

**Vidyavardhini’s**

**College of Engineering & Technology**

Vasai Road (W)

**First Year Engineering**

**Course Booklet (Theory)**

|  |  |  |  |
| --- | --- | --- | --- |
| Semester | I | Class | F.E. (CSE(DS)) |
| Course Code | BSC102 | Academic Year | 2024-25 |
| Course Name | Applied Physics | | |
| Name of Faculty | Dr. Vivek Singh | | |



**Vidyavardhini’s College of Engineering & Technology**

**Vision**

To be a premier institution of technical education, aiming at becoming a valuable resource for industry and society.

**Mission**

* To provide technologically inspiring environment for learning.
* To promote creativity, innovation and professional activities.
* To inculcate ethical and moral values.
* To cater personal, professional and societal needs through quality education.

**Program Outcomes (POs):**

Engineering Graduates will be able to:

* **PO1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
* **PO2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
* **PO3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
* **PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
* **PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
* **PO6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
* **PO7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
* **PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
* **PO9. Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
* **PO10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
* **PO11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
* **PO12. Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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**Course Objectives**

|  |  |
| --- | --- |
| 1 | To provide students with a basic understanding of laser operation. |
| 2 | To explain the basic working principle of optical fiber and its use in communication technology. |
| 3 | To demonstrate principles of interference in thin film. |
| 4 | To describe Maxwell’s equations and their significance. |
| 5 | To build a foundation of quantum mechanics needed for modern technology |
| 6 | To give exposure to the concept of Fermi level in semiconductors. |

**Course Outcomes**

|  |  |  |  |
| --- | --- | --- | --- |
| At the end of the course student will be able to: | | Action verb | Bloom’s Level |
| BSC102.1 | Illustrate the use of laser in LiDAR and Barcode reading. | Illustrate | Level 3 |
| BSC102.2 | Apply the foundation of fiber optics in the development of modern communication technology. | Apply | Level 3 |
| BSC102.3 | Determine the wavelength of light and refractive index of liquid using the interference phenomenon. | Determine | Level 3 |
| BSC102.4 | Illustrate the significance of Maxwell’s equations in the field of modern technology | Illustrate | Level 3 |
| BSC102.5 | Apply the foundations of quantum mechanics for the development of modern technology. | Apply | Level 3 |
| BSC102.6 | Explain the types of semiconductors based on variations in fermi level with temperature and doping concentration. | Explain | Level 2 |

**Mapping of Course Modules with Course Outcomes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Course Modules | Course Outcomes | | | | | |
| BSC102.1 | BSC102.2 | BSC102.3 | BSC102.4 | BSC102.5 | BSC102.6 |
| Laser | 3 |  |  |  |  |  |
| Fibre Optics |  | 3 |  |  |  |  |
| Interference in thin film |  |  | 3 |  |  |  |
| Electrodynamics |  |  |  | 3 |  |  |
| Quantum Physics |  |  |  |  | 3 |  |
| Basics of Semiconductor Physics |  |  |  |  |  | 2 |

Enter correlation level 1, 2 or 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation put “—“.

**Mapping of Course Outcomes with Program Outcomes and**

**Program Specific Outcomes**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| BSC102.1 | 3 | 2 | 2 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | ­\_\_ |
| BSC102.2 | 3 | 2 | 2 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | 2 |
| BSC102.3 | 3 | 2 | 1 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | \_\_ |
| BSC102.4 | 3 | 2 | 1 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | \_\_ |
| BSC102.5 | 3 | 1 | 1 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | \_\_ |
| BSC102.6 | 3 | 2 | 2 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | \_\_ |
| Avg. | 3 | 1.83 | 1.50 | \_\_ | \_\_ | \_\_ | \_\_ | 2.00 | 2.00 | 2.00 | \_\_ | 2.00 |
| Rounded Avg | 3 | 2 | 2 | \_\_ | \_\_ | \_\_ | \_\_ | 2 | 2 | 2 | \_\_ | 2 |

Enter correlation level 1, 2 or 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation put “—“.

