



GOA STATE RESEARCH FOUNDATION

(Established by the Government of Goa through Act 8 of 2022)

ANNUAL REPORT 2024-25





Governing Council Meeting



Finance Committee Meeting



Faculty Development Programme



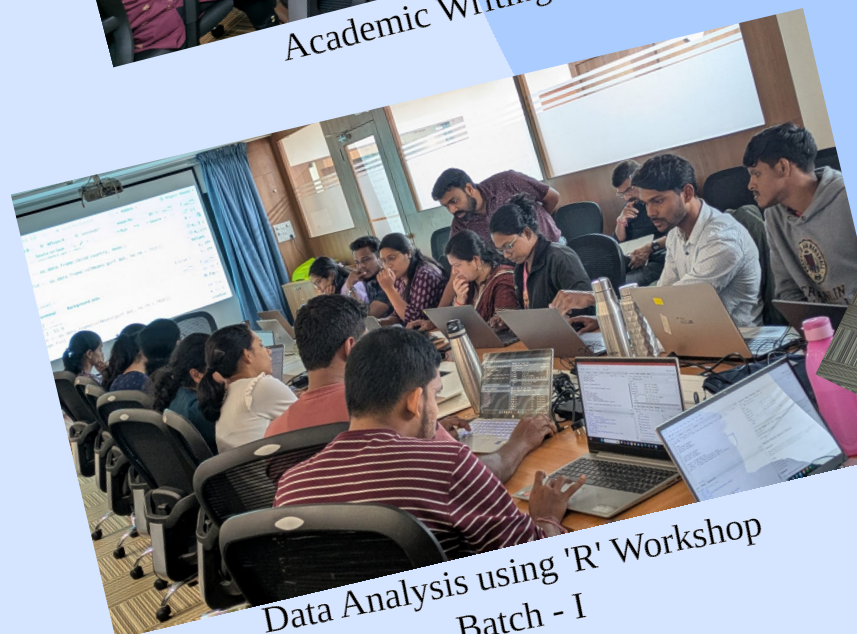
Orientation for Doctoral Fellowship beneficiaries



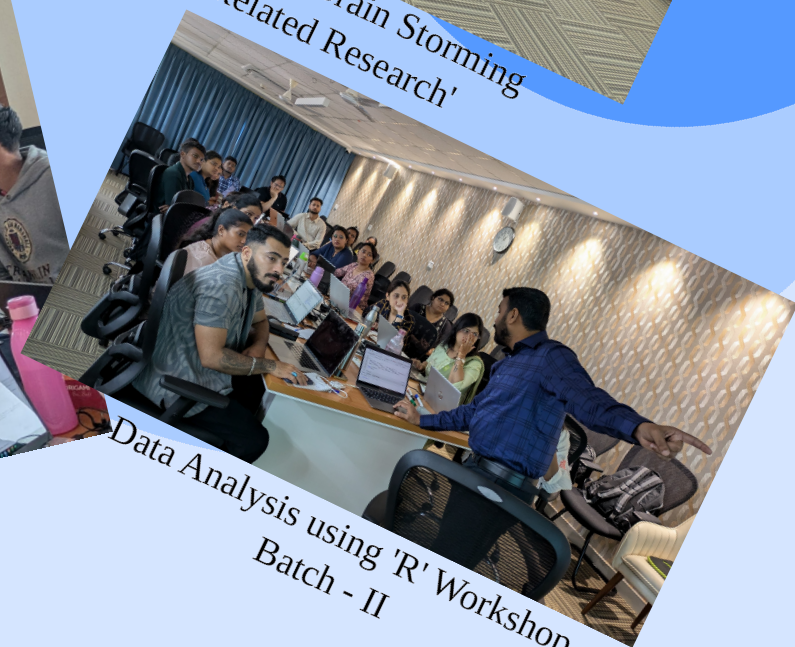
Academic Writing Workshop



Participants of "Brain Storming on Forest Related Research"



Data Analysis using 'R' Workshop Batch - I



Data Analysis using 'R' Workshop Batch - II

ANNUAL REPORT 2024-25



GOA STATE RESEARCH FOUNDATION

(Established by the Government of Goa through Act 8 of 2022)

Alto-Porvorim, Goa - 403521

Annual Report 2024-25
Goa State Research Foundation

Published in 2025 by:

The Managing Director
Goa State Research Foundation
UG-6, Upper Ground Floor,
New Market Complex, Building 'B'
Housing Board, Behind New Hanuman Temple
Swami Vivekananda Road,
Alto-Porvorim, Goa - 403521
Homepage: <https://gsrf.org.in>

GOA STATE RESEARCH FOUNDATION (GSRF)

Annual Report 2024-25

Executive Summary

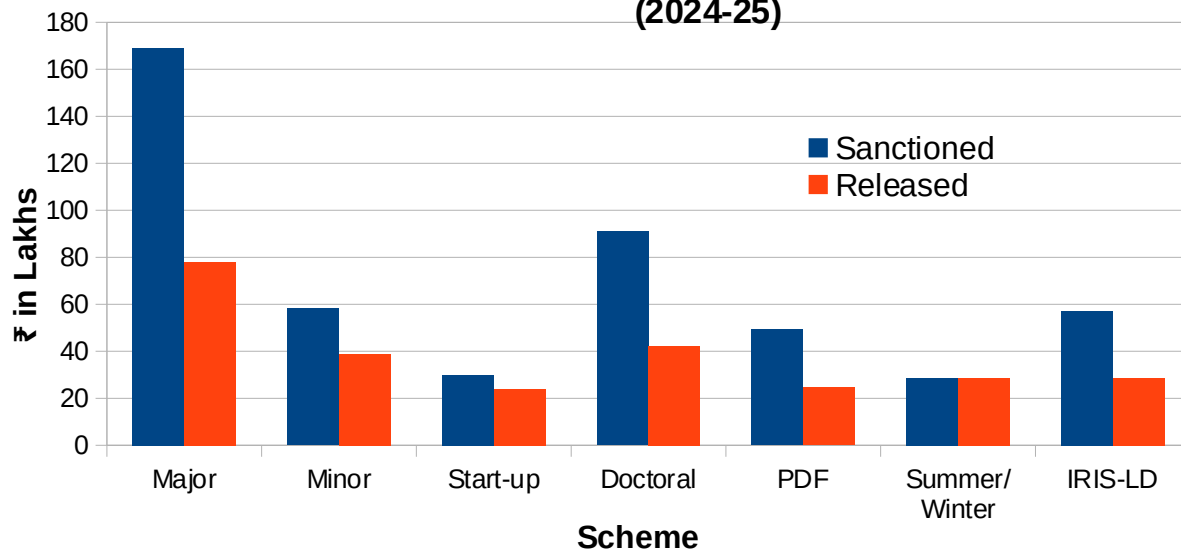
General

- GSRF started functioning from its new office in 2024-25, after shifting from SCERT on 13th March 2024.
- A total of four Governing Council meetings and three Finance Committee meetings were held.

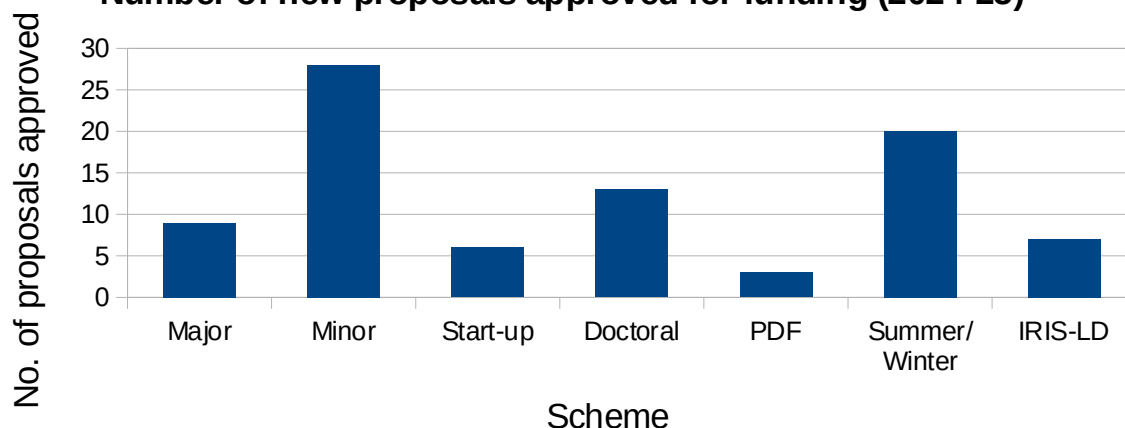
Schemes

- Apart from the disbursement of funds for the research projects sanctioned the previous year, new projects and fellowships under various schemes have been approved and funded.

Funding for new project proposals under various schemes (2024-25)



Number of new proposals approved for funding (2024-25)



- Honourable Chief Minister announced a new Scheme on “Traditional Occupations and Skills: Documentation and Research for Improving Local Livelihoods” (TOS-DRILL) on the Floor of the House for implementation by the GSRF.

