introduction to the Scheme
2. Updates on previous Selected Ideas
3. Provisional Patent Interviews
4. Any other matter with the permission of the Chair.

Schedule for the Provisional Patent Interviews is enclosed.

Note:

Meeting shall be adjourned if no quorum is reached by 10:00 a.m. and shall commence at 10:30 a.m. treating those present as quorum.

For Goa State Innovation Council

(Sudip Faldesai)

Project Officer

Date: 19/03/2024

Schedule for the Provisional Patent Interviews is as follows:

Sr No	Title	Unique ID	Name & Designation	Contact No.	Time
1	Design and Development of Drone for Coconut Harvesting.	GSInC-I-000365	Gaurish M Samant,	7411357170	10:30 am
2	Development of Natural fiber composite material	GSInC-I-000366	Gaurish M Samant,	7411357170	10:45 am
3	Composite material design for Construction brick and block	GSInC-I-000054	Sathesh Kakodkar	9822384689	11:00 am
4	Smart Saline	GSInC-I-000367	Arya Khedeker	9881109470	11:15 am
5	Portable Cataract Detection and Grading System	GSInC-I-000358	Harsh Raut	9834176414	11:30 am

For Goa State Innovation Council

(Sudip Faldesai)

Project Officer

Date: 19/03/2024

**MINUTES OF THE MEETING FOR THE SEVENTH MEETING OF THE TECHNICAL ADVISORY COMMITTEE (TAC)
– PROVISIONAL PATENT SCHEME OF GOA STATE INNOVATION COUNCIL HELD ON 21st March 2024.**

Members present

1	Mr. B S Revankar Ex-Director, NITK – STEP, Surathkal, Karnataka	Chairman
2	Prof Sunil Bhand Dean, Sponsored Research & Consulting, Professor of Chemistry BITS, Pilani - K. K. Birla, Goa	Member
3	Mr. Rovino Rodrigues Business Head, Asia & Pacific Region, Integrated Liner Technologies, Inc.	Member
4	Mr. Sudip Faldesai Project Officer, Goa State Innovation Council	Member Secretary

Proceedings

1. In the Opening remarks, Chairman formally welcomed the members of the newly constituted Provisional Patent Scheme and stated that the quorum was established and the meeting was properly constituted at 9:30 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 6 Ideas were invited for the presentation for the evaluation by the Technical Advisory Committee. The Ideas with the Unique Registration Numbers **365, 366, 054, 367, 358** and **368** were shortlisted by the TAC. Shortlisted Ideas are attached in Annexure I.
5. It was decided by the committee to schedule the next meeting in the third/fourth week of July 2023.
6. 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	Design and Development of Drone for Coconut Harvesting.	GSInC-I-000365	Gaurish M Samant	7411357170	10:30 am
2	Development of Natural fiber composite material	GSInC-I-000366	Gaurish M Samant	7411357170	10:45 am
3	Composite material design for Construction brick and block	GSInC-I-000054	Sathesh Kakodkar	9822384689	11:00 am
4	Smart Saline	GSInC-I-000367	Arya Khedeker	9881109470	11:15 am
5	Portable Cataract Detection and Grading System	GSInC-I-000358	Harsh Raut	9834176414	11:30 am
6	Design of Biomass for Construction	GSInC-I-000368	Simran Shirish Mogale	9284883144	11:45 am

4.2 SCHEME TO ENCOURAGE INNOVATIVE STUDENT PROJECTS



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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=TEVjOWM2bms5QVZSUFNQVTIIMXRKQT09>

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 FIRST SELECTION COMMITTEE OF THE SCHEME TO ENCOURAGE INNOVATIVE STUDENT PROJECTS OF GOA STATE INNOVATION COUNCIL HELD ON 15TH NOVEMBER 2023, FROM 10:00 A.M. AT FATORDA, GOA.

Members present

1	Mr. B S Revankar Ex-Director, NITK – STEP, Surathkal, Karnataka	Chairman
2	Dr Narsinh Thakur Ph.D. Senior Principal Scientist, CSIR – NIO, Goa	Member
3	MR. MAHESH MALKARNEKAR Ex- Chief Engineer Operations, Goa Shipyard Ltd.,Goa	Member
4	Mr. Sudip Faldesai Project Officer, Goa State Innovation Council, Goa	Member - Secretary

Proceedings

At the outset, the Chairman formally welcomed the members of the Selection Committee of the Scheme to Encourage students for innovative projects and stated that the quorum was established and the meeting was properly constituted at 10:00 a.m. The Members confirmed having received the Notice and Agenda of the Meeting. The Chairman, Members and Member Secretary signed the Attendance Register.

1.1 Introduction to Scheme to Encourage Innovative Student Projects

The Member Secretary briefed about the background of the Goa State Innovation Council (GSInC) and the Scheme to encourage innovative student projects. The students under the scheme shall be eligible for financial support of up to Rs. 50,000/- (Fifty Thousand only) and maximum of ten projects will be supported through this scheme each financial year.

1.2 List of Projects scheduled for the Interview

A total number of 15 Student Projects with the following Unique Registration Numbers (URN) were invited for the selection interview of the Scheme.

Sr. No.	URN	Title
1	GSInC-I-000315	Green Composite for Ballistic Application
2	GSInC-I-000310	Unauthorized Activity Detection during Online Exam
3	GSInC-I-000309	Optimized Traffic Signals
4	GSInC-I-000303	Tumor detection with deep learning
5	GSInC-I-000300	Student Attendance System
6	GSInC-I-000324	Cycloidal Drive for CNC Machines
7	GSInC-I-000321	Translation Specula
8	GSInC-I-000337	Design and Implementation of Fault Detection in Transmission Lines Using IOT

Sr. No.	URN	Title
9	GSInC-I-000339	Design and Fabrication of Sea Shell Crusher
10	GSInC-I-000340	Optimizing performance of BCI (Brain-Computer Interface) for gaming using hybrid machine learning techniques.
11	GSInC-I-000342	Voice controlled wheelchair for blind with hearing assistance.
12	GSInC-I-000343	ActiveStride - Foot Prosthetic
13	GSInC-I-000344	Wave Energy Generation Using Floaters
14	GSInC-I-000302	Water impurity detection and purification for rural India
15	GSInC-I-000317	Modelling and Simulation of Brain-Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic

List of Projects shortlisted for the Scheme

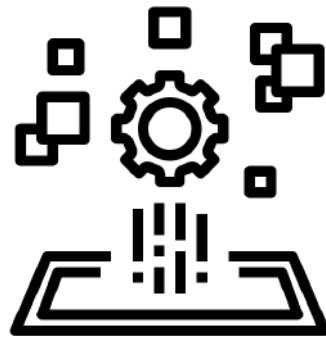
A total of 10 Student projects with the following URN were approved by the selection committee based on the eligibility criteria of Novelty, Usefulness, Scalability, Innovative approach & Prototyping.

Sr. No.	URN	Title
1	GSInC-I-000315	Green Composite for Ballistic Application
2	GSInC-I-000303	Tumor detection with deep learning
3	GSInC-I-000300	Student Attendance System
4	GSInC-I-000324	Cycloidal Drive for CNC Machines
5	GSInC-I-000321	Translation Specula
6	GSInC-I-000337	Design and Implementation of Fault Detection in Transmission Lines Using IOT
7	GSInC-I-000340	Optimizing performance of BCI (Brain-Computer Interface) for gaming using hybrid machine learning techniques.
8	GSInC-I-000342	Voice controlled wheelchair for blind with hearing assistance.
9	GSInC-I-000343	ActiveStride - Foot Prosthetic
10	GSInC-I-000317	Modelling and Simulation of Brain-Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic

Student project with the URN of GSInC-I-000317 was advised to submit the budget estimate to the Project Officer at GSInC, which was duly submitted on the same day by the Students.

The meeting ended with Vote of Thanks by the Chairman.

05



***VIRTUAL
INNOVATION
REGISTER***

CHAPTER 05

VIRTUAL INNOVATION REGISTER

“People don’t like to think, if one thinks, one must reach conclusions.
Conclusions are not always pleasant.”

HELEN KELLER

5.1 INTRODUCTION

Great inventions take birth from revolutionary ideas. It is with this profound understanding that the Goa State Innovation Council (GSInC) conceived and developed the Virtual Innovation Registration platform.

This innovative tool serves as a beacon of empowerment, enabling individuals from diverse socio-economic backgrounds to effortlessly register and safeguard their innovative ideas. By providing a user-friendly interface and robust security measures, the Virtual Innovation Registration platform ensures that creativity knows no bounds, fostering a culture where every idea, regardless of its origin, has the opportunity to flourish and make a transformative impact on society.

Virtual Innovation Register

The Virtual Innovation Register (VIR) is an embodiment of the Council's unwavering commitment to promoting creativity and entrepreneurship across the vibrant landscape of Goa. This dynamic online platform serves as a gateway for visionaries and trailblazers to illuminate their ideas and ventures, forging connections with investors and pioneers within the innovation ecosystem.

The VIR beckons aspiring visionaries to share their start-up dreams and benefit from invaluable validation and guidance from the Council's esteemed mentors and industry experts. Explore the wide range of possibilities using advanced tools available in VIR's digital platform. These tools empower innovators to carefully evaluate the commercial potential of their ideas and develop them into tangible products or services.

Embracing inclusivity, the Virtual Innovation Register extends its welcoming arms to all innovators and entrepreneurs within Goa, irrespective of their sector or developmental stage. Seamlessly navigate the platform's intuitive interface, effortlessly uploading projects and ideas with unparalleled ease. Utilize VIR's intuitive search feature to swiftly discover projects aligned with your aspirations, filtering through sectors, developmental stages, and geographical locations with unparalleled precision.

Ways VIR Supports Innovators & Startups:

- **Intellectual Property Protection:** By registering with the Virtual Innovation Register (VIR), innovators and startups secure their original ideas under the Intellectual Property Rights (IPR) Act.

- **Expert Validation:** Ideas submitted to VIR undergo evaluation by industry experts, ensuring validation based on criteria like cost viability, market feasibility, and scalability.
- **Digital Accessibility:** Innovators and entrepreneurs enjoy the convenience of registering their ideas online through VIR, eliminating the need for physical visits to the GSInC office.

Innovators and startups can categorize their innovations into two distinct categories within VIR: New Ideas and Startups.

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 Virtual 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 1075 innovative ideas and 100 startups are currently registered on the Venture Innovation Registry (VIR).

5.2 SCHEME FOR PATENT FILING UNDER VIRTUAL INNOVATION REGISTER (VIR)

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 innovators. 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 high quality 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:
 - Agri-tech
 - Digital media
 - Health care tech
 - Manufacturing
 - 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:

SHRI B. S. REVANKAR..... Chairman
Ex-Director, CEDOK, STEP-NITK Surathkal

PROF SUNIL BHAND Member
Dean, Sponsored Research & Consulting, Professor,
BITS Pilani, Goa Campus

SHRI. ROVINO RODRIGUES Member
CEO, Forum for Innovation Incubation
Research & Entrepreneurship,
Fatorda, Goa

SHRI. SUDIP FALDESAI Member Secretary
Project Officer - Goa State Innovation Council

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.

How to Apply:

www.goastateinnovationcouncil.com/schemes

5.3 SCHEME TO PROVIDE GRANT IN AID FOR PROTOTYPING TECHNOLOGY-BASED INNOVATIVE PRODUCTS UNDER VIRTUAL INNOVATION REGISTER (VIR)

INTRODUCTION:

The mandate of GSInC is to augment knowledge and creativity through identification, support and incubation of technologies and traditional practices. Students, young entrepreneurs, emerging startups, having innovative ideas with a vision to transform them into scalable products are truly the main driving force behind rapid economic growth, increased productivity, social transformation as it also helps in reshaping and redefining almost every aspect of our lives and environment.

Scheme to provide Grant In Aid for prototyping technology-based innovative projects/ideas under the Virtual Innovation Register (VIR) to make it affordable for Students, Startups, Innovators, Research Faculty & Entrepreneurs who require the necessary support in converting Ideas into marketable products.

OBJECTIVES:

1. The scheme is primarily formulated with the objective to support and finance Students, Startups, Innovators, Research Faculty and Entrepreneurs, having technology based innovative ideas which they wish to translate into working and marketable prototypes/products.
2. The scheme aims to encourage innovators to achieve new heights in sustainable technologies by providing grant in aid for prototyping their product/ideas.
3. To create a vibrant innovation ecosystem by supporting faster implementation of innovative ideas and converting the same into products/ processes.

ELIGIBILITY CRITERIA FOR AVAILING BENEFITS UNDER THE SCHEME:

1. Students, Startups, Innovators, Research Faculty & Entrepreneurs [collectively, “applicant” (s)] may apply under this scheme.
2. The applicant must be an Indian Citizen.
3. The Applicant may be a final year student 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 from the State of Goa.
4. The project should relate to hardware or software-based product innovation.
5. 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.
6. The proposed innovative idea/ project in the form of a product/solution must be associated either with Academics, Industry or the Government.
7. 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.
8. The applicant must be working on a hardware or software-based Product Innovation.
9. The applicant must be registered under the Virtual Innovation Register (VIR) as a New Idea.

An applicant under this Scheme shall be eligible for a grant of up to Rs. 20,000/- per project.

THE GRANTS SHALL BE PERMITTED TO BE USED ONLY FOR THE FOLLOWING PURPOSES:

- 1. Prototyping Material:** The grant shall be utilized for purchasing tools and materials required for building the prototype.
- 2. Academic Projects:** An individual applying through Educational Institutions will be permitted to use the prototype grant only for academic projects.

PATTERN OF ASSISTANCE OF THE SCHEME:

1. Project quotes are required to be submitted to GSInC before the release of the grant.
2. The grant shall be disbursed as a single installment to the concerned applicant/grantee whose prototyping grant is approved by the duly constituted Advisory Committee of GSInC.
3. Copies of bills/invoices generated for purchasing materials and tools for building the prototype must be maintained and submitted to GSInC.
4. The entire amount of the grant approved within the same financial year, should be utilized before the month of March of the subsequent year and should be used only for the purpose for which it is sanctioned.

PROCEDURE FOR APPLYING UNDER THE SCHEME:

1. 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.
2. It is mandatory for the applicant to apply under the afore-mentioned portal to claim benefits under the Virtual Innovation Register.

SELECTION COMMITTEE:

1. The Selection Committee of the Goa State Innovation Council shall hold periodic meetings to approve projects for providing Grant In Aid for prototyping of innovative projects.
2. The Selection Committee for sanctioning the grant shall consist of a Chairman and two Members who will be appointed by the Chairman of the Goa State Innovation Council. This Committee shall meet as often as required and recommend grants for prototyping to the Council.
3. The intimation of decision shall be made to the applicants via email within 7 number of working days from the date of such meeting.
4. All decisions regarding selection shall be final and binding.

TENURE OF THE SCHEME:

The scheme shall be valid for a period of 3 years w.e.f. 1st November, 2020.

5.4 SCHEME TO ENCOURAGE INNOVATIVE STUDENT PROJECTS



Government of Goa
Department of Science and Technology and Waste Management
 1st Floor, Pandit Deendayal Upadhyay 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. Eligibility 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 31st March 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 PROJECTS.

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 <u>Annexure</u>	
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 <u>Proforma II</u>	
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 STUDENTS 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

5.5 SCHEME FOR GOA RAJYA VIDNYANIK PURASKAR (GRVP)

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). GRVP is an award developed to identify and recognize Innovators/Scientist who have implemented their Ideas to Innovations that are changing the life of the world. The GRVP is 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. Students from all science disciplines can participate for GRVP.

The Scheme will be implemented through the Goa State Innovation Council.

OBJECTIVES:

1. Drive the innovation agenda in the state and harness the core competencies, local talent, resources and capabilities to create new Innovations.
2. Encourage Scientists, Innovators, young talent in universities, educational Institutes, Medium and Small Scale Industries (MSME) and R&D institutes.
3. Identify and reward talent in innovation and disseminate success stories.

ELIGIBILITY:

1. Permanent resident of the State of Goa for at least 15 years.
2. Participants may be Individual or collaborating Individuals.

APPLICATION PROCESS:

1. Online Registration
2. Shortlisting of applications by Technical Advisory Committee (TAC)
3. Final Round Presentation in front of Expert Committee
4. Results

TECHNICAL ADVISORY COMMITTEE (TAC)

The Technical Advisory Committee (TAC) for the GRVP shall consist of a Chairman and 1 expert each from the disciplines of Science, Technology & Innovations who will 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.

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

EXPERT COMMITTEE

The Expert Committee shall consist of a Chairman and two members to 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.

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.

ELIGIBILITY CRITERIA

1. Students, Startups, Innovators, Research Faculty & Scientist [collectively, “applicant” (s)] may apply under this scheme.
2. Applicant must be a resident from the state of Goa.
3. The project should relate to hardware or software-based product innovation.
4. 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.
5. 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.
6. Applicant must be registered under the Virtual Innovation Register (VIR) as a New Idea.

The intimation of decision shall be made to the applicants via email within 7 to 14 number of working days from the date of such meeting.

All decisions regarding selection shall be final and binding.

Each awards shall be in the form of cash prize, the amount of which shall be decided depending on the provision in the Annual budget of the Department of Science, Technology & Waste Management. The cash prize shall be deposited in the beneficiaries bank account.

APPLICATION DETAILS

Technological Inventiveness:

- What are the technological inventions are 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

Documents supporting the applications

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

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.

PRIZE AWARDS:

1. Three Awards each in the categories of Innovation, Environment and Societal Impact

5.6 STATUS REPORT

In the Financial Year 2023-24, the Virtual Innovation Register has successfully registered path-breaking start-up ideas across sectors and industries. 127 startups and 1018 new ideas were registered on the VIR in this financial year.

Ideas



1018

Startups



127

LEGAL SAFEGUARD

To be prefixed before IP Rules.

IDEA PROTECTION

Ensured by making VIR the gateway of innovative ideas.

IDEA BAZAR

Improve business plan, technical feasibility and attract angel investors.

IMPROVE TRANSPARENCY & STOP IDEA THEFT

Facilitate innovation environment.

NEW IDEAS

BENEFITS OF REGISTERING YOUR IDEA

Intellectual Property Rights support
Support for the commercialisation
Pitching to prospective buyers

[Get Started](#)

STARTUPS

BENEFITS OF REGISTERING YOUR STARTUP

Access to resources (Incubation, Co-Founders, etc..)
Collaboration with mentors and experts
Support for raising Funds

[Get Started](#)

5.7 BENEFICIARIES OF VIRTUAL INNOVATION REGISTER

Table No. 5.1: List of Beneficiaries of Provisional Patent Scheme

Sr. No.	Title	Name
1	Smart Saline	Students
2	Design and Development of Drone for Coconut Harvesting.	Students
3	Development of Natural fiber composite material	Students
4	Composite material design for Construction brick and block	Students
5	Portable Cataract Detection and Grading System	Students
6	Design of Biomass for Construction	Students

Table No. 5.2: Beneficiaries of Scheme to Encourage Innovative Student Projects Scheme

Sr. No.	Unique ID	Title
1	GSInC-I-000315	Green Composite for Ballistic Application
2	GSInC-I-000303	Tumor detection with deep learning
3	GSInC-I-000300	Student Attendance System
4	GSInC-I-000324	Cycloidal Drive for CNC Machines
5	GSInC-I-000321	Translation Specula
6	GSInC-I-000337	Design and Implementation of Fault Detection in Transmission Lines Using IOT
7	GSInC-I- 000340	Optimizing performance of BCI (Brain-Computer Interface) for gaming using hybrid machine learning techniques.
8	GSInC-I-000342	Voice controlled wheelchair for blind with hearing assistance.
9	GSInC-I-000343	ActiveStride - Foot Prosthetic
10	GSInC-I-000317	Modelling and Simulation of Brain-Computer Interface for Lie Detection using Deep Learning Paradigms and Fuzzy Logic

5.8 TOOL KIT ON INTELLECTUAL PROPERTY RIGHTS BY GSInC

What do innovators need?

They need courage to pursue an idea no matter what others think. And motivation that can help them pushing their horizons. This can happen when there is conducive environment, which nurtures talent and facilitates growth.

The Goa State Innovation Council has played an instrumental role in infusing a scientific temperament to help Goa become the next Startup Hub. GSInC reached out to schools and college to promote grassroot level innovations. It has established a state-of-the-art Rapid Prototyping lab equipped with the cutting-edge tools and technology. The Council has mentored around 74 project till March 2023.