**CO-PO Mapping Justification**

|  |  |  |  |
| --- | --- | --- | --- |
| **CO** | **PO** | **Level of mapping** | **Justification** |
| BSC102.1 | PO1 | 3 | Students will be able to apply the knowledge of laser to engineering applications such as laser drilling, welding, bar code scanning, and sending signals through optical fiber cables for communication links (LAN, WAN, etc). Hence, it is significantly mapped and marked as level 3. |
| PO2 | 2 | Students will be able to analyse concepts of laser to solve complex problems in engineering such as internet speed and information processing. Hence, it is moderately mapped and marked as level 2. |
| PO3 | 2 | Students will be able to use basics of laser to design communication links in engineering; hence, it is moderately mapped and marked as level 2. |
| PO8 | 2 | Students will be able to write assignments and solve quizzes ethically with punctuality without copying from external sources. Hence, it is moderately mapped and marked as level 2. |
| PO9 | 2 | Students will be able to understand the value of working as a team in class presentations. Hence, it is moderately mapped and marked as level 2. |
| PO10 | 2 | Students will be able to communicate effectively during question-answer sessions in the class, which reflects their oral communication ability. In addition, assignments are a reflection of written communication ability. Hence, it is moderately mapped and marked as level 2. |
| BSC102.2 | PO1 | 3 | The students will be able to apply the basic knowledge of optical fiber to engineering applications such as optical fiber communication links (LAN, WAN, etc.), Hence, it is significantly mapped and marked as level 3. |
| PO2 | 2 | Students will be able to analyse concepts of optical fiber to solve complex problems in engineering using optical fibre sensors. Hence, it is moderately mapped and marked as level 2. |
| PO3 | 2 | Students will be able to use some basics of optical fiber to design communication links in engineering; hence, it is moderately mapped and marked as level 2. |
| PO8 | 2 | Students will be able to write assignments and solve quizzes ethically with punctuality without copying from external sources. Hence, it is moderately mapped and marked as level 2. |
| PO9 | 2 | Students will be able to understand the value of working as a team in class presentations. Hence, it is moderately mapped and marked as level 2. |
| PO10 | 2 | Students will be able to communicate effectively during question-answer sessions in the class, which reflects their oral communication ability. In addition, assignments are a reflection of written communication ability. Hence, it is moderately mapped and marked as level 2. |
| PO12 | 2 | Students will be able to achieve some skills through presentations on optical fiber thereby stimulating their lifelong learning. Hence, it is moderately mapped and marked as level 2. |
| BSC102.3 | PO1 | 3 | Students will be able to apply the knowledge of interference to engineering applications such as thin film, ARC, and HRC. Hence, it is significantly mapped and marked as level 3. |
| PO2 | 2 | Students will be able to formulate and solve problems based on interference in thin film and antireflection coating. Hence, it is moderately mapped and marked as level 2. |
| PO3 | 1 | Students will be able to use basics of interference of thin film for designing optical instruments. Hence, it is slightly mapped and marked as level 1. |
| PO8 | 2 | Students will be able to write assignments and solve quizzes ethically with punctuality without copying from external sources. Hence, it is moderately mapped and marked as level 2. |
| PO9 | 2 | Students will be able to understand the value of working as a team in class presentations. Hence, it is moderately mapped and marked as level 2. |
| PO10 | 2 | Students will be able to communicate effectively during question-answer sessions in the class, which reflects their oral communication ability. In addition, assignments are a reflection of written communication ability. Hence, it is moderately mapped and marked as level 2. |
| BSC102.4 | PO1 | 3 | The students will be able to apply the theoretical understanding of gradient, divergence, and curl for engineering applications such as designing an antenna for communications. Hence, it is significantly mapped and marked as level 3. |
| PO2 | 2 | The students will be able to formulate and solve complex engineering problems using laws of electrodynamics. Hence, it is moderately mapped and marked as level 2. |
| PO3 | 1 | Students will be able to design and develop engineering problems using Maxwell’s equations such as wave propagation in communication. Hence, it is slightly mapped and marked as level 1. |
| PO8 | 2 | Students will be able to write some assignments and solve some quizzes ethically with punctuality without copying from external sources. Hence, it is moderately mapped and marked as level 2. |
| PO9 | 2 | Students will be able to understand the value of working as a team in class presentations. Hence, it is moderately mapped and marked as level 2. |
| PO10 | 2 | Students will be able to communicate effectively during question-answer sessions in the class, which reflects their oral communication ability. In addition, assignments are a reflection of written communication ability. Hence, moderately mapped and marked as level 2. |
| BSC102.5 | PO1 | 3 | Students will be able to apply the theoretical understanding of quantum mechanics to various engineering applications such as STM and quantum computing; hence, it is significantly mapped and marked as level 3. |
| PO2 | 1 | Students will be able to analyze the concepts of quantum mechanics to solve some real-world problems hence it is slightly mapped and marked as level 1. |
| PO3 | 1 | Students will be able to use fundamentals of quantum physics in various engineering designs; hence, it is slightly mapped and marked as level 1. |
| PO8 | 2 | Students will be able to write some assignments and solve quizzes ethically with punctuality without copying from external sources. Hence, it is moderately mapped and marked as level 2. |
| PO9 | 2 | Students will be able to understand the value of working as a team in some class presentations. Hence, it is moderately mapped and marked as level 2. |
| PO10 | 2 | Students will be able to communicate effectively during question-answer sessions in the class, which reflects their oral communication ability. In addition, assignments are a reflection of written communication ability. Hence, it is moderately mapped and marked as level 2. |
| BSC102.6 | PO1 | 3 | The students will be able to apply the knowledge of semiconductors in engineering applications such as solar cell, LED, etc. Hence, it is significantly mapped and marked as level 3. |
| PO2 | 2 | Students will be able to use the concepts of semiconductors to analyze different semiconductor materials for their applications; hence, it is moderately mapped and marked as level 2. |
| PO3 | 2 | Students will be able to use concepts of semiconductor to design various electronic devices such as LED, photodiode and solar cell, etc. Hence, it is moderately mapped and marked as level 2. |
| PO8 | 2 | Students will be able to write some assignments and solve quizzes ethically with punctuality without copying from external sources. Hence, it is it is moderately mapped and marked as level 2. |
| PO9 | 2 | Students will be able to understand the value of working as a team in various class presentations. Hence, it is moderately mapped and marked as level 2. |
| PO10 | 2 | Students will be able to communicate effectively during some question-answer sessions in the class. Hence, it is moderately mapped and marked as level 2. |

**Curriculum Gaps Identified**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Course Title** | **Gap in the syllabus** | **Proposed Action** |
| 1 | Applied Physics | Interference chapter lacks the derivation of radius of curvature in Newton's Ring. | Derivation of radius of curvature of Newton's ring was taken in the lecture and that needs to be included from the next academic year. |
| 2 | Applied Physics | In electrodynamics, significance of Gauss divergence theorem and Stokes theorem with examples should be included. | Basics of Gauss divergence theorem and stokes theorem was taken during the lectures and it should be included in the syllabus. |

**Modes of Content Delivery:**

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Classroom Teaching | 9 | Field Work |
| 2 | Slides/Handouts/Notes | 10 | Mini-Project |
| 3 | ICT Tools | 11 | Lab Experiment |
| 4 | Simulations/Demonstrations | 12 | Seminar/Case Studies |
| 5 | Solving Problems | 13 | Expert Lecture |
| 6 | Design Exercise | 14 | Workshops |
| 7 | Assignments | 15 | Self-Learning Online Resources |
| 8 | Tutorial | 16 | Any other (specify) |

