



H.K.E.SOCIETYS

**A. V. PATIL DEGREE COLLEGE OF ARTS,
SCIENCE AND COMMERCE, ALAND**



NAAC B⁺ Grade

Estd: 1980

Value added course

on

Introduction to Practical physics

Academic year 2021-22

Course Co-ordinator

Proff. C S Munnolli

Dept of Physics



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Introduction to Practical physics

It is now well accepted that the teaching and learning of physics at the university level is incomplete and inadequate, unless students gain direct and individual experience in experimental physics through laboratory courses. Therefore, at almost every college and university the world over, physics laboratory courses have been given an indispensable role in physics education in spite of consuming a lot of time and funding. The objectives and goals of physics laboratory courses have been evolving over the past century. A number of objectives and goals of physics laboratory training have been listed by researchers and teachers from all over the world.

Physics is concerned with the study of matter and energy in both the inanimate and animate worlds. Although experimentation is required in all branches of science, controlled laboratory experiments are especially important in physics. The primary goal of laboratory experiments in physics in general is to verify and validate physical phenomena concepts, principles, and hypotheses. This alone will not help students become independent thinkers or conduct independent research. As a result, laboratory work is highly valued and encouraged in a variety of ways. These may include not only conducting experiments but also investigating various aspects of conducting experiments. Many activities, as well as project work, will thus ensure that the students can construct and reconstruct. Ideas are based on firsthand experiences gained through laboratory research. Furthermore, through their environment, learners will be able to integrate experimental work with theory that they are studying at the higher secondary level. Many significant discoveries in science have been made while conducting experiments, according to the history of science. Experimental work is as important in the advancement of physics as theoretical understanding of a phenomenon. Experimenting with one's own hands in a laboratory is important because it creates a sense of direct involvement in the process of generating knowledge. Personal laboratory experiments and data analysis aid in the development of scientific temper, logical thinking, rational outlook, sense of self-confidence, ability to take initiative, objectivity,

and objectivity. Cooperation, patience, self-reliance, perseverance, and so on. Experimenting also improves manipulative, observational, and reporting skills.

Objectives:

It is often accepted that the laboratory courses are supposed to develop in students a variety of content, cognitive, psychomotor, procedural, attitudinal and affective abilities related to understanding and 'doing' physics. The objectives of physics laboratory education at the university level described more recently include the following:

- a) Development of a better and long-lasting understanding of facts, concepts, principles and laws of physics;
- b) Development of procedural understanding / abilities related to modelling, designing experiments, planning measurements / observations and analyzing data;
- c) Development of experimental skills for the use, alignment and handling of a wide range of laboratory instruments and tools;
- d) Fostering various cognitive abilities like hypothesizing, predicting, observing, classifying, interpreting and inferring;
- e) Development of the ability to solve experimental problems on the basis of methods, processes and techniques commonly used in experimental physics;
- f) Training in the handling of experimental data, making the students aware of the uncertainties involved in various measurements and development of abilities with respect to the treatment of data, error analysis and reporting of experimental activities;
- g) Development of higher order abilities, such as careful and keen powers of observation, the ability to make accurate measurements, handle measured data for objective reasoning correctly, draw conclusions and make generalizations; h) development of interest, motivation, open-mindedness, creativity, curiosity, scientific thinking/attitude, self-activity and independent working habits;

i) Learning to work in team and collaborate among peers; and

j) Learn to communicate the observations and results.

The following sections discuss the main skills gained from physics practical work.