Training/Workshops/Interactions/Internships/Special Talks/Visits

- Effective management of dissertation programme was conducted on a pilot scale in three different Higher Educational Institutions, including Goa University.
- Academic writing workshop was conducted for faculty members of six different colleges.
- Four days (30 hours) workshop on Data Analysis using R was conducted for PhD students of Goa (in two batches).
- A brain storming workshop for faculty members was conducted on Forest Related Research in collaboration with the Forest Department, Government of Goa.
- Faculty Development Programme (FDP) on ‘Enhancing Final Year Student Projects’, both as follow-up of FDP conducted in 2023-24 and the second edition (2024-25) was conducted.
- Organised a orientation programme for beneficiary faculty members of Major / Minor/ Start-up Grant Schemes.
- Orientation programme was organised for GSRF Doctoral Fellowship awardees.
- An interaction meeting of researchers in visualising socially relevant research proposals was conducted.
- A workshops on “Funding Schemes of Goa State Research Foundation”, for faculty members of Parvatibai Chowgule College (Autonomous) was organised with their Research Development Cell.
- A short term course on “Research Methodology in Economics and Academic writing” for PhD Scholars (Economics) was conducted.
- Five students (four from BITS Pilani and one from SP Pune University) have undergone summer internship at GSRF.
- Special talks by eminent people/experts were organised in association with other Departments.
- GSRF acted as one of the supporters of Manohar Parrikar Vidnyan Mahotsav 2024.
- Prof. Rajanish Kamat, Hon’ble Vice Chancellor of Dr Homi Bhaba State University, Mumbai visited the GSRF.

CONTENTS

S.No.	Topic	Page No.
1	Introduction	1
2	Governing Council	2
3	Finance Committee	4
4	People	5
5	Schemes	
	(a) GSRF Major Research Grant Scheme	6
	(b) GSRF Minor Grant Research Scheme	6
	(c) GSRF Doctoral Research Fellowship Scheme	7
	(d) GSRF Research Start-Up Grant Scheme	8
	(e) GSRF Summer / Winter School Scheme	8
	(f) GSRF Post-Doctoral Fellowship Scheme	9
	(g) GSRF Interdisciplinary Research Interventions Scheme for Local Development (IRIS-LD)	10
	(h) Traditional Occupations and Skills: Documentation and Research for Improving Local Livelihoods (TOS-DRILL)	11
6	Training / Workshops	
	(a) Effective Management of Dissertation	13
	(b) Academic Writing	13
	(c) Workshops	14
	(d) Courses	17
	(e) Internships	17
	(f) Special Events / Talks	18
	(g) Participation	18
	(h) Visit of distinguished guests	19
	(i) Miscellaneous	19
7	Budget	20
8	Annexures	
	I - List of approved projects under the GSRF Major Research Grant Scheme (2024-25)	21
	II - List of approved projects under the GSRF Minor Grant Research Scheme (2024-25)	22
	III - List of approved beneficiaries under the GSRF Doctoral Research Fellowship Scheme (2024-25)	25
	IV - List of approved beneficiaries under GSRF Research Start-up Grant Scheme (2024-25)	26
	V - List of approved institutes for conducting GSRF Summer/Winter School Scheme 2024-25	27
	VI - List of approved beneficiaries under GSRF Post- Doctoral Fellowship Scheme (2024-25)	28
	VII - List of approved projects under the GSRF Interdisciplinary Research Interventions Scheme for Local Development (IRIS-LD) (2024-25)	29

Introduction

Goa State Research Foundation (GSRF) was established by the Government of Goa through Act 8 of 2022. A pioneering, one of a kind (in the country) initiative of the State Government, it was one of the outcomes of the National Education Policy (NEP 2020) guidelines. With 23 different objectives enlisted under its domain, the common thread among all is the promotion of RESEARCH in all disciplines and across all levels across the State. Ever since its establishment, though nascent in age, the GSRF has endeavoured to meet its primary objective of promotion of research through notified schemes (both, grants and fellowships). Additionally, it has initiated the conduct of various research-related workshops for faculty members, research scholars and students. Presently 07 schemes (05 offering grants, and 02 fellowships) have been operationalised, with the beneficiaries of the schemes and workshops being those from Goa University Departments, Colleges, Research Centres and Schools/Higher Secondary Schools in Goa. The GSRF has additional initiative in the pipeline for the forthcoming year, with one novel scheme to be notified being the *Traditional Occupations and Skills: Documentation and Research for Local Livelihood* (TOS-DRILL).



Governing Council

Constitution

- (1) Prof. Malapati K. Janarthanam (Chairperson – GSRF)
- (2) Vice-Chairperson, State Higher Education Council
- (3) Secretary, Education, Government of Goa
- (4) Director of Higher Education, Government of Goa
- (5) Director of Education, Government of Goa
- (6) Prof. Sunil Kumar Singh, Director, CSIR-NIO, Goa
- (7) Dr. Thamban Meloth, Director, NCPOR, Goa
- (8) Dr. Parveen Kumar, Director, CCARI, Goa
- (9) Dr. Shirish Borkar
- (10) Prof. Datta B. Naik
- (11) Dr. Fr. Walter de Sa
- (12) Dr. Manguesh Gauns
- (13) Prof. Bhushan Bhave
- (14) Prof. Swaroop Joshi
- (15) Prof. Jyoti Pawar
- (16) Dr. Bhanu Manjunath, Director, Syngenta Biosciences Pvt. Ltd., Goa
- (17) Dr. Praveen Khullar, Executive Director, Vergo Pharma Research Laboratories, Goa
- (18) Dr. Kamlesh Pai Fondekar, Head, R&D, Godrej Agrovvet Ltd., Mumbai
- (19) Prof. Savio P. Falleiro (Managing Director – GSRF)

The First Governing Council was notified on June 30, 2023 (vide Official Gazette – Government of Goa; Series II No. 13)

Meetings and Decisions

Fourth Meeting of the first Governing Council: 14th August 2024

- Amendments made to existing schemes
- Appointment of Managing Director as Head of Office approved
- Approval granted for appointing security and housekeeping staff for GSRF Office
- Financial approval granted for doctoral & post-doctoral fellowships and start-up research grants (2024-25)
- Approval granted to audited statements (2023-24)
- Approval granted for altering capped numbers of applicants to be supported in various GSRF schemes
- Approval granted for ‘re-appropriation’ of unused amounts between schemes

Fifth Meeting of the first Governing Council: 18th October 2024

- Approval (including financial) granted towards IRIS-LD (batch 1), Summer/Winter School Grants and Minor Research Grant (2024-25)
- Reappointment of Accounts Officer approved for another year (Jan.-Dec. 2025)
- Approval granted for Professors/Associate Professors at GSHEC/DHE to apply under IRIS-LD scheme if they have the necessary qualifications and linkage with other appropriate academic institutions (*as adjunct faculty of Government colleges or as PhD guides under Goa University, and if the heads of such institutions provide endorsement for receiving the grant and disbursement of the same thereafter, besides providing UC at the end of the project*).

Sixth Meeting of the first Governing Council: 3rd January 2025

- Approval (including financial) granted towards IRIS-LD (batch 2) and Major Research Grant (2024-25)
- Budget estimates for the year 2025-26 approved.
- Midway discontinuation by any beneficiary to ensure full recovery of the entire amount sanctioned, excluding those cases represented by a strong justification to the need for discontinuation, to be taken by the GC on a case-to-case basis.
- Approval granted to amend item 10(3) of Act 8 of 2022 with regards to quorum of GC meetings, such that the following is added: *However, if required quorum is not there, the Meeting may be conducted with the members already present (with not less than one-third of the total number of members being present) by adjourning the same for up to 30 minutes*".
- Granted extension for submission of UCs by beneficiaries (2023-24)

Seventh Meeting of the first Governing Council: 17th March 2025

- Approval (including financial) granted towards IRIS-LD (batch 3)
- Approval granted for new scheme to be notified and implemented from 2025-26, namely, *"Traditional Occupations & Skills: Documentation & Research for Improving Local Livelihood"* TOS-DRILL.
- Approval granted to bring in select amendments with regards the following schemes (to take effect from 2025-26):
 - (i) Minor Grant Research
 - (ii) Major Research Grant
 - (iii) Doctoral Fellowship
 - (iv) Post-Doctoral fellowship
 - (v) IRIS-LD

Finance Committee

Constitution

- (1) Prof. Malapati K. Janarthanam (Chairperson – GSRF)
- (2) Prof. Savio P. Falleiro (Managing Director – GSRF)
- (3) Representative of Department of Finance, Government of Goa
- (4) Representative of Directorate of Higher Education, Government of Goa
- (5) Prof. Datta Naik (Governing Council's nominee from among its members)
- (6) Shri. Rajendra Bhobe - *Chartered Accountant* (external member)

Constituted through order no. [GSRF/Notifications/16/2023/05](#) dated 26 July, 2023

Meetings and Decisions

Third Meeting of the first Finance Committee: 12th August 2024

- Approval granted to Audited Statements / Utilization Certificates (2022-23 and 2023-24)
- Approval granted for seeking exemption u/s 12AA of IT Act 1961
- Approval granted for proposals of raising cap of numbers sanctioned for assistance within overall cap amount in case of GSRF Grant schemes and re-appropriation between schemes.

Fourth Meeting of the first Finance Committee: 5th December 2024

- Approval granted to the revised budget estimates 2024-25 and estimates for 2025-26
- Discussions initiated on DBT, Refund of Interest and TOS-DRILL scheme.