**Lesson plan**

**Subject / Code:** Applied Physics / (BSC102) **A. Year:** 2024-25

**Year/ Sem:** FE I **Faculty:** Dr. Vivek Singh  **Div / Branch:** E / CSE(DS)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lect. No.** | **Topic** | **Planned date** | **Execution date** | **Modes of Content Delivery** | **Assessment Method** |
| **M1** | **LASER** | | | | **Internal Assessment and University Exam** |
| **1** | Characteristics of Lasers, Spontaneous emission and stimulated emission; metastable state, population inversion, pumping mechanism. | **30.09.2024** | **30.09.2024** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **2** | Active medium & Active center, resonant cavity, coherence length and coherence time. | **07.10.2024** | **07.10.2024** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **3** | Helium-Neon laser: construction and working. | **08.10.2024** | **08.10.2024** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **4** | Application: Elementary Knowledge of LiDAR, Barcode Reader, Application of Laser in metal work. | **14.10.2024** | **14.10.2024** | Classroom Teaching,  Notes and PPT | **IA-I and**  **University Exam** |
| **M2** | **OPTICAL FIBRE** | | | | **Internal Assessment and University Exam** |
| **5** | Optical Fiber: Critical angle; acceptance angle, Numerical Aperture, total internal reflection and propagation of light. | **15.10.2024** | **15.10.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **6** | Types of optical: Single mode & Multimode, Step index & Graded index fibres | **17.10.2024** | **17.10.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **7** | Attenuation: Attenuation Coefficient and factors affecting attenuation. | **18.10.2024** | **18.10.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **8** | Fiber optic communication system, Advantages of optical fiber. | **18.10.2024** | **18.10.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **M3** | **INTERFERENCE IN THIN FILM** | | | | **Internal Assessment and University Exam** |
| **9** | Interference in thin film of uniform thickness, conditions of maxima and minima for reflected system. | **21.10.2024** | **21.10.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **10** | Conditions of maxima and minima for wedge-shaped film (qualitative). | **22.10.2024** | **21.10.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **11** | Engineering Applications: - Newton’s ring for the determination of unknown monochromatic wavelength and Refractive index of transparent liquid. | **04.11.2024** | **04.11.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **12** | Engineering Applications: - Anti-reflecting coating. | **05.11.2024** | **05.11.2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **M4** | **ELECTRODYNAMICS** | | | | **Internal Assessment and University Exam** |
| **13** | Vector calculus: Gradient, Divergence and Curl with Numericals. | **12.11.2024** | **12.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **14** | Gauss’s law for electrostatics, Gauss’s law for magnetostatics. | **12.11.2024** | **12.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **15** | Ampere’s circuital Law and Faraday’s Law. Divergence theorem and Stokes theorem. | **14.11.2024** | **14.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **16** | Maxwell’s equations in point form, integral form and their significance. | **15.11.2024** | **15.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **M5** | **QUANTUM PHYSICS** | | | | **Internal Assessment and University Exam** |
| **17** | De-Broglie hypothesis of matter waves; de-Broglie wavelength for electron, properties of matter waves, problems of de-Broglie wavelength. | **15.11.2024** | **15.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **18** | Heisenberg’s Uncertainty Principle and its applications: Non-existence of electron in the nucleus. | **15.11.2024** | **15.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **19** | Wave function and probability density, mathematical conditions for wave function, Need and significance of Schrodinger equations. | **19.11.2024** | **19.11.2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **20** | Schrodinger time independent and time dependent equation. | **19.11.2024** | **19.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **21** | Energy of a particle enclosed in rigid box and related numerical problems | **23.11.2024** | **23.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **22** | Quantum mechanical tunneling and Principles of quantum computing: concept of Qubit | **23.11.2024** | **23.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **M6** | **SEMICONDUCTOR PHYSICS** | | | | **Internal Assessment and University Exam** |
| **23** | Direct & indirect band gap semiconductor, Electrical conductivity of semiconductors. | **23.11.2024** | **23.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **24** | Drift velocity, Mobility and conductivity in semiconductors. | **26.11.2024** | **26.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **25** | Fermi Dirac distribution function. | **26.11.2024** | **26.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **26** | Position of fermi level in intrinsic semiconductors and Position of fermi level in extrinsic semiconductors. | **26.11.2024** | **26.11.2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |

**Subject / Code:** Applied Physics / (BSC102) **A. Year:** 2024-25

**Year/ Sem:** FE I **Faculty:** Dr. Vivek Singh **Div / Branch:** F / CSE(DS)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lect. No.** | **Topic** | **Planned date** | **Execution date** | **Modes of Content Delivery** | **Assessment Method** |
| **M1** | **LASER** | | | | **Internal Assessment and University Exam** |
| **1** | Characteristics of Lasers, Spontaneous emission and stimulated emission; metastable state, population inversion, pumping mechanism. | **04/10/24** | **04/10/24** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **2** | Active medium & Active center, resonant cavity, coherence length and coherence time. | **09/10/24** | **09/10/24** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **3** | Helium-Neon laser: construction and working. | **11/10/24** | **11/10/24** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **4** | Application: Elementary Knowledge of LiDAR, Barcode Reader, Application of Laser in metal work. | **11/10/24** | **11/10/24** | Classroom Teaching,  Notes and PPT | **IA-I and**  **University Exam** |
| **M2** | **OPTICAL FIBRE** | | | | **Internal Assessment and University Exam** |
| **5** | Optical Fiber: Critical angle; acceptance angle, Numerical Aperture, total internal reflection and propagation of light. | **16/10/24** | **16/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **6** | Types of optical: Single mode & Multimode, Step index & Graded index fibres | **17/10/24** | **17/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **7** | Attenuation: Attenuation Coefficient and factors affecting attenuation. | **18/10/24** | **18/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **8** | Fiber optic communication system, Advantages of optical fiber. | **23/10/24** | **23/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **M3** | **INTERFERENCE IN THIN FILM** | | | | **Internal Assessment and University Exam** |
| **9** | Interference in thin film of uniform thickness, conditions of maxima and minima for reflected system. | **23/10/24** | **23/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **10** | Conditions of maxima and minima for wedge-shaped film (qualitative). | **25/10/24** | **25/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **11** | Engineering Applications: - Newton’s ring for the determination of unknown monochromatic wavelength and Refractive index of transparent liquid. | **30/10/24** | **30/10/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **12** | Engineering Applications: - Anti-reflecting coating. | **06/11/24** | **06/11/24** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **M4** | **ELECTRODYNAMICS** | | | | **Internal Assessment and University Exam** |
| **13** | Vector calculus: Gradient, Divergence and Curl with Numericals. | **08/11/24** | **08/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **14** | Gauss’s law for electrostatics, Gauss’s law for magnetostatics. | **09/11/24** | **09/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **15** | Ampere’s circuital Law and Faraday’s Law. Divergence theorem and Stokes theorem. | **09/11/24** | **09/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **16** | Maxwell’s equations in point form, integral form and their significance. | **15/11/24** | **15/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **M5** | **QUANTUM PHYSICS** | | | | **Internal Assessment and University Exam** |
| **17** | De-Broglie hypothesis of matter waves; de-Broglie wavelength for electron, properties of matter waves, problems of de-Broglie wavelength. | **15/11/24** | **15/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **18** | Heisenberg’s Uncertainty Principle and its applications: Non-existence of electron in the nucleus. | **15/11/24** | **15/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **19** | Wave function and probability density, mathematical conditions for wave function, Need and significance of Schrodinger equations. | **22/11/24** | **22/11/24** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **20** | Schrodinger time independent and time dependent equation. | **23/11/24** | **23/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **21** | Energy of a particle enclosed in rigid box and related numerical problems | **23/11/24** | **23/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **22** | Quantum mechanical tunneling and Principles of quantum computing: concept of Qubit | **23/11/24** | **23/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **M6** | **SEMICONDUCTOR PHYSICS** | | | | **Internal Assessment and University Exam** |
| **23** | Direct & indirect band gap semiconductor, Electrical conductivity of semiconductors. | **23/11/24** | **23/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **24** | Drift velocity, Mobility and conductivity in semiconductors. | **27/11/24** | **27/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **25** | Fermi Dirac distribution function. | **29/11/24** | **29/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **26** | Position of fermi level in intrinsic semiconductors and Position of fermi level in extrinsic semiconductors. | **29/11/24** | **29/11/24** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |

**Subject / Code:** Applied Physics / (BSC102) **A. Year:** 2024-25

**Year/ Sem:** FE II **Faculty:** Vaishnavi Gurav  **Div / Branch:** L / CSE(DS)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Lect. No.** | **Topic** | **Planned date** | **Execution date** | **Modes of Content Delivery** | **Assessment Method** |
| **M1** | **LASER** | | | | **Internal Assessment and University Exam** |
| **1** | Characteristics of Lasers, Spontaneous emission and stimulated emission; metastable state, population inversion, pumping mechanism. | **18/09/2024** | **18/09/2024** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **2** | Active medium & Active center, resonant cavity, coherence length and coherence time. | **18/09/2024** | **23/09/2024** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **3** | Helium-Neon laser: construction and working. | **25/09/2024** | **25/09/2024** | Classroom Teaching,  Notes | **IA-I and**  **University Exam** |
| **4** | Application: Elementary Knowledge of LiDAR, Barcode Reader, Application of Laser in metal work. | **30/09/2024** | **30/09/2024** | Classroom Teaching,  Notes and PPT | **IA-I and**  **University Exam** |
| **M2** | **OPTICAL FIBRE** | | | | **Internal Assessment and University Exam** |
| **5** | Optical Fiber: Critical angle; acceptance angle, Numerical Aperture, total internal reflection and propagation of light. | **03/10/2024** | **07/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **6** | Types of optical: Single mode & Multimode, Step index & Graded index fibres | **03/10/2024** | **07/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **7** | Attenuation: Attenuation Coefficient and factors affecting attenuation. | **09/10/2024** | **09/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **8** | Fiber optic communication system, Advantages of optical fiber. | **09/10/2024** | **09/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **M3** | **INTERFERENCE IN THIN FILM** | | | | **Internal Assessment and University Exam** |
| **9** | Interference in thin film of uniform thickness, conditions of maxima and minima for reflected system. | **15/10/2024** | **14/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **10** | Conditions of maxima and minima for wedge-shaped film (qualitative). | **15/10/2024** | **14/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **11** | Engineering Applications: - Newton’s ring for the determination of unknown monochromatic wavelength and Refractive index of transparent liquid. | **22/10/2024** | **16/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **12** | Engineering Applications: - Anti-reflecting coating. | **23/10/2024** | **16/10/2024** | Classroom Teaching and Notes | **IA-I and**  **University Exam** |
| **M4** | **ELECTRODYNAMICS** | | | | **Internal Assessment and University Exam** |
| **13** | Vector calculus: Gradient, Divergence and Curl with Numericals. | **05/11/2024** | **21/10/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **14** | Gauss’s law for electrostatics, Gauss’s law for magnetostatics. | **05/11/2024** | **21/10/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **15** | Ampere’s circuital Law and Faraday’s Law. Divergence theorem and Stokes theorem. | **08/11/2024** | **23/10/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **16** | Maxwell’s equations in point form, integral form and their significance. | **12/11/2024** | **04/10/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **M5** | **QUANTUM PHYSICS** | | | | **Internal Assessment and University Exam** |
| **17** | De-Broglie hypothesis of matter waves; de-Broglie wavelength for electron, properties of matter waves, problems of de-Broglie wavelength. | **13/11/2024** | **04/10/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **18** | Heisenberg’s Uncertainty Principle and its applications: Non-existence of electron in the nucleus. | **13/11/2024** | **06/11/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **19** | Wave function and probability density, mathematical conditions for wave function, Need and significance of Schrodinger equations. | **14/11/2024** | **11/11/2024** | Classroom Teaching and Notes | **IA-II and**  **University Exam** |
| **20** | Schrodinger time independent and time dependent equation. | **19/11/2024** | **11/10/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **21** | Energy of a particle enclosed in rigid box and related numerical problems | **20/11/2024** | **13/10/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **22** | Quantum mechanical tunneling and Principles of quantum computing: concept of Qubit | **24/11/2024** | **18/10/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **M6** | **SEMICONDUCTOR PHYSICS** | | | | **Internal Assessment and University Exam** |
| **23** | Direct & indirect band gap semiconductor, Electrical conductivity of semiconductors. | **26/11/2024** | **26/11/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **24** | Drift velocity, Mobility and conductivity in semiconductors. | **26/11/2024** | **27/11/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **25** | Fermi Dirac distribution function. | **28/11/2024** | **30/11/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |
| **26** | Position of fermi level in intrinsic semiconductors and Position of fermi level in extrinsic semiconductors. | **28/11/2024** | **30/11/2024** | Classroom Teaching, Notes and PPT | **IA-II and**  **University Exam** |

