

## **DCT's DHEMPE COLLEGE OF ARTS AND SCIENCE**

**Miramar, Panaji-GOA**

**Extension and outreach Programme**

**Science 2022-2023**

**Department of Physics**

- I. Dhempe College under DBT star college scheme invited students from Union High School ,Chimbel and Auxillium High School Taleigao on 14<sup>th</sup> November 2022. Physics department displayed the optical instrument like telescope, spectrometer and microscope and explained the students about the functioning of it .Also in collaboration with Association of Friends of Astronomy ,students also observed sun spot.48 students took the benefit of the programme



- II. The Department of Physics participated in the Science exhibition held on the 13<sup>th</sup> and 14<sup>th</sup> January 2023 which was organised for school and Higher secondary schools from Goa as an extension activity. The theme for the exhibition was ‘Fun with Atoms and

Molecules” where students and staff of the department demonstrated the exhibits ranging from Heat, Thermodynamics, and Optics. Worked as Incharge of Science exhibition .71 B.Sc. Students worked together along with staff of the Department and put on 24 exhibits demonstrating the concepts related to heat, thermodynamics and optics. The exhibits were judged by Mrs. Varsha Virginkar and Dr. Bhanudas Naik from the Department of Chemistry. The first three best exhibits scrutinized by the judges were Heat and Crystallization Tanay, Thermocouple as temperature sensor and Thermopile. Dr. Miskil Naik coordinated the event for the Department of Physics .The exhibit demonstrated for the exhibition are listed below

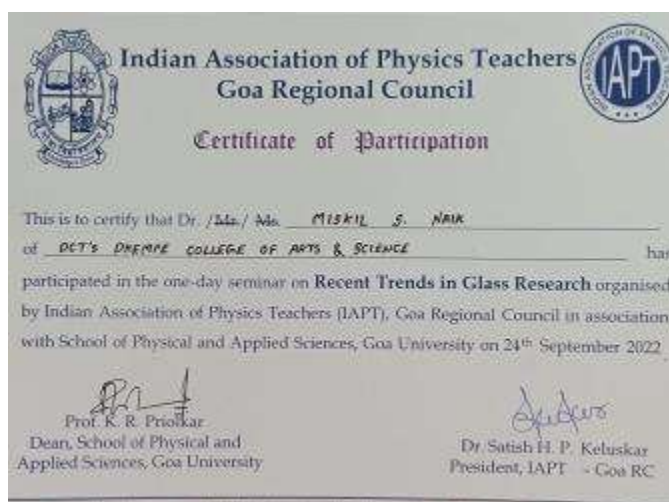
- Thermopile
- Vande Graff Generator
- Thermoelectric Generator
- Rate of Diffusion and Brownian Motion
- First Law of Thermodynamics
- Thermocouple as temperature sensor
- Thermo flask
- Second Law of Thermodynamics
- Mini Refrigerator
- Boyle’s law
- Steam Engine
- Heat of Crystallization
- Room Heater
- Distillation chemical method
- Distillation electrical method
- Multi Cylinder Engine
- Thin film Fringes
- Absorption spectra
- Sodium Spectra
- Mercury Spectra
- Hydrogen Spectra
- Helium Spectra
- Polarisation
- Newton’s rings



- III. Quarks Club, Department of Physics organised Quiz on Science and Technology for the Higher Secondary Students from Goa as an outreach program on 25<sup>th</sup> January 2023. Seven T.Y.B.Sc. students together with other members of the Quarks Club organised the Quiz on Science and Technology for the Higher Secondary Students from Goa as an outreach activity. 11 Higher secondary schools comprising 17 teams participated in the event in the preliminary round. The first winner of the Science Quiz was from Dhempe Higher Secondary School, the Second winner from Shantadurga Higher Secondary School, and the third winner from St.Xaviers Higher Secondary School. Dr. Efreem D' Sa was invited as chief guest for the function. The event was inaugurated by lighting the lamp. Principal Dr. Vrinda Borker welcomed the gathering, and Dr. Ramu Murthy-H.o.D. The Department of Physics introduced the chief guest, Dr. D'sa, who talked about the importance of the quiz and how preparing for such a quiz enhances one's knowledge. Dr. Miskil Naik announced the winners of the preliminary round and proposed a vote of thanks. The quiz was sponsored by the Physics Alumni batch of 1995-96: Manish Ajmani, Sunil Salgaonker, Wilma Nadkarni & Arun Kumar contributed Rs.10000/- towards the conduct of the event. TYBSc students were overall in charge of the event. In organising such quizzes students had a good discussion on framing the question. These healthy discussions enhance one's knowledge. Dr. Miskil Naik Coordinated the event.



- IV. Dr Miskil Naik was organising member of one day seminar on Recent Trends in Glass Research organized by IAPT-Goa in association with School of Physical and Applied Science, Goa University on 24<sup>th</sup> September 2022, also invited to chair one of the session.



- V. Dr Miskil Naik was organising member of the “Space Science workshop” held at Goa University on 23<sup>rd</sup> & 24<sup>th</sup> February 2023 organised by Vigyan Parishad Goa and Goa University in association with Indian Space Research Organisation (ISRO).



VI. Dr Miskil Naik was Judged the essay competition on Role of student making an effort to reduce energy consumption organised by Goa Science Centre on 7<sup>th</sup> December 2022 as a part of celebration of National Energy Conservation Day.

VII. Dr Miskil Naik was Invited as a judge for painting and poster designing competition organized as part of NPCIL-DAE iconic week celebration on 24<sup>th</sup> August 2022 by Goa Science Centre.





VIII. Dr Miskil Naik was Invited as the chief guest at G.S. AmonkarVidyamandir for Annual Social Gathering held on 7<sup>th</sup> January 2023.



XI. Dr Miskil Naik was Delivered a talk as a part of pre-fest Sci-FFi event of Vidnyan Parishad Goa to the students of Government Higher Secondary School Pernem on 10<sup>th</sup> February 2023.



X. Directorate of Higher Education & Goa State Higher Education Council as a part of "Vidyan Dhara Lecture Series" organised a mega science lecture series in celebration of science day 2023. Under this program Dr Miskil Naik was invited as one of the resource persons. She delivered a session on "Carbon footprint Calculation" on 13<sup>th</sup> February 2023 at Don Bosco High School, Panaji, Goa.



XI. Ms. Siddhi Parsekar Participated along with students in Road Safety Awareness Action at Miramar Circle on 3<sup>rd</sup> November 2022 from 9am to 10:30am organised by the Consumer Welfare Cell of VMS College of Law and GOACAN.



XII. Ms. Siddhi Parsekar coordinated the street play and accompanied the students for the event Making Equality A Reality (MEAR) organized by Manohar Parrikar School of Law and Governance, Goa University on 15<sup>th</sup> March 2023 which bagged the 2<sup>nd</sup> place. The students were 2<sup>nd</sup> runners-up for the overall event.



