



“Education for Knowledge, Science, and Culture”

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

**Vivekanand College, Kolhapur**  
**(Autonomous)**



KOLHAPUR (AUTONOMOUS)

**B.Sc. Physics CO-PO attainment 2022-23**

## CO attainment

Course Code	Course Name	CO Target	CO attainment	Full Attained or Not	Action Taken
C1 (DSE-1001A)	Mechanics	3	1	Not Attained	Need to focus on ESE and CIE both
C2 (DSE-1001B)	Electricity, Magnetism and Electromagnetic Theory	3	1.2	Not Attained	Need to focus on ESE and CIE both
C3 (DSE-1001C)	Thermal and statistical Physics – I & Waves and Optics -I	3	1.8	Not Attained	Need to focus on CIE
C4 (DSE-1001D)	Thermal and statistical Physics – II & Waves and Optics -II	3	1.2	Not Attained	Need to focus on ESE and CIE both
C5 (DSE-1001E1)	Classical Mechanics and Quantum Mechanics	3	2	Not Attained	Need to focus on ESE and CIE both
C6 (DSE-1001E2)	Nuclear and Particle Physics and Mathematical Physics	3	2	Not Attained	Need to focus on ESE and CIE both
C7 (DSE-1001F1)	Semiconductor Devices and Instrumentation and Elements of Modern Physics	3	1.4	Not Attained	Need to focus on ESE and CIE both
C8 (DSE-1001F2)	Solid State Physics	3	2.2	Not Attained	Need to focus on CIE



## PO attainment

PO's	PO attainment	Level
PO1	1.640	Excellent
PO2	1.696	Excellent
PO3	1.495	Excellent
PO4	1.500	Excellent
PO5	2.200	Excellent

## PSO attainment

PSO's	PSO attainment	Level
PSO1	1.629	Excellent
PSO2	1.513	Excellent
PSO3	1.590	Excellent
PSO4	1.584	Excellent



## **PO's of B.Sc. programme**

1. Acquire the knowledge with facts.
2. Acquire the skills in handling scientific instruments.
3. Develop scientific outlook with respect to science subjects.
4. Analyse the given scientific data critically and systematically.
5. Realize ethical moral and social values in personal and social life.

## **PSO's of B.Sc. (Physics) programme:**

1. Understand basic mechanics and properties of matter.
2. Students should understand mathematical concepts needed for understanding Physics.
3. Students should understand fundamental basic theories of General Physics, Classical Mechanics, Quantum mechanics, Electricity and magnetism, Modern Physics, Space Science, Semiconductor Physics and able to apply this knowledge to analyze the variety of physics phenomenon.
4. Students should learn laboratory skills, students should take measurements in Physics laboratory and analyze the measurements to draw valid conclusions.



**B.Sc. Part – I Semester -I PHYSICS (Syllabus w.e.f. 2018-19)**

**Course Code: DSC1001A**

**Mechanics**

**Course Outcomes:** After the completion of the course the student will be able to -

CO1: Demonstrate and understand the basic primary knowledge of Mechanics theories in Physics and develop the critical skill in students to understand mechanics.

CO2: get a proficiency in solving problems in Vectors, Ordinary Differential Equations, basic concepts of dot product, cross product, Ordinary Differential Equations, laws of motion, rotational motion, momentum, and energy etc.

CO3: get a proficiency in solving problems in Elasticity, gravitation, oscillation, Differential equation of Simple harmonic motion, special theory of relativity etc.

CO4: Understand the basic concepts of elastic constants, gravitation and Kepler's laws, Simple harmonic motion, etc.

**B. Sc. Part – I Semester -II Physics**

**Course Code: DSC1001**

**Electricity and Magnetism**

**Course Outcomes:** After the completion of the course the student will be able to -

CO1: Demonstrate and understand the basic primary knowledge of Electricity, Magnetism and Electromagnetic Theory and will demonstrate a proficiency in solving problems in Thevenin's theorem, and Norton's theorem, magnetism, electrostatics etc.

CO2: Understand the basic concepts of Ballistic galvanometer, networks theorem, magnetostatics and electrostatics, electricity, and magnetism etc.