**Attainment Tools**

**In Semester evaluation:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Internal Assessment 1 | √ | 8 | Survey/ Case-study |  |
| 2 | Internal Assessment 2 | √ | 9 | Surprise Test |  |
| 3 | Assignments | √ | 10 | Open Book Test |  |
| 4 | Tutorials |  | 11 | Course Exit survey | √ |
| 5 | Quiz | √ | 12 | Term work |  |
| 6 | Seminar/Presentation |  | 13 | Any other (specify) |  |
| 7 | Course Projects |  | 14 | Any other (specify) |  |

**End Semester evaluation:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | End Semester exam |  | 2 | Practical / Oral Exam |  |

**Performance Indicators for assessing Course Outcomes**

**Assignments**

|  |  |  |  |
| --- | --- | --- | --- |
| **Performance**  **Indicator** | **Exceed Expectations (EE)** | **Meet Expectations (ME)** | **Below Expectations (BE)** |
| Legibility  (4) | *Very neat.*  *Writing illustrates a lot of thought and preparation, grammatical errors.* | *Mostly neat Writing illustrates some thought and preparation, grammatical errors.* | *Not legible.*  *Ideas expressed are difficult to understand, grammatical errors.* |
| Demonstrated Knowledge  (4) | *Complete understanding of the questions, mathematical ideas, and processes.* | *Considerable understanding of the problem, ideas, and processes.* | *Lack of understanding for the problem.* |
| Timely submission  (2) | *Submission before deadline specified.* | *Submission on deadline.* | *Submission after deadline.* |

**Quality of Evaluation**

**Analysis of last year University Exam Question Paper:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Learning Level (Marks) | | | | | |
| Remembering | Understanding | Applying | Analyzing | Evaluating | Creating |
| BSC102.1 |  |  |  |  |  |  |
| BSC102.2 |  |  |  |  |  |  |
| BSC102.3 |  |  |  |  |  |  |
| BSC102.4 |  |  |  |  |  |  |
| BSC102.5 |  |  |  |  |  |  |
| BSC102.6 |  |  |  |  |  |  |

**Evaluation Plan:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CO | Method of evaluation | Learning Level | | | | | |
| Remembering | Understanding | Applying | Analyzing | Evaluating | Creating |
| BSC102.1 | IA | 2 | 2 | - | - | - | - |
| Quiz | 2 | 2 | 2 | - | - | - |
| Assignments | 2 | 1 | 2 | - | - | - |
| BSC102.2 | IA | 2 | 2 | 2 | - | - | - |
| Quiz | 2 | 2 | 2 | - | - | - |
| Assignments | - | - | - | - | - | - |
| BSC102.3 | IA | 2 | 2 | 3 | - | - | - |
| Quiz | 2 | 2 | 2 | - | - | - |
| Assignments | 2 | 2 | 2 | - | - | - |
| BSC102.4 | IA | 2 | 1 | 2 | - | - | - |
| Quiz | 2 | 2 | 2 | - | - | - |
| Assignments | 2 | 3 | 2 | - | - | - |
| BSC102.5 | IA | 2 | 2 | 2 | - | - | - |
| Quiz | 2 | 2 | 3 | - | - | - |
| Assignments | 2 | 1 | 3 | - | - | - |
| BSC102.6 | IA | 3 | 2 | 3 | - | - | - |
| Quiz | 3 | 2 | 2 | - | - | - |
| Assignments | - | - | - | - | - | - |

Enter correlation level 1, 2 or 3 as defined below

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

If there is no correlation put ‘—‘.