### **Department of Biotechnology**

- I. Following teachers participated in the 'International Coastal Cleanup Day' organized by the Government of India in association with the government of Goa on 17<sup>th</sup> September, 2022 at Miramar Beach. (Dr. Preethi Pandit, Dr. Amara Begum Mulla, Dr. Priyanka Naik Parrikar).
- II. The Department of Biotechnology participated in the science exhibition organized by the College on the occasion of Children's Day on 14<sup>th</sup> November 2022 for High School students. 48 students of Auxilium Convent High School and Union High School students visited the College exhibition. The teachers Mrs. Mrunal Phadke, Dr. Preethi Pandit, Dr. Amara Begum Mulla, and Dr. Priyanka Naik Parrikar, Ms. Sarika Sutar, and also the lab technician Ms. Nurjaha Kadar Bagwan enthusiastically demonstrated different exhibits and tried to explain every exhibit in a simple way to the young minds and addressed their queries regarding the same. The students were also given an opportunity to develop the fingerprints present on various surfaces.



- III. Dr. Amara Begum Mulla participated in and volunteered for Goa Marathon 2023 as part of waste management activity.
- IV. Dr. Preethi Pandit organized an online quiz on “QUIZ ON CLIMATE CHANGE- *Awareness today for a better tomorrow* on 5<sup>th</sup> April 2023. The quiz consisted of 11 questions concerning climate change in the state of Goa, India, and all over the world. Certificates were distributed to all the participants who scored above 80%. A total of 103 participants took part in the quiz including the students, teachers, and non-teaching staff from the College, and 55 received certificates

### **Department of Chemistry**

I. Dr. Shashank Mhaldar was the Resource Person for the “Vidnyan Dhara”, a mega science series program at Government Higher Secondary School Pernem Goa organized by Directorate of Higher Education (DHE) and Goa State Higher Education Council (GSHEC) on 1<sup>st</sup> February 2023. Title of the Session: Name Reactions in Organic Synthesis and their applications.



II. Dr. Shashank Mhaldar, Assistant Professor, Department of Chemistry, was the Resource Person for the “VidnyanDhara”, a mega science series program at Our Lady of Merces High School, Merces Goa organized by Directorate of Higher Education (DHE) and Goa State Higher Education Council (GSHEC) on 23<sup>rd</sup> February 2023. Title of the Session: Name Reactions in Organic Synthesis and their applications.



III. Mrs Deepa M Audi President IIC ,Participated in the outreach session on Entrepreneurship and Start upsorganised by Institution's Innovation Council of Dhempe College of Arts and Science Miramar Goa at Dr K.B Hegdewar High School CujiraBambolim Goa on 23rd February2023 . The resource person for the session was Mrs Gail Zaccharias Assistant Professor from Department of Economics. The session received an overwhelming response from Students. The session was coordinated by Dr Shilpa Samant HoD Department of Economics, Dr Preethi Pandit and Mrs Gail Zacharia. Dr Bhanudas Naik also attended the session.



IV. Dr Sonia Parsekar Coordinated for organizing VIDNYAN DHARA 2023, A Mega Science Series lecture on topic MARINE BIOPROSPECTING by Dr. Narsinh Thakur, Senior Principal Scientist, CSIR-National Institute of Oceanography on 24th February 2023 at 2:30 pm under the aegis of Goa State Higher Education Council & Directorate of Higher Education.

V. Dr. Chandan Naik demonstrated exhibits to nearby schools students under the DBT star college scheme to celebrate Children's day on 14<sup>th</sup> November 2022.

VI. Dr. Chandan Naik was the resource Person for the “Vidnyan Dhara”, a mega science series program at Ameya Higher Secondary School, Ponda, Goa organized by the Directorate of Higher Education (DHE) and Goa State Higher Education Council (GSHEC) on 14<sup>th</sup> February 2023. Title of the Session: Nanomaterials in Nanoscience and Nanotechnology.

VII. Mrs. Varsha Virginkar along with the other faculty members of Dhempe College of Arts & Science visited the Goa College of Home Science on 13<sup>th</sup> October 2022. The visit was planned under the NAAC mentoring program to guide the Goa College of Home Science faculty members on the intricacies of the NAAC accreditation process.

VIII. Mrs. Varsha Virginkar Was the coordinator for the water testing for the presence of chlorine in water for a sensor developed by Hrishikesh Bhandari, CEO and co-founder at Saafwater. Dr. Sonia Parsekar, Dr. Bhanudas Naik, Ms. Dipika Gosavi and Ms. Monica Ghadi helped in carrying out this activity which was held on 18<sup>th</sup> January 2023.

IX. Dr. Bhanudas Naik, Mentor of Swatchh Bharat Students Internship (SBSI) along with SBSI Student interns of MSc. Analytical Chemistry of Dhempe college of Arts and Science, conducted a session on menstrual hygiene for secondary school girls at Our Lady Of Merces High School as a part of Swachh Bharat Student Internship activity. The objective was to create awareness on the importance of menstrual hygiene and the impact of improper disposal of menstrual hygiene products on the environment and health.

X. Dr. Bhanudas Naik, Mentor of Swatchh Bharat Students Internship (SBSI) along with SBSI Student interns of MSc. Analytical Chemistry of our College, conducted a workshop on upcycling of waste materials at Our Lady Of Merces High School as a part

of swachh Bharat Student Internship. The objective was to help the students understand the need for waste management and how to reduce waste.

- XI. Dr. Bhanudas Naik, Mentor of Swachh Bharat Students Internship (SBSI) along with SBSI Student interns of Swachh Bharat Student Internship (SBSI) of DCT's Dhempe College of Arts and Sciences conducted workshop for the students on "Waste Management and Mushroom cultivation" on 25th April 2023.

### **Department of Botany**

- I. Dr. Ashish Prabhugaonkar accompanied BITS PILANI Goa team in field visit to Netravali wildlife sanctuary as resource person on their request to train the students about aspects of species identification and field inventory on 21st October 2022.





**Birla Institute of Technology & Science, Pilani**  
K K Birla Goa Campus

Date: 16<sup>th</sup> Oct 2022

To,  
The Principal  
Dhempe College of Arts and Science  
Panaji, Goa

**Sub: Request for resource person (Dr. Ashish Prabhugaonkar) for field inventory of Tropical Semi Evergreen forest plot in Netravali on 17<sup>th</sup> October, 2022**

Respected Sir,

We have an ongoing project on long-term Phenological monitoring of Tropical Semi Evergreen forests in Netravali, South Goa. As part of this project we plan to carry out a field inventory for this plot on upcoming 17<sup>th</sup> August, 2022. Dr. Ashish Prabhugaonkar is an acknowledged expert in the area of field taxonomy. Given his knowledge and experience with the forest phenology of these forests we would like to have him as a resource person to train our students about aspects of species identification and field inventory for only one day i.e. 17<sup>th</sup> October, 2022. I shall be obliged to you for permitting the same.