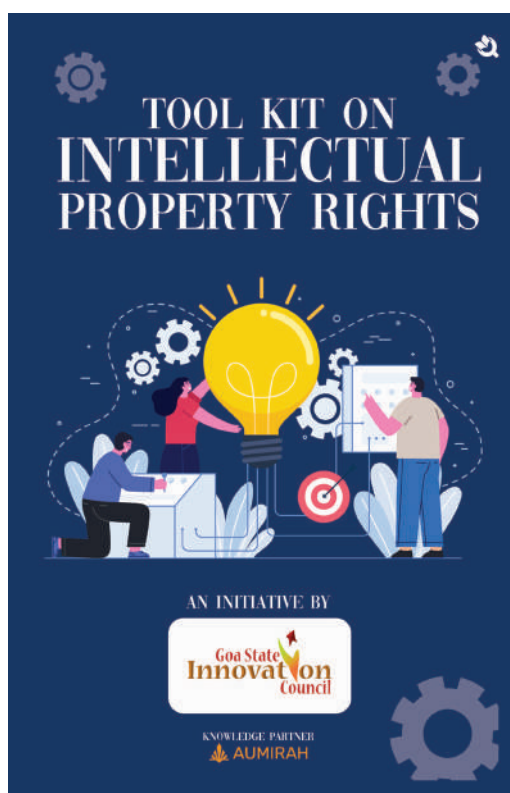
Out of these, 49 are in the prototyping stage and provisional patents for 9 projects have been filed.

So far, GSInC has interacted with 32,628 individuals. And in this process, we found out a need-gap. Whenever we touchbased with aspiring innovators, we identified that they were lacking in the IPR knowledge.

Hence, with the help of Aumirah IP, we have created this IPR toolkit to create awareness and boost the IP filing in the state. So to develop the spirit of innovation further, we invite Students, Startups, Innovators, Research Faculty & Entrepreneurs to innovate, conceptualize, and scientifically shape their ideas using this IPR toolkit.

Photograph 5:

Tool Kit on Intellectual Property Rights by GSInC



Photograph:
Tool Kit on Intellectual Property Rights by GSInC

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Our Story



GOA STATE INNOVATION COUNCIL
www.goastateinnovationcouncil.com

Jose Manuel Noronha
Chairman



The Goa State Innovation Council (GSInC) was reconstituted on 18th October 2016 with a mandate to map opportunities for innovation in the State of Goa. The Council has also launched the Virtual Innovation Register (VIR), where young and aspiring innovators can register an idea and pursue it by filing a patent application.

I am proud to share that the VIR has recently been featured in an Innovative E-Coffee Table book released by the Hon'ble Prime Minister of India, Shri. Narendra Modi.

To strengthen the IPR ecosystem in the State of Goa, GSInC has released this IPR toolkit to yield innovative ideas at the grassroot level.

I am confident that the toolkit will support inventors in building and facilitating a thriving Startup and Innovative culture in the State of Goa.


(Jose Manuel Noronha)
Chairman
Goa State Innovation Council

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Government of Goa
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Secretariat
Don Bosco College of Engineering
Fatorda - Margao



***RAPID
PROTOTYPING
LAB***

CHAPTER 06

Rapid Prototyping Lab

"In the prototyping lab, ideas become tangible realities, and innovation finds its heartbeat.."

SARAH CHANG

6.1 INTRODUCTION

The Goa State Innovation Council Prototyping Lab is a facility that offers tools and assistance to people and organisations interested in creating innovative products and solutions. The lab assists individuals in moving their ideas from the conceptual stage to an actual prototype that can be tested and modified. The prototyping lab is outfitted with various prototype tools and equipment, including 3D printers, laser cutters, CNC machines, and hand tools. Furthermore, the lab includes a team of specialists who can assist and support throughout the prototype process, including design, material, and manufacturing expertise.

The Goa State Innovation Council Prototyping Lab aims to promote innovation and entrepreneurship in Goa by providing a platform for individuals to put their ideas into reality. Anyone with a concept for a new product or service can swiftly create a practical prototype. The lab's goal is to assist individuals in converting their ideas into successful products that benefit the community and the economy by offering tools and support. The facility's extensive collection of tools and equipment, training and skill-building sessions, and professional staff to support and guide safe and effective use, design thinking, and fabrication strategies benefit learners of all levels and abilities.

The Council invites students, startups, innovators, research faculty, and entrepreneurs to leverage the fully-equipped prototyping lab to invent, conceptualise, and scientifically mould their ideas to foster the spirit of innovation.

The benefits of leveraging the Prototyping Lab are multifaceted:



Building the Product/Design Proofs: By enabling the creation of tangible prototypes, the lab facilitates the validation of product designs and concepts, paving the way for informed decision-making.



Saving Cost and Time: The lab's resources and expertise streamline the prototyping process, minimizing costs and reducing time-to-market for innovative products and solutions.



Customising: Innovators have the freedom to customize prototypes according to their unique specifications, ensuring that the final product meets their exact requirements.



Reducing Design Flaws: Through iterative prototyping and testing, the lab helps identify and address design flaws early in the development process, resulting in more robust and refined products.

The Goa State Innovation Council extends a warm invitation to students, startups, innovators, research faculty, and entrepreneurs to take advantage of the fully-equipped Prototyping Lab. It is a place where ideas take shape, innovations flourish, and the spirit of innovation thrives.

Photograph 6.1:

Rapid Prototyping Lab awarded with the SKOCH Order of Merit Award 2023



Photograph 6.2:
Brochure of Rapid Prototyping Lab



Goa State Innovation Council



CRAFT ALL PIECES

With Our Prototyping Grant

APPLICATION PROCESS



REGISTRATION PROCESS



REGISTER AT
goastateinnovationcouncil.com/virtual-innovation-register
 For more details - Email: admin@gisc.in | Phone: +91 832-2744000

Equipped with the latest technology and tools, like an advanced 3D Printer and a powerful Laser Cutting Machine, the lab allows innovators to freely tinker around with ideas until they can refine them to the point of idealisation.



To develop the spirit of innovation further, Goa State Innovation Council invites Students, Startups, Innovators, Research Faculty & Entrepreneurs to innovate, conceptualise and scientifically shape their ideas.

MISSION

Our mission is to support prototyping and make it affordable for Students, Startups, Innovators, Research Faculty & Entrepreneurs who require the necessary support in converting Ideas into scalable products.

We provide access to various prototyping equipment from the Prototyping Lab to individuals with a purpose to convert the Ideas into designs, and their designs into products.



THE BENEFITS OF PROTOTYPING

BENEFIT 01

BUILDING THE PRODUCT/DESIGN PROPOS



BENEFIT 02

SAVING COST AND TIME



BENEFIT 03

FACILITATING CUSTOMIZATION



BENEFIT 04

DRASTIC REDUCTION IN DESIGN FLAWS



No Backups for 21 Days
 Connect to a power outlet while your backup disk is available.



82

6.2 LIST OF EQUIPMENT

Sr. No.	List Of Equipments	Description	Make / Brand
POWER TOOLS			
01	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 (millimeter) 263 mm Height (millimeter) 95 mm Weight (kilograms) 77 mm Weight 1.5 kg	BOSCH
02	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
03	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			
04	JUNIOR HACKSAW	Size: 6 inch	STANLEY
05	SCREW DRIVER SET	4pc Screw Driver set: PH1x450, PH2x450mm, 5x450mm, 6x450mm, chrome vanadium steel shaft, chrome plated Ergonomically designed ABS plastic grip handle	STANLEY
06	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
07	PLIER SET	Combination Plier, Needle Nose Plier and Lockin Plier.	STANLEY
08	HAMMER SET	Mallet Hammer, 1 Claw Hammer and 1 Ball peen Hammer	STANLEY

Sr. No.	List Of Equipments	Description	Make / Brand
09	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	COMBINATION SPANNER	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 RACHETING 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 ADJUSTABLE 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 opening Heat treated adjustable chrome finish spanner Package Contents: 1 Piece Adjustable Spanner	STANLEY
16	HOT MELT GLUE GUN	power input - 220-240V AC, 50Hz	STANLEY
17	MEASURING TAPE 5METERS	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

Sr. No.	List Of Equipments	Description	Make / Brand
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	4 Inch Socket Combination 46Pcs 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, lightings etc. without any hassles.	STANLEY
3D Printers			
21	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 Celsius 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 Celsius	Flashforge

Sr. No.	List Of Equipments	Description	Make / Brand
22	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
23	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/Repetier-Host/ Simplify3D Bed Temp - <100°C Nozzle Temp - <260°C Speed - <180mm/s,Normal E30-60mm/s	Creality
24	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/Repetier-Host/ Simplify3D Bed Temp - <100°C Nozzle Temp - <260°C Printing Speed - 120-150mm/s	Creality
25	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
26	CREALITY ENDER 3 PRO		Creality

Sr. No.	List Of Equipments	Description	Make / Brand
27	CREALITY ENDER 3 V2	Products Type - Blister Materials Applicable - HIPS Automation Grade - Semi-Automatic Max Forming Depth - 120-150 mm Max Forming Area - 220 by 220 mm	Creality
28	CREALITY ENDER 3 V2		Creality
	CREALITY ENDER 3 V2		Creality
29	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
30	9060-80W LASER	Laser Type: Hermetic and Detached Co2 Laser Tube Laser Power: 80W Voltage: AC 220V 50Hz Moving System 5 Inch Offline Display, Offline Step- ping 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			
31	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
32	SOLDERING STATION	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	

01

ENETRACARE – ONE STOP EYE CARE SOLUTION

Name: Abhay Bhamaiakar



Name of Mentor: Atal Incubation Centre, Babasaheb Ambedkar Marathwada University, Aurangabad

Name of School/College/Start-up/Organisation: Innovease India Private Limited

Address: P-27, Moti Doongari Yojana, Govindmarg, Jaipur, Rajasthan. 302004

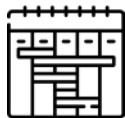
Ph. No.: 9923795140



Project Objective:

To develop a low-cost, portable, easy-to-use, 24X7 battery-operated vision and cataract screening device.

Project Abstract:



According to the National Programme for Control of Blindness survey, there is a backlog of over 22 million blind eyes in India, with approximately 80% attributed to cataracts. Despite being easily treatable, cataracts remain the leading cause of blindness and visual impairment in India, with an annual incidence of around 10 million cases. The lack of ophthalmologists and ophthalmic technicians in rural India exacerbates the issue, leaving many without access to proper eye care. In response, the promoter has proposed the development of a low-cost, AI-based mobile app cum screening device called "eNetraCare" to detect cataracts among patients aged 50 years and above, along with providing online eye care services.



Project Outcome / Result / Findings:

The project resulted in the development of a low-cost, portable, easy-to-use, 24X7 battery-operated vision and cataract screening device, along with an AI-based mobile app.



Innovative Approach:

The device is portable and battery-operated, ensuring accessibility and ease of use in various settings.

Photograph 6.3: ENETRACARE



02

OPTIMIZING PERFORMANCE OF BRAIN-COMPUTER INTERFACES THROUGH MACHINE LEARNING FOR VIDEO GAME PLAYING



Name(s) of Applicant(s): Mr. Aryan Kotru, Mr. Jeremy Gilbert & Mr. Daron Pereira

Names(s) of Mentor: Dr. Gaurang S. Patkar & Dr. Shreyas Simu

Name of School/College / Start-up / Organisation: DBCE, Fatorda-Goa

Address: H 833/8, Mandopa, Navelim, Salcette, Goa

Contact: 770925220



Project Objective:

The project aims to enhance the efficiency and performance of Brain-Computer Interfaces (BCI) used in gaming through the application of hybrid machine learning techniques, ensuring cost-efficiency, responsiveness, ease of maintenance, and non-invasiveness.



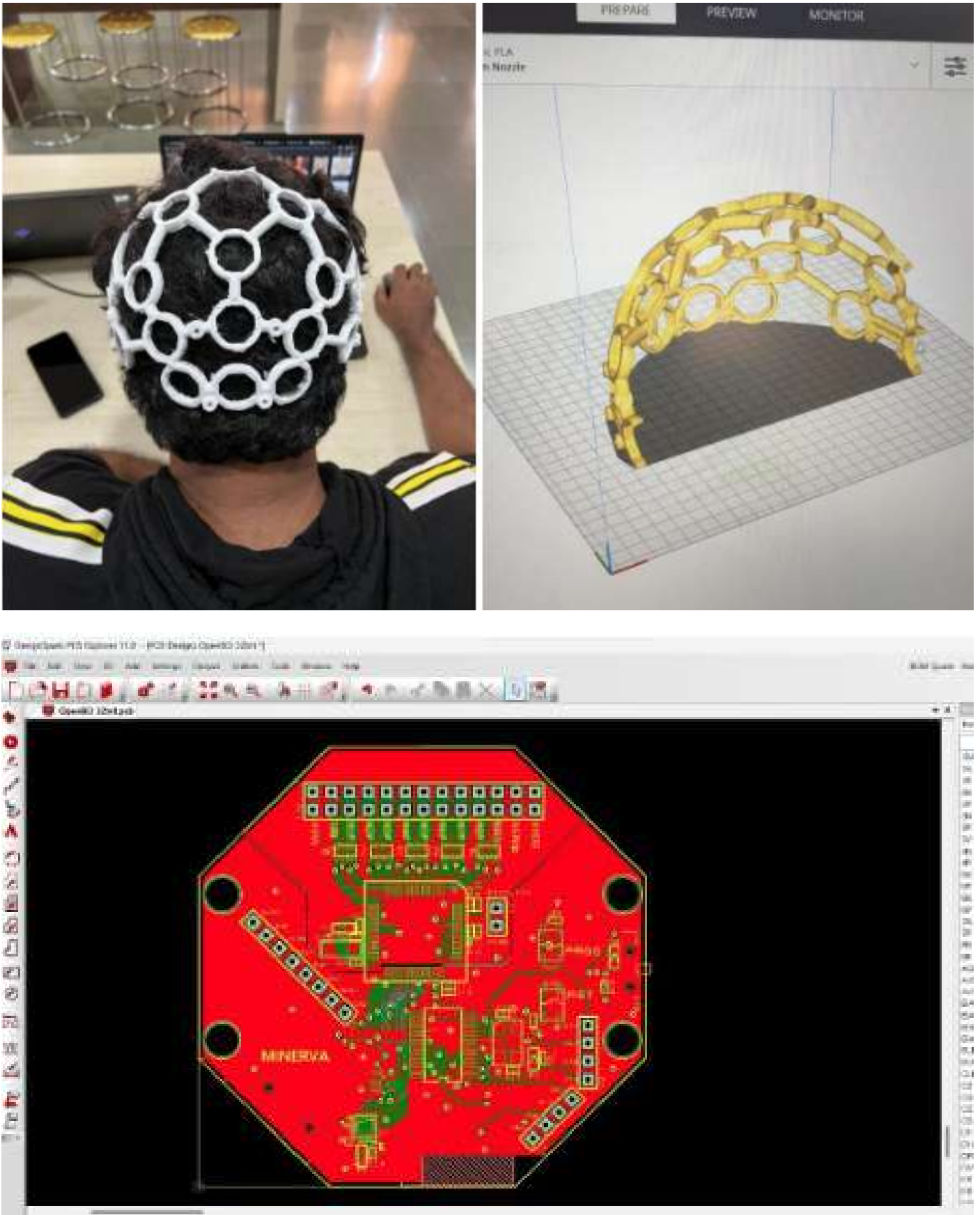
Project Abstract:

This project presents a pioneering approach to non-invasive brain-computer interaction by leveraging signals acquired from end users. The project encompasses both Machine Learning and Game Development components. The Brain-Computer Interface will acquire P300 signals and mu rhythms, which will then be digitized and denoised using hardware. These processed signals will serve as raw input for a machine learning model, where further denoising and amplification will occur, followed by feature extraction to generate a feature vector.

The feature vector will be inputted into a Siamese Network, enabling the model to determine the closest match to the input signal within the dataset. This approach facilitates more accurate signal classification even with limited training data, as the model calculates signal similarity to reference points, expediting signal processing and learning without extensive datasets.

Furthermore, the project aims to develop a video game seamlessly integrated with and masking the limitations of BCI technologies. This narrative-based game, developed using Unity/Unreal Engine, will feature a combination of handmade and generic assets to optimize development efficiency while ensuring quality. All game mechanics will be coded by the team. This innovative approach revolutionizes human-computer interaction, offering an intuitive and efficient control method. By utilizing P300 signals and mu rhythms alongside machine learning for signal processing, feature extraction, and classification, the system maximizes efficiency, functionality, and delivers a seamless and immersive user experience.

Photograph 6.4:
OPTIMIZING PERFORMANCE OF BRAIN-COMPUTER INTERFACES THROUGH MACHINE LEARNING FOR VIDEO GAME PLAYING



03

DEVELOPMENT & CHARACTERISATION OF BAMBOO REINFORCED COMPOSITES



Name(s) of Applicant(s): Savio Medeira

Names(s) of Mentor: Prof. Gaurish Samant

Name of School/College / Start-up / Organisation: Don Bosco College of Engineering

Address: Don Bosco College of Engineering Fatroda

Contact: 9284647993



Project Objective:

Waste generated from 3D printers is crushed and used again



Project Abstract:

The project aims to develop a fully natural-based composite as a sustainable alternative to synthetic composites.



Project Outcome/Result/Finding:

The project is currently in the testing phase for tensile strength, impact resistance, and water absorption properties of the natural composite.



Innovative Approach:

The innovative approach involves the creation of a fully natural-based composite, providing a sustainable substitute for synthetic composites.

Photograph 6.5:
DEVELOPMENT & CHARACTERISATION OF BAMBOO REINFORCED COMPOSITES



04

SMART WINDOW



Name(s) of Applicant(s): Reeve Fernandes & Swapnil Fal Desai

Names(s) of Mentor: Samarth Savalkar & Valain De' Souza

Name of School/College / Start-up / Organisation: Don Bosco College of Engineering

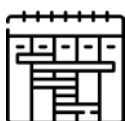
Address: Don Bosco College of Engineering Fatroda

Contact: 7262965744



Project Objective:

To simplify daily life tasks



Project Abstract:

In our fast-paced lives, we often overlook simple tasks like opening and closing windows for ventilation. The Smart Window project aims to streamline this process, making life more convenient. It features an automatic window system equipped with rain sensors, ensuring that the window closes automatically during rainfall. Additionally, the window includes a timer function that can be customized to meet individual preferences. For example, users can set the window to open at 6 AM and close at 6 PM, aligning with their daily schedules.



Innovative Approach:

The Smart Window project introduces automation to a basic household feature, offering convenience and efficiency to users. By integrating rain sensors, the window autonomously responds to weather conditions, enhancing safety and protection against rainwater entering indoor spaces. Moreover, the inclusion of a customizable timer feature enables users to set specific opening and closing times, optimizing ventilation and energy usage according to their daily routines. This innovative approach combines technology with everyday functionality, enhancing the user experience and simplifying daily life tasks.

Photograph 6.6:
SMART WINDOW



05 JET ENGINE



Project Objective:

The objective of this project is to develop a prototype model of a jet engine utilizing 3D printing technology.