**Target for CO attainment levels**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CO | Previous year Target level | Is the CO attained in the previous year? (Y/N) | Calculated Target | Is target reached 2.8? | Revised target |
| BSC102.1 |  |  | 1.8 | N | 1.8 |
| BSC102.2 |  |  | 1.8 | N | 1.8 |
| BSC102.3 |  |  | 1.8 | N | 1.8 |
| BSC102.4 |  |  | 1.8 | N | 1.8 |
| BSC102.5 |  |  | 1.8 | N | 1.8 |
| BSC102.6 |  |  | 1.8 | N | 1.8 |

**Qualifier level for CO (%)**

|  |  |  |
| --- | --- | --- |
| External Assessment | University Exam | 52 |
| Oral / Practical | 52 |
| Internal Assessment | IA, Quizzes, Assignments, Experiments etc. | 62 |
| Course Exit Survey | 62 |

**Score for Target Attainment Levels:**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **Uni. Exam** | < 52 | >= 52 and < 62 | >= 62 |
| **Oral/ Practical** | < 52 | >= 52 and < 62 | >= 62 |
| **In Sem evaluation** | < 62 | >= 62 and < 72 | >= 72 |
| **Course Exit** | < 62 | >= 62 and < 72 | >= 72 |

The minimum Qualifier Level is for university exam is 52%

1. If <52% students get more than 52% marks, then score for the attainment will be 1.

2. If >=52% and <62% students get more than 52% marks, then score for the attainment will

be 2.

