DEPARTMENT OF PHYSICS

Two days' workshop

"ADVANCES IN SOLAR SCIENCE: **TECHNOLOGY AND INNOVATION" (ASSTI-2022)**

Dates: 2-6-2022 and 3-6-2022

For most organizations, the two largest energy consuming sectors are commercial buildings and fleet vehicles. The major challenge is to maximize energy efficiency while maintaining a comfortable environment that promotes occupant productivity, satisfaction and well-being. These can be achieved to a large extent by harnessing different renewable energy sources.

Because of the government's mandate as well as to reduce the carbon footprint, industries all over the country are rushing to establish startups for setting up Solar power generation and its allied services. Solar power generation, distribution and utilization involve a number of processes. Maximum energy efficiency requires properly designed materials, modules, and associated hardware.

To make the younger generation aware about the opportunities and challenges in the solar industry field, Physics department of SKE's GSS College organized a National Workshop on "ADVANCES IN SOLAR SCIENCE: TECHNOLOGY AND INNOVATION" on 2nd and 3rd June 2022 by inviting eminentpeople working in this field. The workshop was conducted in Hybrid mode for the first time in the college.

The workshop was inaugurated by Shri Kiran Thakur, Chairman, SKE Society. Prof. P. S. Patil, ProVC, Shivaji University, Kolhapur, an eminent scientist ranked amongst the top 2% in the research field delivered the keynote address in virtual mode. He talked about the preparation methods and properties of materials required for harvesting solar energy.

The first invited talk in the technical session on "Solar Technology, Future and Job Potential" was given by Mr. Praful Roogi of "MAGNUM TECHNOLOGIES, Bangalore". The second technical and interactive session addressed by Shri Dhananjay Patankar, from "TATA POWER" focused on "Solar energyscenario, Opportunities and Challenges", which was followed by poster presentations by student delegates. Atotal of 12 teams participated in the poster presentation competition.

On the second day, again two technical sessions were conducted, one from industry and the other from academia. Shri Rounak Sheri, CEO of "EFFICEINT ENERGIES", Belgaum discussed about "Insights on Solar Power" and job opportunities in the field. The second technical session "Energy Storage" and the research methodologies, was delivered by Dr. K. K. Sharma, Director, School of Nano science and Technology, Shivaji University,

GSS College, Belagavi

Kolhapur. This was followed by an exhibition of various devices employing solar energy such as solar heater, solar vegetable drier, solar panel cleaner (Manual), mini robot solar panel cleaner, solar tracking system, etc.

The valedictory function was presided over by Mrs. M. M. Shanbhag, Vice Chairman, G.S.S collegemanaging committee. Dr. K. K. Sharma addressed the delegates and appreciated the efforts of the organizers for focusing on skill development through the workshop. He also gave away prizes to two teams for securing first and second place in the poster competition.

A total of 130 student delegates and 30 faculties participated and benefitted from the workshop. The department is thankful to SKE Society for the encouragement and financial assistance. I am grateful to our principal, Shri B.L.Majukar for his wholehearted support. I also thank all the members of the organizing committee for their efforts in making the workshop successful.

> Dr. S. S. Kalagi **Organising** Secretary ASSTI-2022

REPORT

TREE PLANTATION DRIVE

NCC- AIRWING

B FLIGHT, 8 KAR AIR SQN NCC, BELAGAVI

On Saturday 8th July 2023, cadets of NCC air wing, GSS College participated in tree plantation drive which was organized by SKE Sport academy. Principal Shri B. L. Majukar provided seedlings of Peepal, Banyan, Almond, Jackfruit tree etc. Plantation was done on the Platinum Cricket Ground of SKE Society's Sports academy, Angol Belgaum where more than 25 seedlings were planted.

Before plantation, Principal B. L. Majukar explained importance of plantation trees and created awareness about recent environmental conditions of the Belgaum region.

30 cadets of NCC air wing showed active participation. On the occasion, Principal along with management members of SKE society were present.