Project Abstract:

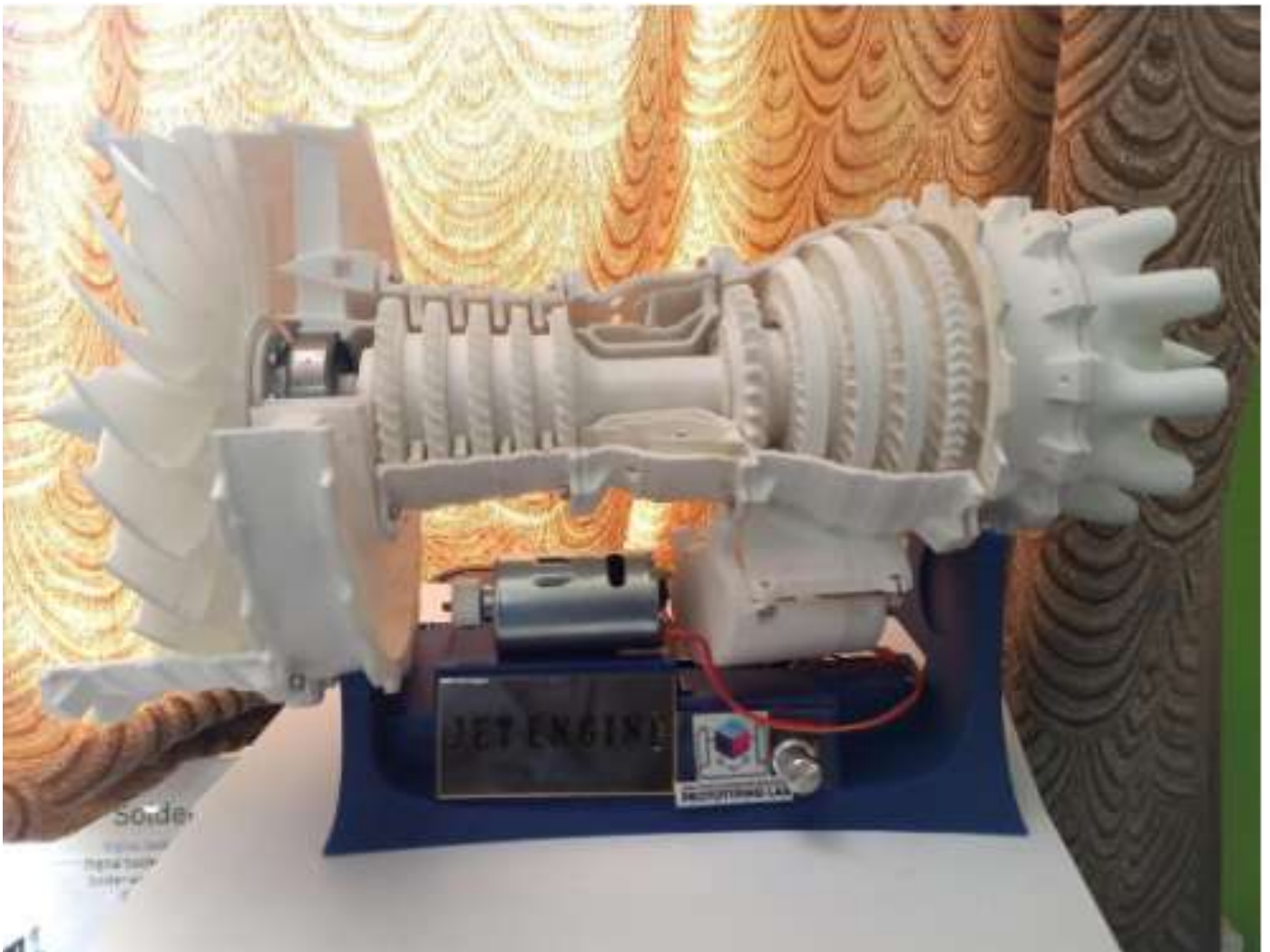
The Jet Engine project seeks to revolutionize the understanding of jet propulsion systems through the development of a functional prototype model. Leveraging the capabilities of 3D printing technology, all components of the jet engine will be meticulously crafted to exact specifications, allowing for a comprehensive visualization of its internal mechanisms and operations. By incorporating a motor, the prototype aims to simulate the dynamic functionality of a jet engine, providing a hands-on learning experience that enhances comprehension and appreciation of aerospace engineering principles.



Innovation Approach:

The project adopts an innovative approach by employing cutting-edge 3D printing technology to fabricate all components of the jet engine. This approach not only ensures precision and accuracy in component manufacturing but also enables rapid prototyping and customization. Additionally, the integration of a motor facilitates the dynamic simulation of the jet engine's operations, enhancing its educational value and practical utility. By combining advanced manufacturing techniques with functional demonstration capabilities, the project aims to redefine traditional learning methodologies and inspire curiosity and innovation in the field of aerospace engineering.

Photograph 6.7:
JET ENGINE



06

ACRYLIC ROBOTIC ARM



Name of innovator/s: Shivraj Naik

Contact Number: +917058400330



Project Objective:

The objective of the Acrylic Robotic Arm project is to design and construct a functional robotic arm using acrylic sheet cut-outs, servo motors, and Arduino microcontroller technology.



Project Abstract:

The Acrylic Robotic Arm project endeavors to create a versatile and customizable robotic arm utilizing innovative materials and technology. The primary components of the robotic arm include acrylic sheet cut-outs, four servo motors, an Arduino Nano microcontroller, an Arduino Expansion Shield, and a rechargeable battery. Utilizing a laser cutting machine, precise cut-outs of acrylic sheets are created to form the structural components of the robotic arm, ensuring lightweight yet durable construction. The servo motors are strategically integrated into the arm assembly to facilitate precise and controlled movement of each joint.

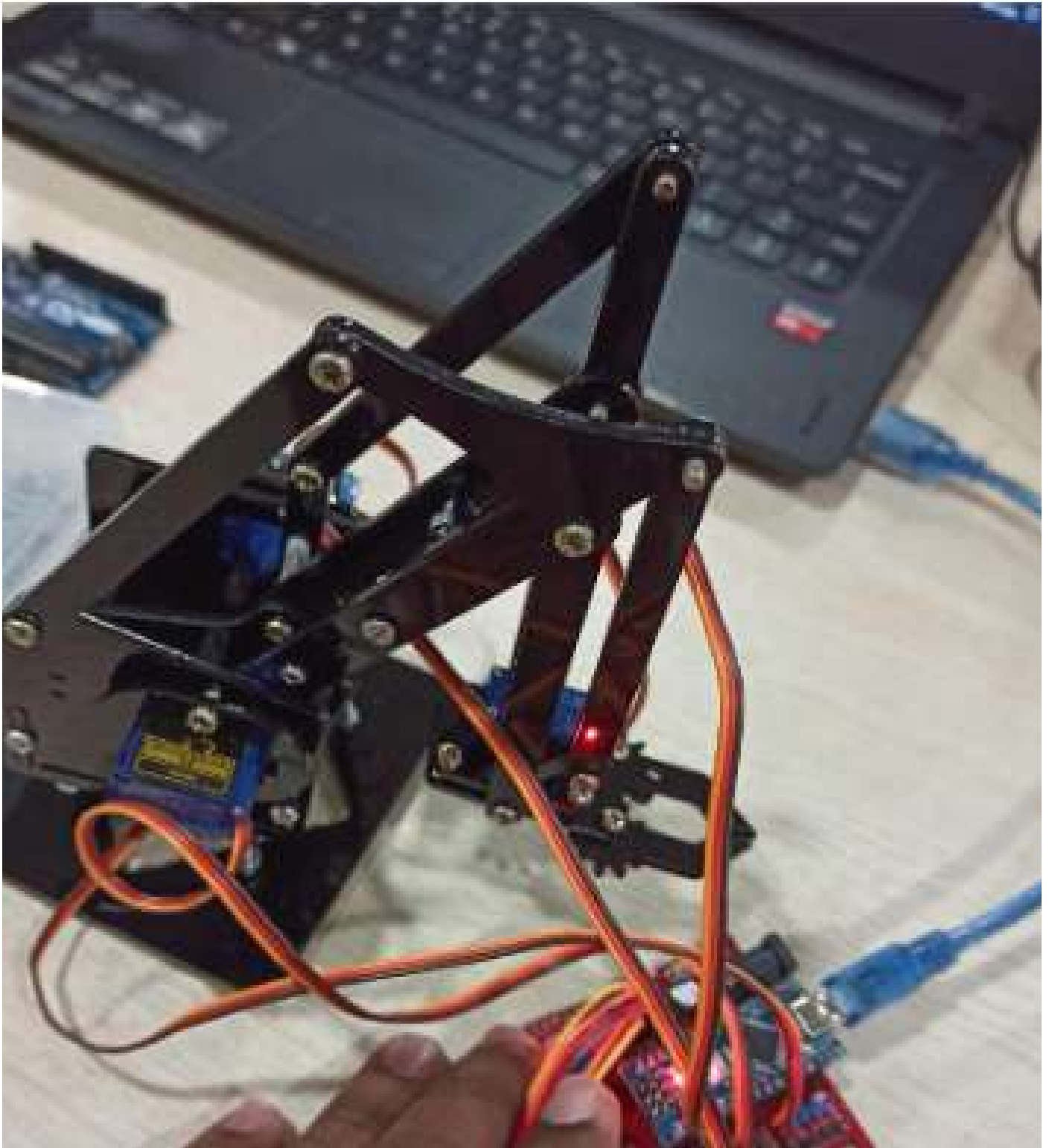
Furthermore, the Arduino Nano microcontroller, coupled with the Arduino Expansion Shield, serves as the central control unit, enabling programmable functionality and seamless integration with external input devices. To provide user-friendly control and manipulation of the robotic arm, joysticks are incorporated into the design, allowing users to intuitively command the arm's movements, including grabbing and transporting objects from one location to another.



Innovation Approach:

The project adopts an innovative approach by leveraging laser cutting technology to fabricate structural components from acrylic sheet material, offering a lightweight and aesthetically appealing design. Additionally, the integration of servo motors and Arduino microcontroller technology enables precise and programmable control of the robotic arm, enhancing its versatility and usability. The incorporation of joysticks for user interaction adds an intuitive interface, making the robotic arm accessible to users of varying skill levels. Overall, the Acrylic Robotic Arm project showcases the potential of combining advanced materials and technology to create functional and user-friendly robotic systems for diverse applications.

Photograph 6.8:
ACRYLIC ROBOTIC ARM

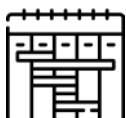


07 ROTATING TABLE



Project Objective:

The objective of the Rotating Table project is to design and develop a compact desktop-sized rotating platform capable of holding various items or models for display or video recording purposes.



Project Abstract:

The Rotating Table project aims to create a versatile and user-friendly rotating platform utilizing a combination of 3D printing and laser cutting technologies. The primary components of the rotating table are fabricated using these advanced manufacturing techniques, allowing for precise and customizable design elements. The structural components, including the rotating platform and supporting base, are produced through 3D printing, providing flexibility in design and ensuring lightweight construction. Additionally, critical components such as the motor, power adapter, and control circuitry are integrated into the assembly to facilitate seamless operation. The rotating table is designed to offer adjustable speed control, allowing users to customize the rotation rate according to their specific requirements. This feature is achieved through the incorporation of a voltage regulator, which enables precise control over the rotational speed of the platform. The rotating table provides a convenient solution for capturing dynamic video content, making it ideal for social media content creation or product showcasing purposes. By placing objects or models on the rotating platform, users can effortlessly capture captivating rotary videos, enhancing their online presence and promotional efforts.



Project Outcome/Result/Finding:

The Rotating Table project enables users to showcase products or models effectively on social media platforms by capturing engaging rotary videos. The versatility and functionality of the rotating platform make it suitable for a wide range of applications, including product demonstrations, educational presentations, and artistic displays.



Innovative Approach:

The Rotating Table project showcases innovative product development using resources from the Rapid Prototyping Lab. With 3D printing and laser cutting, the team achieves precise designs, resulting in a compact rotating platform. Adjustable speed control enhances versatility for users, offering a convenient solution for content creation and showcasing.

Photograph 6.9:
ROTATING TABLE



08

RC TRACTOR

**Project Objective:**

The objective of the RC Tractor project is to design and develop a miniature model of a remote-controlled tractor using 3D printing technology.

**Project Abstract:**

The RC Tractor project involves the creation of a scaled-down replica of a tractor using 3D design and printing techniques. The tractor model is constructed using white-colored PetG filament, providing durability and a sleek appearance. Electronic components, including motors, controllers, and a rechargeable battery, are integrated into the design to enable remote-controlled operation. The project team utilizes a remote controller to drive the tractor, allowing users to maneuver the vehicle with ease. The tractor's design incorporates 3D-printed parts, such as the chassis, body, and wheels, along with additional components such as switches, nuts, bolts, and tires. These elements are carefully assembled to ensure proper functionality and structural integrity.

Project Outcome/Result/Findings:

The RC Tractor project has been successfully completed and tested, demonstrating reliable performance and functionality. The miniature tractor model is capable of remote-controlled operation, offering users an immersive and engaging experience. The project highlights the feasibility of utilizing 3D printing technology to create intricate and functional prototypes for various applications.

Innovative Approach:

The RC Tractor project exemplifies an innovative approach to prototyping by leveraging the capabilities of the Rapid Prototyping Lab. By utilizing 3D printing technology, the project team achieves precise and detailed design outcomes, resulting in a realistic and functional miniature tractor model. The integration of electronic components further enhances the project's innovative nature, providing users with a hands-on experience of remote-controlled vehicle operation. Developed within the Rapid Prototyping Lab, the RC Tractor project showcases the potential of additive manufacturing techniques in prototyping and product development.

Photograph 6.10:
RC TRACTOR



09 RIVER-BOT



Name: Chhavi Pai Raiturkar

Contact Number: +919764965081



Project Objective:

The objective of the River-Bot project is to develop an automated river cleaning boat designed to remove plastic waste from rivers and other water bodies.



Project Abstract:

The River-Bot project aims to address the pressing issue of plastic pollution in water bodies by creating a specialized cleaning boat capable of autonomously removing plastic waste. The innovative River-Bot will contribute to the preservation of marine ecosystems and safeguarding human health by effectively eliminating plastic debris from rivers and waterways.

The River-Bot is designed to operate autonomously, navigating water bodies and collecting plastic waste along its path. The project emphasizes the importance of reducing carbon footprint and environmental impact by implementing eco-friendly features. To enhance sustainability, the River-Bot can be equipped with solar energy systems, allowing it to operate efficiently while minimizing reliance on traditional power sources.



Project Outcome/Result/Findings:

The River-Bot project aims to achieve significant environmental benefits by effectively addressing plastic pollution in water bodies. By autonomously collecting plastic waste, the River-Bot contributes to the preservation of aquatic ecosystems and promotes cleaner and healthier waterways. The project highlights the potential of innovative technology to mitigate environmental challenges and foster sustainable solutions.



Innovative Approach:

The River-Bot project represents an innovative approach to river cleaning and environmental conservation by harnessing automation and eco-friendly design principles. By developing a specialized cleaning boat equipped with autonomous navigation capabilities, the project pioneers a novel solution to combat plastic pollution in water bodies. Additionally, the integration of solar energy technology further enhances the project's sustainability and reduces its environmental footprint. The River-Bot project exemplifies the innovative spirit of leveraging technology to address pressing environmental concerns and promote a cleaner, healthier planet.

Photograph 6.11:
RIVER BOT



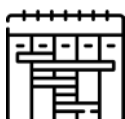
10

AR 500 RC TANK



Project Objective:

The objective of the AR 500 RC Tank project is to develop a remote-controlled tank equipped with augmented reality (AR) technology for surveillance purposes in inaccessible areas such as underground tunnels.



Project Abstract:

The AR 500 RC Tank project utilizes remote-controlled technology and augmented reality to enhance surveillance in challenging environments. Constructed with 3D printing technology using durable materials, it ensures reliable performance in rugged terrain. With a focus on versatility, it provides a solution for surveillance in inaccessible locations. Integrating advanced features like augmented reality enhances situational awareness, allowing real-time remote navigation and monitoring.



Project Outcome/Result/Findings:

The AR 500 RC Tank project aims to deliver a robust and reliable surveillance platform capable of operating in challenging environments such as underground tunnels. By leveraging 3D printing technology and augmented reality features, the project seeks to enhance surveillance capabilities and provide valuable insights into inaccessible areas. The project's innovative approach to remote-controlled surveillance demonstrates its potential to address critical security and monitoring needs in various operational scenarios.



Innovative Approach:

The AR 500 RC Tank project adopts an innovative approach to surveillance and reconnaissance by integrating remote-controlled technology with augmented reality features. By constructing the tank's body using 3D printing technology, the project ensures durability and resilience to withstand shocks and harsh conditions in underground environments. The incorporation of augmented reality capabilities enhances situational awareness and enables users to visualize and interpret data in real time, facilitating informed decision-making during surveillance operations. Overall, the AR 500 RC Tank project represents a pioneering solution for conducting effective and efficient surveillance in inaccessible areas, showcasing the transformative potential of advanced technology in security and monitoring applications.

Photograph 6.12:
AR 500 RC TANK



11

CARDBOARD JCB



Name(s): Majaz Clayton Texeira, Flynn Gomes, Shivdutt Dessai, Finosha Rebelo
Contact Number: +919623268474



Project Objective:

The objective of the Cardboard JCB project is to develop a hydraulic system prototype capable of lifting loads and transmitting water.



Project Abstract:

The Cardboard JCB project is based on the concept of a hydraulic system, where a liquid fluid serves as the main component. Hydraulic systems are commonly used in various applications such as vehicle brakes and hydraulic jacks. In this project, the team has constructed a model hydraulic system using cardboard components and syringes as actuators. The operation of the hydraulic system is achieved by applying force to syringes filled with liquid fluid. A 20 ml syringe is utilized to move the boom, which controls the lifting and lowering of loads. When force is applied to the 20 ml syringe, it moves the boom mechanism, allowing it to raise and lower. Similarly, a 10 ml syringe is used to control the movement of the bucket, enabling it to perform specific tasks such as scooping or dumping materials.



Project Outcome/Result/Findings:

The Cardboard JCB project aims to demonstrate the functionality of a hydraulic system prototype constructed from cardboard and syringes. By applying force to the syringes, the project successfully moves the boom and bucket components, simulating the operation of a real JCB machine. Through this prototype, the team explores the principles of hydraulic systems and their applications in transmitting forces and controlling mechanical movements.



Innovative Approach:

The Cardboard JCB project adopts an innovative approach to demonstrate the functionality of hydraulic systems using simple and readily available materials such as cardboard and syringes. By constructing a prototype model, the project provides a hands-on learning experience for understanding the principles of hydraulic systems and their practical applications. The use of cardboard components enhances accessibility and affordability, making it an ideal educational tool for demonstrating engineering concepts related to fluid mechanics and mechanical systems. Overall, the project showcases the ingenuity and creativity of the innovators in developing a functional prototype using innovative materials and techniques.

Photograph 6.13:
CARDBOARD JCB



12

WIRELESS IoT DEVICE FOR HOSPITALITY

Name(s): Mrs. Supriya

Contact Number: +919529962104



Project Objective:

The objective of the Wireless IoT Device for Hospitality project is to enhance customer experience and services in the hospitality sector.



Project Abstract:

The Wireless IoT Device for Hospitality project aims to develop a wireless unit to facilitate better communication between customers and hospitality service providers, including restaurants, hotels, cafes, and resorts. The device leverages Internet of Things (IoT) technology to enable seamless and efficient interaction between customers and service staff, thereby enhancing the overall customer experience.

The wireless unit serves as a communication bridge, allowing customers to easily convey their preferences, requests, and feedback to the hospitality service provider. By incorporating IoT capabilities, the device enables real-time monitoring and management of customer interactions, leading to improved service delivery and customer satisfaction.

Key features of the Wireless IoT Device for Hospitality may include:

- **Wireless connectivity:** The device utilizes wireless communication protocols such as Wi-Fi or Bluetooth to establish connections with customer devices and service provider networks.
- **Customer feedback system:** Customers can use the device to provide feedback on their experience, rate services, and suggest improvements.
- **Order management:** The device facilitates the ordering process by enabling customers to place orders directly from their smartphones or tablets.
- **Service alerts:** Hospitality staff receive real-time alerts and notifications regarding customer requests, ensuring prompt response and service delivery.
- **Data analytics:** The device collects and analyzes customer data, allowing service providers to gain insights into customer preferences and behavior patterns.

Overall, the Wireless IoT Device for Hospitality project aims to revolutionize the hospitality industry by introducing innovative technology solutions to streamline customer interactions and enhance service quality. Through seamless communication and data-driven insights, the device contributes to creating memorable and personalized experiences for customers in the hospitality sector.

Photograph 6.14:
WIRELESS IoT DEVICE FOR HOSPITALITY



13

OTTO STARTER



Project Objective:

The objective of the project is to create a mini model of a remote-controlled 3D printed Otto Bot, also known as a Mini Robot.



Project Abstract:

The Otto Starter project focuses on the development of a miniature robot, named Otto Bot, that can be remotely controlled via a smartphone. Utilizing a Bluetooth module HC-05, the project enables seamless communication between the smartphone and the Otto Bot, allowing users to control its actions remotely.



Innovative Approach:

Miniaturization:

The project leverages advancements in 3D printing technology to miniaturize the design of the Otto Bot, ensuring that it remains compact and portable while retaining essential functionalities.

Bluetooth Connectivity:

By integrating a Bluetooth module HC-05 into the Otto Bot, the project enables wireless communication with a smartphone, providing users with a convenient and intuitive control interface.

User Interface Design:

The development of a user-friendly smartphone application complements the Otto Bot, offering users an intuitive interface to remotely control the robot's movements and actions.

Customization Options:

The project emphasizes customization options, allowing users to tailor the Otto Bot's behavior and functionality based on their preferences and requirements through the smartphone application.

Educational Value:

In addition to its entertainment value, the Otto Bot serves as an educational tool, offering users insights into robotics, programming, and remote control technology through hands-on experimentation and exploration.

Community Engagement:

The project fosters community engagement by sharing design files, software code, and tutorials with the broader maker community, encouraging collaboration, knowledge sharing, and innovation in the field of robotics.