3. If >=62% students get more than 52% marks, then score for the attainment will be 3.

**CO wise marks for In-semester and End semester Evaluation**

**Internal Assessment Marks**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Roll No.** | **Name of Student ↓** | **Internal Assessment** | | | | | | | |
| **IA1** | | | | **IA2** | | | |
| **CO →** | **CO1** | **CO2** | **CO3** | **Total** | **CO4** | **CO5** | **CO6** | **Total** |
| 1 | ABHIJEET HALDAR | 3 | 6 | 3 | 12 | 5 | 4 | 3 | 12 |
| 2 | ABHISHEK YOGESH JAMBHALE | 3 | 3 | 2 | 8 | 4 | 5 | 3 | 12 |
| 3 | ADITYA SUNIL KUMBHAR | 3 | 4 | 2 | 9 | 4 | 3 | 3 | 10 |
| 4 | AMBADE DIXIT NAMDEO | 3 | 4 | 3 | 10 | 3 | 3 | 4 | 10 |
| 5 | AMBAVALE ADITI ARVIND | 3 | 5 | 4 | 12 | 1 | 3 | 3 | 7 |
| 6 | AMRITA MOHAN | 3 | 4 | 3 | 10 | 4 | 4 | 3 | 11 |
| 7 | ANJARLEKAR PRATHMESH HARISHCHANDRA | 3 | 6 | 2 | 11 | 4 | 4 | 2 | 10 |
| 8 | ANUJA SUBASH | 3 | 6 | 3 | 12 | 4 | 1 | 2 | 7 |
| 9 | BADGUJAR PRANJAL CHANDRASHEKHAR | 3 | 6 | 2 | 11 | 4 | 2 | 3 | 9 |
| 10 | BADHE TANVI NAMDEO | 1 | 2 | 3 | 6 | 2 | 2 | 2 | 6 |
| 11 | BANDEKAR PARTH SUDHAKAR | 1 | 3 | 2 | 6 | 4 | 2 | 0 | 6 |
| 12 | BARHATE KOMAL PANKAJ | 1 | 5 | 2 | 8 | 3 | 1 | 2 | 6 |
| 13 | BHAGIRATH NILAKSHI MANOHAR | 2 | 4 | 2 | 8 | 1 | 0 | 3 | 4 |
| 14 | BHANDAKKAR AJINKYA BHARAT | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 3 |
| 15 | BHANDARY PRAJWALA VIJAY | 0 | 3 | 3 | 6 | 3 | 0 | 3 | 6 |
| 16 | BHATI MANISH SURESH | 2 | 6 | 3 | 11 | 4 | 4 | 3 | 11 |
| 17 | BHAVSAR MAITRI CHANDRAKANT | 4 | 3 | 2 | 9 | 4 | 2 | 4 | 10 |
| 18 | BHAVSAR NAMAN ATULKUMAR | 2 | 1 | 2 | 5 | 1 | 4 | 2 | 7 |
| 19 | BHIRUD YASH MINESH | 3 | 2 | 1 | 6 | 4 | 1 | 3 | 8 |
| 20 | BHORI RIDDHI ANIL | 3 | 3 | 0 | 6 | 3 | 0 | 3 | 6 |
| 21 | BHUYAL CHETAN NARESH | 1 | 0 | 0 | 1 | 1 | 0 | 2 | 3 |
| 22 | BODKE OMKAR PANDHARINATH | 0 | 1 | 0 | 1 | 2 | 0 | 0 | 2 |
| 23 | CHANDALIYA PRIYANSH PARAMVEER | 1 | 3 | 2 | 6 | 3 | 0 | 3 | 6 |
| 24 | CHATTERJEE ANIK TARUN | 0 | 4 | 3 | 7 | 4 | 4 | 2 | 10 |
| 25 | CHAUDHARI AAYUSHI BHUPENDRA | 3 | 5 | 2 | 10 | 4 | 4 | 3 | 11 |
| 26 | CHAUDHARI ADITYA VIJAY | 3 | 1 | 0 | 4 | 3 | 3 | 2 | 8 |
| 27 | CHAUDHARY UMAIR AHMAD MOHD HUSSAIN | 2 | 5 | 3 | 10 | 5 | 2 | 2 | 9 |
| 28 | CHAUHAN ALOK AWADHESH | 3 | 5 | 0 | 8 | 1 | 2 | 3 | 6 |
| 29 | CHAUHAN HARSHIT SHANKARLAL | 4 | 2 | 0 | 6 | 2 | 2 | 2 | 6 |
| 30 | CHAUHAN MONI RAJKUMAR | 2 | 4 | 1 | 7 | 4 | 3 | 3 | 10 |
| 31 | CHAVAN ARYAN KAMALAKAR | 2 | 4 | 0 | 6 | 2 | 2 | 2 | 6 |
| 32 | CHINCHOLE SHRIKANT JALBA | 0 | 1 | 0 | 1 | 1 | 2 | 0 | 3 |
| 33 | CHORGHE VIDHI AJAY | 2 | 6 | 1 | 9 | 5 | 4 | 3 | 12 |
| 34 | CHOUDHARY SONAL BHANARAM | 2 | 3 | 2 | 7 | 4 | 4 | 3 | 11 |
| 35 | DALVI MANISH SUNIL | 4 | 2 | 0 | 6 | 2 | 1 | 3 | 6 |
| 36 | DAWANE RUTUJA PREMDAS | 3 | 6 | 4 | 13 | 5 | 4 | 4 | 13 |
| 37 | DESALE SUHANI SUHAS | 3 | 5 | 1 | 9 | 1 | 3 | 3 | 7 |
| 38 | DHUMAL ALISHA AMAR | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 1 |
| 39 | GALANDE TEJAS POPAT | 2 | 2 | 2 | 6 | 4 | 2 | 0 | 6 |
| 40 | GAONKAR PURVA PANDURANG | 2 | 4 | 0 | 6 | 4 | 3 | 3 | 10 |
| 41 | GARJE TUSHAR SUNIL | 2 | 2 | 2 | 6 | 4 | 3 | 0 | 7 |
| 42 | GAWADE GAYATRI RAMKRISHNA | 3 | 6 | 3 | 12 | 4 | 4 | 4 | 12 |
| 43 | GHARAT PIYUSH BHARAT | 3 | 0 | 3 | 6 | 4 | 0 | 2 | 6 |
| 44 | GHUGARE AYUSH MARUTI | 3 | 3 | 0 | 6 | 4 | 2 | 0 | 6 |
| 45 | GHUGE ATIKSH SANDEEP | 3 | 3 | 2 | 8 | 3 | 3 | 1 | 7 |
| 46 | GOHIL JAINEEL MAHESH | 3 | 4 | 0 | 7 | 2 | 2 | 2 | 6 |
| 47 | GULBHILE MADHURI MAHADEV | 2 | 3 | 3 | 8 | 5 | 4 | 4 | 13 |
| 48 | GUPTA AARYA OMPRAKASH | 2 | 2 | 2 | 6 | 4 | 4 | 3 | 11 |
| 49 | GUPTA AMISHA SUNIL | 3 | 5 | 3 | 11 | 5 | 3 | 3 | 11 |
| 50 | GUPTA RAJ RAMPYARE | 3 | 5 | 2 | 10 | 4 | 3 | 2 | 9 |
| 51 | HARDULE PRANAY DILIRAM | 2 | 2 | 2 | 6 | 4 | 0 | 2 | 6 |
| 52 | HARIJAN AKLESH KAMLESH | 3 | 4 | 3 | 10 | 3 | 2 | 4 | 9 |
| 53 | HONSHETTE SAMBHAJI SHIVANAND | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 54 | JABAR TANMAY ANKUSH | 2 | 1 | 1 | 4 | 2 | 0 | 0 | 2 |
| 55 | JADHAV ATHARVA PRASHANT | 3 | 1 | 2 | 6 | 4 | 3 | 1 | 8 |
