



Shri Shivaji Education Society Amravati's  
**Shri Shivaji Science & Arts College**  
**Chikhli, Dist. Buldana- 443201(MS).**



## Department of Physics

**1) Title:** Bridge Course in Physics Practical for B.Sc.-I Students

**2) Date:** 22/07/2019 to 06/08/2019

**3) Coordinator:** Mr. N. B. Thakare

**4) Members:** Miss. Y. T. Suradkar, Mr. J. G. Chauhan, Mr. M.S. Rajput, Mr. S. P. Ingle

**5) No of Participants:**

**6) Objectives:**

- a) To bridge the educational gap between 10+2 and B.Sc. system.
- b) To prepare students ready to perform the practicals in the laboratory.
- c) To facilitate students with basic knowledge and training to calculate least counts of various instruments.

**7) Course Report:**

Students opting for B.Sc. Physics come from various educational backgrounds. They are expected to know some of the basic things e.g., calculation of least count of various instruments, error calculations, significant digits, etc. But they lack these understandings due to various reasons. In view of this, our department provide students an opportunity to learn the basics of experiments from the beginning. Students are given this course for approximately one month before the starting of actual experiments in the laboratory.

We conduct induction program for the newly admitted students to B.Sc. - I (Sem. -I) since last three years. In this program, students are given power point presentations based on “How to calculate Least Counts of various instruments”, “Significant digits”, Error analysis”, etc.

After power point presentation, measurements (e.g., Diameter & length of cylinder, breadth & thickness of iron block, Diameter of sphere, thin wire, thickness of glass plate etc.) using Vernier Calliper & Screw Gauge are explained by using simulations on ‘Amrita University Virtual Lab’ (A project is an initiative of Ministry of Human Resource Department under National Mission on Education through ICT.). A hand on training is also arranged for the students. Different modules are prepared in order to bridge the gap between 10+2 system and university education system. 73 students of B.Sc.-I were participated in this programme.

### 8) Outcomes:

- i) This practice helped students to calculate Least counts of various instruments and Error analysis.
- ii) When students actually perform experiments in laboratory then most of the students themselves take measurements of dimensions (i.e., breadth & thickness of a beam, radius of a wire etc.) of various objects.

### 9) Evidence of Success/Supporting Documents:



## 10) List of Participants:

Shri Shivaji Education Society Amravati's  
Shri Shivaji Science & Arts College, Chikhli, Dist. Buldana  
Department of Physics

Bridge Course: Academic Session: 2019-2020  
Duration: 22/07/2019 to 02/08/19

List of Participants:

S. N.	Name of Student	22-7-19	28-7-19	29-7-19	30-7-19	01-08-19	02-08-19	03-08-19	04-08-19	05-08-19	06-08-19
1	Jash R. Grandhore	P	P	P	A	P	P	P	A	P	P
2	Vijesh R. Bodke	P	A	P	P	P	A	P	D	D	P
3	Pragati A. Bhange	P	P	P	P	P	P	P	D	A	A
4	Akanksha K. Jadhav	P	P	P	P	A	P	A	P	D	P
5	Nikita D. Lahane	P	P	P	P	A	P	P	P	A	P
6	Swarni A. Dukare	P	A	P	P	P	P	P	A	P	P
7	Sakshi S. Ingle	P	P	P	P	P	P	A	P	A	P
8	Peiti K. Ingle	P	P	A	P	P	A	P	P	A	P
9	Ashwini S. Wokar	P	P	P	P	P	P	A	P	P	A
10	Komal Kavit Padghar	P	P	P	A	P	P	P	A	P	P
11	Rushikesh S. Rangale	P	P	A	P	P	P	A	P	P	P
12	Sapna R. Bhople	P	A	P	P	P	P	P	P	P	A
13	Anjali N. Pawar	P	P	P	P	A	P	P	P	A	P
14	Mansi S. Churavale	P	P	P	P	P	A	P	P	P	A
15	Dipika S. Sada	P	P	A	P	P	P	P	A	P	P
16	Abhishek S. Zankar	P	A	P	P	P	P	P	P	A	P
17	Saniket S. More	P	P	A	P	P	P	A	P	P	P
18	Peiti S. Gujar	P	P	P	P	P	A	P	P	A	P
19	Pratiksha P. Pawar	P	P	A	A	P	P	P	P	P	P
20	Gayatri P. Hoge	P	P	P	P	A	P	P	A	P	P
21	Yashraj P. Sogad	P	P	P	A	P	P	A	P	P	P
22	Apurva P. Torgre	P	A	P	P	A	P	P	P	P	P
23	Shubham R. Kolhe	P	P	P	P	P	P	P	P	D	A
24	Jayesh M. Zingre	P	P	P	P	P	P	A	A	P	P
25	Pranjali D. Unhale	A	P	P	P	A	P	P	P	P	P