IQAS Co ordinator GSS College, Belagavi Principal G.S.Sc. College, Belag

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10	KA21SWF201839	Cdt	Shivani Desai	SW	JAB
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NATIONAL SERVICE SCHEME (N.S.S.)

On 18 Sept 2022 I took charge of NSS. On 24-Sept-2022 NSS -Foundation day was celebrated during which newly joined NSS volunteers and the earlier volunteers attended the function. During this function Prof. P.S.Patil Physics department GSS College who was earlier NSS Officer spoke on the event. Sir gave a broad outline of NSS and importance of NSS. Volunteer's role in NSS activities.

I Bharati R Sholapurmath introduced the guest.

On 2-10-2022-we celebrated Gandhi Jayanthi. On the occasion Dr.Santosh Jaygoudar was the guest.

On 18-10-2022.Our volunteers participated in a 1 day workshop entitled "Love India, Serve India" organised by Ramakrishna Mission.

On 20-10-2022 Clean India 2.0 camp.at Bhagya nagar Belagavi. During this our volunteers cleaned surrounding area of Bhandari school to till Rama mandir in Bhagyanagar. Clean India 2.0 camp was a mega event.

On 24-10-2022- we celebrated U.N.O. Day Dr. R.K Patil sir from RPD College was the chief guest of the function. On this occasion sir delivered a wonderful lecture on UNO and its role in maintaining human rights and why it is celebrated. Volunteers were enriched with the knowledge about role of WHO and Human rights.

Traffic week was observed from 24-10-2022 to 30-10-2022, our volunteers attended the guest lecture of Dr.Prasad Deshpande from Zoology department GSS college Belagavi. In spite of his busy schedule he graced the occasion and enriched our volunteers.

On 31-10-2022- we celebrated Savings day and National Integration day. Vice Chairman of SKE Society Prof.S.Y. Prabhu sir graced the occasion. Sir was former Principal and HOD of Zoology department GSS College Belagavi .Prabhu sir effectively spoke on importance of savings, How it helps in need. Sir mainly spoke on National Integration day. How unity helps in achieving the greatest things with less effort.

On 16-11-2022 a special guest lecture by JANAGRAHA an NGO was organised. GSS College NSS UNIT organised a special guest lecture on awareness programme on Ward Committee Act Amendment by Karnataka. Chief guest was Mrs. Gouri Gajbar . She was accompanied by 3 other members of Janagraha Belagavi Ward Samiti Balaga Janagraha NGO. Namely Smt. Sushma Bhat .

From 19-11-2022 to 18-12-2022 Quami Ekta Week. During this period volunteers took part in

various activities representing Quami ekata.

Principal
G.S.Sc. College, Beladavi

On 22-11-2022 Weaker Section day was observed. During which Dr.Santosh Jaygoudar sir from Botany PG department GSS College was invited as guest. Sir spoke on what is weaker section what is the importance of the day. From which volunteers enriched with the knowledge. On 25-11-2022 a special Booster dose Camp was organised in Open air theatre in the campus. A number of students, lecturers and public got benefited. This was organised under Gram Panchayat Arogya Amruth Abhiyan.

World AIDS day was observed on 01-12-2022. On this day I and all NSS volunteers visited Mahesh foundation. An informative lecture was delivered by Shri. Mahesh Jadhav. Mahesh foundation is one of the leading NGOs in India working for AIDS affected children's and provides shelter to such children's. We organised day meal and distributed fruits to the HIV positive children's.

GSS College Belagavi NSS UNIT organised HAR GHAR DHYAN programme on 20-12-2022 at Yoga class room. The programme was arranged according to the instruction of Art of Living instructed through NSS Cell.

On the occasion Yoga Guruji Shri Murulidhar Prabhu graced the function. Murulidhar Prabhu Guruji is a well known personality in the field of Yoga at Belagavi. Guruji and many of his students are Gold medallists in National level yoga competitions.