Fifth Meeting of the first Finance Committee: 11th March 2025

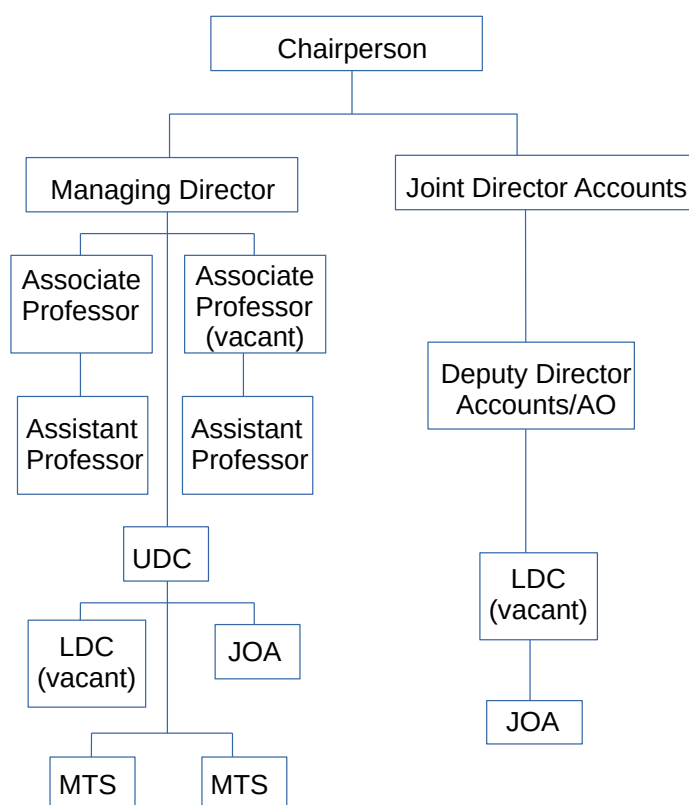
- Approval granted to the revised budget estimates for 2024-25 and estimates for 2025-26
- Extension approved by one year of the services of the Statutory Auditor (C.A.)
- Approval granted for the proposed amendments to existing schemes to take effect from 2025-26

People*

1. Prof. Malapati K. Janarthanam, Chairperson
2. Prof. Savio Da Piedade Falleiro, Managing Director
3. Ms. Liza Fernandes Pereira, Joint Director of Accounts
4. Dr. Manoj M. Ibrampurkar, Associate Professor
5. Mr. Balkrishna V. Prabhu Dessai, Accounts Officer
6. Ms. Jayada Parab, Assistant Professor
7. Mr. Klins Racias Mendes, Assistant Professor

**as of 31/03/2025*

Organisational Chart



Schemes

(a) GSRF Major Research Grant Scheme

The GSRF Major Research Grant Scheme promotes excellence in research and innovation in Higher Education Institutes in Goa by supporting research in basic, applied, interdisciplinary and multidisciplinary areas on a competitive basis. It provides financial assistance to the faculty members of Goa University and its affiliated and autonomous colleges and researchers from Goa Government-funded research institutes. Advance research that considers local needs and fosters collaboration with industry and government bodies whose benefits will ultimately reach society is being promoted. A maximum grant of ₹ 25 lakhs per project under STEM category and ₹ 15 lakhs per project under non-STEM category has been earmarked in this scheme.

A total number of 47 applications were received from the faculty members and researchers in 20 different subject areas of which 53% were received from the faculty members of the Goa University and 47% were received from the faculty members of the affiliated colleges.

The applications were reviewed by experts, mostly from recognized educational and research institutes outside the state of Goa. The review process consisted of a 10-point rating system with each parameter graded on a 10-point scale. Applications that received double positive rating were further evaluated by a 9-member Expert Committee constituted for the purpose.

The Governing Council of GSRF approved 09 applications under this scheme for financial assistance to the tune of ₹ 169.07 lakhs, of which ₹ 78.02 lakhs have been released as first installment during the financial year 2024-25. The funded projects include themes that range from pure fundamental sciences, drug development, digital literacy, technology for environmental applications to studies on the Ramsar site in Goa, iron ore studies and microplastic pollution.

(b) GSRF Minor Grant Research Scheme

The GSRF Minor Grant Research Scheme has been formulated to create and improve the general research capabilities of the faculty members of Goa University and its affiliated and autonomous colleges and researchers from Goa Government-funded research institutes. It provides financial assistance to the faculty members of Higher Educational Institutions (HEIs) in Goa and fosters their research temperament. Faculty members who wish to cultivate their basic research capacity and initiate their research journey are motivated to apply for this scheme. The scheme has been designed to promote basic research by supporting research in all disciplines. A maximum grant of ₹ 4 lakhs per project under STEM category and ₹ 3 lakhs per project under non-STEM category has been earmarked in this scheme.

The scheme received tremendous attention from faculty members and researchers since its inception. A total number of 63 applications were received in 21 different subject areas of which 30% were received from the faculty members of the Goa University and 70% were received from the faculty members of the affiliated colleges.

The review process consisted of a 10-point rating system with each parameter graded on a 10-point scale. Two subject experts were assigned to review each application, most of whom were from recognized educational and research institutes outside the state of Goa. Applications that received double positive rating were further evaluated by a 10-member Expert Committee constituted for the purpose.

The Governing Council of GSRF approved 30 projects for financial assistance of which 28 applicants took up the project. A total amount of ₹ 58.19 lakhs has been approved for these projects, of which ₹ 38.94 lakhs have been released as first installment during the financial year 2024-25. The funded projects include themes that range from agriculture, biodiversity, culinary culture, education, coastal regulations, financial independence, pollution, water quality, earth resources and mining waste management, past environment, nanotechnology and AI for preservation of seafood, drug delivery, biomedical applications, energy applications, synthesis of novel chemical compounds to alcohol abuse and childhood sexual abuse.

(c) GSRF Doctoral Research Fellowship Scheme

The GSRF Doctoral Research Fellowship Scheme has been designed to support students from the State of Goa pursuing full-time Doctoral (Ph.D.) programme by providing research fellowships. Acknowledging the need to strengthen research capacity and enhance global research competitiveness, the scheme aims to promote research across all disciplines. It offers financial assistance to young and motivated doctoral students enrolled at Goa University, its affiliated or autonomous colleges, and recognised Research Centres, enabling them to undertake research in frontier areas as part of their Ph.D. work.

Under the scheme, each selected candidate is entitled to receive a fellowship of ₹25,000 per month for a period of two years, which may be extended for a third year based on the performance of the fellow. Additionally, each Research Fellow is provided with a contingency grant of ₹25,000 per annum.

In its second year of implementation, the scheme received 16 applications from doctoral fellows registered at Goa University, various Research Centres, and Research Institutes within Goa. Notably, all applications were from the STEM fields, primarily from biological and chemical sciences.

The applications were first scrutinised by GSRF and subsequently evaluated by an Expert Committee constituted for this purpose. Based on the recommendations of the committee, the

Governing Council of GSRF approved 14 eligible applications for financial assistance. Among these, 11 applicants (79%) were female and 3 applicants (21%) were male.

A total amount of ₹22.75 lakhs was released as the first instalment to 13 applicants who accepted the sanction letter issued under the scheme.

(d) GSRF Research Start-up Grant Scheme

The GSRF Research Start-up Grant Scheme has been formulated to provide research grants to the newly recruited faculty members at the level of Assistant Professor who are research-oriented, have Ph.D. degree and have demonstrated strong research potential, as reflected in their scholarly publications. In order to head start their research activities without any delay, this grant is being provided to them at the beginning of their career to establish research set-up and start their independent research without any financial constraints. This support is expected to provide an encouraging research ecosystem in every HEI in Goa.

Under this scheme, the maximum grant is ₹ 5,00,000/- for the faculty members in the field of STEM and ₹ 3,00,000/- for the researchers from other disciplines. The tenure for this scheme is two years and the grant can be utilized for purchase of equipment, consumables, travel and other essential requirements.

Eight applications were received under this scheme for the financial year 2024-25, one from a faculty member at Goa University and seven from faculty members of affiliated colleges. Of the total eight applicants, five are female and three are male. The proposals span a range of disciplines, including Microbiology, Chemistry, Physics and Pharmacology.

The applications were scrutinized by GSRF and further reviewed by the Expert Committee constituted for this purpose. The Governing Council of the GSRF approved six eligible applications for financial support to the tune of ₹ 30 lakhs, of which ₹ 24 lakhs have been released as the first installment. All the beneficiaries are from the STEM category.

(e) GSRF Summer / Winter School Scheme

The GSRF Summer/Winter School Scheme has been designed to introduce the realm of research to school students from IX to XII standard, School and Higher Secondary teachers as well undergraduate students. The primary aim of this scheme is to expose these students and teachers to various aspects of research including, ideation, data collection and analysis, instrumentation, experimentation, exposure to software used in research and so on.

These schools make use of existing laboratory and instrumentation facilities in Goa's Higher Education Institutions (HEIs) and are conducted during summer and winter vacation periods. The programmes are either multidisciplinary, interdisciplinary, or focused on specific subject areas. The scheme is intended to foster a culture of research and curiosity among students and teachers alike.