CO3: get a proficiency in solving problems in gradient, divergence, Curl and their significance, Vector Integration, Line, surface and volume integrals of Vector fields, Maxwell's equations, and Electromagnetic wave propagation.

CO4: Understand the basic concepts of gradient, divergence, Curl and their significance, Gauss-divergence theorem and Stoke's theorem of vectors, Electromagnetic Induction, Maxwell's equations, and Electromagnetic wave propagation etc.

**B. Sc. Part – II Semester -III PHYSICS (Syllabus w.e.f. 2019-20)**

**Course Code: DSC1001C**

**Thermal Physics, Statistical Mechanics, Waves and Optics Part I**

**Course Outcomes:** After the completion of the course the student will be able to -

CO1: Demonstrate and understand the basic primary knowledge of Thermal Physics, Statistical Mechanics, waves, and Optics.

CO2: get a proficiency in solving problems in Thermal Physics, Statistical Mechanics, waves, and Optics.

CO3: Understand the basic concepts of kinetic theory of gases, transport phenomena, thermometry, thermodynamic laws, thermodynamic process, isothermal and adiabatic process, entropy, harmonic

oscillations, oscillations of different frequencies, Lissajous figures, coupled oscillations, ultrasonic waves their applications, acoustic of building and reverberations

CO4: Develop the critical skill in students to understand Thermal Physics, Statistical Mechanics, waves and Optics.

### **B. Sc. Part – II Semester -IV PHYSICS**

**Course Code: DSC1001D**

#### **Thermal Physics, Statistical Mechanics, waves and Optics Part II**

**Course Outcomes:** After the completion of the course the student will be able to -

CO1: Demonstrate and understand the basic primary knowledge of Electricity, Magnetism and Electromagnetic Theory and will demonstrate a proficiency in solving problems in Thevenin's theorem, and Norton's theorem, magnetism, electrostatics etc.

CO2: Understand the basic concepts of Ballistic galvanometer, networks theorem, magnetostatics and electrostatics, electricity, and magnetism etc.

CO3: get a proficiency in solving problems in gradient, divergence, Curl and their significance, Vector Integration, Line, surface and volume integrals of Vector fields, Maxwell's equations, and Electromagnetic wave propagation.

CO4: Understand the basic concepts of gradient, divergence, Curl and their significance, Gauss-divergence theorem and Stoke's theorem of vectors, Electromagnetic Induction, Maxwell's equations, and Electromagnetic wave propagation etc.

### **B. Sc. Part – III Semester -V PHYSICS**

**Course Code: DSC1001E1**

#### **Classical Mechanics and Quantum Mechanics**

**CO's:** After completion, students are able to

CO<sub>1</sub>: demonstrate and understand the knowledge of classical and quantum mechanics.

CO<sub>2</sub>: get a proficiency in solving problems in classical and quantum mechanics.

CO<sub>3</sub>: understand the basic concepts like Virtual work, D'Alembert's Principle, Lagrangian and Hamiltonian Principle, Euler's Theorem, Elastic and inelastic scattering, De-Broglie's Hypothesis, Schrodinger's Equations, Operators, Hydrogen Problems, Eigen's values and functions.

CO<sub>4</sub>: develop the critical skill in students to understand classical and quantum mechanics.

### **B. Sc. Part – III Semester -V PHYSICS**

**Course Code: DSC1001E2**

#### **Nuclear and Particle Physics and Mathematical Physics**

**CO's:** After completion, students are able to

CO<sub>1</sub>: demonstrate and understand the knowledge of Nuclear and Particle Physics and Mathematical Physics

CO<sub>2</sub>: get a proficiency in solving problems in Nuclear and Particle Physics and Mathematical Physics





CO<sub>3</sub>: understand the basic concepts like properties of nucleus, nuclear forces, nuclear models, nuclear reactions, accelerators and detectors and various co-ordinate systems, Differential equations, complex numbers, Fourier series and integrals etc.

CO<sub>4</sub>: develop the critical skill in students to understand Nuclear and Particle Physics and Mathematical Physics.