Continuous Improvement:

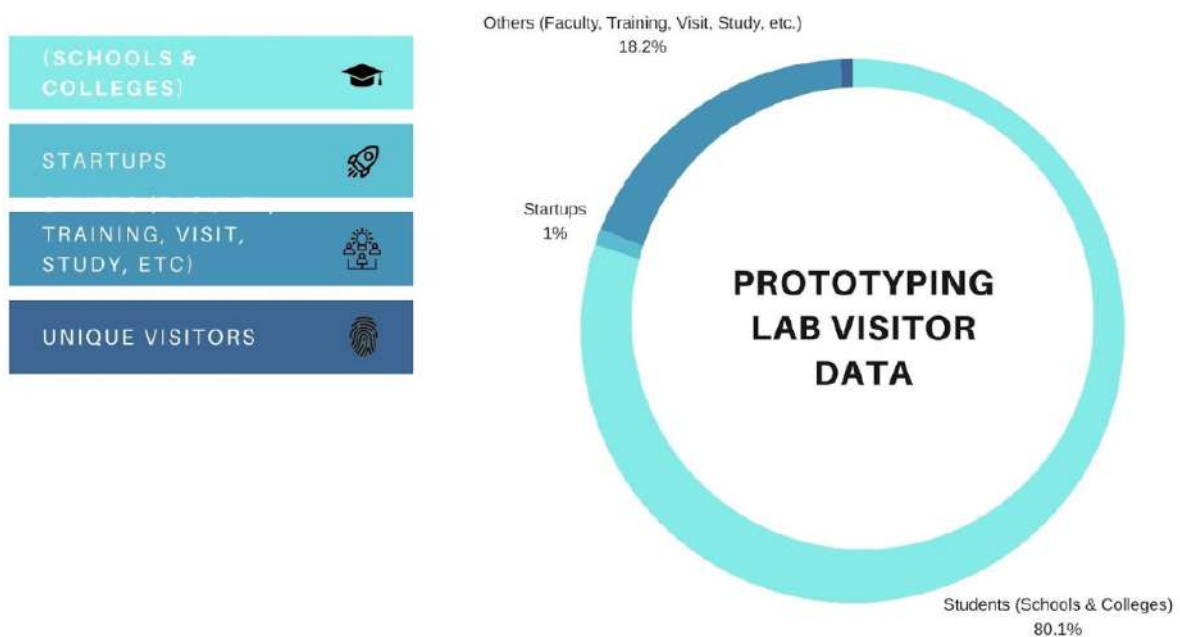
Through iterative testing and feedback cycles, the project continually refines and enhances the Otto Bot's design, functionality, and user experience, ensuring that it remains at the forefront of innovation in miniature robotics.

Overall, the Otto Starter project embodies a commitment to innovation, creativity, and accessibility, empowering users to explore the exciting world of robotics through a compact and user-friendly platform.

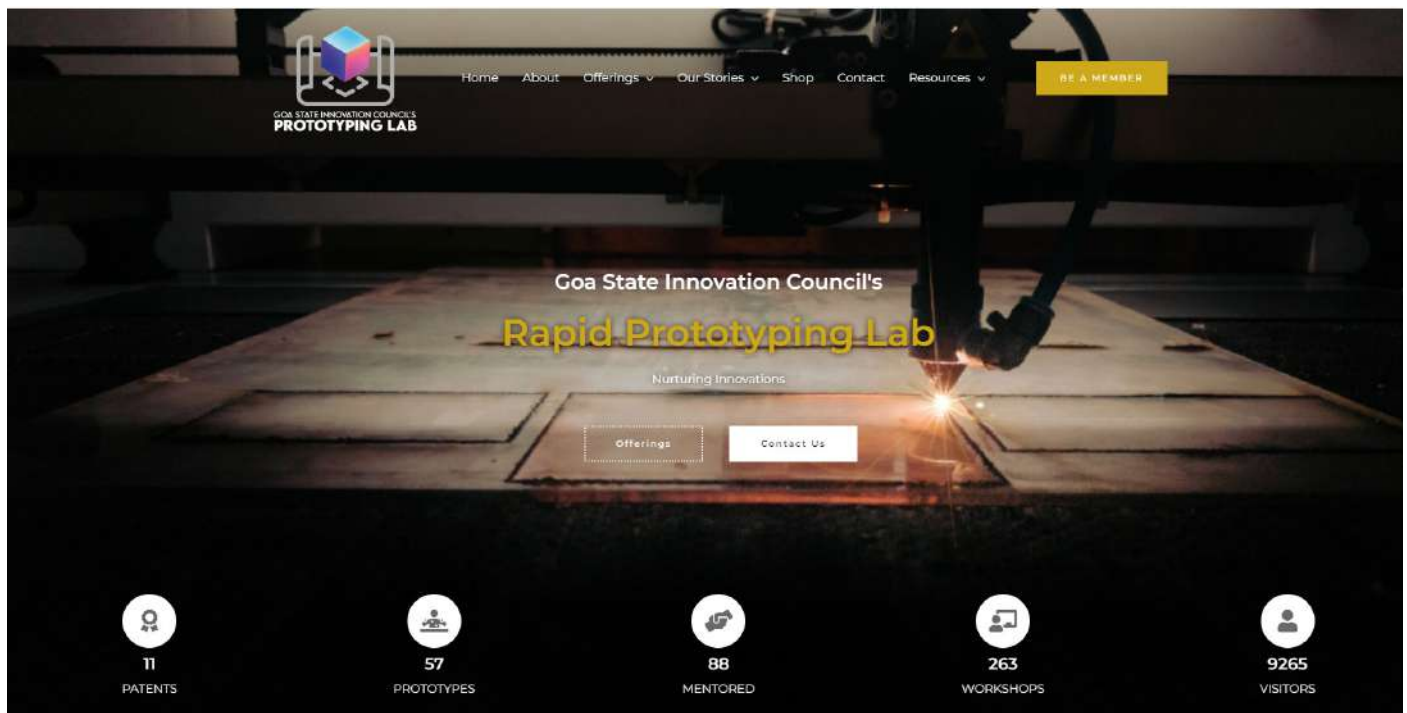
Photograph 6.15:
OTTO STARTER



Photograph 6.16:
LAB VISITORS



Photograph 6.17:
WEBSITE OF RAPID PROTOTYPING LAB



6.4 STATUS REPORT

Total Visitors

**3184**

Students

2548

Startups

30

Others

583

Unique

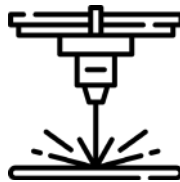
23

EQUIPMENT UTILIZED

3D Printing

**57%**

Laser Machine Cutting

**21%**

Others

**22%**

6.18 PHOTOGRAPHS OF VISITORS AT RAPID PROTOTYPING LAB

05/04/2023 | Mr. Fedrik Pariath, Mr. Prakash Kapadiya, Mr. Bhavin Parik, Mr. Dharmendra Parik and Mr. Kiraan Mehta



30/05/2023 | Mr. Amit Devgan, Mr. Prasad Adpaikar and faculty from DBCE



01/06/2023 | Dr. Clarista Quadros and Mr. Sanket R. Shirodkar from Goa Engineering College.



02/06/2023 | DBCE First Year students along with their parents visited the lab



07/06/2023 | Prof. Dr. Bharat Deshpande, BITS Pilani



13/07/2023 | JCI Goa team members at the lab





13/07/2023 | Students from Don Bosco Community College, Loutolim, Goa.



14/ 07/2023 | Faculties from Bhatikar High School, Margao



30/07/2023 | Mr. Sameer Lotlikar, Mr. Rajesh Naik & Mr. Deepak Naik from Kalpavriksha



11/08/2023 | Mr. Prasad Kulkarni, Assistant Director, MSME Goa along with Director & Principal of DBCE



11/08/2023 | First Year students of Computer Department, DBCE



11/08/2023 | First Year students of Mechanical Department, DBCE



12/08/2023 | Students along with their parents interacting with mentors at the lab



18/08/2023 | Director of Education, Shri Shailesh Zingde



18/08/2023 | Shailesh R. Sinai Zingde, Director of Education - Goa along with DBCE staff



18/08/2023 | Students from Government Polytechnic College, Curchorem



14/09/2023 | Mr. Jose Manuel Noronha, Chairman GSInC showcasing the lab to Mr. Vikas Gaunekar - Additional Secretary (Finance), Government of Goa along with Mr. Levinson Martins - Director of DST& WM, Government of Goa and other council members



20/10/2023 | Mr. Mahesh Malkarnekar, EX Chief GM, Goa Shipyard Limited along with DBCE Staff at the lab



23/10/2023 | Col. (Retd.) Jaa D'Souza, Indian Army along with Director DBCE



09/11/2023 | Dr. Sebastian Domzalski & Mr. Pavlos Olziersky, Polish Embassy along with Mr. Przemyslaw Zareba, Head - Poland Foreign Trade



10/ 11/2023 | Officers, HQ 2STC at the lab



22/11/2023 | Rev. Fr. Kinley D'Cruz, Director & Dr. Neena Panandikar, Principal, DBCE
interacting with delegates



28/11/2023 | Mr. Jose Manuel Noronha, Chairman, GSInC
interacting with Dr. Sukhaji Naik, Member, GPSC

13/12/2023 | Prof. V. Ramgopal Rao, Vice Chancellor of BITS
Pilani, and Prof. Bedangadas Mohanty, Director of NISER
Bhuvaneshwar



10/01/2024 | Faculty for GVM's College, Ponda. Prof. Teotone
Vaz Principal, Dr. Meera Mayekar Vice-Principal, Dr. Madanant
Naik MoU Co-ordinator, Mr. Akshay Naik Assistant Professor



10/01/2024 | Prof. Teotone Vaz, Principal, Dr. Meera Mayekar, Vice-Principal, Dr. Madanant Naik, MoU Co-ordinator & Mr. Akshay Naik, Assistant Professor from GVM's College, Ponda



23/01/2024 | Dr. Jayshankar Dubey and Dr. Veerendra K. Sharma at the lab



29/01/2024 | Constables Mr. Nilesh Naik and Mr. Laxman Dahifode from Fatorda Police Station



21/02/2024 | Mr. Anil Bansal, Director, Mrs. Sriparna Iyer, Vice President, Ms. Shailshree Tewari, Manager, Mr. Rishabh Garg, Analyst & Ms. Devika Chhabra, Associate from IPE Global, inREPLACE program



02/03/2024 | Mr. Joy Chowdhury, Group President, New Initiative, Herald Publication Pvt. Ltd.



02/03/2024 | Mr. Raj Kapoor, Founder Blockchain Alliance



11/03/2024 | Mr. Jean Paul Di Vita, CEO along with other dignitaries from Eurostampa



11/03/2024 | Mr. Jean Paul Di Vita, CEO along with other dignitaries from Eurostampa



13/03/2024 | Mrs. Elaine D'Souza, representing the Consulate General of Canada along with Director & Principal, DBCE



18/03/2024 | Mr. Srinivas Taluka, Vice President (Facilities and Co-working), T-Hub



18/03/2024 | Mr. Srinivas Taluka, Vice President (Facilities and Co-working), T-Hub



13/06/2023 | JCI Team Members at the lab





INTELLECTUAL PROPERTY RIGHTS

CHAPTER 07

INTELLECTUAL PROPERTY RIGHTS

“Intellectual property is the currency of the 21st century.”

MARK GETTY

7.1 INTRODUCTION

Safeguarding Intellectual Property Rights (IPR) is paramount for nurturing innovation. In a landscape where resources and manpower are often constrained, innovators face the challenge of sustaining themselves amidst fierce competition. In today's dynamic environment, continuous growth and development are imperative for staying ahead. However, to fully leverage their inventions, it is essential for businesses and individuals to protect their intellectual assets.

IPRs are evolving into a crucial strategic asset for innovative organizations seeking to bolster their industrial competitiveness. By securing their intellectual property, innovators can safeguard their unique ideas and creations, ensuring that they can capitalize on their innovations to drive growth and maintain a competitive edge in the market.

7.2 INTELLECTUAL PROPERTY RIGHTS SESSIONS

In an effort to raise awareness and promote the importance of Intellectual Property Rights (IPR) protection, a series of enlightening sessions were conducted across various educational institutions. These sessions aimed to equip students and professionals with essential knowledge about safeguarding their innovative ideas and creations. Here are the details of the IPR sessions held at different schools and institutions:

Sr No	Date	School/ Institution	Total Participants
1	15/02/2024	Govt High School, Merculem, Bicholim	75
2	16/02/2024	PES College, Ponda	24
3	27/02/2024	Mata Secondary School, Vasco	110

7.3 STATUS REPORT



03

Total session conducted



209

Total no. of participants

Photograph 7:
STUDENTS ATTENDING IPR SESSION

16/02/2024 | Students from PES College, Ponda



16/02/2024 | Students from PES College, Ponda



27/02/2024 | Students from Mata Secondary School, Vasco



27/02/2024 | Students from Mata Secondary School, Vasco





***BOOTCAMPS ON
INNOVATION,
CREATIVITY &
STARTUPS IN
COLLEGES***

CHAPTER 08

BOOTCAMPS ON INNOVATION, CREATIVITY & STARTUPS IN COLLEGES

“Innovation bootcamps are the crucible where creativity meets discipline, igniting the spark of genius and forging it into tangible progress.”

JOHN SMITH

8.1 INTRODUCTION

In a world characterized by rapid change and innovation, continuous learning and adaptation are essential for success. Recognizing this imperative, the Goa State Innovation Council spearheads a series of dynamic bootcamps focused on technology, innovation, and startups. Tailored specifically for college students in Goa, these immersive programs serve as incubators for creativity and entrepreneurship. Participants are challenged to think outside the box, exploring innovative solutions to real-world problems and identifying opportunities for scalable business ventures.

Under the guidance of experienced lecturers and industry leaders, students undergo a transformative journey, emerging as empowered tech-entrepreneurs equipped with the skills and knowledge to navigate the complexities of launching and scaling startups. Beyond fostering innovation and entrepreneurship, the bootcamps provide invaluable insights into the pivotal role played by GSIInC in cultivating a vibrant startup ecosystem in Goa. Participants gain a deeper understanding of the various state government initiatives and support schemes available to aspiring entrepreneurs, empowering them to turn their innovative ideas into impactful ventures that contribute to the socio-economic growth of the region.

Schedule:

Table: 8.1: Schedule of Bootcamps on Innovation, Creativity & Startups in Colleges

Sr. No.	Topic	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, Ideation, Planning, execution, etc.	45 MINS
4	Various Government Funds and Schemes assistance for starting up	45 MINS
5	Q & A	15 MINS

8.2 STATUS REPORT

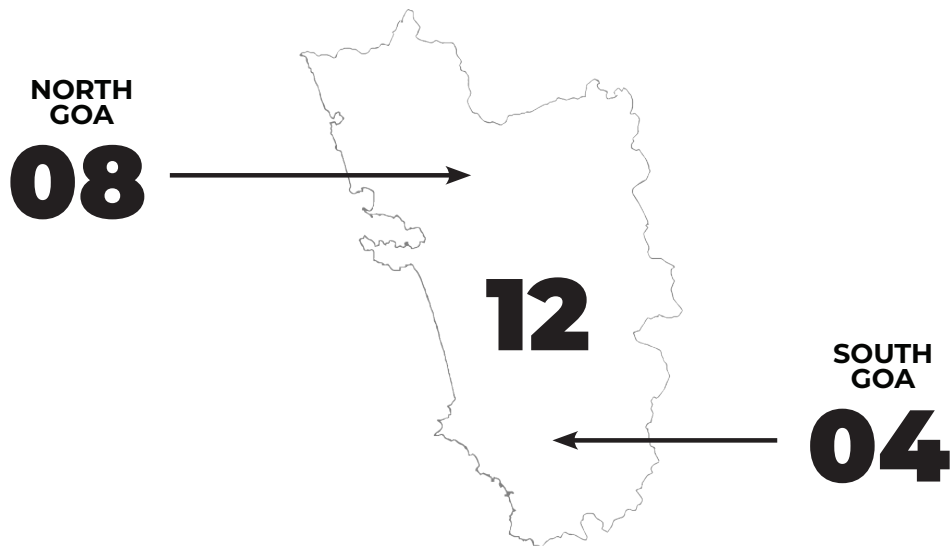
Sessions Conducted



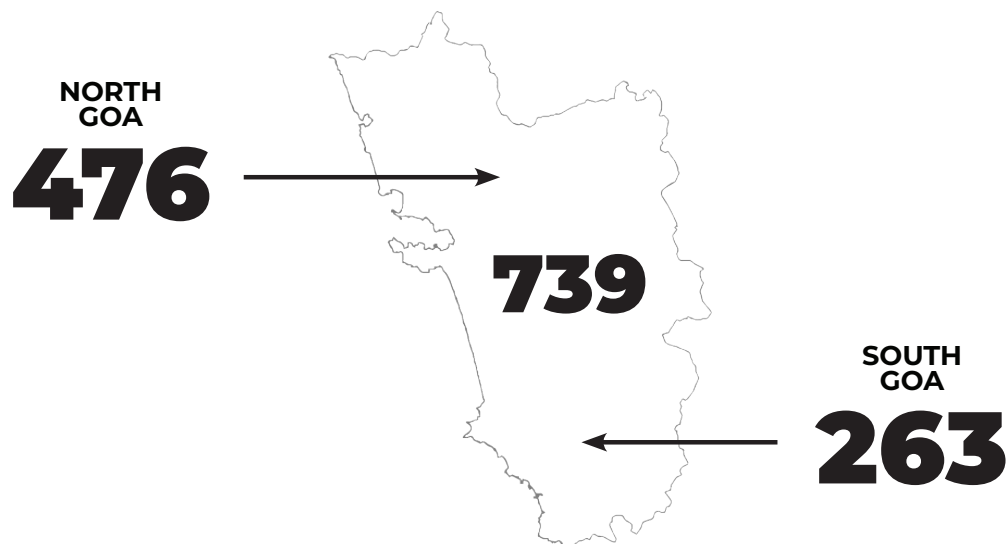
Total Students



No. of Bootcamps



No. of Participants



In the pursuit of fostering innovation and entrepreneurship among the youth of Goa, the Goa State Innovation Council continues to excel in organizing impactful bootcamps across educational institutions in the region. These bootcamps serve as incubators for nurturing budding innovators and equipping them with the requisite skills to turn their entrepreneurial aspirations into reality.

During the reporting period, a total of 12 bootcamps were meticulously organized, with 8 held in North Goa and 5 in South Goa. These sessions were strategically conducted across various esteemed educational institutions such as Government College of Commerce, Borda; GVM's College, Ponda; and Rosary College of Commerce and Arts, Navelim, among others.

The participation figures reflect the enthusiastic response garnered by these bootcamps, with a total of 739 students actively engaging in the sessions. Notably, North Goa witnessed the participation of 476 students, while South Goa saw the involvement of 263 students, highlighting the widespread impact of these initiatives across the region.

Through intensive sessions spanning 2 to 3 hours, participants were immersed in interactive learning experiences designed to harness their innovative potential and instill entrepreneurial acumen. Post-program feedback indicates a palpable enthusiasm among attendees, with a significant portion expressing keen interest in pursuing entrepreneurial ventures of their own.

The efforts of the Goa State Innovation Council in orchestrating these bootcamps have not only fostered a culture of innovation and entrepreneurship but have also played a pivotal role in shaping the future leaders of Goa's startup ecosystem. By empowering students with the necessary skills and knowledge, the Council continues to pave the way for a thriving innovation landscape in the region, propelling Goa towards a future defined by technological advancement and economic prosperity.