The duration of the school organised under this scheme is between five to ten working days with a maximum support of ₹ 2,50,000/- per school.

Total 28 applications were received under this scheme during the financial year 2024-25 of which 25 applications were received from the affiliated colleges and the remaining three from the Goa University. Only 28% of the applications received were under the non-STEM category while the remaining 72% were under the STEM category.

All 28 applications underwent a thorough evaluation process. Each school coordinator was required to present their proposal before a specially constituted Expert Committee, which assessed both the content and the proposed budget of each application.

The Governing Council of the GSRF approved 20 applications received under the scheme and a total amount of ₹ 28.63 lakhs have been sanctioned and released for conducting these schools during the financial year 2024-25. Of the approved proposals, three were from Goa University and 17 were from the affiliated colleges.

(f) GSRF Post-Doctoral Fellowship Scheme

The GSRF Post-Doctoral Fellowship Scheme envisages promoting research in all disciplines by providing financial assistance to the post-doctoral fellows at Goa University and other institutes of repute within and outside Goa, to undertake research activities. The Post-Doctoral Fellows will catalyse the research environment in the State by engaging with students, Research Scholars and faculty. The scope of this Scheme is to provide Postdoctoral Fellowships to young and bright Doctorates to continue with their independent research. The award consists of a Fellowship amounting to ₹ 60,000/- (Rupees Sixty thousand only) per month and a Research grant of ₹ 1,00,000/- (One lakh only) per annum. The fellowship is tenable for a period of 2 years.

In its first year of implementation, the scheme received 13 applications.

The applications were first scrutinised by GSRF and subsequently evaluated by an Expert Committee constituted for this purpose. Based on the recommendations of the committee, the Governing Council of GSRF approved 04 eligible applications for financial assistance. Among these, 03 applicants accepted the fellowship.

A total amount of ₹24.60 lakhs was released as the first installment to the three beneficiaries under the scheme.

(g) GSRF Interdisciplinary Research Interventions Scheme for Local Development (IRIS-LD)

In line with the vision of the National Education Policy (NEP) 2020 that emphasizes the critical role of interdisciplinary and multidisciplinary research in addressing local challenges, the GSRF introduced the IRIS-LD (Interdisciplinary Research Interventions Scheme for Local Development), aimed at supporting high-quality research initiatives that focus on practical, solution-oriented outcomes. The scheme encourages researchers to engage with local bodies, industries, and government departments to find solutions that address local issues. This scheme allows researchers to respond to both thematic and non-thematic local-level concerns through their projects.

Under the IRIS-LD Scheme, assistance for a single project is capped at ₹10.00 lakhs. Funding support is structured according to the scale of the problem being addressed. Proposals targeting local, village, or panchayat-level issues are eligible for up to ₹3.00 lakhs; city or municipal-level issues receive up to ₹4.00 lakhs; district-level issues up to ₹5.00 lakhs; and those focusing on state-level or technology-driven solutions are funded up to ₹10.00 lakhs. The standard project duration under the scheme is one year from the date of sanction.

This scheme was launched for the first time in the financial year 2024–25. A total of 25 applicants, including faculty members at Goa University, affiliated colleges and scientists from research institutes in Goa, applied for this scheme and submitted concept notes of the proposals. Among the applicants, seven were female and 18 were male. The research topics spanned a diverse set of disciplines, including agriculture, computer science, botany, chemistry, electronics, education, economics, among others.

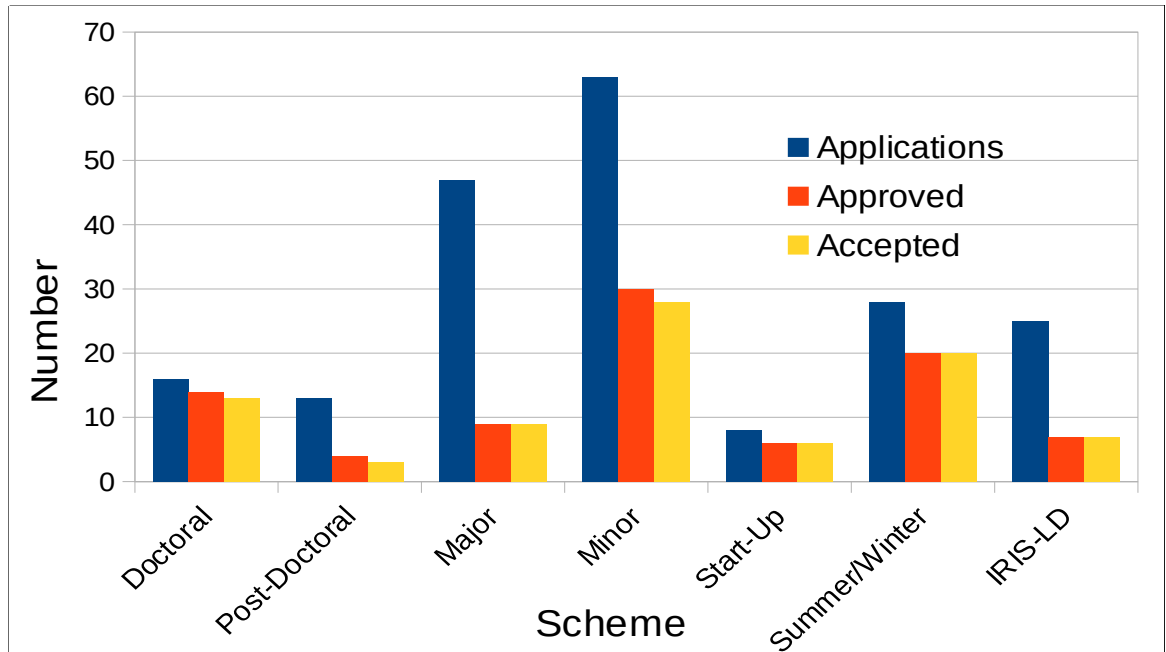
All applications underwent an initial screening by GSRF. This was followed by a detailed evaluation conducted by an Expert Committee specially constituted for this purpose. Principal Investigators were asked to present the Concept Note of the proposal before the committee and the eligible and good proposals were approved by the committee for submission of detailed proposal with suggestions of the committee incorporated. The resubmitted detailed proposals were further evaluated by the Committee and recommended for funding. After careful consideration, the Governing Council of GSRF approved seven eligible proposals for financial support. A total of ₹57.25 lakhs was sanctioned for these projects, of which ₹28.62 lakhs have already been released as the first installment. The approved beneficiaries include five faculty members from affiliated colleges, one from ICAR - Central Coastal Agricultural Research Institute (ICAR-CCARI) and one from BITS Pilani, Goa Campus. The approved proposals are dealing with issues related to agriculture, prevention of coastal erosion, prevention of vector-borne diseases, plastic pollution and health.

(h) Traditional Occupations and Skills: Documentation and Research for Improving Local Livelihoods (TOS-DRILL)

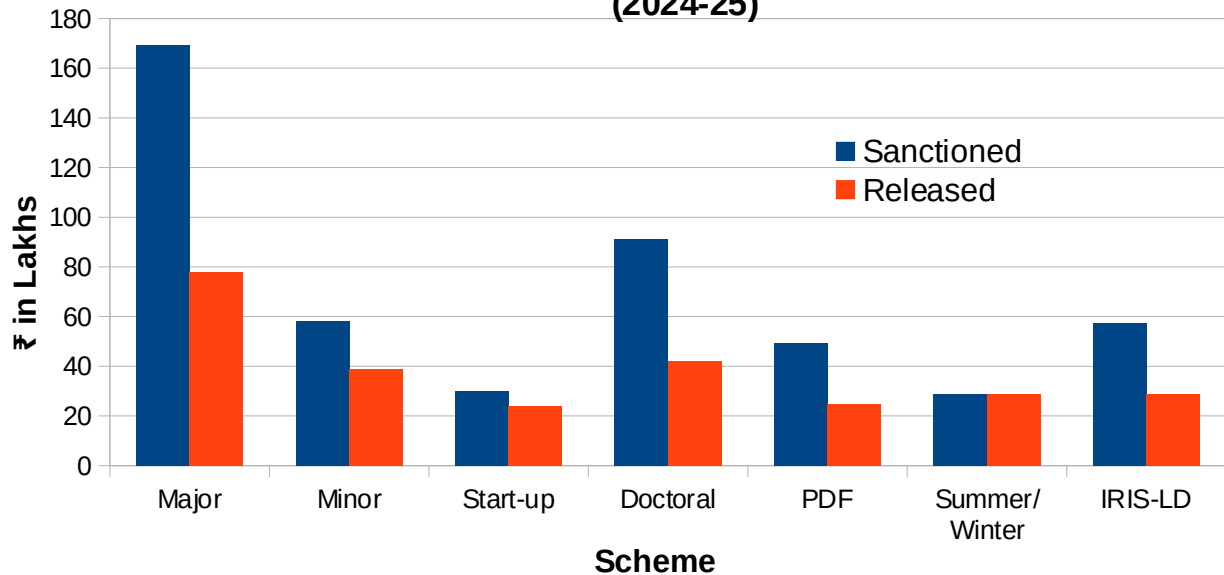
A new scheme, “Traditional Occupations and Skills: Documentation and Research for Improving Local Livelihoods” (TOS-DRILL), announced by Hon’ble Chief Minister on the floor of the house has been notified. This scheme aims to document traditional occupations and practices, to preserve as well as to revitalise the same. By combining research, documentation and practical interventions, it will be able to support sustainable livelihoods. The TOS-DRILL scheme offers financial support to regular teachers/faculty members, institutions, and experts who will collaboratively find ways to preserve and improve traditional skills, while addressing economic challenges of present times. In a financial year, the total quantum of assistance available under this scheme will not exceed ₹ 100.00 Lakhs. Though the upper limit for an individual proposal is fixed at ₹ 5.0 lakhs, depending on technological interventions/requirements, an increased amount could be considered. The tenure for projects under TOS-DRILL scheme will be 10 months. The PI, considered the primary applicant, must be a regular faculty member/teacher of a recognized educational institution or academic body in Goa, including colleges, university departments/schools, higher secondary schools and schools. Other team members can be anyone with expertise in the subject area.