GSS College Belagavi NSS Unit volunteers participated in Yogathan held on 15-01-2023 at Swarna Vidhana Soudha Belagavi.

The mass yoga drill was organised by the Karnataka Sports and Youth Empowerment Department

The Karnataka Sports and Youth Empowerment Department created a new record on Sunday by organising a mass yoga performance, which witnessed the participation of over six lakhs people

About 20,000 participants participated from various departments. Of which NSS also contributed to the event. In which GSS College NSS UNIT also participated.

From 01-07-2023 to 07-07-2023NSS Annual Camp was held in an adopted village called Waghwade. Camp was inaugurated by Shri R.K.Patil. A.P.M.C. member and Rtd school head master. Along with all village eminent persons Principal .Prof. B. L Majukar sir graced the camp as the president of the function. During which various activities were organised. Of which health camp was organised for Waghwade people and surrounding area people took benefit ChikunGunya was spreading widely. Volunteers along with school children's and school teachers planted plants. A series of lectures on different topics were organised.

On 08-07-2023 SKE Society organised tree plantation programme in society's own area next to Santha Meera School Angol Belagavi. On the occasion NSS volunteers planted many plants.

On 15th August NSS volunteers participated in college parade.

FIT INDIA Movement was observed from 21 -12-2023 to 29-12-2023 in the memory of Major Dhyan Chand Indian Hockey player. On 26th and 28th August 2023 GSS College observed FIT INDIA movement in which we organised various Indian games, athletics, and other activities. With this I would like to thank Principal Shri. B.L.Majukar sir for giving me this opportunity to serve as NSS Officer .I also thanks Shri. S. Y. Prabhu sir for his cooperation. I thank P.S Patil sir former NSS Officer for his guidance . I also thank Shri Prashant Mankale sir for his cooperation. I also thank all NSS Volunteers for their active support and participation.

Prof. Smt. B. R.

Sholapurmath

NSS Officer

NCC ARMY WING (SD) ANNUAL REPORT 2022-23

2/26 KAR.BN.NCC RPD/GSS COLLEGE BELGAVI

Capt (Dr).M.S.KURANI COY. COMMANDER,

26. KAR.BN.NCC (Army-Boys) RPD/GSS NCC UNIT BELGAUM

It gives me an immense pleasure to present the report of NCC Army Wing for the year 2022-23. Our activities commenced in the month of October with enrollment of the allotted strength of 108 cadets for the year 2022-23 As many as 22 Cadets have attended C cert and 36 Cadets have attended B certificate examinations conducted by Belagavi NCC Gp Head Quarters in the month of Feb 2022. Our cadets excel in B Certificate (100%) and C Certificate (96%) examination conducted by NCC Belagavi Gp HQ Belagavi in Feb 2023.

* NCC NATIONAL LEVEL CAMP ACHIEVEMENTS -2022-23

	SL NO	NAME OF THE CADET	NAME OF THE CAMP	LOCATION	DATE
0	01	SUO.SHIVAJI TIBALE	IMA	DEHRRADUN	DEC 2022
QAC Colle	ge, E	linator Belagavi		Princ G.S.Sc. Collec	Str.

02	SUO.RUTHIK.KENNURKAR	PRE-RDC	BANGALORE	NOV 2022
03	JUO.ELTEN BORGES	EK BHARAT SHRESHT BHARAT	BELAGAVI	OCT 2023
04	CDT.KEDAR.APTEKAR	ALL INDIA TREKKING CAMP	BELAGAVI	DEC 2023
05	JUO.ADITYA. TAMMAMACHE	SPECIAL NIC	JAISLMER- RAJASTHAN	OCT 2023