### **B. Sc. Part – III Semester -VI PHYSICS**

**Course Code: DSC1001F1**

#### **Semiconductor devices and instrumentation and elements of modern physics**

**CO's:** After completion, students are able to

CO<sub>1</sub>: demonstrate and understand the knowledge of Semiconductor devices and modern physics

CO<sub>2</sub>: demonstrate a proficiency in solving problems in Semiconductor devices and modern physics

CO<sub>3</sub>: understand the basic concepts like transistor, diodes, SCR, Solar cell, Photocell, LRD, etc. and vector atom model, Zeeman effect, laser technology, etc.

CO<sub>4</sub>: develop the critical skill in students to understand Semiconductor devices and modern physics.

### **B. Sc. Part – III Semester -VI PHYSICS**

**Course Code: DSC1001F2**

#### **Solid State Physics I and Solid-State Physics II**

**CO's:** After completion, students are able to

CO<sub>1</sub>: demonstrate and understand the knowledge of crystal structure, lattice theory, magnetic properties , etc. and band theory, dielectric properties, X-ray diffraction, etc.

CO<sub>2</sub>: demonstrate a proficiency in solving problems in solid state physics.

CO<sub>3</sub>: understand the basic concepts like crystal structure, types of crystal, miller indices, defects, lattice constants, etc. and superconductivity, Types of superconductors, etc.

CO<sub>4</sub>: develop the critical skill in students to understand the basic theory of solid state physics which is useful for further higher studies.



## Articulation matrix for all courses taught in B.Sc. Physics programme

B.Sc.I SEM I Physics 2020-21									
CO-PO, CO-PSO Mapping Articulation Matrix									
Course I (DSE1001A)									
Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	3	2
CO2	3	3	3	2	1	3	3	2	2
CO3	3	3	3	2	1	3	3	2	2
CO4	3	3	2	3	1	2	2	1	2
Average	3	3	2.75	2.5	1	2.75	2.75	2	2
B.Sc.I SEM II Physics 2020-21									
CO-PO, CO-PSO Mapping Articulation Matrix									
Course II (DSE1001B)									
Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	3	2
CO2	3	3	3	2	1	3	3	2	2
CO3	3	3	3	2	1	3	3	2	2
CO4	3	3	2	3	1	2	2	1	2
Average	3	3	2.75	2.5	1	2.75	2.75	2	2
B.Sc.II SEM III Physics 2021-22									
CO-PO, CO-PSO Mapping Articulation Matrix									
Course III (DSE1001C)									
Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	3	3
CO2	3	3	3	2	1	3	3	2	3
CO3	3	3	3	2	1	3	3	2	3
CO4	3	3	2	3	1	2	2	1	2
Average	3	3	2.75	2.5	1	2.75	2.75	2	2.75
B.Sc.II SEM IV Physics 2021-22									
CO-PO, CO-PSO Mapping Articulation Matrix									
Course IV (DSE1001D)									
Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	3	3
CO2	3	3	3	2	1	3	3	2	3
CO3	3	3	3	2	1	3	3	2	3
CO4	3	3	2	3	1	2	2	1	2
Average	3	3	2.75	2.5	1	2.75	2.75	2	2.75

**B.Sc.III SEM V Physics 2022-23**

**CO-PO, CO-PSO Mapping Articulation Matrix**

**Course I (DSE1001E1)**

Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	2	1	1	2	3	2	2	2
CO2	3	3	2	1	2	3	2	2	2
CO3	3	3	2	1	3	3	2	2	2
CO4	3	3	3	1	1	3	2	2	2
Average	3	2.75	2	1	2	3	2	2	2

**B.Sc.III SEM V Physics 2022-23**

**CO-PO, CO-PSO Mapping Articulation Matrix**

**Course II (DSE1001E2)**

Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	2	2
CO2	3	3	3	2	1	3	3	2	2
CO3	3	3	3	2	1	3	3	2	2
CO4	3	3	3	3	1	3	3	2	2
Average	3	3	3	2.5	1	3	3	2	2

