



**SREE SIDDAGANGA COLLEGE OF  
ARTS, SCIENCE AND COMMERCE FOR WOMEN**

**B. H. ROAD, TUMKUR - 572102. KARNATAKA.**



To  
IQAC Coordinator  
SSCASCW  
Tumkur

Date:06/03/2026

Respected Sir,

**Subject: Permission to Visit IISc Open Day.**

I respectfully request permission to take the III B.Sc. Physics students to visit the Open Day at the Indian Institute of Science (IISc), Bangalore on 7th March 2026. This visit will provide the students with an opportunity to explore advanced research laboratories and observe ongoing scientific activities at IISc. Such exposure will be highly beneficial for enhancing their academic knowledge and motivating them towards research in the field of physics.

I kindly request you to grant permission for this educational visit.

Thanking you

Yours faithfully,

*Ahalya H.G.*  
Ahalya.H.G.

Convener

Department of Physics

SSCASCW, Tumkur

*S. J. P.*

IQAC Co-ordinator

Co-ordinator

IQAC/NAAC

SSCASCW, Tumkur



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**B. H. ROAD, TUMKUR - 572102. KARNATAKA.**

To  
The Principal  
SSCASCW  
Tumkur

Date:06/03/2026

Through:  
The HOD, Department of Physics  
SSCASCW, Tumkur

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Convenor  
Department of Physics  
SSCASCW, Tumkur

*S. L. K. P.*  
IQAC Co-ordinator  
Co-ordinator  
IQAC/NAAC  
SSCASCW, Tumkur

*[Signature]*  
Principal  
Sree Siddaganga College of Arts  
Science and Commerce for Women  
B.H. Road, Tumkur.



# **SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN**



**B. H. ROAD, TUMKUR - 572102. KARNATAKA.**

## CIRCULAR

Date: 02/03/2026

All the students of III B.Sc. Physics are hereby informed that an educational visit to the Open Day at the Indian Institute of Science (IISc), Bangalore has been planned on 7th March 2026.

*Signature of convenor*  
Signature of convenor

III B.Sc *Signature*

*Signature*  
Co-ordinator  
IQAC/NAAC  
SSCASCW, Tumkur

*Signature*  
Principal  
PRINCIPAL  
Sree Siddaganga College of Arts  
Science and Commerce for Women  
B.H. Road, Tumkur.

**Sree Siddaganga college of Arts, Science and Commerce  
for Women, Tumkur**

**Department of Physics: One day Field visit to IISc Bangalore**

Sl.No	Students list	Combination	Phone No.	Signature
1	Seshmitta C.R	PM	7995043680	Seshmitta C.R
2	Kusuma.T.R	PM	6361469535	Kusuma.T.R
3	Bhoomika.M	PM	8971957160	Bhoomika.M
4	Aswiyaa	PM	7795902521	Aswiyaa
5	Prisha B.N	PM	9035028768	Prisha B.N
6	Namaatha A.G	PM	9945672489	<del>Prisha</del>
7	Kavya.B.N	PM	6361482934	Kavya.B.N.
8	Keerthana.R	PM	7019248641	Keerthana.R
9	Shwetha.R	PM	8861948144	Shwetha
10	Vandha.S	PM	9731202730	Vandha
11	Ankithashree.G	PM	9008634698	Ankithashree
12	Lekhana.G.N	PM	7022263545	Lekhana G.N
13	Pallavi.K.M	PM	9071502966	Pallavi KM
14	Ankithashree.G	PM	9008634698	
15	Harini J.R	PM	9972414959	
16	Sadiya Syedi	PCS	8431034491	Sadiya Syedi
17	Syeda Shaziya	PCS	8951082459	Syeda Shaziya
18	Veda.B.K	PCS	8792549478	Veda B.K
19	Mangalagowri	PCS	6364166335	Mangalagowri
20	Madhusree.N.H	PCS	8967242852	Madhusree N.H
21	Thamushree K.M	PCS	7411026307	Thamushree K.M
22	Preya.S.V	PCS	8147567969	Preya.S.V
23	Chandamma	PCS	8792298188	Chandamma
23	Ranjitha.R	PCS	6366573328	Ranjitha.R
24	Saujanya.B.C	PCS	8095755914	Saujanya.B.C
25	Rakshitha.H.M	PCS	9739195929	Rakshitha.H.M
26	Lakshmi.R.V	PCS	9945741905	Lakshmi R.V
27	Tomara Pani J.S	PCS	8197814529	Tomara Pani J.S
28	Subhna YR	PCS	7090562066	Subhna Y.R