Table 8:
LIST OF BOOT CAMPS

Sr. No.	Date	Name of the School	Time
1	18/07/2023	Government College of Commerce, Borda	11.00 am to 1.00 pm
2	25/07/2023	GVM's College, Ponda	11.00 am to 1.00pm
3	08/08/2023	Rosary College of Commerce and Arts, Navelim	2..00 pm to 5.00 pm
4	10/08/2023	AITD, Assagao	2.00 pm to 4.00 pm
5	10/08/2023	Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda	10.00 am to 12.00 pm
6	22/08/2023	Shree Damodar College Of Commerce and Economics, Margao	10.00 am to 12.00 pm
7	05/09/2022	Padre Conceicao College of Engineering, Verna	10 am to 12.00 pm
8	03/10/2023	Govt. College of Arts, Science and Commerce, Khandola	10.00 am to 12.00 pm
9	08/11/2023	Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda	11.00 am to 1.00 pm

Sr. No.	Date	Name of the School	Time
10	18/12/2023	Gomantak Ayurved Mahavidyalaya and Research Centre, Shiroda	11.00 am to 1.00 pm
11	16/01/2023	Government Polytechnic Panaji, Panaji	2.00 pm to 4.00 pm
12	26/01/2024	Dhempe College of Arts & Science, Panaji	10.00 am to 12.30 pm

Photograph 8:
STUDENTS ATTENDING BOOT CAMPS

18/07/2023 | Students from Government College of Commerce and Economics, Borda, Margao



25/07/2023 | Students from GVM's College of Commerce & Economics, Farmagudi, Ponda



25/07/2023 | Students from GVM's College of Commerce & Economics, Farmagudi, Ponda



08/08/2023 | Students from Rosary College of Commerce and Arts, Navelim, Margao



10/08/2023 | Students from AITD, Assagao, Mapusa



10/08/2023 | Students from Shree Rameshwar Institute of Engineering & Information Technology, Shiroda



22/08/2023 | Students from Shree Damodar College College of Commerce and Economics, Margao



22/08/2023 | Students from Shree Damodar College College of Commerce and Economics, Margao



05/09/2023 | Students from Padre Conceicao College of Engineering, Verna



03/10/ 2023 | Students from Government College of Arts, Science & Commerce, Khandola, Marcela



03/10/ 2023 | Students from Government College of Arts, Science & Commerce, Khandola, Marcela



08/11/ 2023 | Students from Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda



08/11/ 2023 | Students from Shree Rayeshwar Institute of Engineering & Information Technology, Shiroda



18/12/ 2023 | Students from Gomantak Ayurvedic Mahavidyalaya and Research Centre, Shiroda



16/01/ 2024 | Students from Government Polytechnic Panaji, Panaji



26/01/ 2024 | Students from Dhempe College of Arts & Science, Panaji





***SENSITISATION
WORKSHOPS ON
INNOVATION IN
SCHOOLS***

CHAPTER 09

SENSITISATION WORKSHOPS ON INNOVATION IN SCHOOLS

“Innovation distinguishes between
a leader and a follower.”

STEVE JOBS

9.1 INTRODUCTION

In the realm of education, STEM innovations are the catalysts driving profound changes in our daily lives. From revolutionizing agricultural practices to advancing medical breakthroughs, from enhancing communication networks to unravelling the mysteries of the universe, STEM disciplines illuminate the path towards a promising future.

Recognizing the transformative power of STEM (Science, Technology, Engineering, and Mathematics) education, the Goa State Innovation Council has embarked on a mission to promote its integration in primary and secondary schools. At the heart of this initiative lies the goal of nurturing essential skills such as creativity, collaboration, critical thinking, and problem-solving among students—skills that serve as the cornerstone of success in an ever-evolving world.

With a steadfast commitment to providing quality learning experiences, GSInC collaborates closely with schools to craft comprehensive curricula tailored to foster innovation and technological literacy. Leveraging partnerships with esteemed organizations including incubators and tinkering labs, the council endeavors to equip students with the tools and knowledge needed to thrive in a technology-driven landscape.

Embracing a holistic approach, the Goa State Innovation Council extends its outreach to schools of all sizes and affiliations, both public and private, across the vibrant landscape of Goa. By empowering school authorities to envision and embrace a future steeped in innovation, the council paves the way for a generation of forward-thinking individuals poised to lead the charge towards progress.

Through a series of dynamic workshops on STEM education, conducted with zeal and fervor, GSInC has witnessed resounding success in its mission to instill a culture of innovation and technological literacy in schools across Goa. As we continue to sow the seeds of innovation in the fertile minds of our youth, we lay the foundation for a future brimming with endless possibilities and boundless innovation.

Schedule:

1. Introduction to Session & Virtual Innovation Register
2. Introduction to Innovation, Creativity & Ideation
3. Activity Session on Innovation, Creativity & Prototyping
4. Q&A

9.2 STATUS REPORT: SENSITISATION WORKSHOPS ON INNOVATION IN SCHOOLS

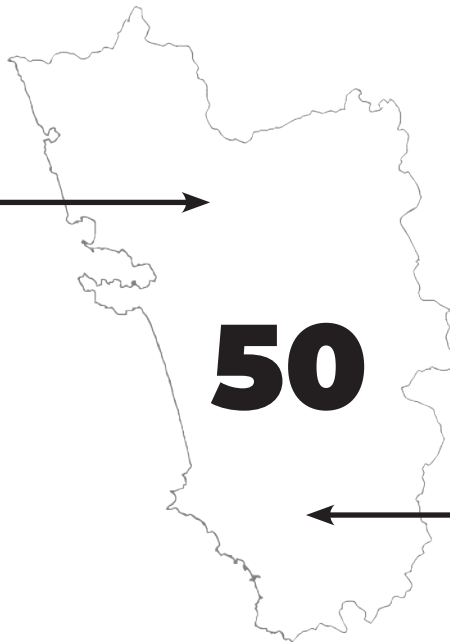
Program Conducted

**50**

Total Participants

**5329**

No. of Workshops

**NORTH
GOA
28****SOUTH
GOA
22**

The Goa State Innovation Council (GSInC) is proud to report significant strides in our ongoing efforts to promote STEM (Science, Technology, Engineering, and Mathematics) education across the state. Spearheading this transformative initiative, the Council organized a series of impactful sensitisation workshops, engaging with numerous schools, igniting a passion for innovation and scientific inquiry among students.

At the heart of our initiative lies a deep-seated belief in the transformative power of STEM education. By introducing students to the principles of science, technology, engineering, and mathematics at an early age, we aim to equip them with the critical thinking skills and creative problem-solving abilities necessary to thrive in an increasingly complex world.

A total of 50 workshops were organized, engaging and enlightening a diverse cohort of 5,329 participants comprising students and educators across the length and breadth of Goa. Our workshops have reached schools situated in various regions of Goa, from bustling urban centers to remote villages. By ensuring broad geographic coverage, we are committed to extending the benefits of STEM education to all corners of the state, fostering inclusive development and equal opportunities for students.

Building upon the previous year's strategy, our workshops strategically targeted schools situated in urban hubs such as Ponda, Margao, Mapusa, and Panjim, while also extending our outreach to schools nestled in remote villages like Valpoi, Cujira, Guirim, Aquem, and Sirigao. This approach ensures equitable access to innovative learning opportunities, fostering inclusive development across Goa. The workshops were meticulously conducted, each session offering a unique blend of interactive learning experiences and thought-provoking discussions aimed at igniting the spark of innovation among the participants.

The initiative to promote STEM education is propelled by the rapid advancement of emerging technologies worldwide. The Goa State Innovation Council is committed to revolutionizing the educational paradigm by providing students with modern, technology-driven learning experiences that inspire curiosity and ignite a passion for scientific inquiry.

Through hands-on activities, interactive sessions, and engaging demonstrations, our workshops inspire students to explore the boundless possibilities of STEM fields. By fostering a spirit of curiosity and experimentation, we are nurturing the next generation of innovators and change-makers who will drive progress and shape the future. The workshops served as a catalyst for nurturing the next generation of innovators, equipping them with the knowledge, skills, and mindset necessary to thrive in an ever-evolving world. As we celebrate the success of these workshops, we reaffirm our commitment to fostering a culture of innovation and entrepreneurship, driving Goa towards a future defined by limitless possibilities and boundless creativity.

The Road Ahead:

Collaboration with schools, educators, and community stakeholders is central to the success of our initiative. By forging strong partnerships and leveraging collective expertise, we are creating a supportive ecosystem that empowers students to excel in STEM education and pursue careers in high-demand fields.

As we look ahead, the Goa State Innovation Council remains committed to expanding access to quality STEM education, empowering students to unlock their full potential, and fostering a culture of innovation that propels Goa towards a brighter future.

Our workshops serve as catalysts for educational excellence, empowering schools to embrace STEM education programs and cultivate a conducive learning environment infused with innovation. By fostering collaboration between educators and students, and facilitating hands-on learning experiences, we are laying the foundation for a generation of forward-thinking innovators poised to shape the future of Goa and beyond.

As we reflect on our achievements, we remain steadfast in our commitment to advancing STEM education and nurturing a culture of innovation that empowers students to thrive in a dynamic and ever-evolving world.

Table 9:
LIST OF SENSITIZATION WORKSHOPS

Sr. No.	Date	Name of the School	Time	No. of Student
1	16/06/2023	Shri Vinayak Gopal Shenvi Vidyalya Rawanfond, Navelim	9.30 am to 10.30 am	76
2	20/06/2023	St Anthony High School, Monte de Guirim	9.30 am to 10.30 am	70
3	20/06/2023	Murgaon High School, Headland Sada, Vasco	11.30 am to 12.30 pm	140
4	21/06/2023	Holy Cross High School, Siolim	11.30 am to 12.30 pm	162
5	24/06/2023	Popular High School, Comba Margao	11.30 am to 12.30 pm	56
6	26/06/2023	Manovikas English High School, Gogol, Margao	11.30 am to 12.30 pm	140
7	27/06/2023	Our Lady of Mount Carmel, Arambol	11.30 am to 12.30 pm	120
8	27/06/2023	The New Educational Institute Curchorem	11.30 am to 12.30 pm	60
9	30/06/2023	Govt High School, Dadachiwa- di, Dhargal, Pernem	11.30 am to 12.30 pm	60
10	10/07/2023	Matoshi High School, Dharbandora	9.30 am to 10.30 am	80
11	10/07/2023	Immaculate conception High School, Dhargal	11.30 am to 12.30 pm	48
12	12/07/2023	Govt High School, Sheldem, Quepem	11.30 am to 12.30 pm	121
13	13/07/2023	Adarsh High School, Pajifond	9.30 am to 10.30 am	180
14	19/07/2023	Don Bosco High School, Sulcora	11.30 am to 12.30 pm	125
15	16/08/2023	Vidhya Vruddhi School, Ponda	11.30 am to 12.30 pm	72
16	18/08/2023	Shardha English High School, Durbhat, Ponda	11.30 am to 12.30 pm	84

Sr. No.	Date	Name of the School	Time	No. of Student
17	19/08/2023	Shri Mahalaxmi English High School, Talaulim, Ponda	11.30 am to 12.30 pm	78
18	22/08/2023	Lokmanya Tilak Vidyalaya Kavlem, Ponda	11.30 am to 12.30 pm	68
19	23/08/2023	Surashree Kesarbai Kerkar High School, Keri, Ponda	11.30 am to 12.30 pm	60
20	24/08/2023	St. Thomas Boys High School, Aldona	11.00 am to 12.00 pm	250
21	25/08/2023	Our Lady of Snows High School, Raia	09.30 am to 10.30 am	100
22	26/08/2023	Cuncolim United High School, Cuncolim	11.00 am to 12.00 pm	170
23	28/08/2023	Govt High School, Namoshi, Guirim, Porvorim	11.00 am to 12.00 pm	120
24	29/08/2023	Govt high School Merkulem, Bicholim	11.30 am to 12.30 pm	100
25	30/08/2023	St. Thomas Girls High School, Aldona	11.00 am to 12.00 pm	230
26	31/08/2023	Gomantak Vidhyalaya School, Dharbandora	11.30 am to 12.30 pm	120
27	01/09/2023	Our Lady of Carmel High School, Curtorim	09.30 am to 10.30 pm	110
28	02/09/2023	Presentation Convent School, Margao	11.30 am to 12.30 pm	110
29	06/09/2023	Batkar High School, Margao	09.30 am to 10.30 pm	150
30	06/09/2023	Batkar High School, Margao	11.30 am to 12.30 pm	180
31	11/09/2023	St. Joseph High School, San-coale	09.30 am to 10.30 pm	100
32	12/09/2023	St. Mary's High School, Varca	09.30 am to 10.30 pm	120
33	14/09/2023	People High School, Panjim	09.30 am to 10.30 pm	210

Sr. No.	Date	Name of the School	Time	No. of Student
34	15/09/2023	Vidhya Vikas Academy	09.00 am to 10.00 am	109
35	15/09/2023	Vidhya Vikas Academy	11.00 am to 12.00 pm	125
36	27/09/2023	Govt High School, Ambaulim, Quepem	11.30 am to 12.30 pm	110
37	03/10/2023	St. Joseph High School, Karai, Shiroda.	11.00 am to 1.00 pm	57
38	03/10/2023	Smt. Kamlabai Hede High School, Karai – Shiroda	08.30 am to 10.30 am	43
39	04/10/2023	G.V.M's A. J. De Almeida High School, Ponda	11.00 am to 12.45 pm	250
40	09/10/2023	Jamiya E. Maqbuliya High School, Betoda Ponda	10.00 am to 12.00 pm	62
41	10/10/2023	Sharada English High School, Marcel	11.00 am to 01.00 pm	78
42	13/10/2023	Dr. Sakharam Gude High School, Vazangal Shiroda	08.45 am to 10.20 pm	43
43	14/10/2023	V.D. & S.V. Wagle High School, Mangueshi	09.45 am to 11.40 pm	160
44	16/10/2023	New English High School, Kundaim	09.45 am to 11.40 pm	41
45	16/10/2023	Vivekanand Vidhyalay, Borim Ponda	09.30 am to 11.30 pm	80
46	19/10/2023	St. Anthony's High School, Panchawadi Shiroda	09.30 am to 11.30 pm	42
47	19/10/2023	Dr. Hedgewar School, Cujira	10.00 am to 12.00 pm	80
48	20/10/2023	Dr. K.B. Hedgewar High School, Curti Ponda	11.30 am to 1.00 pm	51
49	23/10/2023	Govt. High School, Betoda Ponda	11.30 am to 1.00 pm	89
50	29/11/2023	Govt. High School, Morpila	11.30 am to 1.00 pm	80

Photograph 9:
SENSITISATION WORKSHOPS AT SCHOOLS

16/06/2023 | Shri Vinayak Gopal Shenvi Vidyalaya, Rawanfond, Navelim





20/06/2023 | St. Anthony High School, Monte de Guirim, Mapusa



20/06/2023 | St. Anthony High School, Monte de Guurim, Mapusa



24/06/2023 | Popular High School, Comba, Margao



24/06/2023 | Popular High School, Comba, Margao



27/06/2023 | The New Educational Institute, Curchorem



10/07/2023 | Matoshri Anandibai Vaman Marathe Vidyamandir, Dharbandora



10/07/2023 | Matoshri Anandibai Vaman Marathe Vidyamandir, Dharbandora



10/07/2023 | Immaculate Conception High school, Dabal, Dharbandora



12/07/2023 | Government High School, Sheldem, Quepem



12/07/2023 | Government High School, Sheldem, Quepem



13/07/2023 | Adarsh V.V. High School Pajifond, Madgao



24/08/2023 | St. Thomas Boys High School, Aldona



25/08/2023 | Our Lady of Snow High School, Raia, Margao



26/08/2023 | Cuncolim United High School, Cuncolim



28/08/2023 | Govt. High School, Namoshi, Guirim, Porvorim



29/08/2023 | Government High School, Menkurem, Bicholim



30/08/2023 | St. Thomas Girls High School, Aldona



31/08/2023 | Gomantak Vidyalaya School, Dharbandora



01/09/2023 | Our Lady of Carmel High School, Curtorim



02/09/2023 | Presentation Convent School, Margao



06/09/2023 | Bhatikar Model High School, Margao



12/09/2023 | St. Mary's High School, Varca, Margao



12/09/2023 | St. Mary's High School, Varca, Margao



14/09/2023 | People's High School Mala, Panaji



15/09/2023 | Vidya Vikas Academy, Margao



15/09/2023 | Vidya Vikas Academy, Margao



19/10/2023 | Dr. K.B. Hedgewar High School, Cujira



26/06/2023 | Manovikas English Medium School, Margao



20/06/2023 | Murgao High School, Sada



27/06/2023 | Our Lady Mount Carmel High School, Arambol



27/06/2023 | Our Lady Mount Carmel High School, Arambol



30/06/2023 | Government High School, Dadachiwadi, Dargal, Pernem



19/07/2023 | Don Bosco Farm High School, Sulcorna, Quepem



16/08/2023 | Vidhya Vruddhi School, Ponda





16/08/2023 | Vidhya Vruddhi School, Ponda



18/08/2023 | Sharda English High School, Durbhat, Ponda



19/08/2023 | Shree Mahalaxmi English High School, Talaulim, Ponda

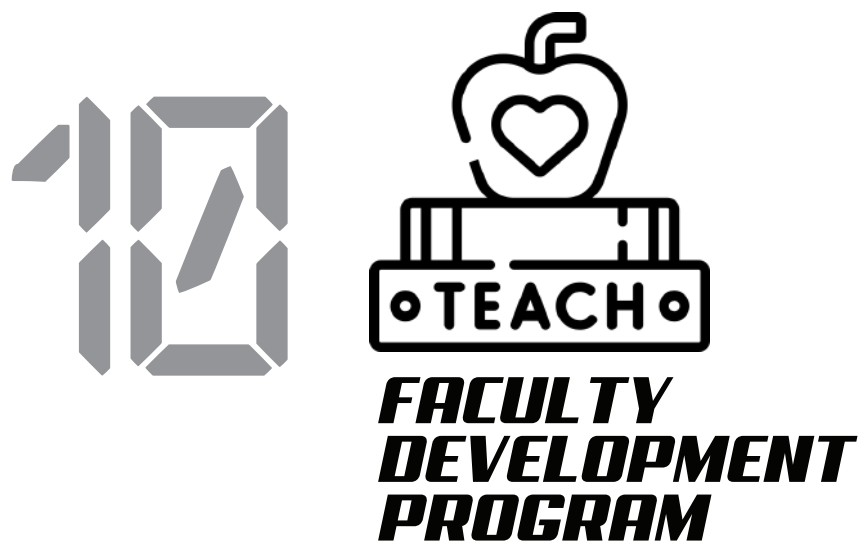


19/08/2023 | Shree Mahalaxmi English High School, Talaulim, Ponda



22/08/2023 | Lokmanya Tilak Vidyalya, Kavlem, Ponda





CHAPTER 10

FACULTY DEVELOPMENT PROGRAM

“Good educators inspire young minds to think creatively, question boldly, and innovate fearlessly, shaping the future leaders and innovators of tomorrow.”

UNKNOWN

10.1 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.

Table 10.1:
SCHEDULE OF FACULTY DEVELOPMENT PROGRAM

Date	Start Time	End Time	Topics	Facilitator
Day 1				
23rd Feb 2024 (Fri)	10:00 AM	10:30 AM	Registration, Inaugural Session & Welcome Address	
	10:30 AM	11:30 AM	Introduction to Goa State Innovation Council's (GSInC) Virtual Innovation Register (VIR) & support schemes for students project Ideas	Shri. Sudip Faldesai, Project Officer, GSInC
			Tea Break	
	11:30 AM	1:00 PM	Activity Based Session on Creativity and Problem Solving	Sushant Surlekar, Mentor & Trainer, SMS Academy
	1:00 PM	2:00 PM	Lunch break	
	2:00 PM	3:30 PM	Activity Based Session on How to convert an Student Idea into an Startup?	Smt. Aduja Naik, Faculty Carmel College
			Tea Break	
	3:30 PM	4:30 PM	Process of Student Project Incubation	Shri. Kiraan Mehta, Incubation Manager, Fiire
Day 2				
24th Feb 2024 (Sat)	10:00 AM	1:00 PM	Patenting Student	Dr. Vital Tilve, Professor, Directorate of Higher Education, Goa
	1:00 PM	2:00 PM	Lunch Break	
	2:00 PM	4:00 PM	Think Design Prototype Workshop on Prototyping Students Ideas to Minimum Viable Product (MVP)	Shri. Siddhant Panjkar, Mentor, Rapid Prototyping Lab, Fatorda
	4:30 PM	5:00 PM	Valedictory Function, Certificates Distribution & Group Photo	
			High Tea	

10.2 STATUS REPORT

Program Conducted



04

Total Participants



118

Faculty Development Program Status Report

The Faculty Development Program (FDP) conducted by the Goa State Innovation Council (GSInC) emerged as a resounding success, marking a significant milestone in the pursuit of nurturing entrepreneurial excellence among educators. Held on February 23rd and 24th, 2024, the FDP witnessed enthusiastic participation from a total of 118 esteemed faculty members representing various educational institutions across Goa.

Program Highlights:

Day 1 - February 23rd, 2024

The inaugural session commenced with a vibrant atmosphere as participants were warmly welcomed and introduced to the transformative initiatives of GSInC, including the Virtual Innovation Register (VIR) and its support schemes for student projects.

Diving into the realm of creativity and problem-solving, an engaging activity-based session led by esteemed mentor Sushant Surlekar from SMS Academy invigorated participants with fresh perspectives and innovative approaches.

Following a rejuvenating tea break, faculty members delved deeper into the intricacies of converting student ideas into viable startups, guided by the expertise of Smt. Aduja Naik from Carmel College.

The day culminated with a captivating session on the process of student project incubation, enlightening participants on the pathway from ideation to realization, facilitated by Shri. Kiraan Mehta, Incubation Manager at Fiire.