A new scheme, “Traditional Occupations and Skills: Documentation and Research for Improving Local Livelihoods” (TOS-DRILL), announced by Hon’ble Chief Minister on the floor of the house has been notified. This scheme aims to document traditional occupations and practices, to preserve as well as to revitalise the same. By combining research, documentation and practical interventions, it will be able to support sustainable livelihoods. The TOS-DRILL scheme offers financial support to regular teachers/faculty members, institutions, and experts who will collaboratively find ways to preserve and improve traditional skills, while addressing economic challenges of present times. In a financial year, the total quantum of assistance available under this scheme will not exceed ₹ 100.00 Lakhs. Though the upper limit for an individual proposal is fixed at ₹ 5.0 lakhs, depending on technological interventions/requirements, an increased amount could be considered. The tenure for projects under TOS-DRILL scheme will be 10 months. The PI, considered the primary applicant, must be a regular faculty member/teacher of a recognized educational institution or academic body in Goa, including colleges, university departments/schools, higher secondary schools and schools. Other team members can be anyone with expertise in the subject area.

Status of proposals under various schemes (2024-25)



Funding for new project proposals under various schemes (2024-25)



Training / Workshops

(a) Effective Management of Dissertation

In Goa University and its affiliated colleges, dissertation at postgraduate level plays an important role in nurturing critical thinking and kindling interest in students for taking up research as a career. Academically, the dissertation carries 16 credits weightage out of 80 credits required to earn a degree. However, everyone is not in a position to carry out dissertations in an efficient manner. Most of them undergo stress due to lack of planning. Hence, a three hour session was designed for PG students to explain the purpose of dissertation, importance of it, components of a dissertation, how to deal with each of the components effectively, time management, software that would be useful, presentation of the dissertation, etc. This three hour session with a break in between was initially extended to few interested Higher Educational Institutes such as School of Biological Sciences and Biotechnology, Goa University (135 students; 5 July 2024), PG students of PES Ravi S. Naik College, Farmagudi (7 August, 2024) and PG students of DM's College and Research Centre (23 August 2024). Based on positive feedback, it is decided to extend it to maximum number of institutes in the coming year.

(b) Academic Writing

NEP 2020 aims at multidisciplinary education and critical thinking among other core areas. One of the best ways to improve critical thinking is application of theory to practice and conducting research. However, a good proportion of faculty members in the Higher Education System, especially in Colleges, are not exposed to research. When it comes to guiding students for projects and dissertations, writing skills are very important. It is also obligatory that we need to ask the right question to collect appropriate data for analysis. GSRF is trying to fill this gap by conducting half-a-day workshops. The workshops conducted were well appreciated. Following are the details of the Academic workshops conducted:

S.No.	Date	College	Resource person
1	20/09/2024	St. Xavier's College	Prof. Savio Falleiro
2	23/10/2024	Government College of Arts, Science & Commerce	Prof. M K Janarthanam
3	25/10/2024	Rosary College of Commerce and Arts	Prof. Savio Falleiro
4	26/10/2024	Carmel College of Arts, Science & Commerce	Prof. M K Janarthanam
5	25/02/2025	Don Bosco College	Dr Manoj Ibrampurkar
6	27/02/2025	Vidya Prabodhini College of Commerce, Education, Computer and Management	Prof. Savio Falleiro Dr Manoj Ibrampurkar

(c) Workshops

- **Project Management (for SY students)**

A workshop on ‘TY Project management’ was conducted by the Managing Director of GSRF Prof. Savio Falleiro and the Nodal Officer (Schemes) Dr. Manoj Ibrampurkar at the Vidya Prabodhini College of Commerce, Education, Computer and Management, Alto-Porvorim, on 28th February 2025 for the SY and TY students of the college. A total number of 115 participants attended the workshop.

The objective of the session was to provide the students with the necessary clarity about the purpose of the TY project paper and guide them with planning and execution strategies for the same. Students were provided insights into choosing a project topic, planning and preparing for the project and informed about the common mistakes made by students. They were asked to set clear objectives, follow standard methodology and writing guidelines. They were asked to undertake extensive literature review in their respective subject before selecting the topic. The session was followed by an interactive session.

- **Workshop on GSRF Schemes**

A workshop on “*Funding Schemes of Goa State Research Foundation*” was organised for faculty members in collaboration with the Research Development Cell, Parvatibai Chowgule College (Autonomous), Margao (20th February 2025). Resource person was Prof. Savio P. Falleiro (MD-GSRF).

- **Four Day (30 h) Workshop on *Data Analysis using R***

A good research also involves robust data collection methods, analyses and presentation of data and use of statistics. It is found that generally people are weak in this area resulting in research not getting published in top journals. Hence, GSRF decided to provide training on ‘*Data Analysis and Statistical Power using R*’ for PhD students in Goa with an aim to enhance the participants' skills in advanced data analysis techniques and statistical methods using the R programming language. With over 75 registrations received the Four Day (30 h) workshop was conducted batchwise for more personal level interactive teaching-learning. Totally, 39 dedicated research scholars representing diverse academic disciplines actively participated. The first batch underwent training from 13 to 16 January, 2025 and the second batch from 11 to 14 February, 2025. Each session combined theoretical knowledge with hands-on training, ensuring that attendees gained practical expertise in applying statistical methods to their respective research domains.

Dr. Pronoy Baidya, an expert in ecology and statistical computing and data analysis, served as the resource person for this enriching workshop. With his extensive knowledge and practical insights, Dr. Baidya guided the participants through various concepts, including

collection of statistically robust data, data cleaning, data visualization, predictive model building, regression analysis, and statistical power analysis. The feedback from participants was overwhelmingly positive. Many participants expressed their gratitude for the interactive and hands-on learning experience, which enhanced their ability to apply statistical analysis techniques in their research.

- **Brain Storming on Forest Related Research**

The forest department has control over a vast area of land in Goa and manages, monitors, and conserves the natural wealth of Goa. It is also promoting research in identified priority areas with limited funding and by providing permission to conduct research in our Wildlife Sanctuaries and National Parks. The higher education system of Goa University, its affiliated and autonomous colleges, and several private institutes and Universities with their trained, professional human resources can contribute to a larger extent on forest-related research. Students at the undergraduate level carry out projects, and at the postgraduate level the dissertations. Despite having such potential, there is a research gap in plant taxonomy, ecology, wildlife, vegetation and climate change-related work.

Hence, GSRF partnered with the Forest Department and a one day brain-storming session on *Forest Related Research in Goa* was organised on 13th December 2024 from 9:30 am to 5:30 pm in the GSRF conference room. A total of 45 faculty members from different higher educational institutes attended the workshop. Senior Forest officers (Shri. Praveen Kumar Raghaw, IFS, Additional PCCF, Shri. Naveen Kumar P., IFS, CF and Smt. Tejaswini Pusuluri, IFS, DCF) attended, addressed the faculty and participated in a panel discussion answering and clarifying an array of questions. The session was highly interactive, with participants actively engaging, sharing insights, and seeking clarifications on various aspects of the discussion.

Dr. Pronoy Baidya, a distinguished ecologist with extensive experience in Goa's forests and the resource person of the workshop, underscored the untapped opportunities in forest research and addressed the critical challenges faced by researchers, including the demanding nature of fieldwork, safety concerns, and procedural complexities involved in accessing forested areas. Dr Baidya, led brainstorming session by dividing them into five groups. The 'World Cafe' approach followed yielded very good results. To enrich the discussion and support the findings of the group activity, Shri Sujeet Kumar Dongre, an expert member of the Goa Coastal Zone Management Authority (GCZMA), provided valuable insights, suggestions, and clarifications to each group, further enhancing the depth and quality of the research proposals. Shri. Dongre, offered his reflections on the workshop and its outcomes as concluding remarks. The workshop successfully brought together 45 faculty members from diverse academic disciplines and senior officials of the Forest Department to discuss, brainstorm, and chart a path forward for forest research in Goa. It was a step toward bridging the existing research gap and fostering a culture of collaborative conservation efforts in the state.