Manipulative skills

The learner develops manipulative skills in practical work if she/he is able to

- (i) Comprehend the theory and objectives of the experiment
- (ii) Conceive the procedure to perform the experiment
- (iii) Set-up the apparatus in proper order
- (iv) Check the suitability of the equipment, apparatus, tool regarding their working and functioning (v) know the limitations of measuring device and find its least count, error etc.
- (vi) Handle the apparatus carefully and cautiously to avoid any damage to the instrument as well as any personal harm
- (vii) Perform the experiment systematically
- (viii) Make precise observations
- (ix) Make proper substitution of data in formula, keeping proper units (SI) in mind (x) calculate the result accurately and express the same with appropriate significant figures, justified by the degree of accuracy of the instrument (xi) interpret the results, verify principles and draw conclusions
- (xii) Improvise simple apparatus for further investigations by selecting appropriate equipment, apparatus, tools, materials

Observation skill

The learner develops observational skills in practical work if she/he is able to

- (i) Read about instruments and measure physical quantities, keeping least count in mind
- (ii) Follow the correct sequence while making observations
- (iii) Take observations carefully in a systematic manner
- (iv) Minimize some errors in measurement by repeating every observation independently a number of times.

Drawing skill

The learner develops drawing skills for recording observed data if she/he is able to

- (i) Make schematic diagram of the apparatus
- (ii) Draw ray diagrams, circuit diagrams correctly and label them
- (iii) Depict the direction of force, tension, current, ray of light etc, by suitable lines and arrows
- (iv) Plot the graphs correctly and neatly by choosing appropriate scale and using appropriate scale.

Reporting skill

The learner develops reporting skills for presentation of observation data in practical work if she/he is able to

- (i) Make a presentation of aim, apparatus, formula used, principle, observation table, calculations and result for the experiment
- (ii) Support the presentation with labeled diagram using appropriate symbols for components
- (iii) Record observations systematically and with appropriate units in a tabular form wherever desirable
- (iv) Follow sign conventions while recording measurements in experiments on ray optics
- (v) Present the calculations/results for a given experiment along with proper significant figures, using appropriate symbols, units, degree of accuracy
- (vi) Calculate error in the result
- (vii) State limitations of the apparatus/devices

(viii) Summaries the findings to reject or accept a hypothesis

(ix) Interpret recorded data, observations or graphs to draw conclusion and

(x) Explore the scope of further investigation in the work performed. However, the most valued skills perhaps are those that pertain to the realm of creativity and investigation.



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Medium of instruction	English
Course structure and examination scheme	
Total contact hours	
Theory classes	30
Mode of examination	Offline (MCQ and descriptive)
Number of questions	30
Marks	30
Eligibility	Students enrolled in B.Sc
Number of seats	50

Syllabus

Unit 01		
Physical world and measurements		
Physical world	Introduction to physics	(a) Physics scope and excitement (b) Nature of physical laws 1. Definition

		2. Technology and society
Units	Need for measurements	Units of measurement, System of units and S I units ,Fundamental and derived units, Length and mass and time measurements
Dimensions		Dimension of physical quantities, dimensional analysis and its application
Unit 02		
Rigid bodies		Rotational motion about an axis. Angular momentum and rotational energy Circular ring and annular ring Theory of compound pendulum and Torsion pendulum
Practical experiment	.	Bar pendulum v/s Time graph Torsion pendulum
Unit03		
		Position-time graph

Frames of reference	Motion in St-line	Speed and velocity Elementary concept of differential and integration for describing motion Acceleration and relation with accelerated motion
Unit 4		
Elasticity		Modulii of elasticity for isotropic materials Relation between elastic constant Poisons ratio, Bending of beam Expression for couple for twist Girders
Unit 5		
Experiments		1. Spiral spring 2. M I of fly wheel 3. M. I of irregular body 4. Verification of parallel axis theorem 5. Verification of Hooks law

References

- ❖ 1.Experimental; physics : M A Hippargi
- ❖ 2. Experimental Physiscs : Gadad and Hiregoudar
- ❖ 3.Practical Physics : C L arora
- ❖ 4. Advanced Practical physics : Worsnop and Flint
- ❖ 5. Practical Physics : Gupta and Kumar Vol I and Vol-II

H.K.E.SOCIETY'S

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Course: Practical physics

Time :2 hr

marks :30

1. Only force acting on a bouncing ball is

- A. gravity
- B. weight of ball
- C. friction
- D. a and b both

2. Accelerometer detects the

- A. small acceleration
- B. large acceleration
- C. small deceleration
- D. large acceleration and deceleration