Day 2 - February 24th, 2024

Dr. Vital Tilve, a distinguished professor from the Directorate of Higher Education, Goa, unraveled the nuances of patenting for students, shedding light on the significance of intellectual property rights in fostering innovation.

Following a nourishing lunch break, participants immersed themselves in a dynamic Think Design Prototype workshop led by Shri. Siddhant Panjikar from the Rapid Prototyping Lab, Fatorda. This hands-on session empowered educators to guide students in transforming their ideas into tangible minimum viable products (MVPs), laying the groundwork for future entrepreneurial endeavors.

The program concluded on a high note with a valedictory function, wherein certificates were distributed to participants as a token of appreciation for their unwavering commitment to fostering a culture of innovation within their educational institutions.

As we reflect on the success of the Faculty Development Program, we reaffirm our dedication to nurturing a cadre of educators equipped with the knowledge, skills, and passion needed to inspire the next generation

of entrepreneurial leaders. Through collaborative efforts and continued engagement, we strive to ignite the flame of innovation in every corner of Goa, paving the way for a future defined by limitless possibilities and boundless creativity.

Table No. 10.2:
LIST OF PARTICIPANTS FOR FACULTY DEVELOPMENT PROGRAM (FDP)

Sr No	Name of the faculty	College & Dept Name
1	K. Sangeeta	Government College of Arts Science and Commerce
2	Dr. Kiran T. Dhavskar	Goa University
3	Dr. Aditi V. Naik,	Goa University
4	Sameer Pundalik Patil	Shree Damodar College of Commerce and Economics Margao Goa
5	Ms. Sujata Gaonkar	Govt College of Arts and Science, Khandola Marcel
6	Ms Anita S Raicar	Govt College of Arts and Science, Khandola Marcel
7	Mrs Suchitra R. Bhat	CES's Parvatibai Chowgule College of Arts and Science
8	Dr. Ashish M. Dessai	CES's Parvatibai Chowgule College of Arts and Science
9	Mr. Chilton Fernandes	Shree Rayeshwar Institute of Engineering & Information Technology
10	Mr. Shreeyank Jambhale	Shree Rayeshwar Institute of Engineering & Information Technology
11	Mr. Myron Pereira	S.S.A. Govt College of Arts & Commerce, Virnoda Pernem
12	Dr. Nilesh Pawar	BITS Pilani, K.K. Birla Goa Campus
13	Dr. Saranya G. Nair	BITS Pilani, K.K. Birla Goa Campus
14	Dr. Himadri Mukherjee	BITS Pilani, K.K. Birla Goa Campus
15	Dr. Sandip Sarkar	BITS Pilani, K.K. Birla Goa Campus
16	Dr. Debolina Ghatak	BITS Pilani, K.K. Birla Goa Campus
17	Ms. Padma Shanbhag	G.V.M.'s G.G.P.R. College of Commerce and Economics
18	Dr. Rahul Riberio	Padre Conceicao College of Engineering, Verna

Sr No	Name of the faculty	College & Dept Name
19	Ms. Sharlaine Nicole Monteiro	Padre Conceicao College of Engineering, Verna
20	Ms. Cynara Marianne Silveira	Padre Conceicao College of Engineering, Verna
21	Mr. Shaba Desai	Padre Conceicao College of Engineering, Verna
22	Ms. Ravina Rodrigues	Padre Conceicao College of Engineering, Verna
23	Mr. Kevin Rodrigues	Padre Conceicao College of Engineering, Verna
24	Dr. Joe Kurian	Padre Conceicao College of Engineering, Verna
25	Ms. Alzira Xavier	Padre Conceicao College of Engineering, Verna
26	Ms. Manasi Raut	Padre Conceicao College of Engineering, Verna
27	Dr. Aureen Gomes	St. Joseph's Vaz College, Sancoale
28	Dr. Melwin D'Souza	St. Joseph's Vaz College, Sancoale
29	Dr. Smita Nayak	P.E.S College of Arts and Science, Ponda
30	Dr. Chandan Amonkar	P.E.S. College of Arts and Science, Ponda
31	Dr. Savia Mendes	MES College, Vasco
32	Mr. Shubham Naik	S.S.A. Govt College of Arts & Commerce, Virnoda Pernem
33	Dr. Anant V. Bhandarkar	Goa College of Pharmacy
34	Mr. Raveendra Hullolikar	Goa College of Pharmacy

Photograph 10:
FACULTY DEVELOPMENT PROGRAM



Photograph:
FACULTY DEVELOPMENT PROGRAM



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FACULTY DEVELOPMENT PROGRAM

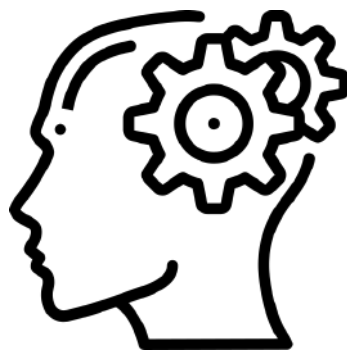


Photograph:
FACULTY DEVELOPMENT PROGRAM



Photograph:
FACULTY DEVELOPMENT PROGRAM





**STEM - THINK
DESIGN
PROTOTYPING
WORKSHOPS**

CHAPTER 11

STEM – THINK DESIGN PROTOTYPING WORKSHOPS

“Science, technology, engineering, and mathematics are the pillars upon which the future of innovation and progress stands.”

BARRACK OBAMA

11.1 INTRODUCTION

Prototyping means producing low-cost/no-cost representations of programs, services, and products in ways that make it easy for end-users and investors to share feedback, ideas, and perspectives on what you’ve built.

Prototyping is an approach that moves a project towards action through the production of early, inexpensive, and scaled-down versions of the product, program, or service to reveal problems with the current design. It brings ideas to life, tests their practicality, and highlights how a sample of end-users might think and feel about what you’ve created. In design thinking, designers use prototypes to observe, record, judge and measure an end user’s general behavior, interactions, and reactions to the overall design.

This prototyping is a science and art. The more information and material and design specifications you have researched and have ready, the faster it will be to complete a product or line. This seamless transformation from idea to prototype needs meticulous training. GSInC’s Think Design Prototyping Workshops make it happen. Conducted at the Prototyping Lab established at Don Bosco College of Engineering, Fatorda, by Goa State Innovation Council, Government of Goa, these workshops provide innovators from all walks of life the necessary infrastructure to transform their ideas into tangible models or prototypes.

These workshops equip the participants with knowledge of the latest technology and tools, like an advanced 3D Printer and a powerful Laser Cutting Machine available at GSInC’s prototyping lab. These workshops enable innovators to freely tinker around with ideas until they can refine them to the point of idealization.

GSInC organizes these Prototyping workshops across schools and colleges in Goa to help students innovate, conceptualize and scientifically shape their ideas.

11.2 LIST OF WORKSHOPS

Today's youth needs direction. Their thoughts need to be molded. And their dreams need to be nurtured. GSInC is committed to doing just that. GSInC's mission is to develop and foster the spirit of innovation in the youth of Goa. The Council has constructed a state-of-the-art Prototyping lab which is one of its kind in the state that allows students to think freely and experiment to refine their ideas.

In line with its objectives, GSInC organized several prototyping workshops across the state in 2019-20 to acquaint students with the facilities available in the lab.

The informative and hands-on sessions were held for schools in both the larger and quaint parts of Goa on Robot Building, Laser Engraving, 3D-Printing, etc.

The students thoroughly enjoyed the sessions and learned how to use the equipment in the lab on their own to bridge the gap between ideation and implementation.

Sessions Conducted



66

Total Participants



2338

Table 11:
LIST OF STEM WORKSHOPS

Sr. No.	Date	Name of the School/ College/ Institute	No. of Student Visited
1	04/04/2023	St Xavier's College Mapusa	40
2	24/04/2023	Vidhya Prabodhini College (Faculty)	20
3	16/05/2023	Army Training Centre Goa (School Students)	29
4	27/05/2023	DBCE	60
5	15/06/2023	Shri Vinayak Gopal Shenvi Vidyalaya Rawanford, Navelim	30
6	03/07/2023	Manovikas English School, Gogol, Margao	40
7	04/07/2023	Manovikas English School, Gogol, Margao	40
8	11/07/2023	Manovikas English School, Gogol, Margao	40
9	19/07/2023	Manovikas English School, Gogol, Margao	27
10	21/07/2023	Govt College, Khandola	35
11	18/08/2023	School teacher (who attended K-shitij Event of DBCE)	70
12	22/08/2023	Rosary College Navelim	32
13	25/08/2023	Goa Multi Faculty College Dharbandora	32
14	28/08/2023	Fr. Agnel Multipurpose High School, Verna	40
15	29/08/2023	Govt High School, Valkini Sanguem	23
16	30/08/2023	Govt High School, Menkurem, Bicholim	45
17	31/08/2023	AITD, Assagao	30
18	31/08/2023	AITD, Assagao	32
19	06/09/2023	Padre conceicao College of Engineering, Verna	31
20	12/09/2023	Posh English High School, Navelim	38
21	14/09/2023	Government College of Arts, Commerce and Science, Quepem	36
22	03/10/2023	St. Xaviers College, Mapusa	30
23	04/10/2023	Govt College of Arts, Science and commerce, Quepem	40
24	04/10/2023	MES Vasant Joshi Arts and Commerce, Vasco	66
25	06/10/2023	Government College Khandola	48
26	11/10/2023	Damodar College of Commerce & Economics (BCom Dept)	34
27	13/10/2023	Faculties, Enterpruner, Start-ups, Goa	18
28	17/10/2023	Damodar College of Commerce & Economics (Computer Dept)	34
29	18/10/2023	Govt Polytechnic Curchorem	44
30	23/10/2023	St. Michael School	99
31	25/10/2023	Agnel Polytechnic Verna	25
32	28/10/2023	Don Bosco College of Engineering, Mech dept	10
33	06/11/2023	Govt College, Himachal Pradesh	33
34	14/11/2023	Keerti Vidyalaya High School, Siolim, Bardez	30
35	15/12/2023	Govt Polytechnic Bicholim, Bicholim	33
36	20/12/2023	Govt College of Arts Science and Commerce, Quepem	42
37	21/12/2023	Govt High School, Morpila	40
38	12/01/2024	Navy Children School, Vasco	40

Sr. No.	Date	Name of the School/ College/ Institute	
39	15/01/2024	Government College of Commerce, Borda	40
40	19/01/2024	Government High School, Davorlim	39
41	23/01/2024	Our Lady of Rosary School, Fatorda	34
42	25/01/2024	GVM's College, Ponda	32
43	02/02/2024	Government Polytechnic Panaji, Panaji-Goa	40
44	05/02/2024	Rajnikant Kenkre Memorial Government High School, Main-Vasco	21
45	05/02/2024	Camilo Pereira Memorial Government High School, Baina-Vasco	12
46	07/02/2024	Government Industrial training Institute, Margao	33
47	09/02/2024	Popular High School, Margao-Goa	27
48	12/02/2024	Government High School, Fatarpa	18
49	14/02/2024	Government High School, Savoiverem, Ponda	30
50	14/02/2024	Government polytechnic College Kalamsassery, Kerala	38
51	15/02/2024	Government High School, Pissurlem-Goa	40
52	16/02/2024	PES College, Ponda	24
53	19/02/2024	Rosary College of Commerce & Arts, Navelim. (Bcom & BA)	38
54	20/02/2024	PM SHRI Govt High School, Gaval Khol, Canacona	26
55	20/02/2024	Govt High School, Malkarnem, Quepem	07
56	22/02/2024	Government Polytechnic Panaji, Panaji-Goa	23
57	23/02/2024	Faculties From Goa	34
58	27/02/2024	Rosary College of commerce & Arts, Navelim	35
59	01/03/2024	Government College of Arts and Science, Khandola	25
60	05/03/2024	Government Polytechnic Panaji, Panaji-Goa (Civil Department)	26
61	07/03/2024	Pope John XXIII High School, Quepem-Goa	26
62	11/03/2024	Pradnya High School, Pernem-Goa	53
63	15/03/2024	Government Polytechnic Panaji, Panaji-Goa	34
64	20/03/2024	Rosary College of Commerce & Arts, Navelim-Goa	45
65	23/03/2024	Carmel College, Nuvem-Goa.	45
66	28/03/2024	The New Education Institute, Curchorem-Goa	29

11.3 STATUS REPORT

The Goa State Innovation Council's Think Design Prototyping Workshops have witnessed remarkable engagement and enthusiasm, with a total of 66 sessions conducted across various educational institutions, benefiting 2338 students. These workshops have served as platforms for participants to explore the transformative potential of prototyping in materializing their innovative concepts.

Notable sessions include:

St. Xavier's College Mapusa:

Forty students were engaged in prototyping methodologies on April 4, 2023.

Vidhya Prabodhini College (Faculty):

Twenty participants immersed themselves in prototyping techniques on April 24, 2023.

DBCE:

Sixty students actively participated in prototyping activities on May 27, 2023.

Shri Vinayak Gopal Shenvi Vidyalaya Rawanford, Navelim:

Thirty students benefited from the workshops on June 15, 2023.

Manovikas English School, Gogol, Margao:

Multiple sessions were conducted with a total of 147 participants, indicating the popularity and effectiveness of the workshops.

These sessions have played a pivotal role in nurturing creativity, critical thinking, and problem-solving skills among participants. By providing access to cutting-edge equipment such as 3D printers and laser cutting machines, the workshops have empowered participants to transcend conventional boundaries of ideation and manifest their ideas into tangible prototypes with precision and clarity.

Looking ahead, the Goa State Innovation Council remains dedicated to expanding the outreach of these workshops, empowering more students and professionals to embrace prototyping as a catalyst for innovation and progress. Through sustained collaboration with educational institutions and industry stakeholders, our objective is to foster a culture of innovation and entrepreneurship across the region.

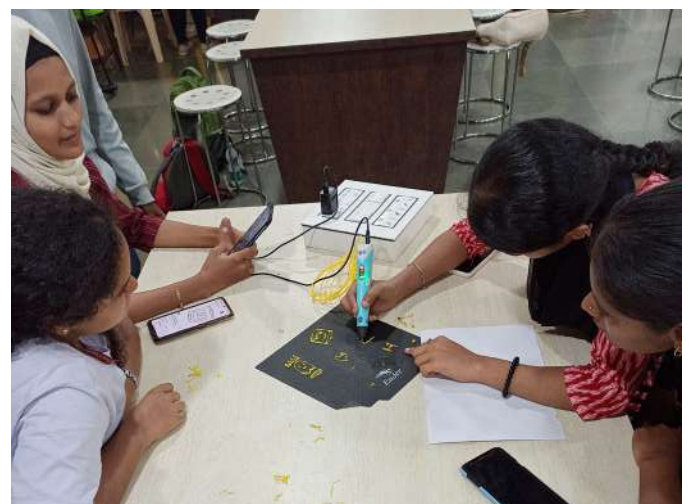
Photograph 11:
STEM WORKSHOPS



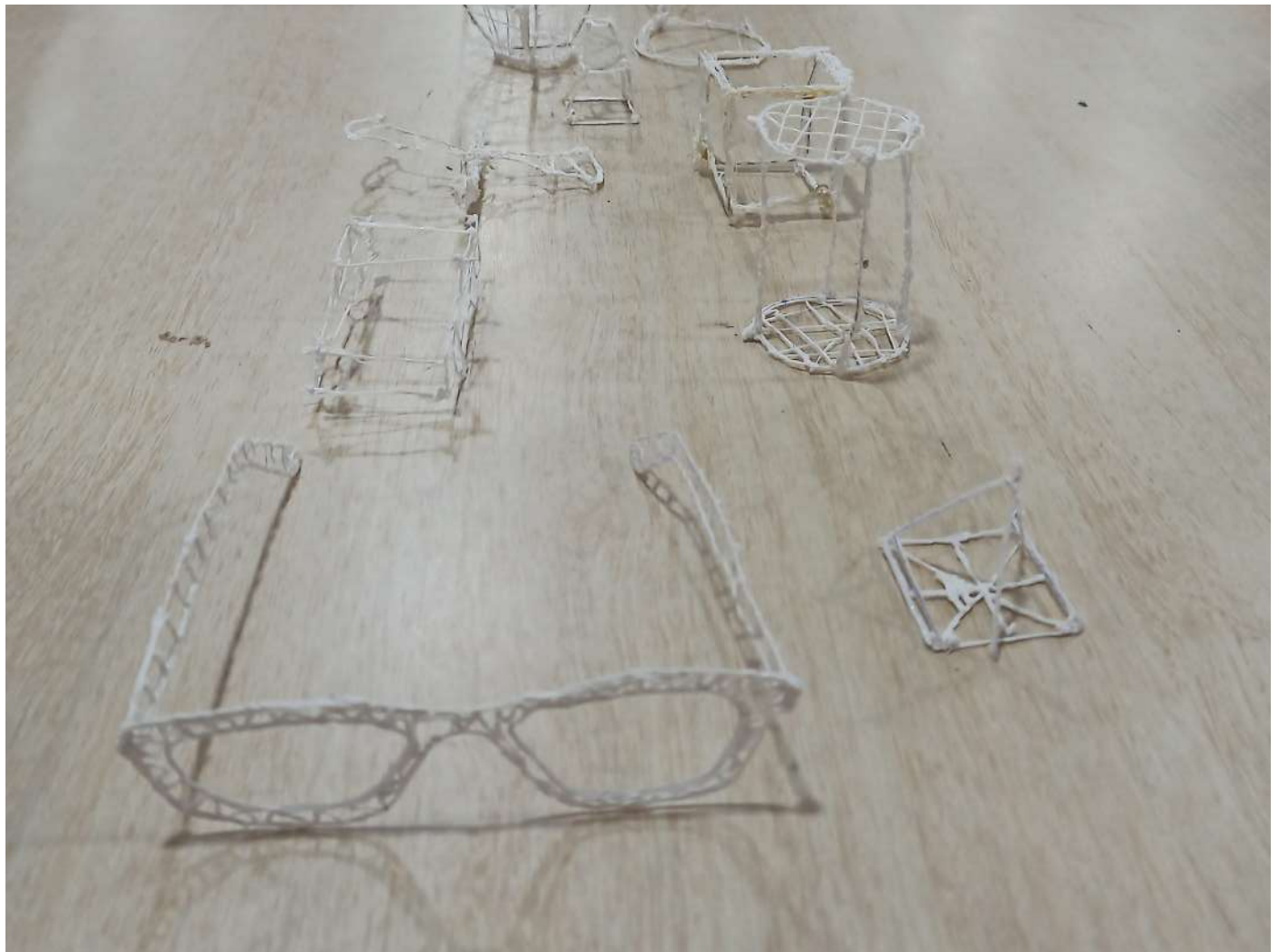
Photograph:
STEM WORKSHOPS



Photograph:
STEM WORKSHOPS



Photograph:
STEM WORKSHOPS



Photograph:
STEM WORKSHOPS



Photograph:
STEM WORKSHOPS



Photograph:
STEM WORKSHOPS

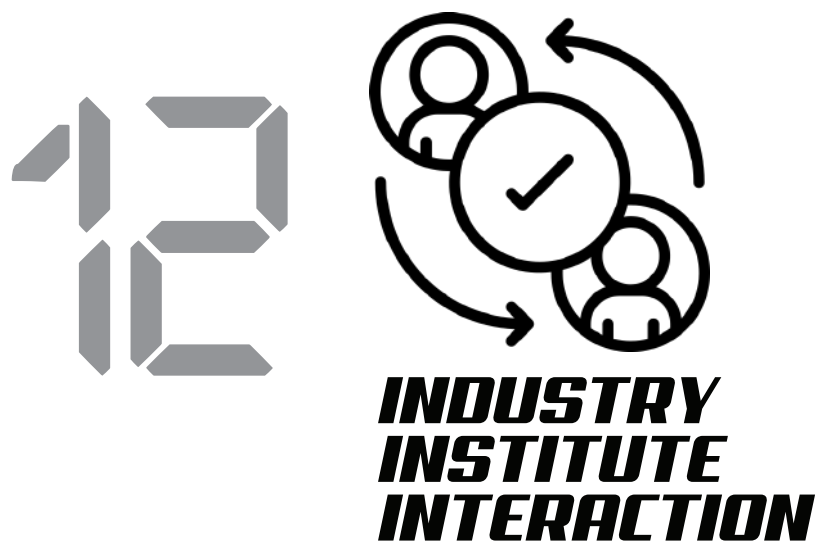


Photograph:
STEM WORKSHOPS



Photograph:
STEM WORKSHOPS





CHAPTER 12

INDUSTRY INSTITUTE INTERACTION

“Industry-institute interaction is crucial for bridging the gap between academic knowledge and real-world application, fostering innovation, and driving economic growth..”