**B.Sc. III SEM VI Physics 2022-23**

**CO-PO, CO-PSO Mapping Articulation Matrix**

**Course III (DSE1001F1)**

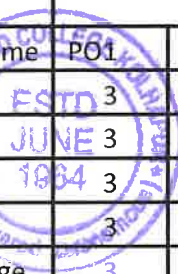
Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	2	2
CO2	3	3	3	3	1	3	3	2	2
CO3	3	3	3	2	1	3	3	1	2
CO4	3	3	3	3	1	3	3	2	2
Average	3	3	3	2.75	1	3	3	1.75	2

**B.Sc.III SEM VI Physics 2022-23**

**CO-PO, CO-PSO Mapping Articulation Matrix**

**Course IV (DSE1001F2)**

Outcome	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4
CO1	3	3	3	3	1	3	3	2	2
CO2	3	3	3	3	1	3	3	2	2
CO3	3	3	3	2	1	3	3	1	2
CO4	3	3	3	3	1	3	3	2	2
Average	3	3	3	2.75	1	3	3	1.75	2





## Students Marks Chart:

### Ext/Int marks for CO attainment Direct Method (Physics)

Sr. No	Name of the student	B.Sc. I Year 2020-21				B.Sc. II Year 2021-22			
		SEM I		SEM II		SEM III		SEM IV	
		Paper I (DSC-10012A) External (Out of 80)	Internal (Out of 20)	Paper II (DSC-10012B) External (Out of 80)	Internal (Out of 20)	Paper III (DSC-10012C) External (Out of 80)	Internal (Out of 20)	Paper IV (DSC-1001D) External (Out of 80)	Internal (Out of 20)
1	Saee Sandeep Jadhav	80	20	60	15	68	11	70	16
2	Aman Imtiyaj Maner	76	12	44	13	76	11	51	8
3	Mahek Shakilahmed Jamadar	80	15	65	13	80	20	78	9
4	Prathamesh Abaji Dongare	76	17	69	17	97	17	72	15
5	Alok Narayan Padmakar	56	8	40	12	35	7	28	8
6	Gaikwad Rajnandini Ganesh	76	12	32	12	60	8	73	11
7	Aishwarya Deepak Shingade	80	20	60	16	60	7	60	16
8	Anjali uttam ghorpade	80	8	57	13	69	9	83	16
9	Anjali Bhagwan kamble	80	18	48	16	61	9	68	15
10	Vivek Janardan Shinde	80	20	68	16	77	15	77	13
11	Tejas vikas kothawale	80	20	60	14	56	10	38	9
12	Dhiraj Prakash Bhingarde	66	10	55	15	60	8	50	8
13	Vedaja Ajay Yadav	80	20	58	14	66	10	69	9
14	Suyash Sanjay Dongare	70	16	76	12	64	16	72	8
15	Shriyash Kerba Warke	80	20	40	14	68	15	38	12
16	Shubham Babasaheb Kalkutaki	74	14	59	12	72	8	44	8
17	Aaryan Pramod patil	80	13	40	13	45	8	48	15
18	Sapana Raviranjn Singh	60	14	48	12	56	14	65	18
19	Jayant Sunil Nardekar	70	17	75	18	77	18	76	17

Ext/Int marks for CO attainment Direct Method (Physics )