29	Kusuma CR	PCS	8096969541	Kusuma CR
30	Naijashree M.P.	PCS	9148371139	Naijashree M.P.
31	Lekhana.R.D	PCS	7795454971	Lekhana.R.D
32	Bhumika C	PCS	9663426923	Bhumika C
33	priyanka M	PCS	8792639082	priyanka M
34	Theekareeshwari.T.S	PCS	8123756405	Theekareeshwari.T.S
35	Meghana.B	PCS	6363980760	Meghana.B
36	Lavanya.N.V	PCS	9986685535	Lavanya.N.V
37	Sushama.Y.R	PCS	7090562066	Sushama.Y.R
38	Kusuma	PCS	9945873935	Kusuma
39	Bhumika V	PCS	8861146825	Bhumika V
40	Anusha B.M	PCS	9880103791	Anusha B.M
41	Nisha Nandini	PCS	7676148636	Nisha Nandini
42	Ahalya H.C	Faculty	9986173172	Ahalya H.C
43	Pratibha.B	Faculty	989767231	Pratibha.B
44	Aruna Kumar.P	Faculty	9741581127	Aruna Kumar.P

Ahalya H.C.  
Convener.

S.K.P.  
Co-ordinator  
IQAC/NAAC  
SSCASCW, Tumkur

  
PRINCIPAL  
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B. H. ROAD, TUMKUR - 572102. KARNATAKA.



Tumakuru, Karnataka, India   
83qx+7q4, Gandhi Nagar, Tumakuru, Karnataka  
572102, India  
Lat 13.338333° Long 77.099493°  
Saturday, 07/03/2026 08:32 AM GMT +05:30



Loading...  
Saturday, 07/03/2026 10:42 AM GMT +05:30



# SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN



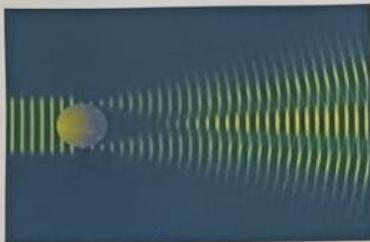
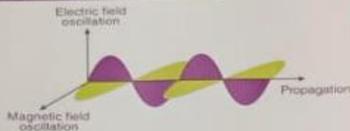
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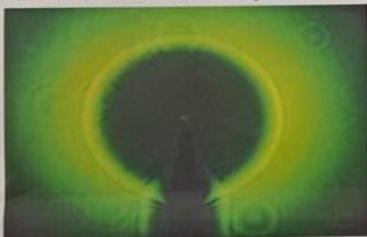
## Light in the Shadow: The Poisson Spot

### Wave - Particle Duality

#### ELECTROMAGNETIC WAVES



Light going to the centre of shadow travels exactly same distance and interferes constructively.



### De- Broglie Hypothesis

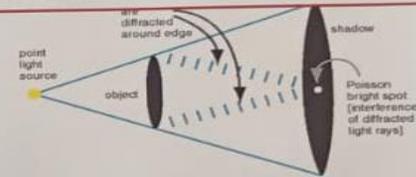
$$\lambda = \frac{h}{p}$$

Wavelength  $\lambda$  is related to Planck Constant  $h$  and Momentum  $p$ .



**Diffraction** : Light can bend around obstacle provided the size of the obstacle is comparable to its wavelength.

**Interference** : Interaction of waves with each other.



$$F = \frac{d^2}{\ell \lambda} \gtrsim 1$$

Labels: Fresnel Number (F), Diameter of the ball (d), Wavelength of laser ( $\lambda$ ), Distance of screen from aperture ( $\ell$ ).



# SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN



B. H. ROAD, TUMKUR - 572102, KARNATAKA.

### The Brachistochrone Challenge 🔥

Perhaps a circular arc?

I challenge the world!