DR. A. P. J. ABDOUL KALAM

12.1 INTRODUCTION

In the dynamic landscape of today's innovation-driven world, the interaction between academia and industry plays a pivotal role in shaping the future of technology and entrepreneurship. Recognizing this, the Goa State Innovation Council (GSInC) has been at the forefront of fostering a robust ecosystem of Industry Institute Interaction, aimed at empowering young minds to unlock their potential and drive innovation. At the heart of GSInC's mission lies a commitment to nurturing the spirit of innovation among the youth of Goa, providing them with the tools and opportunities to transform their ideas into impactful solutions.

Bridging the Gap between Innovation and Industry:

Through strategic partnerships with industry experts, GSInC has created a platform where students can engage with seasoned professionals, gaining insights into emerging trends, technological advancements, and areas ripe for innovation. These interactions serve as a catalyst for inspiration, as industry experts share valuable perspectives on existing gaps and unmet needs within various sectors. By identifying these opportunities, students are not only encouraged to think critically but also empowered to envision innovative solutions that address real-world challenges. From insightful lectures and interactive workshops to collaborative projects and mentorship programs, GSInC is paving the way for a new generation of innovators poised to make a meaningful difference in the world.

12.2 STATUS REPORT

Sr. No.	Date	Name of the College/ Institute	No. Of Students
1	24/08/2023	Damodar College of Commerce & Economics, Margao	70
2	25/08/2023	Rosary College of Commerce & Arts, Navelim	32

Panel Discussion:

- Mr. Sudip Faldesai
- Mr. Kiraan Mehta

The Industry Institution Interaction held at Rosary College of Commerce and Arts on 25th August 2023 witnessed enthusiastic participation from 32 students with interest in entrepreneurship and innovation. The highlight of the event was a dynamic panel discussion featuring Mr. Sudip Faldesai and Mr. Kiraan Mehta, who brought to the fore insights from their own experiences in the corporate and from several startups from diverse industries they have helped incubate and foster.

During the panel discussion, students had the unique opportunity to hear Mr. Sudip Faldesai share valuable insights gleaned from his experience, offering perspectives on industry trends, innovation opportunities, and the evolving landscape of technology. His expertise provided students with valuable guidance on navigating the dynamic realm of entrepreneurship and innovation.

Additionally, Mr. Kiraan Mehta brought his wealth of knowledge in incubation management to the forefront, shedding light on the process of transforming innovative ideas into viable ventures. Through interactive discussions and Q&A sessions, students gained a deeper understanding of the symbiotic relationship between academia and industry, as well as the role of innovation in driving economic growth and societal progress. Need to add status report for the second session panel discussion.

The event proved to be an enriching experience for all participants, leading the way to a meaningful dialogue while inspiring students to pursue their entrepreneurial aspirations with confidence and conviction. As GSInC continues to spearhead initiatives that bridge the gap between academia and industry, events like these play a crucial role in nurturing the next generation of innovators and change-makers in Goa.

Photograph 12:
INDUSTRY INSTITUTE INTERACTION







CHAPTER 13

RISK CAPITAL SESSION

“Risk comes from not knowing
what you're doing.”

WARREN BUFFETT

13.1 INTRODUCTION

Innovation is the vehicle for true progress that drives transformative change and shapes the future of industries and societies. However, the journey from ideation to implementation often encounters a critical hurdle: access to capital. Risk capital, also known as venture capital, plays a pivotal role in fuelling the aspirations of entrepreneurs and innovators, providing the financial resources needed to turn groundbreaking ideas into reality.

Goa State Innovation Council organizes impactful Risk Capital Sessions for the benefit of all aspiring entrepreneurs across ages and domains, helping them give a comprehensive knowledge about the commercial aspects of launching a business and how they can seek investors to fund their initiatives. These sessions delve into the dynamic realm of venture funding, exploring the intricacies of securing investment for innovative ventures. Through meticulously planned and engaging sessions and workshops, GSInC helps participants gain invaluable insights into the world of risk capital, learning how to navigate the complexities of fundraising and investor engagement. From understanding the investor mindset to crafting compelling pitches, these sessions equip aspiring entrepreneurs with the knowledge and skills needed to attract funding and accelerate the growth of their ventures.

13.2 STATUS REPORT

Risk Capital session – Student Funding Schemes of Government

Sr. No.	Date	Name of the College/ Institute	No. Of Students
1	21/08/2023	PES College, Ponda	37
2	15/01/2024	Goa University	35
3	16/01/2024	MSME, Delhi	45

The Risk Capital sessions, conducted across various esteemed educational institutions, served as platforms for students to delve into the intricacies of securing capital for their entrepreneurial ventures. These sessions aimed at nurturing entrepreneurship and innovation among the students. The sessions were held on different dates at different institutions. On 21st August 2023, PES College, Ponda, hosted a session attended by 37 students eager to learn about risk capital. Following that, on 15th January 2024, Goa University organized a session attended by 35 students, providing them with insights into capital acquisition strategies.

Lastly, on 16th January 2024, MSME, Delhi, hosted a session attended by 45 students, further enriching their understanding of risk capital and its importance in entrepreneurial endeavors.

These sessions provided invaluable opportunities for students to gain knowledge and insights into the world of risk capital, fostering a spirit of innovation and entrepreneurship among the participants. As GSInC continues to foster an ecosystem conducive to entrepreneurial success, initiatives like the Risk Capital Sessions play a vital role in empowering innovators to realize their aspirations and make a lasting impact on the world.

Photograph 13:
RISK CAPITAL SESSIONS



Photograph:
RISK CAPITAL SESSIONS



Photograph:
RISK CAPITAL SESSIONS



Photograph:
RISK CAPITAL SESSIONS





CHAPTER 14

WOMEN CENTRIC WORKSHOP

“Women have always been the true architects of change, breaking barriers, and shattering ceilings, not just in spite of their gender, but because of it.”

ANONYMOUS

14.1 INTRODUCTION

A beacon of strength, determination, and empowerment, a woman embodies resilience, ambition, and a fierce desire to carve her own path in life. She is not content with the status quo; instead, she seeks to explore her full potential, break barriers, and leave an indelible mark on the world. At Goa State Innovation Council, we recognize and celebrate the spirit of the empowered woman, championing her aspirations and supporting her journey towards entrepreneurship and success.

Women are naturally gifted in finding solutions to everyday problems, continually inventing ways to foster economies, enhance aesthetics, power reason, and nurture innovation. In true sense, every woman holds the promise of being a great innovator the world is waiting to arrive.

For years, GSInC has been at the forefront of empowering women in Goa by providing them with a platform to pursue their entrepreneurial dreams. Through a series of workshops and seminars, we have endeavored to nurture the entrepreneurial spirit within women, equipping them with the tools, resources, and knowledge needed to transform their ideas into thriving enterprises.

Our Women Centric Workshops serve as a catalyst for empowerment, fostering a supportive environment where women can explore their innovative ideas, refine their skills, and chart their own course towards success. From mentoring and hands-on training to informative seminars on government schemes and funding opportunities, these workshops provide women with the guidance and support they need to navigate the often challenging landscape of entrepreneurship.

As we embark on this journey of empowerment, we invite women from all walks of life to join us in realizing their entrepreneurial aspirations, breaking barriers, and shaping a future where their voices are heard, their ideas are valued, and their contributions are celebrated. Together, let us pave the way for a new generation of empowered women who are ready to make their mark on the world.

Table 14.1:
SCHEDULE OF WOMEN CENTRIC WORKSHOP

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

Sr. No.	Date	Name of the College	Time	No. of Students
1	16/08/2023	Carmel College, Nuvem	2.00 pm to 4.00 pm	142
2	01/03/2024	Home Science college, Campal	11.am to 1.00 pm	120

Workshop Conducted



02

Total Participants



In line with its commitment to fostering entrepreneurship and empowering women, the Goa State Innovation Council (GSInC) organized two Women Centric Workshops at Carmel College in Nuvem and Home Science College in Campal. The workshop at Carmel College took place on August 16, 2023, from 2:00 pm to 4:00 pm and was attended by 142 students.

The session at Home Science College was held on March 1, 2024, from 11:00 am to 1:00 pm, with a participation of 120 students. These workshops aimed to inspire women to pursue entrepreneurship and innovation by providing them with the necessary knowledge and resources. Participants engaged in seminars and interactive activities designed to foster creativity and develop entrepreneurial skills.

Through these initiatives, GSInC continues to empower women and create an ecosystem conducive to their growth and success.

Photograph 14:
WOMEN CENTRIC WORKSHOPS



Photograph:
WOMEN CENTRIC WORKSHOPS



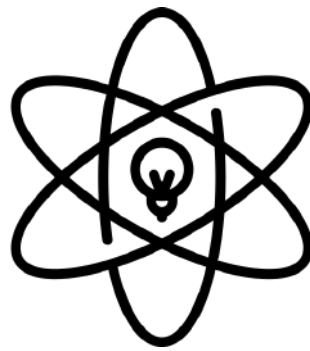
Photograph:
WOMEN CENTRIC WORKSHOPS



Photograph:
WOMEN CENTRIC WORKSHOPS



15



**INDIA
INTERNATIONAL
INNOVATION &
INVENTION EXPO
[INEX]**

CHAPTER 15

INDIA INTERNATIONAL INNOVATION & INVENTION EXPO [INEX]

“Invention is the most important product of man's creative brain. The ultimate purpose is the complete mastery of mind over the material world, the harnessing of human nature to human needs.”

NIKOLA TESLA

15.1 INTRODUCTION

Goa State Innovation Council, under the auspices of the Department of Science, Technology & Waste Management, Government of Goa, hosted the India International Innovation & Invention Expo (INEX) 2023, a groundbreaking event poised to ignite creativity, inspire innovation, and drive technological advancement on both national and international scales.

Conducted on the 9th and 10th of November 2023 at the prestigious Auditorium Hall, 2nd Floor, Don Bosco College of Engineering, Fatorda, Goa, INEX 2023 helped sculpt the landscape of innovation and entrepreneurship in Goa and the rest of the country.. Building on the success of its predecessors, INEX 2023 showcased cutting-edge technologies, foster collaboration among industry leaders, and catalyze the exchange of groundbreaking ideas. From breakthrough inventions to revolutionary industrial technologies, INEX 2023 was a melting pot of creativity and ingenuity, driving forward the frontiers of innovation.

The INEX 2023 had a diverse lineup of events including expert sessions, panel discussions, and interactive workshops to empower innovators, nurture talent, and unlock the potential of tomorrow's leaders.

15.2 STATUS REPORT



INEX 2023

- **9th & 10th November 2023**
- **Exhibition at Auditorium hall, 2nd floor, Don Bosco College of Engineering, Fatorda-Goa.**
 - International Innovators
 - Indian Innovators
 - Local Innovators
- **Sessions at Auditorium hall, 1st floor, Don Bosco College of Engineering, Fatorda-Goa.**
 - Expert Sessions
 - Panel Discussion

Invitation to Schools & Colleges for INEX

	DAY 01		DAY 02	
	School	Colleges	School	Colleges
Number of Institutions	40 from North Goa	10 from North Goa	40 from South Goa	10 from South Goa
No. of Participants per institutes	30 students	55 students	30 students	55 students
Total participants expected per day	1200	550	1200	550



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

No. GSInC/2023-24/41

16/10/2023

To,
The Principal

Dear Sir,

THE INDIA INTERNATIONAL INNOVATION & INVENTION EXPO (INEX) 2023 will be organized in the city of Margao, Goa, India under the State Government of Goa's patronage. INEX 2023 is supported by various Ministries, Industry associations and premier Indian R&D Institutes.

INEX is organised by Indian Innovators Association, India and IBS GLOBAL, Poland under the honourable patronage of the Goa State Innovation Council. 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 of Polish origin in India. We will follow all leads generated in INEX 2023 to convert them into business.

India International Innovation & Invention Expo 2023 will take place from 09th to 11th November 2023 at the Don Bosco College of Engineering, Fatorda, Margao -Goa.

- Students from North Goa schools can attend on 9th November, 2023
- Students from South Goa schools can attend on 10th November, 2023

The schools are requested to mail the list of attendees before the visit.

Kindly confirm your participation and coordinate with Shri Sudip Faldesai, Project Officer at GSInC (9886270270 & projectofficer@gsic.in) for more information. The INEX 2023 Brochure and Schedule is enclosed.

Sincerely yours,


Sudip Faldesai
Project Officer



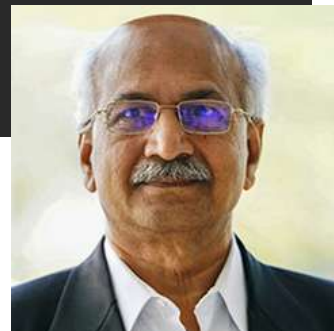
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Photograph 15.1:
BROCHURE OF INEX 2023





MESSAGE FROM THE PRESIDENT, IIA



Greetings to all,

We invite you to participate in the India International Innovation and Invention Expo INEX 2023.

Since 2016, the Indian Innovators Association (IIA) has been organizing international invention and innovation expos, presenting annually over 300 solutions from 30 countries 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 2023 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 09-11 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) 2023, to be held successively for the second year in Goa.

Building upon the resounding success of INEX 2022, 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 2023 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 2023 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
Chairman, Goa Public Service Commission



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contact@ibsglobal.pl; indiainex@gmail.com
+91 90321 95562 , +48 799 040 774
www.inex-india.com



ABOUT THE EVENT



The 8th edition of India International Innovation & Invention Expo will be organized in Goa, in the city of Margao on November 09-11, 2023, 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 2023" will be published during the expo.



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INEX 2023 SCHEDULE



DAY 1 (08.11.2023)

12:00 - 15:00 - Setup and Arrangements

DAY 2 (09.11.2023) - INEX 2023 INAUGURATION

11:00 - 11:30 - INEX 2023 Inauguration

11:30 - 11:45 - Innovation Year Book 2023 Launch

12:00 - 17:00 - evaluation of inventions by an jury panel

12:00 - 17:00 - Visiting hours for public

DAY 3 (10.11.2023) - INEX 2023

11:00 - 15:00 - evaluation of inventions by an jury panel

11:00 - 17:00 - Visiting hours for public

Day 4 (11.11.2023) - INEX 2023 Award Ceremony

10:00 - Expo opening time.

10:30 - 11:00 - Panel Discussion on Importance of Innovation Expositions

11:00 - 12:00 - INEX 2023 Award Ceremony

DAY 5 (12.11.2023) – 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 indiaisex@gmail.com
on or before 20-10-2023**

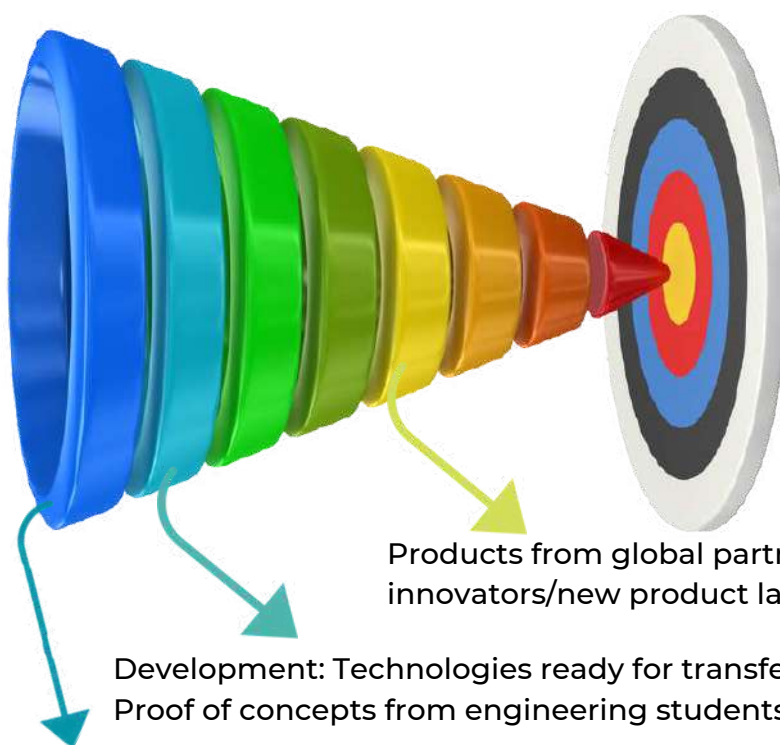
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www.inex-india.com



INEX 2023 "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.

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INEX GALLERY

INEX INDIA



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Photograph 15.2:
INEX BROCHURE LAUNCH ON 25TH OCT 2023



Photograph 15.3:
DAY 1 - INEX 2023 INAUGURATION PROGRAM



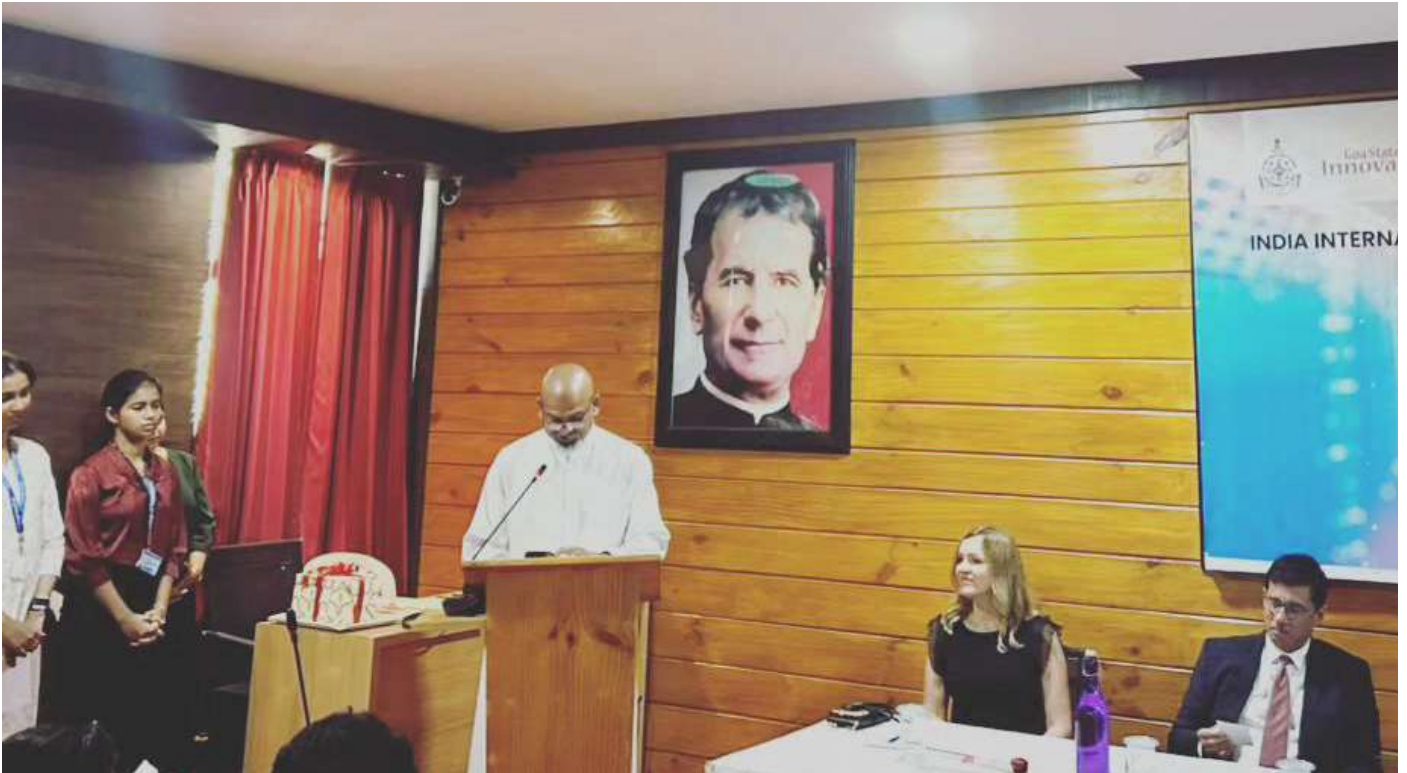
DAY 1 - INEX 2023 INAUGURATION PROGRAM



DAY 1 - INEX 2023 INAUGURATION PROGRAM



DAY 1- INNOVATION YEAR BOOK 2023 LAUNCH



DAY 1 - DELEGATES FROM POLAND AT INEX EXHIBITION



DAY 1 - VISITORS AT INEX EXHIBITION



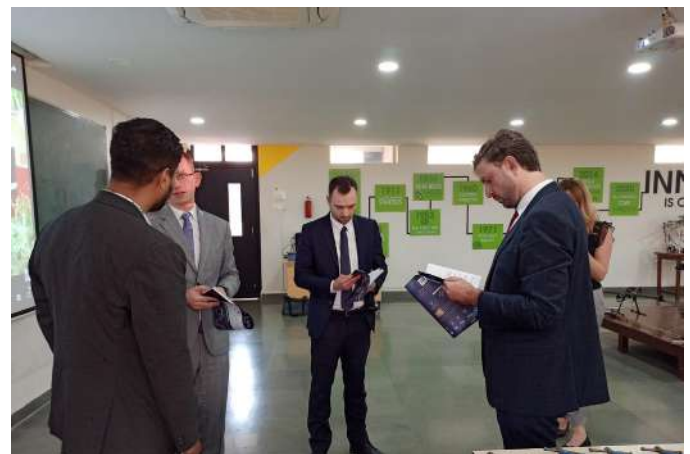
DAY 1 - VISITORS AT INEX EXHIBITION



DAY 1 - VISITORS AT INEX EXHIBITION



Photograph 15.4
DELEGATES AT RAPID PROTOTYPING LAB



DELEGATES AT RAPID PROTOTYPING LAB



DELEGATES AT RAPID PROTOTYPING LAB



VISITORS AT RAPID PROTOTYPING LAB



VISITORS AT RAPID PROTOTYPING LAB



Photograph 15.5:
DAY 2 - SHRI JOSE MANUEL NORONHA - CHAIRMAN, GSINC ALONG WITH OTHER MEMBERS
INTERACTING WITH PAIH (POLISH INVESTMENT AND TRADE AGENCY)



DAY 2 - SHRI JOSE MANUEL NORONHA - CHAIRMAN & DR. LEVINSON MARTINS - MEMBER SECRETARY
INTERACTING WITH PAIH (POLISH INVESTMENT AND TRADE AGENCY)



DAY 2 - SHRI JOSE MANUEL NORONHA - CHAIRMAN, GSINC HOSTING DINNER FOR INTERNATIONAL
DELEGATES AT INEX 2023



DAY 2 - SHRI JOSE MANUEL NORONHA - CHAIRMAN, GSINC PRESENTED WITH
A BOUQUET OF FLOWERS BY REV. FR. KINLEY D'CRUZ



DAY 2 - EXPERT SESSION FOR STUDENTS



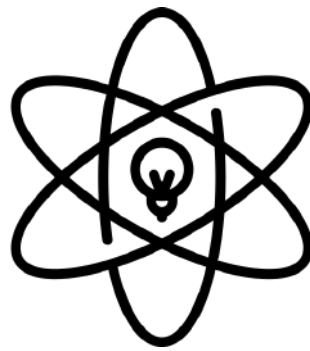
Photograph 15.6:
DAY 3 - PANEL DISCUSSION



DAY 3 - PANEL DISCUSSION



15



**OTHER
ACTIVITIES**

CHAPTER 16

OTHER ACTIVITIES

“Innovation distinguishes between
a leader and a follower.”