B.Sc. III Year 2022-23

Sr. No	Name of the student	SEM V				SEM VI			
		Paper V (DSE1001E1)		Paper VI II (DSE1001E2)		Paper VII (DSE1001F1)		Paper VIII (DSE1001F2)	
		External (Out of 80)	Internal (Out of 20)	External (Out of 80)	Internal (Out of 20)	External (Out of 80)	Internal (Out of 20)	External (Out of 80)	Internal (Out of 20)
1	Saeed Sandeep Jadhav	76	19	80	15	61	10	55	13
2	Aman Imtiyaj Maner	70	18	65	16	65	14	58	12
3	Mahek Shakilahmed Jamadar	71	19	72	15	55	20	66	17
4	Prathamesh Abaji Dongare	80	17	76	17	54	13	57	16
5	Alok Narayan Padmakar	28	11	16	14	58	10	71	16
6	Gaikwad Rajnandini Ganesh	65	18	54	16	74	20	68	11
7	Aishwarya Deepak Shingade	63	16	65	14	71	16	60	17
8	Anjali uttam ghorpade	81	16	82	9	55	13	77	16
9	Anjali Bhagwan kamble	67	18	67	18	60	14	72	13
10	Vivek Janardan Shinde	80	19	71	19	74	14	67	10
11	Tejas vikas kothawale	42	12	44	14	67	20	62	12
12	Dhiraj Prakash Bhingardev	74	18	74	15	69	12	54	11
13	Vedaja Ajay Yadav	64	19	70	18	68	15	58	13
14	Suyash Sanjay Dongare	57	12	63	15	72	10	62	16
15	Shriyash Kerba Warke	33	12	48	14	63	14	61	13
16	Shubham Babasaheb Kalkutaki	56	13	75	75	76	19	70	18
17	Aaryan Pramod patil	28	8	28	8	63	19	58	20
18	Sapana Raviranjian Singh	53	19	50	17	75	18	69	11
19	Jayant Sunil Nardekar	53	16	53	14	56	10	58	12



**B.Sc. I SEM I Physics Paper I (Mechanics)**

Sr. no.	Name of the Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	Saee Sandeep Jadhav	4	4	4	3	3	4	4	4	4	5
2	Aman Imtijaj Maner	2	3	2	2	2	3	4	2	2	2
3	Mahek Shakilahmed Jamadar	4	4	4	4	3	4	4	4	4	4
4	Prathamesh Abaji Dongare	2	2	3	2	3	3	5	4	3	2
5	Alok Narayan Padmakar	5	3	4	4	4	4	4	4	4	5
6	Gaikwad Rajnandini Ganesh	4	4	4	4	4	3	3	3	4	4
7	Aishwarya Deepak Shingade	3	4	4	3	4	3	4	4	3	3
8	Anjali uttam ghorpade	4	3	3	4	4	3	3	3	4	4
9	Anjali Bhagwan kamble	4	4	4	4	4	4	4	4	4	4
10	Vivek Janardan Shinde	4	5	4	4	4	5	4	4	4	3
11	Tejas vikas kothawale	3	4	5	4	5	3	5	5	4	3
12	Dhiraj Prakash Bhingardeve	2	3	3	4	3	3	3	3	3	3
13	Vedaja Ajay Yadav	5	4	4	5	4	4	4	4	4	5
14	Suyash Sanjay Dongare	5	5	5	5	5	5	5	5	5	5
15	Shriyash Kerba Warke	5	5	4	5	3	5	4	4	3	3
16	Shubham Babasaheb Kalkutaki	4	4	4	4	4	4	4	4	4	4
17	Aaryan Pramod patil	4	4	4	4	4	4	4	4	4	4
18	Sapana Raviranjian Singh	1	3	3	4	4	3	3	3	2	2
19	Jayant Sunil Nardekar	2	2	2	2	2	2	2	2	2	2





B.Sc. I SEM II Physics Paper II (Electricity, Magnetism and electromagnetic theory)

Sr. no.	Name of the Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	Saee Sandeep Jadhav	4	4	4	4	3	3	4	4	4	5
2	Aman Imtiyaj Maner	2	4	3	3	2	2	3	4	2	3
3	Mahek Shakilahmed Jamadar	4	4	4	4	4	3	4	4	4	4
4	Prathamesh Abaji Dongare	3	2	3	3	2	2	3	5	3	2
5	Alok Narayan Padmakar	5	3	4	4	4	4	4	4	4	5
6	Gaikwad Rajnandini Ganesh	4	4	4	4	4	4	3	3	4	4
7	Aishwarya Deepak Shingade	3	3	4	4	3	4	3	4	4	3
8	Anjali uttam ghorpade	4	3	3	3	4	4	3	4	4	4
9	Anjali Bhagwan kamble	4	4	4	4	4	4	4	4	4	4
10	Vivek Janardan Shinde	3	5	4	4	4	4	5	4	4	3
11	Tejas vikas kothawale	3	3	5	5	3	4	3	5	5	2
12	Dhiraj Prakash Bhingarde hve	3	2	3	3	4	3	3	3	3	3
13	Vedaja Ajay Yadav	4	4	4	4	5	4	4	4	4	5
14	Suyash Sanjay Dongare	5	5	5	5	5	5	4	5	5	5
15	Shriyash Kerba Warke	4	4	4	5	4	4	4	5	3	2
16	Shubham Babasaheb Kalkutaki	4	4	4	4	4	4	4	4	4	4
17	Aaryan Pramod patil	4	5	4	4	5	5	5	4	5	5
18	Sapana Raviranjani Singh	1	3	3	3	4	4	3	3	3	2
19	Jayant Sunil Nardekar	3	2	2	2	2	2	2	2	2	2