Thanking You

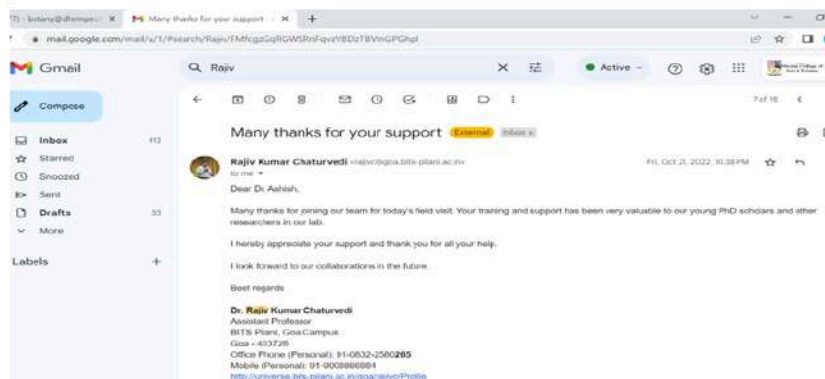
**Dr. Rajiv Kumar Chaturvedi**

*Rajiv Kumar Chaturvedi*

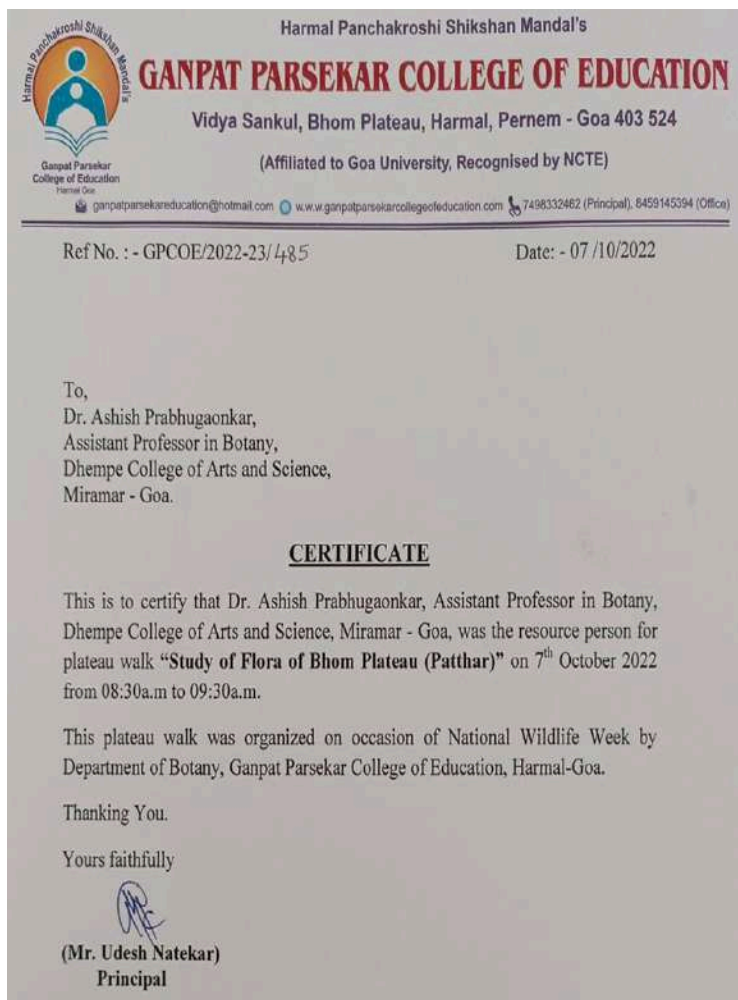
**Dr. Rajiv Kumar Chaturvedi**  
Assistant Professor  
BITS Pilani, Goa Campus  
Goa - 403726  
Office Phone (Personal): 91-0832-2580255  
Mobile (Personal): 91-9008866884, 800  
<http://universe.bits-pilani.ac.in/goa/rajivc/Profile>  
[https://scholar.google.co.in/citations?user=Z\\_jx8YAAAAAJ](https://scholar.google.co.in/citations?user=Z_jx8YAAAAAJ)



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Web: [www.bits-pilani.ac.in](http://www.bits-pilani.ac.in)



- II. Dr. Ashish Prabhugaonkar was invited as resource person to GanapatParsekar College of Education for plateau walk 'Study of flora of Bhom plateau (Patther)' on 7th October 2022.



- III. Department of Botany participated in children's day celebration on 14th November 2022, organised by the College under DBT star college scheme wherein 48 students from AuxilliumSchool, Taleigao and Union High School, Chimbhel visited the college. As part of the program Botany Department took students for a walk through medicinal plant section of the college where in 55 medicinal plants labeled with botanical name, common name and important uses were displayed.



- IV. An exhibition as a part of science exhibition for bringing an awareness of Mighty Millets among the students and general public on 13th and 14th January 2023. Number of participants: 47 Students and 06 teaching staff = 53, Number of visitors: 378



Exhibition on Mighty millets

- V. Dr. Pratibha Prabhugaonkar and Dr. Ashish Prabhugaonkar participated as judge for 31st Home Garden Competition for South Goa region organized by Botanical society of Goa, on 15th January 2023.



- VI. Dr. Shilpa Bhonsle delivered a lecture under Vidnyan Dhara lecture series at Vishwanath M Parulekar Higher Secondary School, Verem, Goa on 11th February 2023. Topic of the lecture was Rice Diversity of Goa.





VII. Dr. Ashish Prabhugaonkar delivered lectures under Vidnyan Dhara lecture series at Kasturba Matoshri High School, Panaji on 23rd February 2023 and The progress high school, Panaji on 9th February 2023. Topic of lecture was Understanding natural ecosystems of Goa with emphasis on lateritic plateau, sand dunes and mangroves.



VIII. Dr. Ashish Prabhugaonkar participated as an expert for six mangrove biodiversity awareness trails under Shorelore program of World Wild Fund, Goa on 17/01/2023, 18/01/2023, 17/02/2023, 02/03/2023, 03/03/2023 and 04/03/2023.



WWF for a living planet™

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Fax: +011-41504795  
+011-24691226  
www.wwfindia.org

To,  
Dr. Ashish Prabhugaonkar  
Department of Botany,  
DCT's Dhempe College of Arts and Science,  
Miramar, Panjim, 403001, Goa.

Date: 04/04/2023

Subject: Letter of Acknowledgement

Dear Sir,

I would like to express my gratitude and thank you for supporting our nature awareness and conservation activities, by facilitating

1. Mangrove awareness walk as a resource person at Dr. Salim Ali Bird Sanctuary, Chorao, Goa on the following dates
  - a. 17/01/2023
  - b. 18/01/2023
  - c. 17/02/2023
  - d. 02/03/2023
  - e. 03/03/2023
  - f. 04/03/2023
2. Image contribution for Shorelore 2023 resource material - 'Mangrove Ecosystem of Chorao Island' as

We thank you once again for your help and support.

Sincerely, \*

Aditya Kakodkar,  
Programme Coordinator, Marine Conservation  
WWF-India, Goa office  
Behind Goa Science Centre,  
Miramar, Goa

Mr. Mr Arvind Wable, President  
Mr N. Kumar, Vice President & Trustee Treasurer  
Mr. Janshyd N. Godrej, Trustee  
Mr. Mridula Ramesh, Trustee  
Mr. Anil Kumar V Epur, Trustee  
Ms. Srijoy Das, Trustee





IX. Ms. Rashmita Mhaladar conducted an awareness session on mangroves for school students under Shorelore program of World Wild Fund, Goa on 30/01/2023, 01/03/23, 10/03/23 and 13/03/23 at Our lady of Rosary primary school Siridao







01/03/2023 at Montessori Primary School, Goa Velha



10/03/2023 at Dr. K.B Hedgewar High School Cujira



13/03/2023 St. Michels High School Taleigao





## Department of Computer Science

**Mrs. Annie Rajan**

- Developed a website [www.audiopustakam.com](http://www.audiopustakam.com) which included audio for std. I to std. IV for Konkani State Language of Goa.