26	Saniket S. Shrivastava	P	P	P	P	A	P	P	A	P	P
27	Rohit S. F. Shivik	P	P	P	A	A	P	P	P	P	P
28	Harshal A. Gadhale	P	P	P	P	P	P	P	P	P	A
29	Pranjali D. Khande	P	P	P	P	P	P	P	P	A	A
30	Akash S. Susodhan	P	P	P	P	P	A	A	P	P	P
31	Atli R. Pawar	P	P	P	P	P	P	A	A	P	P
32	Shivganga A. Lokhande	P	P	P	P	P	P	P	A	A	P
33	Ashwini P. Gajwad	P	P	P	P	P	P	P	P	A	A
34	Akshada A. Lokhande	P	A	A	P	P	P	P	P	P	P
35	Shivani S. Waghmare	P	P	P	A	P	P	A	P	P	P
36	Rahul D. Mosambi	P	P	P	P	A	P	P	A	P	P
37	Gajli G. Gadhale	P	P	A	P	P	A	P	P	A	P
38	Dhananjay N. Suresh	P	P	P	P	P	P	A	P	P	A
39	Abhishek P. Shergar	P	A	P	P	P	A	P	P	P	P
40	Abhishek S. Sogad	P	P	P	P	P	P	A	P	P	A
41	Anis J. Khan	P	P	P	P	A	P	P	P	P	A
42	Shubhangi K. Bhosale	P	P	P	P	P	A	A	P	P	P
43	Vaishnavi K. Mahade	P	P	P	P	A	P	P	P	A	P
44	Jyoti Vishwas Salok	P	P	P	P	P	A	P	P	P	A
45	Shital S. Ambhase	P	P	A	P	P	P	P	P	P	A
46	Urmila R. Purohit	P	A	A	P	P	P	P	P	P	P
47	Gopal R. Gadga	P	P	P	P	A	A	P	P	P	P
48	Dhananjay B. Sade	P	P	P	A	P	P	P	A	P	P
49	Komal A. Jadhav	P	P	P	P	P	P	A	P	P	A
50	Vaibhav D. Rangale	P	P	P	P	P	P	P	A	A	P
51	Vaibhav R. Deshmukh	P	P	P	P	P	A	A	P	P	A
52	Nilesh R. Jadhav	P	P	P	P	A	A	P	P	P	P
53	Shivam H. Dudhale	P	A	A	P	P	P	P	P	P	P
54	Telax P. Patil	P	A	P	P	P	P	P	P	P	A
55	Satishkumar P. Rajput	P	P	P	P	A	P	P	P	P	P
56	Pranjali R. Kale	P	P	A	P	P	P	A	P	P	P
57	Gurita D. Kankhade	P	P	P	A	P	P	P	A	P	P

58	Nishant A. Mukul	P	P	P	A	P	P	P	P	A	P
59	Komal S. Wokar	P	P	P	P	A	P	P	P	P	A
60	Abhishek K. More	P	P	P	P	P	A	P	P	P	A
61	Shubhangi V. Jadhav	P	P	A	P	P	P	A	P	P	P
62	Hatim P. Mahale	P	P	P	P	P	P	P	A	A	P
63	Krushna S. Rangale	P	P	P	A	P	P	P	P	P	A
64	Divya G. Vafadar	P	A	P	P	P	P	A	P	P	P
65	Vaishnavi P. Mahale	A	P	P	P	P	P	A	P	P	P
66	Ashwini A. Padghar	P	P	A	P	P	P	P	P	P	A
67	Vaibhav S. Pawar	P	P	P	P	A	P	P	A	P	P
68	Vaibhav K. Jadhav	P	P	P	A	P	P	P	P	A	P
69	Devidas R. Sada	P	P	P	P	P	A	P	P	P	A
70	Mahesh A. Neman	P	P	P	P	A	P	A	P	P	P
71	Pravin S. Suresh	P	A	P	P	P	P	P	P	A	P
72	Parvati R. Padghar	P	P	P	A	P	P	P	A	P	P
73	Bhavesh G. Rangale	P	P	P	P	A	P	P	P	P	A
74	Salman S. Shrivastava	P	P	A	P	P	A	P	P	P	P
75	Vithal B. Muthale	P	P	P	P	P	P	A	P	A	P
76	Madhuri P. Shinde	P	P	P	A	P	P	P	P	P	A
77	Vishayka P. More	P	P	P	P	A	P	P	P	P	A
78	Vaishnavi J. Joshi	P	P	A	P	P	P	A	P	P	P
79	Vaibhav D. Gaud	P	P	P	P	A	P	P	P	P	A
80	Jaya A. Torgre	P	A	P	P	P	P	P	A	P	P
81	Vasudha P. Ingle	P	P	P	P	P	P	A	P	P	A
82	Vinayak A. Sarnap	P	P	P	P	A	P	P	P	A	P
83	Pranjali V. Rathod	P	P	P	P	A	P	P	A	P	P
84	Akash G. Shinde	P	P	P	A	P	P	P	P	A	P
85	Nilesh G. Kenkar	P	P	A	P	P	A	P	P	A	P

Head of Physics Department  
Shri Shivaji Science & Arts Coll  
CHIKHLI

Head of Physics Department  
Shri Shivaji Science & Arts Coll  
CHIKHLI



Principal  
Shri Shivaji Sci. & Arts  
College, Chikhli, Dist. Buldana