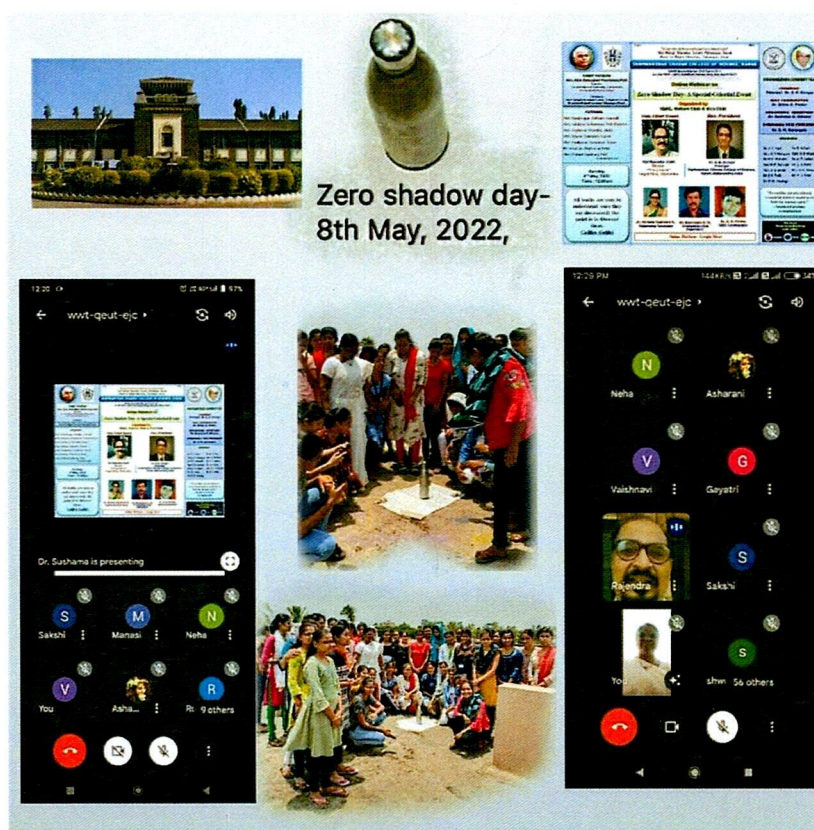


YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Activity Report, 2021-22

Name of the Department	Ladies Hostel
Title of the activity	Zero Shadow Day- A Special Celestial Event
Date	8 th May, 2022
Invited Guest (Online)	Hon. Shri. Rajendra Joshi Director – “Nisang Samvad” Sangli- Miraj, Maharashtra Mobile No. 8237213379
Involved Beneficiaries	Hostel Girl Students
No. of Beneficiaries	62
Outcome/Success achieved	To know science behind this Special Celestial Event




Program In-charge


IQAC Coordinator


Principal
Principal
Yashwantrao Chavan College of Science
Karad

**Webinar on –
Zero Shadow Day:
A Special
Celestial Event
Date: 08.05.2022**

Google Meet:
<https://meet.google.com/wwt-qeut-ejc>
(For Chief guest)