**DCT's**  
**Dhempe College of Arts & Science**  
 Miramar, Goa

**Department of Indian Languages**  
 in collaboration with  
**Institution's Innovation Council**

Invites you to the completion of 30 years for  
**"Inclusion of Konkani Language in  
 the Eighth Schedule of the Indian  
 Constitution"**  
 by  
 Launching  
**audioPustakam**  
 website  
 Developed by **Mrs. Annie Rajan**  
 Associate Professor, Computer Science

.....  
 Date : **20 August 2022**  
 Time : **10:00 am**  
 Venue: **SV Hall**

## Konkani textbooks in audio format launched

'It will help students, slow learners'

**Staff Reporter**

**Panaji**

On completion of 30 years since the inclusion of Konkani in the Eighth Schedule of the Constitution, the Department of Indian Languages, Dhempe College of Arts & Science, Miramar, in collaboration with Institution's Innovation Council on Saturday launched a website and a device 'audioPustakam,' which provides Konkani textbooks for Classes 1 to 4 in an audio format.

The device and website have been developed by associate professor, computer science, Annie Rajan.

"This tool is good for students, especially slow

grade, this tool will help students in improving their skills of speaking and understanding Konkani. "Also, according to Census 2011, the population of Konkani speakers has reduced and so we wanted to change this," said Rajan. Two schools have already expressed interest in using the device, she informed.

Chief guest for the event, assistant professor at Nirmala Institute of Education Russell D'Souza said that learning happens through listening. "Listening and learning is one aspect and writing and reading is another aspect. So these audio textbooks can be used to listen and to reflect," he




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audiopustakam.com/#

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audioPustakam HOME LANGAUGES ABOUT CONTACT



## Audio Text Books for Indian Regional Language

Learning is more live and effective in classrooms supported by learning resources. Audio textbook in regional language will help students learn and grasp nontrivial concepts more quickly in their home language/mother tongue.

### Goa-Konkani

Konkani is an Indo-Aryan language spoken by the Konkani people, primarily along the western coastal region (Konkani) of India. It is one of the 22 scheduled languages mentioned in the 8th schedule of the Indian Constitution and the official language of the Indian state of Goa. The first Konkani inscription is dated 1187 A.D. It is a minority language in Karnataka, Maharashtra, Kerala,[1] Gujarat and Dadra and Nagar Haveli and Daman and Diu.

[Click Here to get the audioPustakam](#)

11:12 AM 5/6/2023

UserSense Feedback Form Li... Physics - Google ... computer scienc... audioPustakam | In The Details | T... Konkani Spell Chi...

audiopustakam.com/standard/3/0

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audioPustakam HOME LANGAUGES ABOUT CONTACT

## KONKANI

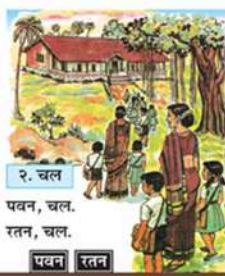
Text books used here is from SCERT GOA

**STANDARD**


- Class I
- Class II
- Class III
- Class IV



१. टण टण  
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२. चल  
पवन, चल.  
रतन, चल.  
पवन रतन



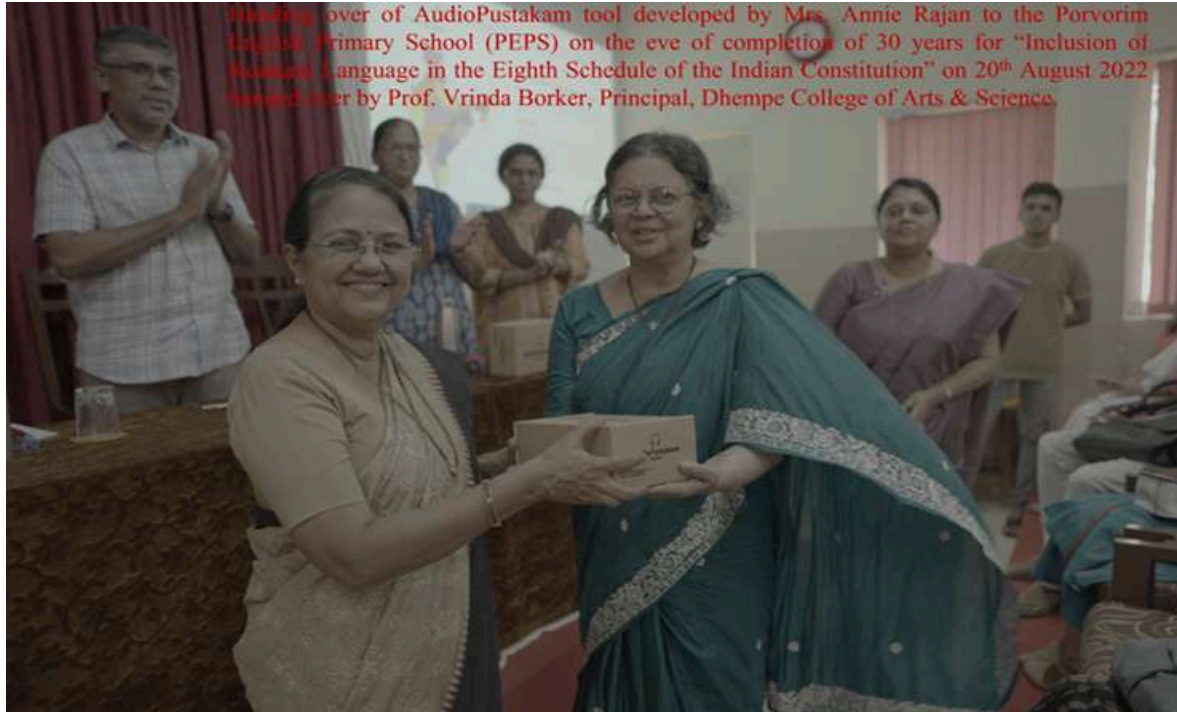
३. वड  
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वड पलय.

11:24 AM 5/6/2023



- Presented a kit of Audio Pustakam which contained four devices which included the pre-recorded text book of Konkani from STD. I to IV.





- Registered audioPustakam for Trade Mark, application no.: 5770946.

The application has been updated on the website of Ministry of Commerce & Industry, Department of Industrial Policy & Promotion, Controller General of Patents Design & Trade Marks, Govt. of India under the Intellectual Property India.