3: If the gradient of a graph is negative, then the acceleration is

- A. positive
- B. negative
- C. zero
- D. 1

4: If a student drops a stone from a cliff of height 30 m and the time it takes to reach the ground is 2.6 s, then the acceleration due to gravity is

- A. 9 m s⁻²
- B. 10 m s⁻²
- C. 4 m s⁻²
- D. 8.8 m s⁻²

5: Gradient of line of velocity-time graph is tells us the

- A. velocity

B. acceleration

C. distance

D. time

6: A stone is thrown upwards with initial velocity of 20 m s^{-1} , the height that stone will reach would be

A. 20 m

B. 30 m

C. 40 m

D. 50 m

7: Projectile will attain its maximum range, if it is fired at an angle of

A. 30°

B. 47°

C. 90°

D. 45°

8: Horizontal component of a bouncing ball is

A. affected by gravity

B. unaffected by gravity

C. affected by weight

D. affected by contact force

9: When ball having a projectile motion is rising up, it

A. decelerates

B. accelerates

C. rises up with constant acceleration

D. acceleration becomes zero

10: Equation of motion can be used for

A. straight line motion only

B. curved motion only

C. motion along the circular path

D. all types of motion

11: Acceleration of free fall depends on the

A. surface

B. weight of object

C. distance from center of Earth

D. size of object

12: If initial velocity of an object is zero, then distance covered by it in time t and acceleration of 9.8 m s^{-2} would be

A. $2.9 t^2$

B. $3 t^2$

C. $4 t^2$

D. $4.9 t^2$

13: As the ball falls towards the ground, its velocity

A. increases

B. decreases

C. remains constant

D. becomes zero

14: Gradient of velocity-time graph tells us about object's

A. velocity

B. displacement

C. distance

D. acceleration

15: An object whose velocity is changing is said to be in a state of

A. acceleration

B. rest

C. equilibrium

D. Brownian motion

16: Acceleration of train when it is moving steadily from 4.0 m s^{-1} to 20 m s^{-1} in 100 s is

A. 1 m s^{-2}

B. 2 m s^{-2}

C. 0.16 m s^{-2}

D. 3 m s^{-2}

17: If we get a straight line with positive slope then its acceleration is

A. increasing

B. decreasing

C. zero

D. constant

18: If a spinster starting from rest has acceleration of 5 m s^{-2} during 1st 2.0 s of race then her velocity after 2 s is

A. 20 m s^{-1}

B. 10 m s^{-1}

C. 15 m s^{-1}

D. 5 m s^{-1}

19: Horizontal distance travelled by a ball if it's thrown with initial velocity of 20 m s^{-1} at an angle of 30° is

A. 24 m

B. 56 m

C. 35.3 m

D. 36.3 m

20: If a car starting from rest reaches a velocity of 18 m s^{-1} after 6.0 s then its acceleration is

A. 1 m s^{-2}

B. 2 m s^{-2}

C. 3 m s^{-2}

D. 4 m s^{-2}

21: A train travelling at 20 m s^{-1} accelerates at 0.5 m s^{-2} for 30 s, the distance travelled by train is

A. 825 m

B. 700 m

C. 650 m

D. 600 m

22: Area under velocity-time graph tells us the

A. time

B. acceleration

C. displacement

D. velocity



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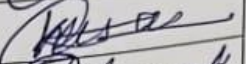
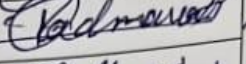
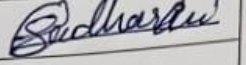
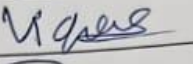

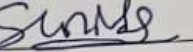
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Add-on Course on Introduction to Practical physics Enrolment List