- **Faculty Development Programmes (FDP)**

- (i) **Follow-up FDP on 'Enhancing Final Year Student Projects':**

During 8th to 16th June, 2023, a Faculty Development Programme for Faculty Members of Colleges without PhD degree was conducted towards “Enhancing Final Year Student Projects”. It was a joint initiative of GSRF, DHE and GSHEC. A follow-up was organised during 24th April, 2024 and 30th August, 2024 to provide further support and reinforcement of the strategies and procedures that were introduced to them in the previous session held in June 2023. A total of 20 faculty members attended the event. The projects guided by them were thoroughly discussed for further improvement. Prof. Vithal Tilvi, Prof. Mahesh Majik, Prof. Malapati Janarthanam, Prof. Savio Falleiro and Dr. Manoj Ibrampurkar participated and guided the discussions.

- (ii) **Second Edition of FDP on ‘Enhancing Final Year Student Projects’**

During 2023-24, a massive Faculty Development Programme specifically targeting the faculty members of Undergraduate Colleges without Ph.D. was conducted with the aim of enhancing their capability to effectively guide the Final Year projects. Four hundred and thirty two faculty members participated in the training. This year, the Faculty Development Programme (FDP) titled “*Enhancing Final Year Project II*” was floated to give an opportunity to the teachers who could not attend the previous year and also the newly joined faculty who do not have research exposure ie. without PhD. The programme was organised on the 2nd and 3rd of September 2024 at the GSRF Conference Room, Porvorim, Goa. A total of 39 faculty members representing a diverse range of academic disciplines from various aided colleges across Goa participated in the programme. Prof. Malapati Janarthanam, Prof. Savio Falleiro and Dr. Manoj Ibrampurkar acted as Resource Persons.

- **A Orientation programme for GSRF Doctoral Fellowship awardees**

An Orientation programme was organised by GSRF for the beneficiaries of the GSRF Doctoral Fellowship scheme for the year 2024-25 on 6th February, 2025 at the Conference Hall. The purpose of the programme was to provide the necessary advance guidance to the beneficiaries regarding various requirements with respect to the timely release of the fellowship. They were explained the procedures to be followed, reports to be submitted, pre-receipts to be submitted and utilisation certificates to be submitted. It was emphasized to submit all the necessary documents on time for timely release of the next installment. Prof. Malapati Janarthanam, Prof. Savio Falleiro, Smt. Liza Fernandes Pereira and Dr. Manoj Ibrampurkar provided orientation on various aspects.

- **Interactive Session for the beneficiaries of Major, Minor and Start-Up Grants Schemes**

The Goa State Research Foundation (GSRF) organised an Orientation Programme for the beneficiaries of the GSRF Major, Minor and Start-Up Grants Schemes for the year 2024–25 on 5th February 2025 at the Conference Hall of the Foundation. The session was conducted by the officials of the Foundation. The primary objective of the programme was to provide beneficiaries with essential guidance regarding the project implementation processes and

requirements. Detailed instructions were given on the submission of progress reports, pre-receipts, and utilisation certificates. Emphasis was laid on the timely submission of all required documents to ensure the prompt release of subsequent installments. Prof. Savio Falleiro, Smt. Liza Fernandes Pereira and Dr. Manoj Ibrampurkar provided orientation on various aspects.

- **Interaction meeting with researchers in visualising socially relevant research schemes**

An interactive meeting on the “*Interdisciplinary Research Intervention Scheme for Local Development*” was held on 14th November 2024 at 3:00 PM in the GSRF Conference Room. The session brought together 35 participants which included 13 faculties from six different disciplines of Goa University and 22 faculties from its 12 affiliated Institutions to discuss the scheme's objectives, eligibility criteria, and application process. The meeting aimed to foster engagement and clarify queries regarding the scheme, to assist participants with inputs/tips to ensure good quality submissions of proposals, and to have a better chance of acceptance and subsequent funding.

Emphasis was put on the significance of interdisciplinary research in addressing local challenges and fostering sustainable development. In addition, vision behind the scheme was explained and active participation was encouraged. Weaknesses of earlier proposals were highlighted, which prevented the proposals from being considered for funding. The participants were then invited to introduce themselves. This provided an opportunity to understand the diverse expertise and interests present in the room.

A brief introduction to the scheme's objectives, scope, eligibility, and operational framework was provided. Interactive discussion that followed addressed the queries raised by the participants. Resource persons were Malapati Janarthanam, Prof. Savio Falleiro, Smt. Liza Fernandes Pereira and Dr. Manoj Ibrampurkar provided orientation on various aspects.

(d) Courses

A short term Certificate Course on “*Research Methodology in Economics and Academic Writing*” for PhD Scholars (Economics), was organised in collaboration with Government College, Sanquelim (18th March 2025 - 12th April 2025). The course was held at GSRF, Porvorim and Government College, Sanquelim. Resource persons were senior faculty members from Department of Economics of different colleges, with Prof. Savio Falleiro (Managing Director, GSRF) being one of the resource persons as well.

(e) Internships

GSRF, having moved to its new office space, consented to take summer interns during the summer of 2024. Four B.E. students (Ms. Amruta Shivlingappa, Mr. Hrishabh Kumar Jha, Mr. Jangam Vamsi Preetham and Ms. Richie Singh) from different campuses of BITS Pilani

from 28th May to 23rd July, 2024. GSRF with their help tried the possibility of establishing an Open Source Journal and going for a database of faculty members in Goa. In addition, Mr. Abishek Kamat, M Sc Geology student from Savitribai Phule, Pune University also joined for his Summer internship (15.05.2024 - 10.06.2024). All these five students were provided internship without any financial burden on GSRF.

(f) Special Events / Talks

(i) Interactive session with internationally-renowned pioneer on 'Sustainability', Dr. Ashok Khosla (Chairman, Development Alternative, and Founding Co-Chair of the United Nations International Resource Panel), at GSRF, Porvorim, on 30th August 2024, organized by the Directorate of Higher Education, Govt. of Goa (DHE), in association with GSRF, Goa State Higher Education Council (GSHEC) and Centre for Environmental Education (CEE). The talk was attended by faculty members, invitees, officers from government departments and others.

(ii) Talk delivered by Dr. Anuja Vats (NTNU - Norway) on the theme "*Explainable AI: Bridging Trust and Transparency in Wireless Capsule Endoscopy*", organized by GSRF, Porvorim, in association with the Goa State Higher Education Council (GSHEC) / Directorate of Higher Education (DHE) on 12/12/2024.

(iii) Talk on the title 'Gender Equality: Empowering Women in the Workplace' on the occasion of International Women's Day was organized by the Internal Committee of Goa State Research Foundation (GSRF) on 12th March 2025. The talk was delivered by Prof. Vrinda Borkar, a distinguished member of the Goa State Commission for Women. The event coordinated by Mrs. Liza M. Fernandes Pereira, Presiding Officer of Internal Committee and Joint Director of Accounts was attended by 32 participants, including staff members from the Software Development Cell (DHE), Officials from Directorate of Higher Education (DHE) and the Office of the State Commissioner for Persons with Disabilities, and GSRF.

(g) Participation

- **Manohar Parrikar Vidnyan Mahotsav 2024**

The Department of Science, Technology & Waste management, Government of Goa celebrates Manohar Parrikar Vidnyan Mahotsav (MPVM) every year on Late Chief Minister Shri Manohar Parrikar's Birth Anniversary on December 13th. GSRF supported the event along with other Departments and Institutions, and actively participated in organising the event.

- **Vidnyan Dhara 2025**

GSRF has participated enthusiastically in Fourth Edition of Vidnyan Dhara 2025 conducted by the Directorate of Higher Education, Goa and Goa State Higher Education Council. The details of participation are given below:

S.No.	Date	Institute	Resource person
1	08/01/2025	Shree Sharada English High School, Anandwadi, Sanvordem	Prof. M K Janarthanam
2	17/01/2025	AIM Higher Secondary School of Arts Commerce And Science Rumdamol, Davorlim	Prof. M K Janarthanam
3	24/01/2025	DPM's Shree Mallikarjun College of Arts & Commerce, Delem-Canacona	Prof. M K Janarthanam
4	05/02/2025	Gomantak Ayurveda Mahavidyalaya & Research Centre, Vazem, Pandagal, Shiroda	Prof. M K Janarthanam
5	07/02/2025	Balram- A Day Care School, Mokhard, Shristhal, Canacona	Dr. Manoj Ibrampurkar

- **Other Scientific Events**

Dr. Manoj Ibrampurkar served as Member of the Organising Committee of the Science Film Festival of India organised by Vidnyan Parishad Goa from 29/01/2025-01/02/2025. Dr. Manoj Ibrampurkar also served as a Judge for the Goa Science Exhibition (Kalpak) organised by the Goa State Higher Education Council from 05/03/2025 to 07/03/2025.

(h) Visit of distinguished guests

Hon'ble Vice Chancellor Prof. Rajanish Kamat, Dr. Homi Bhaba State University (HBSU), Mumbai took time to visit premises on 11th February 2025 and understand the objectives and functions of The Goa State Research Foundation (GSRF).

(i) Miscellaneous

- A lecture on “*Mastering Economics: Effective Study Strategies for Success*” was delivered by Prof. Savio Falleiro, for Economics students of PES College, Farmagudi (21st August 2024).