Total No Of Matching Marks : 1

INP Records Found : 0

Search Type : Wordmark

[Click on Show Details to display](#)

#### International Non-Proprietary Names(INN)

No Record found

#### Matching Trademark(s)

■ Sl. No.	Document	Image
<input type="checkbox"/> 1	Wordmark: audioPustakam Proprietor: ANNIE RAJAN Application Number: 5770946 Class / Classes: 9 Status: Send To Vienna Codification <a href="#">Show Details</a>	

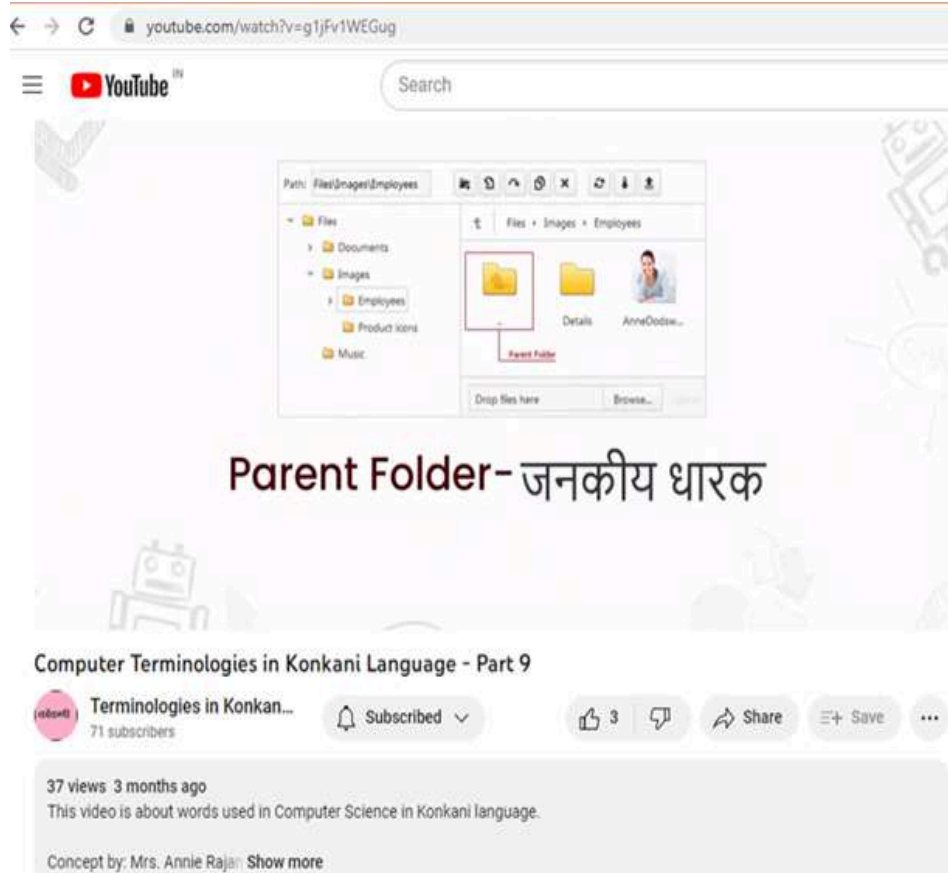
Record No. : 1 | Application Number : 5770946

Word Mark	audioPustakam
Appl. No.	5770946 Class : 9
Appl. Date	19/01/2023
Proprietor	ANNIE RAJAN
Journal No.	- Journal Date :
Status	Send To Vienna Codification
Used Since	22/08/2022 Valid Upto :
Goods & Services Description	AUDIO BOOKS AND RELATED ACCESSORIES IN CLASS 9; COMPACT DISKS, DVDs, USB FLASH DRIVES AND OTHER DATA STORAGE DEVICES; SPEAKERS; SOFTWARE PROGRAM FOR AUDIO BOOKS.

- Translation of scientific words for audience in local language [state language of Goa, Konkani (Devanagari script)] Computer terminologies in Konkani Language– Part 9

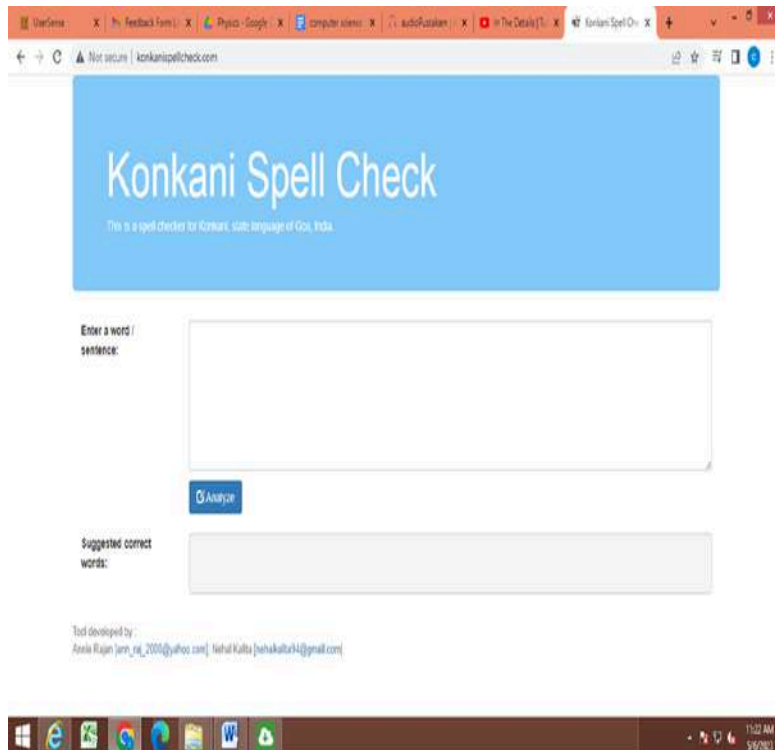
<https://www.youtube.com/watch?v=g1jFv1WEGug>

Date of upload: 19th January 2023.



- Developed an online Spell Checker for Konkani the State language of Goa. This spell checker is freely available on [www.konkanispellcheck.com](http://www.konkanispellcheck.com) in Devanagari script with a corpus of 54,295 root words.







## Online Konkani spell checker in Devanagari script developed by Dhempe College lecturer

The free to use spell checker has a corpus of 54,295 root words

**SHASHWAT GUPTA RAY**  
[shashwat@herald-go.com](mailto:shashwat@herald-go.com)

**PANJIM:** With growing use of Konkani language in Devanagari script, a senior Computer Science faculty at the Dhempe College has developed an online Konkani spell checker in Devanagari script to help the users deliver error-free work.

This is the first attempt to develop a spell checker for a low-resource language, Konkani, in Devanagari script with a corpus of 54,295 root words.

"Today we are seeing a lot more publishing work happening in various domains in Konkani language, using



**WORKING TOGETHER:** Head, Department of Indian Languages, Dhempe College Anjul Prajapati Sakhardande (left) validates the Konkani spell checker developed by Associate Professor in Computer Science Annie Rajan

Devanagari script. That is why there's a need to deliver quality work. With this objective, we have developed Konkani spell checker software in Devanagari

### THE KONKANI SPELL CHECKER

- » Has a corpus of 54,295 root words
- » Analysis done on the basis of morphology
- » Two dictionaries used – XML and manual
- » Designed using a Python-based web framework
- » Will help users deliver error-free work

told **O Herald**.

Rajan said, "The design and implementation of the spell checker was challenging."

**Contd on Pg 9 >>**

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## - Science Exhibition: Inspire the Next

The Annual Science Exhibition: Inspire the Next was held on January 13-14, 2023. The departments of science participated in the exhibition by putting up projects and working models to depict concepts and scientific phenomena. The exhibition was visited by students from schools in large numbers. The following were the departments and number of students who participated

Physics	71
Chemistry	78
Biotechnology	65
Geology	49
Computer science	10
Maths	12
Botany	47
<b>Total</b>	<b>332</b>

## **Extension and outreach Programme**

**Arts 2022-2023**

### **Department of English**

#### **.“Happy Tails”: Care and Rehabilitation Facilitation Programme for Street/injured Animals and Birds**

To promote the values of non-violence, inclusion and love for all beings, 'Happy Tails', a rescue, care and rehabilitation facilitation programme for street/injured animals and birds, continued its efforts towards ensuring a safe environment for street/abandoned animals and birds. Cases of injured animals and birds were reported to Panjim Animal Welfare Society (PAWS) and necessary steps were taken to transport said animal/bird to the shelter at PAWS. Donations, monetary and otherwise, in the form of newspapers, cardboard, packaged food, etc. were accepted and then distributed either directly to feeders or to PAWS. The coordinator of the programme is Ms. Rochelle Fernandes, Assistant Professor, Department of English, Dhempe College of Arts and Science, Miramar-Goa. This is an on-going programme.