SL.No	NAME OF THE STUDENT	Class	Signature
1	Parvin Bhasha	B.sc 1 st sem	
2	Nagesh Pandit	B.sc 1 st sem	
3	Bhagyashree Gunderao	B.sc 1 st sem	
4	Amit Vishwanath	B.sc 1 st sem	
5	Afreen Begum	B.sc 1 st sem	
6	Sonubai Shasharao	B.sc 1 st sem	
7	Sachin Sidam	B.sc 1 st sem	
8	Kashinath Basavaraj	B.sc 1 st sem	
9	Irfan Ahmed	B.sc 1 st sem	
10	Kaveri Hanamantrao	B.sc 1 st sem	
11	Mahesh Chandrakant	B.sc 1 st sem	
12	Avinash Dilip	B.sc 1 st sem	
13	Ambika Dayanand	B.sc 1 st sem	
14	Sumit Sidramappa	B.sc 1 st sem	
15	Laxman Mallappa	B.sc 1 st sem	
16	Mahendra Rajendra	B.sc 1 st sem	

17	Neelambika sidramappa	B.sc 1 st sem	<u>N</u>
18	Rajeshwar Sharanappa	B.sc 1 st sem	<u>Rajeshwar</u>
19	Shreemant Ramesh	B.sc 1 st sem	
20	Ganesh Pandit	B.sc 1 st sem	<u>Ganesh</u>
21	Chetan Sidramappa	B.sc 1 st sem	<u>Chetan</u>
22	Katambale Shruti	B.sc 1 st sem	<u>Shruti</u>
23	Aishwarya Digambar	B.sc 3 rd Sem	<u>Aishwarya</u>
24	Archana Suryakant	B.sc 3 rd Sem	<u>Archana</u>
25	Bangaremma Shivaray	B.sc 3 rd Sem	<u>Bangaremma</u>
26	Bagesh Moula	B.sc 3 rd Sem	<u>Bagesh</u>
27	Jyoti Dattappa	B.sc 3 rd Sem	<u>Jyoti</u>
28	Nagaraj Mallinath	B.sc 3 rd Sem	<u>Nagaraj</u>
29	Priti Laxmikant	B.sc 3 rd Sem	<u>Priti</u>
30	Patl Mujajaffar	B.sc 3 rd Sem	<u>Patl</u>
31	Patel Amirabi	B.sc 3 rd Sem	<u>Amirabi</u>
32	Prashant Somanath	B.sc 3 rd Sem	<u>Prashant</u>
33	Shridhar Beerappa	B.sc 3 rd Sem	<u>Shridhar</u>
34	Siddaroodh Hanamant	B.sc 3 rd Sem	<u>Siddaroodh</u>
35	Shivaprasad kupendra	B.sc 3 rd Sem	<u>Shivaprasad</u>
36	Zohra Noorain	B.sc 3 rd Sem	<u>Zohra</u>
37	Shreeshail Somanna	B.sc 3 rd Sem	<u>Shreeshail</u>
38	Asharani Shankar	B.sc 3 rd Sem	<u>Asharani</u>
39	Bhuvaneshwari Anand	B.sc 3 rd Sem	<u>Bhuvaneshwari</u>
40	Gulafshan Begum	B.sc 3 rd Sem	<u>Gulafshan</u>
41	Annarao Shrishail	B.sc 5 th Sem	<u>Annarao</u>
42	Abhishek Jali	B.sc 5 th Sem	<u>Abhishek</u>
43	Girirj Sharanabasappa	B.sc 5 th Sem	<u>Girirj</u>

44	Kailash Shivappa	B.sc 5 th Sem	
45	Karabasappa Shivalingappa	B.sc 5 th Sem	
46	Padmavati Mahaveer	B.sc 5 th Sem ..	
47	Sudharani Gundappa	B.sc 5 th Sem	
48	Viquar Ahmed	B.sc 5 th Sem	
49	Zaiba Safiya	B.sc 5 th Sem	
50	Sunil Babu	B.sc 5 th Sem	