STEVE JOBS

16.1: SCI-FFI-2024

Goa State Innovation Council (GSInC) left an indelible impression at SCI-FFI 2024, captivating students from various corners of Goa with the marvels of 3D printing. Held from January 30 to February 2, 2024, SCI-FFI served as a platform to ignite curiosity, spur creativity, and instill a fervor for innovation among the youth.

At the event, GSInC showcased the transformative potential of 3D printing technology, illustrating how it can revolutionize industries and drive progress. Through interactive exhibits, hands-on demonstrations, and engaging workshops, students were introduced to the limitless possibilities offered by 3D printing.

With over 1000 students in attendance, the expo provided a dynamic environment for learning and exploration. Participants had the opportunity to witness firsthand the intricacies of 3D printing, from design conception to final product realization. They were encouraged to unleash their imagination, experiment with different designs, and push the boundaries of innovation.

By fostering a passion for technology and entrepreneurship, GSInC's presence at SCI-FFI 2024 underscored its commitment to nurturing the next generation of innovators. Through initiatives like this, GSInC continues to inspire young minds, empowering them to shape the future through innovation and creativity.

Photograph 16.1:
SCI-FFI 2024



SCI-FFI 2024



SCI-FFI 2024



16.2: DEVFEST 2023

On 25th November 2023, GSInC invited Entrepreneurs, Innovators, and Developers for Devfest Goa 2023, a phenomenal Startup Expo where groundbreaking ideas came to life. Attendees explored innovative startups, products, and services at the dedicated expo zone. Entry was FREE for Startup Expo Attendees! They dived into Roadmaps: Discovered the path to becoming a developer and had all their questions answered. They engaged in Networking Sessions: Connected with like-minded attendees, speakers, and community leaders. They unlocked Job Opportunities: Met recruiters on the lookout for talent like them.

Over 200 attendees from all over India, 10+ inspiring speakers, a buzzing mini expo, and countless connections were forged. That's what DevFest Goa 2023 was all about.

Photograph 16.2:
DEVFEST GOA 2023



16.3: CHAKRAVAT 2023

The Annual Joint HADR Exercise 2023 (AJHE-23) 'CHAKRAVAT' hosted by Indian Navy at Goa from 09-11 Oct 2023, concluded with a Multi-Agency Capability Demonstration at Mole Berth, within the Port of Mormugao, to showcase drills on rescue and relief. Teams from NDRF, Indian Navy, Indian Air Force, Indian Coast Guard and State Fire Services, Goa participated in the demonstration.

Demonstration by National Disaster Management Authority (NDMA), National Disaster Response Force (NDRF), National Institute for Disaster Management (NIDM), Indian Army, Indian Navy, Indian Air Force, Coast Guard, India Meteorological Department (IMD), National Remote Sensing Agencies (NRSA), State Disaster Management Agency (SDMA) and State Fire Services, Goa, District Disaster Management Agency (DDMA) of North and South, Goa, Indian National Centre for Ocean Information Services (INCOIS), Central Water Commission (CWC), Defence Research and Development Organisation (DRDO) and representatives from Federation of Indian Chambers of Commerce and Industry (FICCI). Representatives were also present from eight friendly foreign countries viz. Comoros, Madagascar, Maldives, Mauritius, Mozambique, Seychelles, Sri Lanka and Tanzania.

The Prototyping Lab set up a stall in collaboration with Indian Army, where we showcased our drones that can be used for transportation of medicines, food, ammunition, etc, Ariel surveys and mapping .

Photograph 16.3:
CHAKRAVAT 2023

Rapid Prototyping Lab Team with Rear Admiral - Shri Rajaram Swaminathan, Indian Navy



CHAKRAVAT 2023



16.4: 2ND DESTINATION GOA 23

2nd Destination Goa'23" supported by Government of GOA, showcased various Flagship Programmes of Central and State Government, latest trends, opportunities and innovations in fields of Infrastructure Development, Agriculture, Farmer's welfare, Entrepreneurship development, Education, Skill Development, Research & Development, Rural Technologies & Innovations, Medium and Small Enterprises at State, District, and Village levels for grass-root development. It was held on 13th, 14th and 15th of September at Taleigao Community centre, Goa. The event was inaugurated by the hands of Shri. Sadanand Shet Tanavade (MP Rajya Sabha), Shripad Naik (Minister for Tourism and Ports, Shipping and Waterways Govt. Of India), Shri Vinay Tendulkar (Ex MP Rajya Sabha), and the closing ceremony was held on 15th September by our Chief Minister Dr. Pramod Sawant

The Prototyping Lab showcased the world of innovation by setting up a stall with 3D Printing , Robotics, IOT devices and Drone technologies.

Photograph 16.4
2ND DESTINATION GOA

2nd Destination Goa' 23
13th, 14th & 15th September 2023
Taleigao Community Centre, Goa

Focus

- Research & Development
- Health & Family welfare
- Infrastructure Development
- Agriculture & Food Processing
- Environment & Forest
- Handlooms & Handicrafts

Theme Pavilion

- Special Display on Currency & Commemorative Coins.
- Special Display on 75 Years of Independence-India's Achievements in Science & Technology
- Special Display on Atma Nirbhar Bharat
- Attractive Display of eco friendly Products

ENTRY FREE

Aavishkaar Exhibition & Promotion Pvt. Ltd.
RA - 988913693107, 9881900602

2ND DESTINATION GOA



16.5: MANOHAR PARRIKAR VIDNYAN MAHOTSAV AT DBCE

The Manohar Parrikar Vidnyan Mahotsav, organized by the Department of Science, Technology, and Waste Management, Government of Goa, was a remarkable event held on December 13th, 2023. Streaming live on Facebook Live, this virtual gathering brought together enthusiasts, scholars, and innovators from around the world to celebrate the spirit of science and innovation.

From 09:00 am onwards, participants immersed themselves in a day filled with enlightening discussions, captivating presentations, and insightful demonstrations. The event served as a testament to Goa's commitment to fostering scientific curiosity and promoting technological advancements.

Through engaging sessions and interactive forums, attendees had the opportunity to explore cutting-edge research, discover emerging trends, and exchange ideas with experts in various fields. From breakthrough discoveries to practical applications, the Manohar Parrikar Vidnyan Mahotsav showcased the remarkable contributions of science and technology to society.

As we reflect on this momentous occasion, we honour the legacy of Shri Manohar Parrikar, a visionary leader who championed innovation and education in Goa. His spirit lives on through events like the Vidnyan Mahotsav, inspiring future generations to push the boundaries of knowledge and embrace the wonders of science.

Photograph 16.5:

MANOHAR PARRIKAR VIDNYAN MAHOTSAV 2023



MANOHAR PARRIKAR VIDNYAN MAHOTSAV 2023



16.6: STARTUP INNOVATION ACCELERATION WORKSHOP

Welcome to the Startup Innovation Acceleration Workshop hosted by the Goa State Innovation Council (GSInC), titled "Practical Innovation Framework for Innovators to Build a Successful Business." This workshop serves as a comprehensive guide for startups and innovators, aiming to equip them with the essential skills and knowledge needed to thrive in the dynamic world of entrepreneurship.

With a focus on practicality and real-world application, this workshop provides participants with a holistic understanding of various innovation aspects crucial for building a successful business. From ideation to execution, attendees will learn how to navigate the intricacies of the innovation process and leverage innovative strategies to scale their ventures effectively.

The primary objective of this workshop is to upscale startups and innovators, empowering them with the tools and insights necessary to transform their ideas into thriving businesses. Through interactive sessions, case studies, and expert insights, participants will gain invaluable knowledge about innovation frameworks, market strategies, and sustainable growth practices.

IBS GLOBAL

Goa State Innovation Council

Practical Innovation Framework for Innovators to Build a Successful Business

- Real-World Problem**
- Prototype**
- Business Model Canvas**
- Market need for Innovation**
- Pitch for the Business Idea**

12th & 13th Oct 2023

9:30AM - 01:30PM

RAPID PROTOTYPING LAB
Don Bosco College of Engineering
Fatorda

+91 98221 64489 & admin@gsic.in

List of Participants

SR. NO	NAMES
1	KUSHI PARAB
2	ROSHNI KAPOOR
3	DEEVYAM D. NAIK GAONKAR
4	ARYA A. NAIK
5	PRATHAMESH D. CHANDGADKAR
6	YASH A. KURADE
7	DIVYA PEDNEKAR
8	ACHAL MORGAONKAR
9	ISHANT A. NAYAK
10	VINITA B.K
11	FIZA ABIGERI
12	ANISHA DSOUZA
13	ADITYA
14	JAIDEEP JAIRAM
15	YASHI SINGH
16	SHREYA NAIR
17	SARMAD DANGE
18	ORSON DIAS
19	PRANJALI SAMANT
20	GAYATRI G. SAVAIAKAR
21	SANDIP A. PARAB
22	MRS. NITA R. NACHIROLKAR
23	DR. SMITA AJGAONKAR NAYAK
24	MANASVIBA GOHIL

Photograph 16.6:
STARTUP INNOVATION ACCELERATION WORKSHOP



STARTUP INNOVATION ACCELERATION WORKSHOP



16.7: VISIONARY YOUTH FOR VIKSIT BHARAT EVENT

Visionary youth for Viksit Bharat event by Carmel College of Arts, Science and Commerce, Nuvem.

22ND & 23RD MARCH 2024

SCAN TO REGISTER

FOR DETAILS CONT. :
DR. FR. FREDERICK - 9822177441
DR. ANNA ROVINA FERNANDES - 9822169685

PLACE OF THE EVENT
PILAR PILGRIM CENTRE, PILAR-GOIA, INDIA, 403203

VISIONARY YOUTH FOR VIKSIT BHARAT

IDEAS, INNOVATIONS, AND INSTITUTIONS AS ENABLERS

HOSTED BY:
Carmel College of Arts, Science and Commerce for Women,
Nuvem-Goa

IN COLLABORATION WITH:
XES Fr. Agnel College of Arts & Commerce
Pilar, Goa
AND
Xavier Board of Higher Education,
Bangalore

KEYNOTE ADDRESS BY
Prof. (Dr.) R. Venkata Rao
Vice-Chancellor, India
International University of Legal
Education and Research

GUEST SPEAKERS

Dr. Vishnu Tunuguntla
Professor, Operations and IT,
Chairperson-Accreditations,
GIM, Goa

Clement D'Souza
Dean, School of Humanities and
Social Sciences,
St. Joseph's University, Bangalore

Manoj Louis
Asst. Prof, Govt First grade
College, Mangalore

Prof. Jay Chowdhury
Vice President, Herald Group
New Initiatives

PANEL DISCUSSION

MODERATOR: Dr. Manoj Kamat
Professor and Principal, DCT's S.S.
Dempo College of Commerce and
Economics

Hemant Manegowda
Vice-President, CSR,
Bangalore International
Airport Ltd

Dr. Kunal Kargankar
Asst. Professor, CDS,
Dept. BITS Pilani, Goa
Campus

Sudheep Patil
Project Officer-Goa
State Innovation Council

D.S. Prashant
CEO, Startup and IT
Promotion Cell
Govt of Goa

Achresh Kharsangate
Founder and CEO,
MARC

Dr. Rudrika Nayak
Former Principal, DCT's
S.S. Dempo College of
Commerce and Economics

KNOWLEDGE PARTNER
Herald
University of
Creativity

MEDIA PARTNER
O HERALDO

HIGHLIGHTS - 22ND MARCH

- SPARKLERS - AN IDEA PRESENTATION COMPETITION
- TRAILBLAZERS - A CAMPUS INNOVATION COMPETITION

HIGHLIGHTS - 23RD MARCH

- PANEL DISCUSSION - INSTITUTIONAL TRANSITION FROM DEGREE PRODUCERS TO VISIONARY YOUTH ENABLERS: PLANS AND STRATEGIES
- EXPERIENTIAL SESSION - RAPID PROTOTYPING LAB AT GSIC & FHRE, DBCE FATORDA



16.8: DELEGATE VISIT BY GLOBAL AFFAIRS CANADA

Shri Jose Manuel Noronha, Chairman of Goa State Innovation Council interacting with Elaine D'Souza, Deleque Commercial, Global Affairs, Canada. The following members were present : (L-R) Rev. Fr. Kinley D'Cruz and Shri DS Prashant.



Shri Jose Manuel Noronha, Chairman of Goa State Innovation Council presenting a Tribal Kunbi Shawl handwoven by local Goan artisans to Smt. Elaine D'Souza, Deleque Commercial, Global Affairs, Canada.



16.9: STARTUP INVESTOR DAY AT BITS PILANI, GOA CAMPUS

Photograph 16.9:
STARTUP INVESTOR DAY AT BITS PILANI, GOA CAMPUS



16.10: INNOVATION & GOVT SCHEME FOR MSME AT SANQUELIM

Photograph 16.10:
INNOVATION & GOVT SCHEME FOR MSME AT SANQUELIM



16.11: INREPLACE PROGRAM

Photograph 16.11:
IPE GLOBAL, INREPLACE PROGRAM



16.12: TRAINING PROGRAM ON MSME INNOVATIVE SCHEME

Photograph 16.12:
TRAINING PROGRAM ON MSME INNOVATIVE SCHEME





CHAPTER 17

FINANCE & ACCOUNTS

“Money is only a tool. It will take you wherever you wish,
but it will not replace you as the driver.”

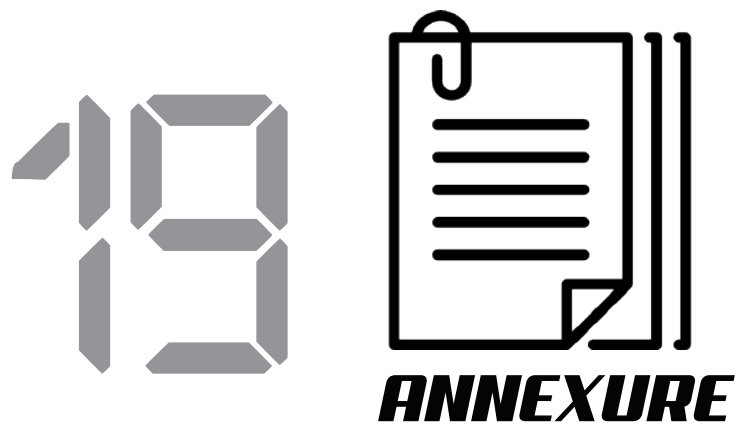
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Table 17.1: Grants and Funding Account of the Council

Sr. No.	Date	Amount	Order No.
1	20/04/2023	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/67
2	01/06/2023	Rs. 7,50,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/279
3	08/08/2023	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/637
4	22/12/2023	Rs. 6,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/1248
		Rs. 1,50,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/1249

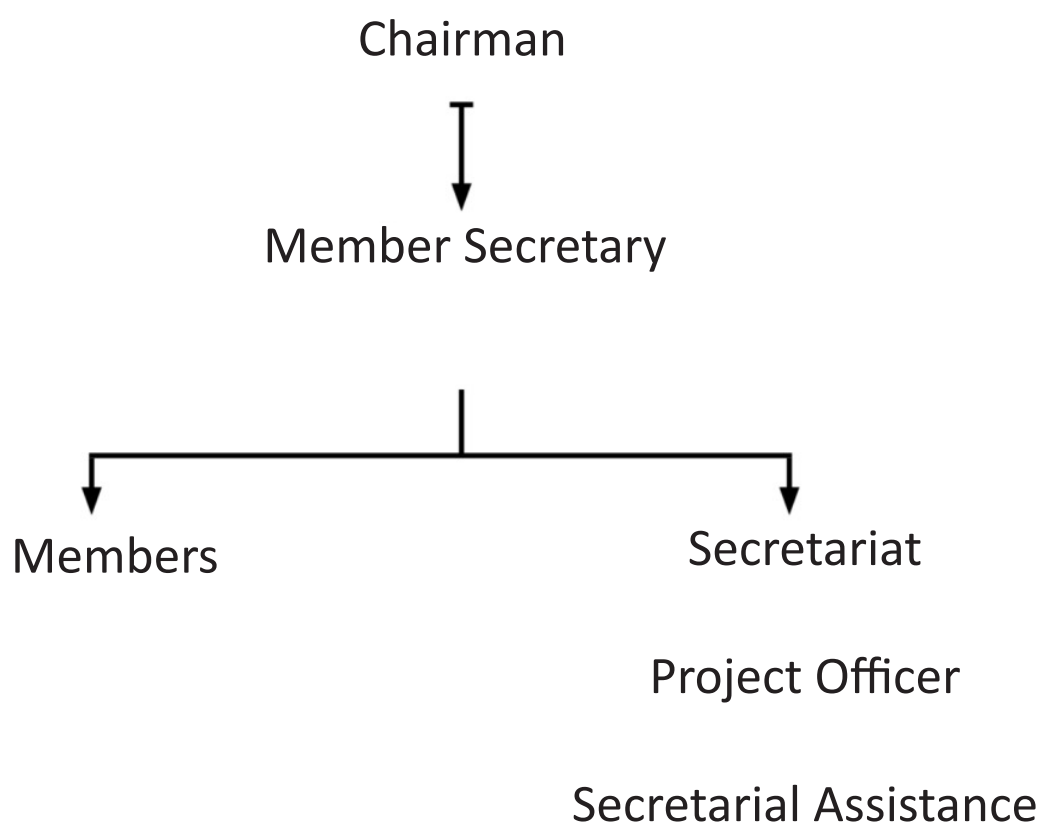
Table 17.2: Utilization Certificate of the Grant

Sr. No.	Amount	Order No.
1	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/279
2	Rs. 7,50,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/67
3	Rs. 20,00,000.00	No. 3-191-2011/14-15/STE-DIR/GSInC/Part/637
4	Rs. 6,00,000.00	In Utilisation
	Rs. 1,50,000.00	



CHAPTER 19

ANNEXURE





GOA STATE INNOVATION COUNCIL
Fatorda, Margao, Goa 403602

0832 274 4007 | admin@gsinc.in
www.goastateinnovationcouncil.com