B.Sc. II SEM III Physics Paper III (Thermal Physics and Statistical Mechanics)

Sr. no.	Name of the Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	Saee Sandeep Jadhav	4	4	4	4	4	4	4	4	4	5
2	Aman Imtijaj Maner	3	4	3	3	3	3	3	3	3	4
3	Mahek Shakilahmed Jamadar	4	4	4	4	4	3	4	4	4	4
4	Prathamesh Abaji Dongare	2	3	2	3	3	3	5	3	3	2
5	Alok Narayan Padmakar	4	3	4	4	4	4	4	4	4	5
6	Gaikwad Rajnandini Ganesh	4	4	4	4	4	4	3	3	4	4
7	Aishwarya Deepak Shingade	3	4	4	3	4	4	4	4	3	3
8	Anjali uttam ghorpade	4	3	3	3	4	4	4	4	3	5
9	Anjali Bhagwan kamble	4	4	4	4	4	4	4	4	4	4
10	Vivek Janardan Shinde	3	5	4	4	4	4	5	4	4	4
11	Tejas vikas kothawale	3	4	5	2	3	3	5	5	4	3
12	Dhiraj Prakash Bhingarde hve	3	3	3	4	3	3	3	3	3	3
13	Vedaja Ajay Yadav	5	4	4	5	4	4	4	4	4	5
14	Suyash Sanjay Dongare	5	5	5	5	5	5	5	5	5	5
15	Shriyash Kerba Warke	3	5	4	3	5	5	4	2	3	3
16	Shubham Babasaheb Kalkutaki	4	4	4	4	4	4	4	4	4	4
17	Aaryan Pramod patil	5	4	5	4	4	4	4	4	4	4
18	Sapana Raviranjjan Singh	2	4	3	4	4	4	3	3	3	3
19	Jayant Sumil Nardekar	4	4	4	4	4	4	4	4	4	4



B.Sc. II SEM IV Physics Paper IV (Waves and Optics)

Sr. no.	Name of the Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	Saee Sandeep Jadhav	5	4	4	4	4	4	4	4	4	5
2	Aman Imtiyaj Maner	3	4	3	3	3	3	3	3	3	3
3	Mahek Shakilahmed Jamadar	4	4	4	4	4	3	4	4	4	4
4	Prathamesh Abaji Dongare	3	2	2	2	3	3	3	5	3	3
5	Alok Narayan Padmakar	4	3	4	4	4	4	4	4	4	5
6	Gaikwad Rajnandini Ganesh	5	4	4	4	4	4	3	3	4	4
7	Aishwarya Deepak Shingade	5	3	3	3	4	5	3	4	3	3
8	Anjali uttam ghorpade	4	3	3	3	4	4	3	4	3	5
9	Anjali Bhagwan kamble	5	4	4	4	4	4	4	4	4	4
10	Vivek Janardan Shinde	5	5	5	5	4	4	5	5	4	4
11	Tejas vikas kothawale	3	3	5	5	1	2	3	5	5	2
12	Dhiraj Prakash Bhingarde hve	3	3	3	4	4	3	3	4	3	3
13	Vedaja Ajay Yadav	5	4	4	4	5	4	4	4	4	5
14	Suyash Sanjay Dongare	5	5	5	5	5	5	5	5	5	5
15	Shriyash Kerba Warke	5	4	5	4	4	4	4	5	3	2
16	Shubham Babasaheb Kalkutaki	4	4	4	4	4	4	4	4	4	4
17	Aaryan Pramod patil	4	5	4	4	4	5	5	5	5	5
18	Sapana Raviranjn Singh	4	4	4	4	4	4	3	3	3	3
19	Jayant Sunil Nardekar	4	4	4	4	4	4	4	4	4	4