NAME OF THE fedfinkl

STUDENT

2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052

Parvin Bhasha	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Nagesh Pandit	1	.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Bhagyashree Gunderao	1	2	3	.	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Amit Vishwanath	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Afreem Begum	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Sonubai Shasharao	1	.	2	3	4	.	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Sachin Sidam	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Kashimath Basavaraj	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Irfan Ahmed	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Kaveri Hanamantrao	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Mahesh Chandrakant	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Avinash Dilip	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Ambika Dayanand	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27

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Sumit Sidramappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Laxman Mallappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Mahendra Rajendra	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Neelambika sidramappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Rajeshwar Sharanappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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Chetan Sidramappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Katambale Shruti	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
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Shivalingappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Padmavati Mahaveer	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Sudharani Gundappa	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
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Sunil Babu	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27



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Marks List

S. NO	Name	Marks	S. NO	Name	Marks
1	Parvin Bhasha	18	26	Bagesh Moula	17
2	Nagesh Pandit	16	27	Jyoti Dattappa	15
3	Bhagyashree Gunderao	22	28	Nagaraj Mallinath	25
4	Amit Vishwanath	16	29	Priti Laxmikant	26
5	Afreen Begum	21	30	Patl Mujajaffar	09
6	Sonubai Shasharao	18	31	Patel Amirabi	23
7	Sachin Sidam	22	32	Prashant Somanath	21
8	Kashinath Basavaraj	18	33	Shridhar Beerappa	27
9	Irfan Ahmed	15	34	Siddaroodh Hanamant	12
10	Kaveri Hanamantrao	22	35	Shivaprasad kupendra	17
11	Mahesh Chandrakant	25	36	Zohra Noorain	29
12	Avinash Dilip	22	37	Shreshail Somanna	20

13	Ambika Dayanand	12	38	Asharani Shankar	22
14	Sumit Sidramappa	11	39	Bhuvaneshwari Anand	25
15	Laxman Mallappa	22	40	Gulafshan Begum	27
16	Mahendra Rajendra	22	41	Annarao Shrishail	22
17	Neelambika sidramappa	19	42	Abhishek Jali	25
18	Rajeshwar Sharanappa	11	43	Girirj Sharanabasappa	10
19	Shreemant Ramesh	22	44	Kailash Shivappa	19
20	Ganesh Pandit	11	45	Karabasappa Shivalingappa	28
21	Chetan Sidramappa	25	46	Padmavati Mahaveer	28
22	Katambale Shruti	29	47	Sudharani Gundappa	27
23	Aishwarya Digambar	15	48	Viqar Ahmed	28
24	Archana Suryakant	11	49	Zaiba Safiya	26
25	Bangaremma Shivaray	13	50	Sunil Babu	12



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Add-on Course on Practical physics
Time-Table (2021-22)

Sl No	Day	Time	Remarks
01	Thursday	2.30-3.30	
02	Saturday	3.30-4.30	



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Meeting Minutes for Institutional Board of Studies for Add-on Course on Introduction to Practical physics held on (please add date)

The institutional Board of Studies of the Dept of Physics for the add-on course on Introduction to **Practical physics** held on (08/10/2021) in IQAC Room at 10:30 am.

HKE's/AVPASCC/VAC/SCI/2021-22

Date: 08/10/2021

SI No.	Name	Institute	Role
1	Prof. Sharanbasappa Kammar Asst professor Dept of English	A .V Patil Degree college	Course co-ordinator
2	Prof. Ramesh Masarbo Asst prof and IQAC Co-ordinator	A .V Patil Degree college	Member
3	Dr. Shanatala D Patil Asst professor Dept of Physics	GFGC Aland	External member
4	Prof. C. S Munnolli Guest faculty Dept of Physics	A .V Patil Degree college	Internal member

In the beginning of the meeting the Chairman of the BOS :**S S Kammar** welcomed all members and briefed them about the academic activities of the Spoken English Course. The members expressed their highly appreciation and satisfaction about the activities of the department.

After that institutional BOS discussed and resolved the following items:

Item 1. Starting of the add-on course on Introduction to Practical physics

The BOS discussed the item and resolved to start the add-on course on Introduction to **Practical physics**.