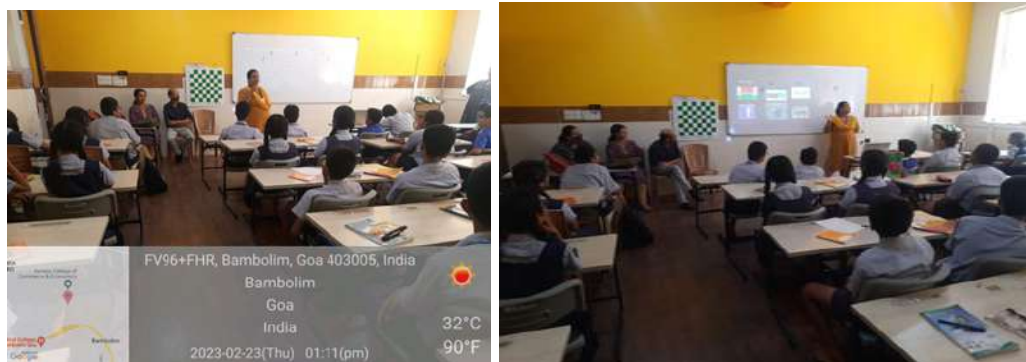
## **II. Christmas Party for Underprivileged Children**

The annual Christmas Party for underprivileged children was organized by the Department of English in collaboration with the Department of Indian Languages to celebrate the spirit of Christmas. The event took place on December 9, 2022 on College premises. 10 children were engaged by the staff members where a series of games were played, after which prizes were distributed. The event ended with the distribution of Christmas gifts and refreshments. The Principal spoke to the children and reinstated the significance of coming together and sharing joy on such occasions. The organizers once again received positive feedback.



## **Department of Economics**

.Department of Economics in collaboration with the Institution's Innovation Council of Dhempe College of Arts and Science Miramar Goa organised a session on Entrepreneurship and Start-ups as a part of outreach activity at Dr K.B Hegdewar High School Cujira Bambolim Goa on 23rd February 2023 . The resource person for the session was Mrs Gail Zacharias Assistant Professor from Department of Economics. The session received an overwhelming response from Students where 41 students attended the same.. The session was coordinated by Dr Shilpa Samant HoD Department of Economics, Dr Preethi Pandit and Mrs Gail Zacharia.



## **DEPARTMENT OF PSYCHOLOGY**

.On the occasion of “World Day against Trafficking in Persons” on 30<sup>th</sup> July, 2022, 25 students from FY, SY, and TY participated in a rally organized by Goa Police in collaboration with ARZ NGO at Azad Maidan, Panaji – Goa. Ms. Sweta Matonkar accompanied the students.



**World Day against Trafficking in Persons” on 30<sup>th</sup> July, 2022**

- II. The Disha school for special children had a two day sale of items in the college campus on 28<sup>th</sup> and 29<sup>th</sup> July 2022 which was facilitated by Dr. Joslyn Henriques.



**Disha school Exhibition on 28<sup>th</sup> and 29<sup>th</sup> July 2022**

- III. The Wangda internship volunteers assisted in the All Goa Drawing and Painting Competition 2022-23 organized by Disha Charitable Trust, Panaji – Goa on 1<sup>st</sup> October 2022. Dr. Joslyn Henriques coordinated the same.





- IV. The Department of Psychology in association with Caritas Centre for Deafblind, Goa, celebrated the joy of giving - "Daan Utsav 2022" in the college from 3<sup>rd</sup> to 8<sup>th</sup> October 2022. The purpose of the event was to fulfill the wish list of the underprivileged deafblind children. The staff and the students of the college contributed to the same.



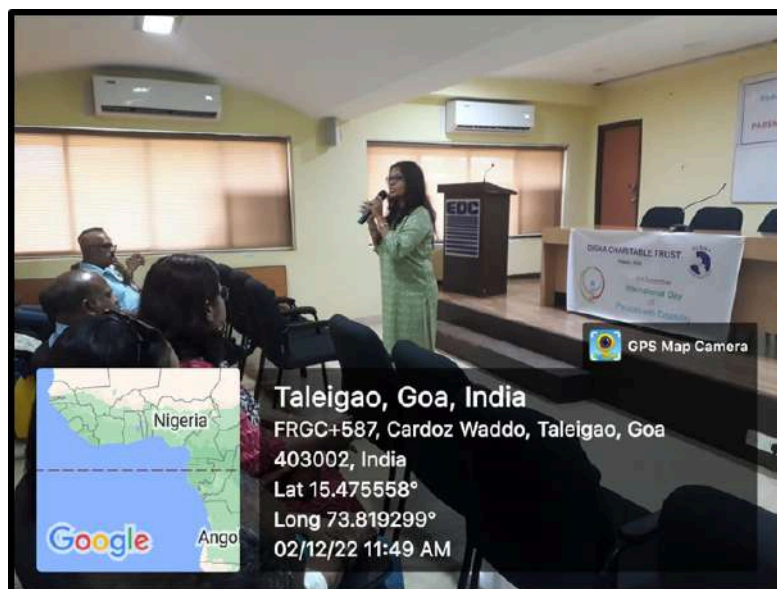
- V. To commemorate World mental health day, two street plays were organized to create mental health awareness under the Jagruti programme of the Department on the 11<sup>th</sup> October 2022 at Kadamba bus stand, Panjim and 14<sup>th</sup> October 2022 at Kadamba bus stand, Mapusa. The objective was to create awareness among the public on Cyber bullying and its impact on mental health; Social Media Addiction and its impact on mental wellbeing; Misconception of Schizophrenia and the attitude of people towards mental illnesses; Impact of parental pressure on adolescents in making career choices. 24 students participated in the same. Dr. Mukta Karamadi and Dr. Cindy D'Silva coordinated the same.



- VI. The Wangda internship volunteers assisted in the exhibition of various products made by the students of Disha School from 14<sup>th</sup> to 16<sup>th</sup> October 2022 at Panjim Gymkhana. Dr. Joslyn Henriques coordinated the same.



- VI. Ms. Sweta Shyam Matonkar and Mrs. Lourdes Botelho conducted a session for parents of the differently abled students of Disha School, Panaji on 2<sup>nd</sup> December 2022 from 10:00 am to 12:30 pm. 30 parents were present for the same.





- VII. Third Year B. A. Psychology Students in various schools of North Goa namely: Mary Immaculate Girls' High School, Panjim, HUSN Sahara and Mayrah English Medium School Chimbél- Goa, Don Bosco high school and higher secondary school, Vidhya Vruddhi Saunstha, Ponda, Corner Stone High School Karaswada, Mapusa- Goa and Old Goa Educational School in the month of March 2023 on various topics such as Stress Management Techniques, Team Building, Anxiety Disorders and Obsessive Compulsive Disorder, Healthy lifestyle, Mental Health, Anxiety and Eating disorders. A total of 188 school students benefited from these programs. This outreach programme was coordinated by Dr. Mukta Karamadi.