**No. of Participant
(Offline) : 84**

Principal

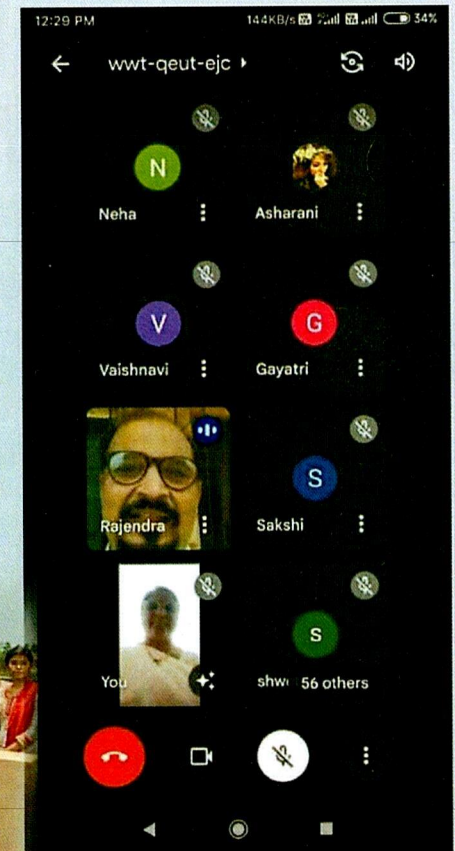
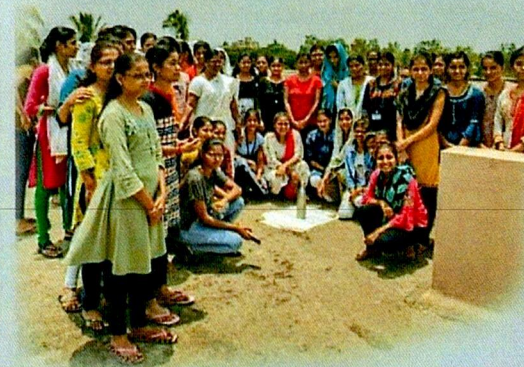
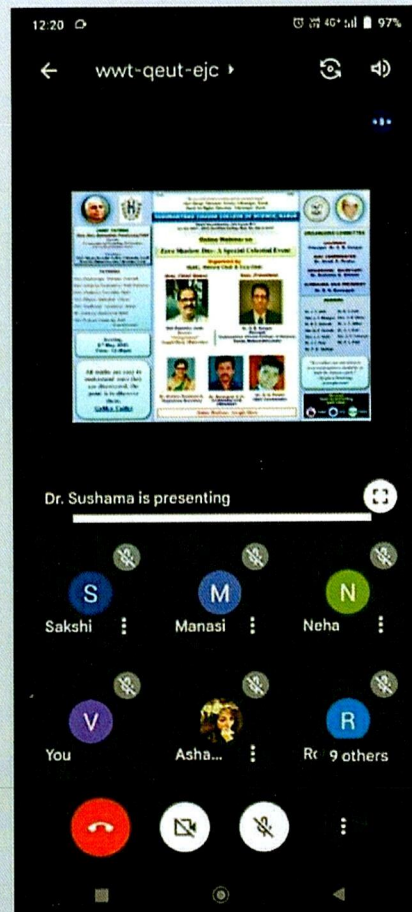
Yashwantrao Chavan College of Science
Karad



Yashwantrao Chavan
College of Science, Karad



Zero shadow day-
8th May, 2022,



Yashwantrao Chavan College of Science, Karad
Webinar on
Zero Shadow Day- A Special Celestial Event
Organized by
IQAC, Nature Club & Eco Club
8th May, 2022

Chief Guest: Hon. Shri. Rajendra Joshi
Director – “Nisang Samvad” Sangli- Miraj, Maharashtra
Mobile No. 8237213379

Yashwantrao Chavan College of Science- IQAC, Nature club and Eco Club has organized webinar and demonstration on- Zero Shadow Day- A Special Celestial Event on 8th May, 2022 at 12.00 pm onwards. The Chief Guest was Hon. Shri. Rajendra Joshi, Director – “Nisang Samvad” Sangli- Miraj, Maharashtra.

The main purpose of this program is to know science behind this event - “Special celestial event - zero shadow day”

The lack of shadow is beautiful too. And it happens twice a year, for places between +23.5 and -23.5 degrees latitude. The Sun is almost never exactly overhead at noon, but usually transits a bit lower in altitude, a bit to the north or a bit to the south. We have all studied in school that the Earth's rotation axis is inclined at 23.5 degrees to the plane of its revolution around the Sun, which is why we have seasons. This also means that the Sun, in its highest point of the day, will move from 23.5 degrees south of the celestial equator to 23.5 degrees north of the equator (Uttarayan), and back again (Dakshinayan), in a year. Of course, the northern most and southern most points are the two solstices, and the crossing of the Sun across the equator are the two equinoxes.

For people living between +23.5 and -23.5 degrees latitude, the Sun's declination will be equal to their latitude twice - once during Uttarayan and once during Dakshinayan. On these two days, the Sun will be exactly overhead at noon and will not cast a shadow of an object on the ground. This **Zero Shadow Day** will clearly be different for different places on earth.

Total - **62 Students** have attended this program. They are very eager, curious to know about this event. Hon. Shri. Rajendra Joshi has given information. The student have perform the experiment also.

Karad: 17.2777° N, 74.1844° E


Principal
Yashwantrao Chavan College of Science
Karad