Item 2. Approval of the Syllabus for add-on course.

The BOS discussed and approved the syllabus for the add-on course on Introduction to **Practical physics**

Item 3. Approval of admission criteria

The BOS discussed and approve the criteria for admission and resolved that any students enrolled in UG course can enrol in this course. In addition to this BOS also finalized the exam pattern.

Meeting of the BOS was concluded with the vote of thanks by Prof. S S Kammar Assistant Professor in Department of Physics

The following members were present in the meeting:

Name of the Member of BOS

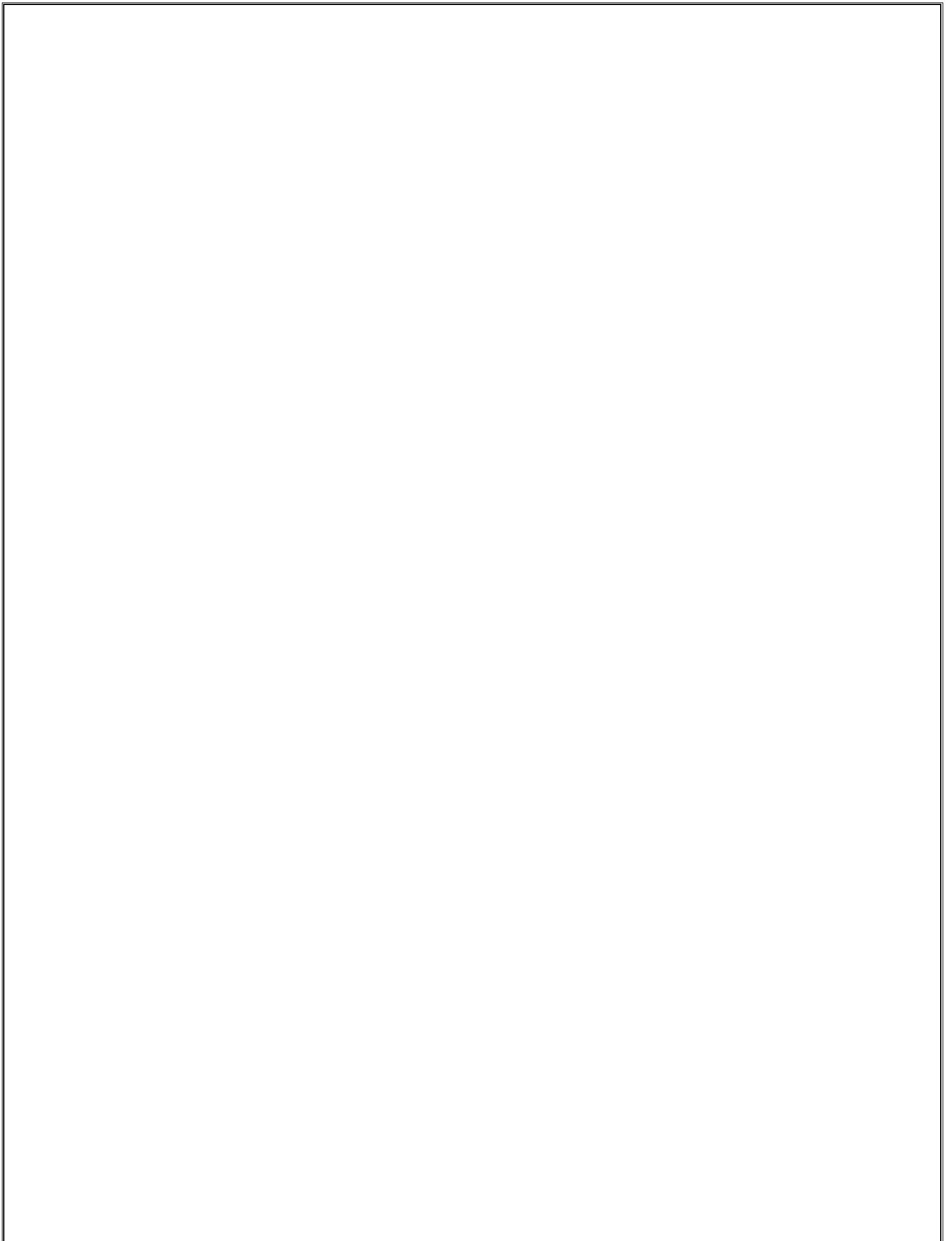
Signature

1. Prof. Sharanbasappa S Kammar

2. Dr. Ramesh Masarbo

3. Dr. Shanatala D Patil

4. Prof. C. S Munnolli





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To,
The Principal

Date: 12 /10/2021

Sub: Request to grant permission to start add-on course on Introduction to **Practical physics** from the academic year 2021-22: Reg.

Respected Sir,

We would like to start the add-on course on "Introduction to **Practical physics**" from the academic year 2021-22: with intake of 50 students. Please permit us to start the add-on course and do the needful.

Thanking You.

HOD
HEAD

DEPT. OF PHYSICS
A.V. Patil Degree College
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Date: 14/10/2021

NOTICE

All the students are hereby informed that, the Department of Physics add on **Practical physics course** from the (20/10/2021), interested students can enrol their names on or before (18/10/2021) in the Department of Physics.

HOD

HEAD

DEPT. OF PHYSICS

H.K.E. Society's A.V. Patil Degree College
ALAND

Principal

PRINCIPAL

H.K.E. Society's A.V. Patil Degree
College, ALAND-585302



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Date: 28/1/2022

NOTICE

All the students enrolled in add-on course on Introduction to **Practical physics** are hereby informed that, the course examination is scheduled on (08/02/2022)

HOD

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ALAND

PRINCIPAL
H.K.E. Society's A.V. Patil Degree
College, ALAND-585302



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Report and Outcome Analysis

Name of the Course : Practical physics Course

Name of the Department : Physics