### Department of Philosophy

Ms Sendra Pereira Coordinated an activity titled "Seed Saving, Seed Sharing: Plant a tree" on 24th July 2022, this activity was done in collaboration with NGO Uzwaad the rays of hope at vodle zorin, Voile Bhat Mercés- Goa at 10am onwards. The Forest Department Panjim-Goa donated plant saplings such as Neem, Sisham, Arjun, Badam, Mango, Amla, Custard Apple, Gulmohar, Rain tree, Tamarind, Guvava and Apto. These saplings were planted by the Uzwaad team. Mr. Dattaram Faterpekar the owner of land supported this activity. This was a green initiative of the NGO to promote the sustainability and environmental values among the youth. During this activity all the members participated actively hoping for better future. Keeping in mind current global ecological issues, this activity was planned. 20 student volunteers of the Philosophy department with Uzwaad members participated and successfully contributed towards this event.



*Activity featuring on Local newspaper Herald*

- II. On the Occasion of 75th Anniversary of India, Ms Sendra Pereira coordinated activity along with NGO-Uzwaad -the Rays of Hope titled 'Old Goa heritage walk with clean-up drive'. 15 students from Dhempe College and 15 NGO members participated in the drive. This activity was organised for creating awareness on protection and conservation of Historical and Natural Heritage. Shri. Prajal Sakardande Associate Professor and HOD, Dept of History was the chief guest for this function. He explained the historical significance of the place for the participants. All the members participated in a clean-up drive which included collection of garbage such as plastic, papers, textile waste, glass



etc. The Uzwaad members also made cloth bags out of old sarees to promote re-use and avoid plastic, these bags were used during the drive. The heritage walk was held at 11.45a.m. to 3.00 pm.



*Activity featuring on Local newspaper Herald*



*Participants at clean-up Drive*

- III. Conducted a Guest Lecture Session on the topic 'Suicide prevention' at St. Anthony's school at Panchwadi, on 10<sup>th</sup> September, 2022 at 12.noon as a part of Month long Campaign on Suicide prevention Organized by NGO Uzwaad- the rays of Hope. 15 students of Philosophy department participated.



- IV. Ms. Sendra Pereira Coordinated Street play awareness on the Topic 'Suicide prevention' at Colva Beach, on 11<sup>th</sup> September, 2022 at 3.pm as a part of Month long Campaign on Suicide prevention organized by NGO Uzwaad- the rays of Hope. 5 students of Philosophy department participated.



- V. Green ambassadors of College and NGO UZWAAD-The Rays of Hope in collaboration with Goa Science Center, Rotary Club, Miramar as a part of Swachhta Pakhwada 2022 organized street play awareness on the topic 'Swachhta'. Students enthusiastically performed the street play at Miramar beach to reach out to the crowd on various issues related to garbage, the team enforced on the slogan 'hum sabka ek hi Nara, swach ho desh hamara'. The young students of Dhempe College and members of Uzwaad NGO used thought provoking dialogues, requesting the public to promise to take their individual steps towards protection of Nature and environment. The event was coordinated by Ms. Sendra Pereira.





- VI. Ms Sendra Pereira was the coordinator of the outreach programme which was conducted through NGO- Uzwaad - the rays of hope on the occasion of Goa liberation day 19th December 2022, titled 'igniting the rays of hope' at Camrabhat, Taleigao at 9.30, the team performed awareness skit titled ' school chale hum' depicting importance of education for successful future. Dance and painting competition on theme Goa was also organized. This program aimed towards creating awareness on the importance of education for a better future of the state and country. Focusing on the goal of giving opportunities for identifying and uplifting the hidden talents among the kids. 10 students of the Philosophy department participated.
- VII. On the Occasion of Women's Day , 8th of March 2023 ,Uzwaad the Rays Of Hope( NGO) had a grand opening to its Month- long campaign on 'Gender Equity'. The inaugural performance was in collaboration with Hospitality and Culinary Education (GCHCE), Dona Paula , team Uzwaad presented an inspirational awareness session on 'Gender Equity' covering up topics based on menstruation, menopause, gender equity. Street play and Flash Mob was also performed, at Miramar Beach, Panaji- Goa. Ms. Sendra Pereira coordinated the event. 8 students of the Philosophy department participated.



### Creating awareness on Gender Equity

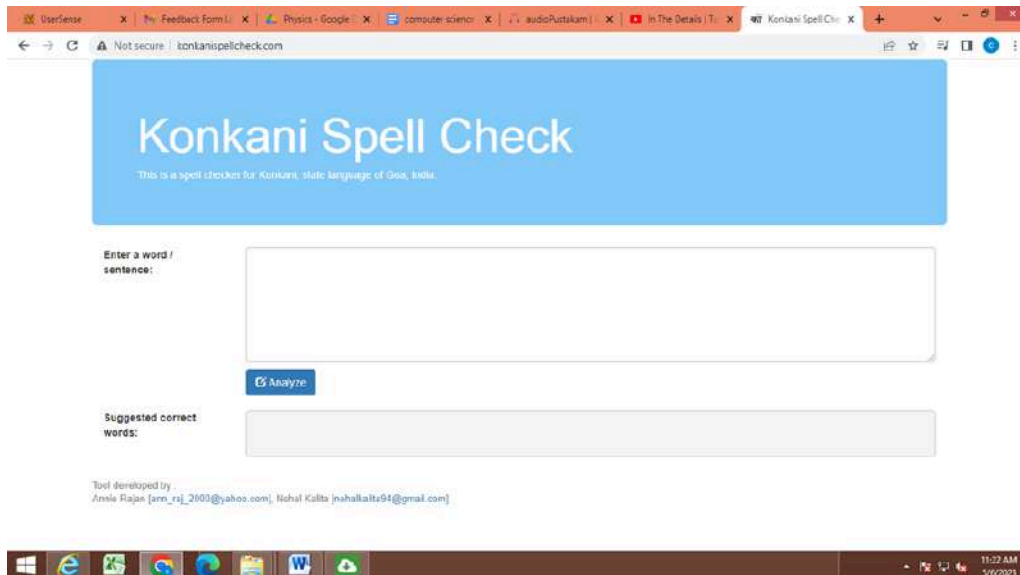
On the occasion of International Women's Day, Uzwaad the Rays Of Hope, an NGO had a grand opening to its month-long campaign on 'Gender Equity'. The inaugural performance was in collaboration with Hospitality and Culinary Education (GCHCE), Dona Paula, as team Uzwaad presented an inspirational awareness session on 'Gender Equity' based on topics like menstruation, menopause and gender equity. Street play and Flash Mob was also performed, at Miramar Beach, Panjim. The month long journey on 'Gender Equity' will include conducting awareness sessions at different educational institutions across the state, performance of street plays at public places, reaching out to audiences and sensitizing the audience about issues faced by women and other genders. Awareness will also be created on social media through the videos. Uzwaad is continuously working to make a difference, to build a better future.