B.Sc. III SEM V Physics Paper V and VI

Sr. no.	Name of the Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	Saee Sandeep Jadhav	5	4	4	4	4	4	4	4	4	5
2	Aman Imtiyaj Maner	3	4	4	5	4	4	2	3	4	5
3	Mahek Shakilahmed Jamadar	4	4	4	4	4	3	4	4	4	4
4	Prathamesh Abaji Dongare	3	3	3	2	3	3	5	3	3	3
5	Alok Narayan Padmakar	4	3	4	4	4	4	4	4	4	5
6	Gaikwad Rajnandini Ganesh	5	4	5	4	4	4	3	4	4	4
7	Aishwarya Deepak Shingade	5	5	4	4	5	3	5	4	3	3
8	Anjali uttam ghorpade	4	3	3	4	4	3	3	3	4	4
9	Anjali Bhagwan kamble	5	5	5	5	5	5	5	5	5	5
10	Vivek Janardan Shinde	5	5	5	4	4	4	5	4	4	3
11	Tejas vikas kothawale	3	4	5	2	1	3	5	5	4	3
12	Dhiraj Prakash Bhingardive	3	3	4	4	4	3	4	4	4	4
13	Vedaja Ajay Yadav	5	4	4	5	4	4	4	4	4	5
14	Suyash Sanjay Dongare	5	5	5	5	5	4	5	5	5	5
15	Shriyash Kerba Warke	5	5	4	5	3	3	4	4	3	3
16	Shubham Babasaheb Kalkutaki	4	4	4	4	4	4	4	4	4	4
17	Aaryan Pramod patil	4	5	5	5	5	5	4	4	4	4
18	Sapana Raviranjian Singh	4	4	4	4	4	4	3	4	4	4
19	Jayant Sumil Nardekar	4	4	4	4	4	4	4	4	4	4



B.Sc. III SEM VI Physics Paper VII and VIII

Sr. no.	Name of the Student	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	Saee Sandeep Jadhav	4	4	4	4	4	4	4	4	4	4
2	Aman Imtiyaj Maner	4	4	4	4	3	3	5	2	4	3
3	Mahek Shakilahmed Jamadar	4	4	4	4	4	3	4	4	4	4
4	Prathamesh Abaji Dongare	2	2	3	3	2	3	3	5	3	3
5	Alok Narayan Padmakar	4	3	4	4	4	4	4	4	4	4
6	Gaikwad Rajnandini Ganesh	5	4	4	5	4	4	3	3	4	4
7	Aishwarya Deepak Shingade	4	4	4	4	4	5	3	5	4	3
8	Anjali uttam ghorpade	4	3	3	3	4	4	3	3	3	4
9	Anjali Bhagwan kamble	5	5	5	5	5	5	5	5	5	5
10	Vivek Janardan Shinde	5	5	5	5	4	4	5	5	4	3
11	Tejas vikas kothawale	3	3	3	5	3	2	3	5	5	2
12	Dhiraj Prakash Bhingarde hve	3	4	4	4	4	4	3	4	4	4
13	Vedaja Ajay Yadav	5	4	4	4	5	4	4	4	4	5
14	Suyash Sanjay Dongare	5	5	5	5	5	5	5	5	5	5
15	Shriyash Kerba Warke	4	4	4	5	4	4	4	5	3	4
16	Shubham Babasaheb Kalkutaki	4	4	4	4	4	4	4	4	4	4
17	Aaryan Pramod patil	4	5	4	4	5	5	4	5	5	4
18	Sapana Raviranjjan Singh	4	4	4	4	4	4	3	3	4	4
19	Jayant Sunil Nardekar	4	4	4	4	4	4	4	4	4	4

Google link for feedback collection:  
<https://forms.gle/WaPndYDFFUyYtYGbM9>