* SOCIAL AWARENESS PROGRAMMES CONDUCTED BY THE INSTITUTION

S L NO	NAME OF THE ACTIVITY	DATE AND VENUE
01	Observation of International day of YOGA	21 ST JUNE 2022
02	Observation of Kargil Vijay Diwas	26TH JULY 2022 OPEN AIR THEATRE RPD COLLEGE
03	Cleaning Programme	15TH Aug 2022 RPD campus
04	Essay writing competition	24t TH June 2022 RRP DCOLLEGE
05	Gandhi Jayanti and Swatch Bharat Abhyana	2 nd Oct 2022
06	Cleaning Programme	26 th Jan 2022
07	Participation in Republic day parade organized by District administration Belagavi	26th Jan 2023

IQAC do dinator GSS college, Belagavi

Principal
G.S.Sc. College, Belagavi

08	Blood donation camp-	26.bn Belagavi in Nov 2023.p
9	Tree plantation	25 TH Nov 2013
10	Literavy programme for slum people	Jan 2023

The last parade was conducted on 26th January 2023 and cadets were advised to follow aims and objectives of NCC. We express our heartfelt Thanks to the Commanding Officer and Adm officer of 26 Kar Bn Belgavi, Principals of RPD College for their kind cooperation and help. We are grateful to Chairman and Members of management of SKE Society for their support and co-operation to complete NCC activities successfully.

2/25 KAR BN NCC ARMY GIRLS WING

I am happy and privileged in presenting the NCC report of senior wing unit for the year 2022-23. On 25 Oct.2022 enrollment of the cadets was done after Physical and written test by the committee of NCC. The PI staff had come for the selection of the cadets.

The total strength allotted by the unit is 52, out of which

First year - 11

Second year - 18

Third year - 23

The camps attended during the training year are:

Sr. No.	Name of the Camp/Location	No. Of Cadets	Date
1.	ATC Camp Belagavi	15	01.06.2022 TO 10.06.2022

IQAC Co-ordinator GSS College, Belagavi

CATC Camp Belagavi.	11	29.07.2022 TO 07.08.2022
TSC -I Belagavi.	4	02.07.2022 TO 11.07.2022
TSC –II Belagavi	2	14.07.2022 TO 23.07.2022
TSC -III Belagavi	2	29.07.2022 TO 07.08.2022
TSC -IGC I-I Moundbird Mangalore	2	7.08.2022 TO 16.08.2022
TSC –IGC –II Mangalore.	1	27.08.2022 TO 05.09.2022
	TSC –II Belagavi TSC –III Belagavi TSC –IGC I-I Moundbird Mangalore	TSC –II Belagavi 2 TSC –III Belagavi 2 TSC –IGC I-I Moundbird Mangalore 2

Following are the major activities conducted during training year 2021-22.

- World No Tobacco Day- Anti- Tobacco Rally on 30.05.2022
- International Yoga Day celebration on 21.06.2022
- Quit India Moment- Vocal for local on 9.08.2022.
- Kargil Vijay Diwas on 26 July 2022
- Har Ghar Tiranga 13 Aug 2022.
- Azadi ka Amrut Mahostav Independence Day Celebration 15 08.2022

'B' and 'C' Certificate Examination 2020-21

No. of cadets Appeared	No. of cadets Passed	Percentage
11	9	81 %
18	17	94 %

I express my deep sense of gratitude to the Commanding officer 25 KAR BN NCC Belagavi, management SKE Society, Principal of G.S.Sc College for their motivation and support.

Coy Commander

Lt Ms. Priyanka S. Kundekar

25 KAR BN NCC

Belagavi.



AIR WING NCC

['B' Flight, G. S. Sc. College, Belgaum]

Annual Report: 2022-23

NCC Air wing sets new standards of achievements in various fields every year. The year began with the enrolment of students which was held on 08 Aug 22 after physical test, written test and interview. The strength after enrollment wasasunder:

Year	Boys(SD)	Girls (SW)	Total
First	20	17	37
Second	14	15	29
Third	23	11	34
Total	60	40	100

➤ Republic Day Camp 2023:

This year two cadets from B flight were selected

- Cdt/SGT MANRTHAN PATIL was selected for RDC and selected in All India Kartavya Path Contingent
- 2. Cdt. TRUPTI PATIL was selected for RDC and represented in NCC PM Rally.