Budget (all figures in ₹/Lakhs)

Head	Actuals 2024-25	Budget Estimates (2025-26)
Salaries	65.80	75
Schemes	348.64	415.00
Doctoral Research Fellowship	71.50	84.46
Minor Research Grant	62.41	40.51
Major Research Grant	106.27	177.40
Research Start-up Grant	27.00	17.00
Summer/Winter School	28.23	11.00
Post-Doctoral Fellowship	24.60	41.60
IRIS-LD	28.63	43.63
TOSS-DRILL (<i>new scheme</i>)	--	--
Workshops/Seminars/Lectures etc.	1.06	10.00
Central Instrumentation Facility (<i>incl. computational</i>)	--	--
Outsourced Services	14.29	18.00
Office infrastructure (<i>incl. Electrical, furniture etc.</i>)	37.12	6.00
Maintenance (<i>Office – incl. AMC</i>)		5.00
Office Expenses (<i>wi-fi/ph., refreshments, etc.</i>)	2.23	5.00
Honorarium / Meeting Expenses (<i>GC/Fin. Com., Experts etc.</i>)	4.81	10.00
Travel expenses (<i>ext. members; GSRF Officers – official work</i>)	0.03	2.00
Vehicle (<i>Chairman/Office</i>)	9.26	10.00
Promotion & Publicity	0.50	1.00
Electricity	1.74	4.00
Chartered Accountant / Professional fees	0.91	2.00
Visiting research / Eminent Scholars / Scientists	0	1.00
Other charges	--	--
	486.39	563.00

List of approved projects under the GSRF Major Research Grant Scheme (2024-25)

Sr. No	Name of Applicant	Title of the Project	Institution
1	Dr. Bothiraja Chellampillai	Development of an Innovative Patient Centric Paediatric Antibiotic Formulation: Overcoming "One-Dose-Fits-All" with Advanced Hot melt Extrusion Coupled 3D Printing Techniques	Goa College of Pharmacy
2	Dr. Umesh B Gawas	Design and Investigation of Magnetically Recyclable ZnO/Fe ₃ O ₄ /g-C ₃ N ₄ Nanocomposites for Photocatalytic Degradation of Microplastics in Aquatic Ecosystems of Goa	Dnyanprassarak Mandal's College and Research Centre
3	Dr. Minal Desai Shirodkar	Biodiversity, women's agency, social perception and livelihood options in Ramsar site of Goa.	Goa University
4	Dr. Pournima S Dhume	Digital Empowerment: Transforming Financial Independence for Goa's Senior Citizens	Goa University
5	Dr. Nicole Ann Fae Sequeira	Structure, petrology, geochemistry and tectonic evolution of the Banded Iron Formations of Goa, and implications for the evolution of the western rifted continental margin of India	Goa University
6	Dr. Priya Mallika D'Costa	Microplastics and Associated Biofilms in Mangroves of Goa: Spatial and Temporal Fluxes	Goa University
7	Dr. Reshma Sada Raut Dessai	Photon up conversion in co-doped Tellurite Glasses for solar Cell application	Goa University
8	Dr. Sandesh Tukaram Bugde	Electrochemical Synthesis of Environmentally Benign Carbon Quantum Dots: Applications in Heavy Metal Sensing and as catalyst for multicomponent synthesis of N-based Heterocycles	Goa University
9	Dr. Sudhir Cherukulappurath	Development of hybrid 2D material-plasmonic nanoparticle system for surface-enhanced Raman scattering and application to the detection of environmental pollutants	Goa University

List of approved projects under the GSRF Minor Grant Research Scheme (2024-25)

Sr. Nos.	Name of Investigator	Title of project	Institution
1	Dr. Rupesh A. Kunkalkar	De Novo Total Synthesis of Elgonene B and Its Derivatization into Lipid Nanoparticles for Advanced Drug Delivery	School of Chemical Sciences, Goa University
2	Dr. Shailendra S. Gurav	Biodegradable and eco-friendly polymer-conjugated nanocomposite packaging films for guarding the freshness of goan seafood	Goa College of Pharmacy Panaji Goa
3	Dr. Prachi Torney	Eco-friendly Synthesis and Functionalisation of Carbon Nano Dots derived from Fusarium Fujikoroii for Advanced Environmental and Biomedical Applications.	School of Chemical Sciences, Goa University
4	Dr. Kiran Suresh Naik	Electric Field Assisted Synthesis of High-Entropy Materials for Enhanced Energy Applications	PE S College of Arts and Science, Farmagudi
5	Dr. Hari K. Kadam	Synthetic study of novel coumaryl-imidazole compounds and their biological and chemosensing analysis	School of Chemical Sciences Goa University
6	Mr. Atul Ashok Pole	Transforming solder scrap into SnO ₂ nanoparticles for energy and environmental applications	PES College of Arts and Science, Farmagudi
7	Dr. Chetan D. Gaonkar	Parametric Study of Plate-type elastic metamaterials for broadband wave attenuation	Don Bosco College of Engineering, Fatorda
8	Dr. Pranav P. Naik	Halide perovskite embedded conducting polymer for photovoltaic applications	SPAS, Goa University
9	Dr. Maheshwar Nasnodkar	Assessment of metal pollution in intertidal sediments and phytoremediation ability of mangrove plants in the Mandovi Estuary, Goa	SEOAS, Goa University
10	Dr. Avil Allwyn D'Sa	Experimental investigation on surface durability of altered Tooth-sum spur gears	Don Bosco college of Engineering, Fatorda
11	Dr. Pooja P. Ghadi	Reconstruction of past environment over glacial-interglacial time scale from the Southern Ocean using siliceous fossils	SEOAS, Goa University

12	Dr. Narayan T. Vetrekar	Leveraging Complementary Information of Face Using Spectral Imaging To Detect Presentation Attack For Biometric Verification	SPAS, Goa University
13	Ms. Swati Ghadi	Adapting to Deep Mining in Goa: Characterization of BIF ore and waste rock beyond the zone of weathering for a more systematic approach to exploration and strategic waste management.	Chowgule College
14	Dr. Ashish V. Prabhugaonkar	Online Flora of Goa: A collaborative platform combining citizen science with expert knowledge	Dhempe college , Miramar
15	Dr. Maria A. D'Souza	"Biodiversity, Physicochemical Parameters and Molecular Phylogeny of Microfungi isolated from unusual niches".	St. Xavier's College, Mapusa
16	Dr. Dilecta D'Costa	Microbial Succession and Probiotic Potential in 'Kazara Bollo', an ethnic Goan fermented food product	Govt College, Khandola
17	Dr. Teja N. Savoikar	Metal Magnets: Role of Actinobacterial Siderophores in Alleviating Metal Stress in Mangrove Ecosystems.	PE S College of Arts and Science, Farmagudi
18	Dr. Flory Sylvia Pereira	Study on the water quality parameters and the prevalence of antibiotic resistant bacteria in Nanda lake.	PE S College of Arts and Science, Farmagudi
19	Dr. Rupali Rama Bhandari	Impact of copper stress and its mitigation by proline in rice plants.	SBSB, Goa University
20	Dr. Nirmala Rajanala	Agile learning interventions for students in higher education in Goa	GBS, Goa University
21	Dr. Joslyn Henriques	Adult Outcomes of Childhood Sexual Abuse: Exploring Sex Anxiety, Fear of Intimacy, Attachment Styles, and Interpersonal Relationships and the role of protective factors	Dhempe College Miramar
22	Ms. Vaibhavi G. Rane	Adapting Coastal Regulations to Climate Change: A Legal Comparative Study between Goa, India and Portugal	MPSLGPP, Goa University
23	Ms. Prachi Sanjay Prabhu	A Systematic Analysis of Interventions for Prevention, Control and Rehabilitation of Alcohol Abuse in Goa	DDKSSBS, Goa University

24	Ms. Mrunali Jambotkar	Antecedents associated with financial independence of rural and urban youths in Goa.	Govt College, Pernem
25	Dr. Walter Menezes	Exploring and Documenting the Health Benefits of Indigenous Cuisines for Wellness Tourism in Goa's Hinterland.	SSPIS, Goa University.
26	Dr. Vibha Krishna Lad	A Study on the Necessity of Integrating Blended Learning into the Educational Framework of Canacona Taluka of Goa: With Reference to Hindi Subject	HPSM Harmal-Goa
27	Dr. Vinayak S. More	Development of Mathematics Enrichment Kit for improving low-performing	GVM'S College of Education, Farmagudi
28	Dr. Naresh G. Shirodkar	Employment and Income Generation in the Post Operation of Manohar International Airport, Goa: A Study of Two Villages Adjoining the Airport.	DM's College Assagao