Number of Student Enrolled :50

BOS Meeting Date: 08/10/2021

Start Date of the Course: 20/10/2021

End Date of the Course: 05/02/2022

The Department of Physics have conducted add-on course on **Introduction to Practical physics** for the students of B.Sc from **20/10/2021 to 01/02/2022**.

The course was about to enable students and making them ready to face the present world professionally.

The total **50** students were enrolled in this course and they got fundamental knowledge of about communication. Students also applied these skills and concepts during the assignments.

Concourse concluded with final examination and certificate distributions.

Outcome of the Course

- The course was about the Develop analytical skill set through case study course objectives
- Involve students in practical activity oriented class rather than traditional study method
- Understand what are the core competencies to succeed in your professional and personal life
- Reduce English phobia by “learning by doing” technique course objectives
- Understanding inter-personal skills & the steps required to be taken to improve these

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ALAND Dist. Kalaburagi, Karnataka - 585 302



CERTIFICATE

CERTIFICATE

This is to Certify that *Pati* *Maximikant*
of *B.Sc - III* Semester for the year *2021-22*
has successfully completed the value added course in
Practical Physics we wish him/her for future endeavours

Manish

Zare Co-Ordinator

At
Head of Dept.

At
Principal

CERTIFICATE



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ALAND Dist. Kalaburagi, Karnataka - 585 302

CERTIFICATE

This is to Certify that **Zaiiba Safiya**
of **B.Sc- Ith** Semester for the year **2021-22**
has successfully completed the value added course in
Practical Physics we wish him/her for future endeavours

IQAC Co-Ordinator

Head of Dept.

Principal

H.K.E.Society's



A.V. PATIL ARTS, SCIENCE & COMMERCE COLLEGE



ALAND Dist. Kalaburagi, Karnataka - 585 302

CERTIFICATE

CERTIFICATE

This is to Certify that *Afreen Begum*
of *B.Sc -1st* Semester for the year *2021-22*
has successfully completed the value added course in
Practical Physics we wish him/her for future endeavours

IAC Co-Ordinator

Head of Dept.

Principal