➤ All India Vayu Sainik Camp 2022:

Following are the GSS Cadets of 8 Kar Air Sqn NCC, Belgaum who got selected and participated in ALL INDIA VAYU SAINIK CAMP (AIVSC) held in Jodhpur Rajasthan during the month of September and October 2022.

- 1. CUO. PRANJAL MIRAJKAR participated in Drill and contingent secured 5th rank
- Cdt. SIMRAN RAGHAV and Cdt. ROOPSANGAM SHARMA participated in Static Aero modelling and secured 4th rank
- Cdt. NIDHI K PATIL and Cdt AJEET KULKARNI participated in Remote Control Flying and secure 6th rank

EK BHARAT SHRESTH BHARAT CAMP 2023:

IQAC Co-odinator

Our cadets participated in EK BHARAT SHRESTH BHARAT-II of NCC at PRTC, Toranagallu, Bellari which was held during 16 January 2023 to 27 January 2023. They participated in various events showing national integration.

> 75th Independence Day

We celebrated the 75th Independence Day "Azadi Ka Amrut Mohatsav" with boundless enthusiasm and patriotic fervour on Monday, 15 August 2022. On this occasion SKE society's all institutions participated with huge numbers. The event commenced with the hoisting of the National Flag by The SKE Chairman, Shri Kiran Thakur followed by the National Anthem. Day was celebrated with parade of various institutes and NCC contingents, patriotic songs, dances and acts.

> Republic Day

On 26 January 2023 we celebrate republic day with great enthusiasm. The flag hoisting took place at 8 am followed by national anthem.

Yogesh M. Kutre
Fg Offr
ANO, B FLIGHT, 8 KAR AIR SQN NCC
G.S. S. College, Belagavi.

YOUTH RED CROSS WING

Following activities performed by Youth Red Cross Wing.

- 1. 77th Independence day celebration on 15/08/2023 in GSS college, Belagavi
- 2. General health check-up camp for the Non-teaching staff of the college. Date 16/12/22
- 3. Dental check up camp" at GSS college, Belgaum By Maratha Mandal Halgekars institute of Dental science and research center ,Belgaum, 29/08/2022
- 4. As a programme officer of Youth Red Cross wing of GSS college, Dr. Y.B.dalvi was invited as a president of the Function at NSS camp held at Wagavde, Belgaum. 3/07/2023.

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IQAC Co-ordinator GSS College, Belagavi Principal
G.S.Sc. College, Belagavi

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IQAC Co-ordinator GSS College, Belagavi Principal
G.S.Sc. College, Belagavi

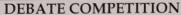
DEPARTMENT OF GEOLOGY

Geo-Forum

GEOTECTONICS-2023 Report

Department of geology conducted intra-class event "GEO-TECTONICS 2023", learn with fun.. on 28 and 29 July 2023. The event was in its 7th consecutive year and one of the best practices of the department which provides a great platform for students to express their talent. Event consist of various competitions such as debate, quiz, presentations, treasure hunt, poetry, essay, drawing etc. based on 'Geology' theme. By considering recent trends among students two new events were added i.e. documentary and reels where all B.Sc. geology students participate wholeheartedly for two days. Event has contributed significantly in creating curiosity and interest about the subject. Groups were created consisting of all semester students. Every group competed in above events Eight groups consisting of 10 to 12 students participated and competed for general championship. Winners were awarded with certificates.

Highlights of the events:







QUIZZ COMPETITION





POWER POINT PRESENTATION COMPETITION





POETRY COMPETITION



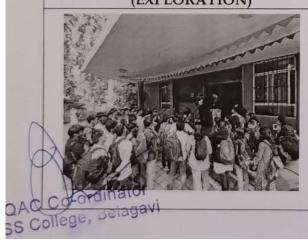


DRAWING COMPETITION





(EXPLORATION)



EVENT MANAGING TEAM



G.S.Sc. College Calagavi