Annexure – III

**List of approved beneficiaries under the GSRF Doctoral Research Fellowship Scheme
(2024-25)**

Sr. No	Name of Applicant	Title of the Project	Institution
1	Ms. Cleona Elizabeth Mary DCruz	Development of novel drug delivery systems for poorly water-soluble drugs	Goa College of Pharmacy
2	Ms. Disha Fottu Gauns	Catalytic and biomimetic studies of transition and other metals	Goa University
3	Ms. Manasi Arun Ugvekar	Synthesis, Characterization and Study of Solid State properties of Nickel/Aluminium doped Manganese Zinc Ferrites and their Applications.	Goa University
4	Ms. Bhakti Yeshwant Dafale	Establishment of cell cultures from <i>Scylla olivacea</i> for pathogenic susceptibility screening.	Goa University
5	Ms. Shreya Gajanan Khorjuvekar	Autism Spectrum Disorder- Risk Gene Expression Dynamics in Brain and Blood of <i>Gallus gallus</i>	Goa University
6	Ms. Tanya Ramchandra Natekar	Evaluation Of Glycyrrhiza glabra In Improving Neuropathological Responses in Alzheimer's Disease Rodent Model	Goa University
7	Ms. Sasha Viegas	Cell culture systems of <i>Litopenaeus vannamei</i> : Development, pathological and toxicological evaluation.	Goa University
8	Ms. Pranjali Mahendra Gaonkar	Ethnomedicinal Studies, Phytochemical Analysis and Antiuro lithiatic Activity of Selected Medicinal Plants for Kidney Stone Disease	Goa University
9	Ms. Imrana Shaikh	Investigation of Plastisphere bacterial communities from the marine environment.	Goa University
10	Ms. Jaime Mary Mendonsa	Development of Analytical methods for the Quantification of Pharmaceutical Products	Goa College of Pharmacy
11	Mr. Vignesh R Naidu	Synthetic Studies of Natural occurring (\pm)-Nuevamine, Isocryptoplepine, and Mansouramycin D alkaloids and their derivative.	Goa University
12	Ms. Shefali Santosh Ainkar	Analysis and Method Development of Selective Chemical Contaminants	Goa University
13	Mr. Leo Francisco Blaise DSouza	Synthesis and functionalization of carbon quantum dots for catalysis in synthetic organic transformations & biological applications	Goa University

Annexure – IV

List of approved beneficiaries under GSRF Research Start-up Grant Scheme (2024-25)

Sr. Nos.	Name of Investigator	Title of project	Institution
1	Dr. Dipesh Harmalkar	Total synthesis and SAR exploration of cytotoxic gramideoxybenzoins	Government College of Arts, Science, and Commerce, Sanquelim
2	Dr. Diviya Vaigankar	Development of Fortified Exopolymer Nano-Selenium Formulations Using Marine Bacteria for Alleviating Crop Stress and Enhanced Crop Production.	School of Earth Ocean and Atmospheric Sciences, Goa University
3	Dr. Prajakta Parab	Computational and Chemical Kinetic Modeling Study of Nitro-Polycyclic Aromatic Hydrocarbons (NPAHs) in Combustion	Government College of Arts, Science and Commerce, Khandola
4	Dr. Damita Cota	Development of Terminalia arjuna Extract loaded Chitosan Nanoparticles as a Potential Oral Delivery Platform for Targeting Colon Cancer	Goa College of Pharmacy
5	Dr. Vaishali Dessai	Understanding Magnetocaloric and Magnetoresistive properties of Mn ₃ SnC _{1-x} Antiperovskite	Carmel College of Arts, Science and Commerce
6	Dr. Apurva Narvekar	Development of cost-effective carbon based structures and research their adsorption efficiency and adsorption kinetics.	Government College of Arts, Science and Commerce, Khandola

Annexure – V

List of Summer/Winter Schools approved under the Scheme for the year 2024-25

Sr. No.	Name of the Institution	Co-ordinator
1	Goa College Of Pharmacy, Panaji	Prof. Raghuvir Ramakant Pissurlenkar
2	PES Rajaram And Tarabai Bandekar College Of Pharmacy, Farmagudi	Dr. Mangirish Narendra Deshpande
3	Goa University - School Of Physical And Applied Sciences	Dr. Mridini Mahadev Gawas
4	Padre Conceicao College Of Engineering, Verna	Mr. Satish Gangavati
5	M. E. S. Vasant Joshi College Of Arts And Commerce, Zuarinagar	Dr. Sancheliana Fatima Faria
6	Dnyanprassarak Mandal's College And Research Centre, Assagao.	Mr. Girish Gajanan Abhyankar
7	Goa College Of Pharmacy, Panaji	Prof. Arun Bhimrao Joshi
8	Goa University - Goa Business School	Mr. Jarret S A Fernandes
9	P.E.S.'S Ravi S. Naik College Of Arts And Science, Farmagudi	Dr. Neha Dattaram Prabhu
10	Dnyanprassarak Mandal's College And Research Centre, Assagao	Dr. Shanthi Muninathan
11	DCT's Dhempe College Of Arts And Science, Miramar	Mrs. Varsha Dinesh Virginkar
12	P.E.S.'S Ravi S. Naik College Of Arts And Science, Farmagudi	Dr. Carolina F.E. Fernandes
13	Government College Of Arts Science And Commerce Khandola	Dr. Dilecta Dcosta
14	Goa University - School Of Sanskrit, Philosophy, And Indic Studies	Dr. Walter Menezes
15	Government College Of Arts Science And Commerce, Khandola	Dr. Richa Sardessai
16	CES's Parvatibai Chowgule College Of Arts And Science Autonomous, Margao	Dr. Mayuri Madhuker Naik
17	SS Dempo College Of Commerce And Economics, Cujira	Prof. Raveendranath Nayak
18	Government College Of Arts Science And Commerce, Sanquelim	Dr. Nisha Vasantlal Kevat
19	St. Xavier's College, Mapusa	Dr. Nadine De Souza

Annexure – VI

List of approved beneficiaries under GSRF Post- Doctoral Fellowship Scheme (2024-25)

Sr. No	Name of Applicant	Title of the Project	Institution
1	Dr. Anmol Nilkant Naik	A Comprehensive Study of Deccan Silicic Volcanic Rocks in India: Physical Volcanology, Petrogenesis, Geochronology and Emplacement Histories unearthed through Kinematic Analysis of Rheomorphic Structures	Goa University
2	Dr. Geeta Anant Zalmi	Design and Synthesis of AIE active Organic Fluorescent Molecules, and Their Application in Sensing of Environmentally Toxic Analytes and Biomedical Application.	Birla Institute of Technology and Science, Pilani Goa
3	Dr. Manisha Tiwari	Designing and optimization of cell free solid phase biosensor for monitoring the heavy metal contaminants in aquatic system	Goa University

Annexure – VI

List of approved projects under the GSRF Interdisciplinary Research Interventions Scheme for Local Development (IRIS-LD) (2024-25)

Sr. No	Title of the Project	Name of the PI	Institution
1	Enhancing the livelihood of <i>kulagar</i> farmers in Goa through black pepper inter-cropping and market-linkages	Dr. Shripad Bhat	ICAR-CCARI, Goa
2	Integrated management of Red Palm Weevil: Elucidating coconut varietal resistance and evaluating stimulo-deterrence properties of native flora of Goa for sustainable agriculture in Goa	Dr. Andrew J. Dsouza	St. Xavier's College, Mapusa
3	A process scale-up of an innovative, commercially viable and eco-friendly Betel nut husk based mosquitocidal repellent to control the vector-borne diseases in Goa State	Dr. Mythili K. Jeedigunta	Goa College of Pharmacy, Panaji.
4	Modular pyrolysis reactor system for production of fuel from low value plastic waste	Dr. Rajesh Pednekar	DM's College and Research Centre, Assagaon
5	An open-label, non-comparative clinical trial on the efficacy of <i>Vasadi Vati</i> in managing iron deficiency anaemia (Pandu) in adolescent girls	Dr. Sumod Khedekar	Gomantak Ayurveda Mahavidyalaya and Research Centre, Shiroda
6	AI/ML integrated Wood's Lamp/ Smartphone Examination Device for Non-invasive Preliminary Assessment enabling Real Time Evaluation of Dermoscopic Features and Differential Diagnosis of Skin Disease(s)	Prof. Rajesh S. Prabhu Gaonkar	Goa College of Engineering, Farmagudi
7	Assessment of Distribution Pattern, Habitat Association and Ecosystem Services of <i>Pandanus</i> in Goa	Dr. Rajeev Chaturvedi	BITS, Goa Campus

HOMAGE



Prof. DATTA B. NAIK
(passed away on March 12, 2025)

Member of the First Governing Council
and
First Finance Committee
of
Goa State Research Foundation



Orientation of Project Investigators of various Schemes



Shri. Praveen Kumar Raghaw, IFS, Addl. PCCF, Shri. Naveen Kumar P., IFS, CF and Smt. Tejaswini Pusuluri, IFS, DCF during brain storming on Forest Research.



Dr Ashok Khosla, Shri Prasad Lolayekar, IAS (Secretary, Education), Shri Bhushan K. Savaikar, Director of Higher Education. Shri Sujeetkumar Dongre, CEE.



Audience during the lecture on 'Sustainability' by Dr Ashok Khosla



Discussion after a lecture on 'Gender Equality: Empowering Women in the Workplace' by Prof. Vrinda Borkar.



'World Cafe' approach taken during the brain storming session on Forest related research

Goa State Research Foundation

UG-6, Upper Ground Floor, New Market Complex, Building 'B, Housing Board,

Behind New Hanuman Temple, Swami Vivekananda Road, Alto-Porvorim, Goa - 403521

Homepage: <https://gsrf.org.in> | Email: office.gsrf@gmail.com | Phone: (+91) 8275910290