### Department of Indian Languages

Mrs. Anju Sakhardande: Assisted in the development of audio books titled 'Audiopustakam' and also in the development of a website by Ms. Annie Rajan as an Interdisciplinary activity [www.audiopustakam.com](http://www.audiopustakam.com) which included audio for std. I to std. IV for Konkani State Language of Goa. (Typed the book in Devanagari script and then gave a Voice over to two books of Standard II and Standard IV).

- Also sponsored one Set of Std. I to IV to Konkani Bhasha Mandal for their Primary school in Konkani medium on 1st October, 2022
- Assisted in the development of a Spell Checker in Konkani by Ms. Annie Rajan as an Interdisciplinary activity.



- Spent 16 hours for an Inter-disciplinary approach -Computer terminology in Konkani Language– Part 9 (link for the same is <https://www.youtube.com/watch?v=g1jFv1WEGug> on the you tube by month end of March, 2023.


**DCT's**  
**Dhempe College of Arts & Science**  
 Miramar, Goa

**Department of Indian Languages**  
 in collaboration with  
**Institution's Innovation Council**

Invites you to the completion of 30 years for  
**"Inclusion of Konkani Language in  
 the Eighth Schedule of the Indian  
 Constitution"**  
 by  
 Launching  
 **audioPustakam**  
 website  
 Developed by **Mrs. Annie Rajan**  
 Associate Professor, Computer Science

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Date : **20 August 2022**  
 Time : **10:00 am**  
 Venue: **SV Hall**

## Konkani textbooks in audio format launched 'It will help students, slow learners'

Staff Reporter  
Panaji

On completion of 30 years since the inclusion of Konkani in the Eighth Schedule of the Constitution, the Department of Indian Languages, Dhempe College of Arts & Science, Miramar, in collaboration with Institution's Innovation Council on Saturday launched a website and a device 'audioPustakam' which provides Konkani textbooks for Classes I to 4 in an audio format.

The device and website have been developed by associate professor, computer science, Annie Rajan.

"This tool is good for students, especially slow learners, and can be used during remedial classes for revision," said Rajan, who has a background in MSc electronics. There is only one knob to navigate and the student can just press the button and listen.

Two professors from the college, Anju Sakhardande and Eesha Shetty, who have done MA in Konkani, have given their voice for the audio textbooks.

Since emphasis is laid on teaching in the mother tongue up to a particular

grade, this tool will help students in improving their skills of speaking and understanding Konkani. "Also, according to Census 2011, the population of Konkani speakers has reduced and so we wanted to change this," said Rajan. Two schools have already expressed interest in using the device, she informed.

Chief guest for the event, assistant professor at Nirmala Institute of Education Russell D'Souza said that learning happens through listening. "Listening and learning is one aspect and writing and reading is another aspect. So these audio textbooks can be used to listen and to reflect," he said.

D'Souza and Rajan intend to do a study to find out how the devices have helped students improve their Konkani learning skills. For this, they need the co-operation of at least four schools. They are also looking for sponsors so that they can make available more devices to schools.

(The Konkani textbooks for Class I to 4 are available for free at [www.audiopustakam.com](http://www.audiopustakam.com))

audioPustakam

HOME LANGUAGES ABOUT CONTACT

**Audio Text Books for Indian Regional Language**

Learning is more fun and effective in classrooms supported by learning resources. Audio textbook in regional language will help students learn and grasp fundamental concepts more quickly in their home language/mother tongue.

**Goa-Konkani**

Konkani is an Indo-Aryan language spoken by the Konkani people, primarily along the western coastal region (Konkan) of India. It is one of the 22 scheduled languages mentioned in the 8th schedule of the Indian Constitution and the official language of the Indian state of Goa. The first Konkani inscription is dated 1937 A.D. It is a minority language in Karnataka, Maharashtra, Kerala, Gujarat and Odisha and Nagar Haveli and Daman and Diu.

[Click here to get the audioPustakam](#)

audioPustakam

HOME LANGUAGES ABOUT CONTACT

**KONKANI**

Text books used here is from DCERT GOA

**STANDARD**

- Class I
- Class II
- Class III
- Class IV

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- Presented a kit of Audio Pustakam which contained four devices which included the pre-recorded text book of Konkani from STD. I to IV.



- Mrs. Anju Sakhardande Translation of scientific words for audience in local language [state language of Goa, Konkani (Devanagari script)] Computer terminologies in Konkani Language– Part 9  
<https://www.youtube.com/watch?v=g1jFv1WEGug>



Date of upload : 19th January 2023.



- Mrs. Anju Sakhardan online Spell Checker Assisted in the development by validating the Konkani content for the State language of Goa. This spell checker is freely available on [www.konkanispellcheck.com](http://www.konkanispellcheck.com) in Devanagari script with a corpus of 54,295 root words.

# Online Konkani spell checker in Devanagari script developed by Dhempe College lecturer

The free to use spell checker has a corpus of 54,295 root words

SHASHWAT GUPTA RAY  
dhempecollege@gmail.com

**PANJIM:** With growing use of Konkani language in Devanagari script, a senior Computer Science faculty at the Dhempe College has developed an online Konkani spell checker in Devanagari script to help the users deliver error-free work.

This is the first attempt to develop a spell checker for a low-resource language, Konkani, in Devanagari script with a corpus of 54,295 root words.

"Today we are seeing a lot more publishing work happening in various domains in Konkani language using



**WORKING TOGETHER:** Head, Department of Indian Languages, Dhempe College Anjali Prasad Sahasrabudhe (left) validates the Konkani spell checker developed by Associate Professor in Computer Science Annie Rajan

Devanagari script. That is why there's a need to deliver quality work. With this objective, we have developed Konkani spell checker software in Devanagari

script to help the users deliver error-free work." Associate Professor in Computer Science, DCT's Dhempe College of Arts and Science, Miramar, Annie Rajan

Operable Edition

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## THE KONKANI SPELL CHECKER

- Has a corpus of 54,295 root words
- Analysis done on the basis of morphology
- Two dictionaries used - XML and manual
- Designed using a Python-based web framework
- Will help users deliver error-free work

told O Herald.

Rajan said, "The design and implementation of the spell checker was challenging."

Contd on Pg 9 >>

# Now, a spell checker in Konkani

Annie Rajan's recently developed spell checker for Konkani ensures that your written communication is accurate and error-free

HUMANISED FOR NEUROTYPE

A report of the recently developed online Konkani spell checker, Annie Rajan's recently developed spell checker for Konkani ensures that your written communication is accurate and error-free. The spell checker is designed to help users deliver error-free work. It has a corpus of 54,295 root words and is designed using a Python-based web framework. It will help users deliver error-free work.



While working on any computational linguistic tool a few parameters need to be taken care. The corpus used should have a comprehensive corpus, spelled words, the morphological dictionary should be regularly updated and the spell checker should be fast and efficient.

While working on any computational linguistic tool a few parameters need to be taken care. The corpus used should have a comprehensive corpus, spelled words, the morphological dictionary should be regularly updated and the spell checker should be fast and efficient.

The spell checker is designed to help users deliver error-free work. It has a corpus of 54,295 root words and is designed using a Python-based web framework. It will help users deliver error-free work.

J. Pereira  
27/9/2023

Convenor  
Extension & Outreach  
Committee 2022-2023

Principal  
Dempo Charities Trust's  
Dhempe College of Arts & Science,  
Panaji - Goa.