The answer is a cycloid

### An optical solution to a mechanical problem 🕶️

Fermat's principle

$$\frac{\sin \theta_1}{\sin \theta_2} = \frac{n_2}{n_1} = \frac{v_1}{v_2}$$

Energy conservation for a particle sliding under gravity gives

$$\frac{1}{2}mv^2 = mgy$$

so that

$$v = \sqrt{2gy} \Rightarrow v \propto \sqrt{y}$$

Using the optical analogy, apply Snell's law for a medium where the speed depends on height:

$$\frac{\sin \theta}{v} = \text{constant}$$

$$\Rightarrow \frac{\sin \theta}{\sqrt{2gy}} = C$$

Solution of the form:

$$x = a(\theta - \sin \theta), \quad y = a(1 - \cos \theta)$$

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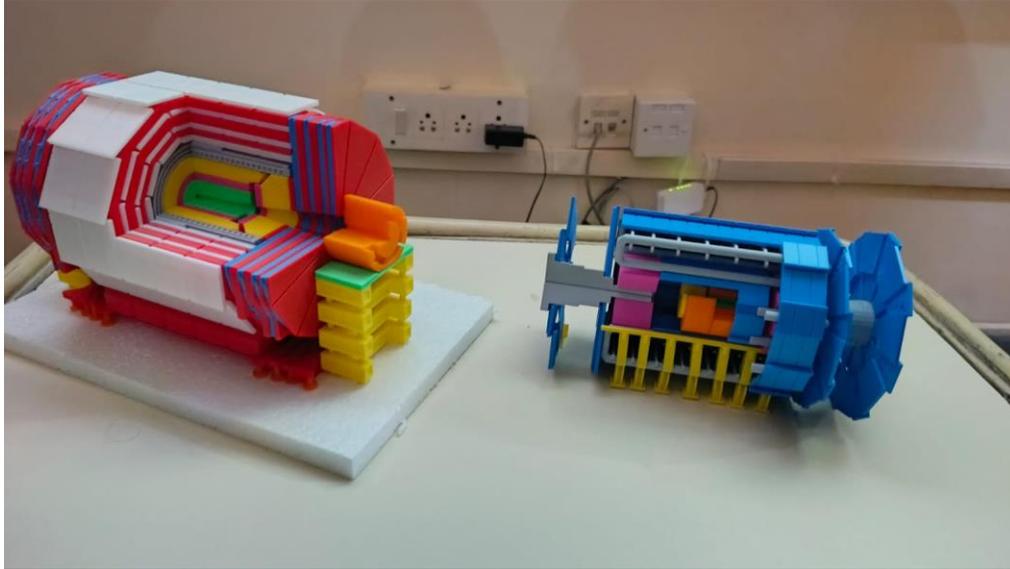
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# **SREE SIDDAGANGA COLLEGE OF ARTS, SCIENCE AND COMMERCE FOR WOMEN**



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## **Report on one day Field visit to IISc Bangalore**

The Department of Physics organized a one-day educational visit to the most renowned institute in India and abroad, the Indian Institute of Science (IISc), Bangalore, on the occasion of National Science Day (NSD-2026). The theme for NSD-2026 was “**Developing Scientific Temperament in Women.**” Being women, it is important for students to cultivate a research-oriented mindset in order to face the challenges of the upcoming society.

The Open Day at IISc provided an excellent opportunity for students to visit the campus and interact with research scholars, motivators, and professors from various departments. Our college students began their journey from Sree Siddaganga College of Arts, Science and Commerce for Women and reached IISc at around 10:30 a.m. During the visit, we explored one of the oldest libraries on the IISc campus, the JRD Tata Memorial Library, which is well known for its vast academic resources.

We then visited the **Department of Earth Sciences**, where research scholars explained the formation and classification of rocks and how temperature affects rock structures. They demonstrated these concepts using a compound microscope. By rotating the compound microscope, we were able to observe the internal structure of rocks clearly.

Next, we visited the **Department of Electronics**, which was the most exciting department for our students since Electronics is part of their current syllabus. In this department, students participated in quizzes and games, and our students won prizes. The prize winners were **Varsha S., Anusha B.M., Kavya B N, and Manasa K.**

Later, we visited the **Department of Physical Sciences**, where we attended an informative presentation on particle accelerators and concepts of particle physics. These topics were explained in detail by physicists and research scholars. After completing the visit, we returned to Tumkur. In total, **44 students and 3 teachers** participated in this educational program.

Analya H.G. B.M.E.  
Convener

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