| 56 | JADHAV SANSKAR MAHESH | 1 | 5 | 0 | 6 | 3 | 0 | 3 | 6 |
| 57 | JAGTAP SAMYAK SANDEEP | 1 | 5 | 3 | 9 | 4 | 2 | 0 | 6 |
| 58 | JAI DNYANESHWAR KALE | 1 | 3 | 2 | 6 | 4 | 2 | 4 | 10 |
| 59 | JAIN JAINAM DEEPAK | 1 | 4 | 2 | 7 | 4 | 2 | 1 | 7 |
| 60 | JALGAONKAR AAKANSHA PRADEEP | 3 | 1 | 2 | 6 | 3 | 2 | 1 | 6 |
| 61 | JAMDADE SAIRAJ SURESH | 1 | 1 | 1 | 3 | 4 | 1 | 1 | 6 |
| 62 | JOSHI KRISHNA CHETAN | 3 | 3 | 3 | 9 | 2 | 2 | 3 | 7 |
| 63 | KADAM MANSI SURESH | 3 | 3 | 3 | 9 | 3 | 3 | 2 | 8 |
| 64 | KADAM PRATIKA GANESH | 3 | 2 | 0 | 5 | 2 | 2 | 3 | 7 |
| 65 | KADUKAR SIDDHESH SURAJ | 2 | 6 | 2 | 10 | 3 | 2 | 2 | 7 |
| 66 | KAJOLI SHUBHAM GURUDAS | 1 | 5 | 2 | 8 | 3 | 4 | 3 | 10 |
| 67 | KAKADE HARSH VINAY | 2 | 2 | 2 | 6 | 2 | 2 | 2 | 6 |
| 68 | KAMBLE ANSH SURESH | 1 | 2 | 4 | 7 | 2 | 3 | 1 | 6 |
| 69 | KAMBLE HARSH DEEPAK | 3 | 4 | 4 | 11 | 5 | 4 | 3 | 12 |
| 70 | KAMBLE PRABODH BALAJI | 2 | 2 | 1 | 5 | 3 | 2 | 2 | 7 |
| 71 | KAMBLE RUSHIKESH RAVINDRA | 2 | 3 | 3 | 8 | 4 | 2 | 2 | 8 |
| 72 | KAMBLE SRUSHTI AKASH | 4 | 4 | 2 | 10 | 4 | 5 | 3 | 12 |
| 73 | KAPSE TANMAY SANTOSH | 3 | 4 | 2 | 9 | 4 | 3 | 3 | 10 |
| 74 | KARALKAR DIPESH MAHESH | 3 | 6 | 4 | 13 | 5 | 5 | 4 | 14 |
| 75 | KATE ARYAN NITIN | 2 | 5 | 3 | 10 | 3 | 3 | 3 | 9 |
| 76 | KEVADIYA MEET NARSHIBHAI | 2 | 2 | 1 | 5 | 4 | 3 | 0 | 7 |
| 77 | KHAN MOHD TAHA MOHD ZUBER | 2 | 5 | 3 | 10 | 4 | 5 | 0 | 9 |
| 78 | KHAN PARVEZ LUKMAN GANI | 2 | 3 | 2 | 7 | 4 | 2 | 0 | 6 |
| 79 | KHANOLKAR ROHIT KOMAL | 4 | 6 | 4 | 14 | 4 | 5 | 4 | 13 |
| 80 | KONDUSKAR SANSKRUTI DASHRATH | 2 | 4 | 1 | 7 | 1 | 0 | 1 | 2 |
| 81 | KORDE SANKET VITHOBA | 2 | 2 | 2 | 6 | 4 | 2 | 2 | 8 |
| 82 | KULKARNI DIVIT ASHISH | 3 | 2 | 0 | 5 | 3 | 3 | 1 | 7 |
| 83 | KUMARE VED RAVINDRA | 2 | 4 | 0 | 6 | 4 | 4 | 5 | 13 |
| 84 | KURMI ARYAN SUBHASH | 3 | 4 | 3 | 10 | 5 | 4 | 4 | 13 |
| 85 | KUSHWAHA PRATIKSHA ANIL | 4 | 6 | 3 | 13 | 5 | 5 | 3 | 13 |
| 86 | KUTE YASH DASHRATH | 3 | 2 | 3 | 8 | 3 | 5 | 2 | 10 |
| 87 | KUVAR ARYAN PRAFULLA | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 4 |
| 88 | LAD MADHURA PRASHIL | 4 | 6 | 2 | 12 | 4 | 2 | 4 | 10 |
| 89 | LOHAR SRUSHTI KIRAN | 3 | 6 | 3 | 12 | 5 | 4 | 4 | 13 |
| 90 | LOKARE SWAYAM MANGESH | 2 | 4 | 1 | 7 | 4 | 1 | 1 | 6 |
| 91 | MAHADIK AAYUSH BHAGWAN | 2 | 3 | 1 | 6 | 2 | 2 | 3 | 7 |
| 92 | MAHADIK MALATI SANTOSH | 2 | 6 | 2 | 10 | 3 | 5 | 4 | 12 |
| 93 | MAHAJAN NIHARIKA MUKUNDA | 3 | 6 | 3 | 12 | 4 | 5 | 3 | 12 |
| 94 | MAHALE UDAY RAMAN | 2 | 1 | 2 | 5 | 4 | 1 | 2 | 7 |
| 95 | MAKWANA YASH PIYUSH | 3 | 6 | 1 | 10 | 3 | 0 | 4 | 7 |
| 96 | MALAVADE TANISH SANDEEP | 2 | 1 | 2 | 5 | 5 | 0 | 4 | 9 |
| 97 | MANE ASAWARI ANIL | 2 | 5 | 3 | 10 | 4 | 4 | 3 | 11 |
| 98 | MANE DEEPAK VISHWAS | 2 | 3 | 2 | 7 | 4 | 5 | 4 | 13 |
| 99 | MANUSHREE MISTY | 3 | 3 | 2 | 8 | 3 | 1 | 2 | 6 |
| 100 | MEHTA MEET HITESH | 3 | 4 | 1 | 8 | 2 | 3 | 4 | 9 |
| 101 | MESTA MANTHAN HARESH | 3 | 6 | 3 | 12 | 3 | 4 | 4 | 11 |
| 102 | MHASKAR VEDANT VISHNU | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 103 | MISHRA SHWETA ARVIND | 3 | 4 | 3 | 10 | 3 | 3 | 1 | 7 |
| 104 | MOHAMMAD SHUJA SYED ZIYARAT HUSAIN | 4 | 6 | 3 | 13 | 1 | 4 | 3 | 8 |
| 105 | MOHITE ANUSHKA VIKAS | 3 | 2 | 2 | 7 | 2 | 3 | 2 | 7 |
| 106 | MORE SANJANA SHIVAJI | 3 | 3 | 3 | 9 | 4 | 4 | 3 | 11 |
| 107 | MORE SHUBHAM DEEPAK | 1 | 2 | 3 | 6 | 3 | 2 | 1 | 6 |
| 108 | NAGRE PRATHMESH UTTAM | 2 | 5 | 2 | 9 | 4 | 2 | 2 | 8 |
| 109 | NAIK BHARGAV SUNIL | 3 | 4 | 1 | 8 | 3 | 2 | 2 | 7 |
| 110 | NAIK MANTHAN ARVIND | 2 | 4 | 1 | 7 | 4 | 4 | 4 | 12 |
| 111 | NAIK MEET NINAD | 2 | 3 | 1 | 6 | 4 | 2 | 2 | 8 |
| 112 | NAIK VEDANT SANDEEP | 0 | 4 | 2 | 6 | 2 | 4 | 2 | 8 |
| 113 | NALANG PARTH RAMCHANDRA | 1 | 4 | 1 | 6 | 1 | 3 | 2 | 6 |
| 114 | NANDI MANNAT AMOL | 3 | 6 | 3 | 12 | 4 | 4 | 2 | 10 |
| 115 | NARE ADITYA MUKESH | 2 | 3 | 2 | 7 | 2 | 0 | 3 | 5 |
| 116 | NIKUMBHE CHINMAY RAJU | 3 | 5 | 2 | 10 | 4 | 3 | 4 | 11 |
| 117 | NIVATE HARSHAL NARAYAN | 4 | 3 | 2 | 9 | 4 | 4 | 3 | 11 |
| 118 | PALIWAL PARTH JEETENDRA | 1 | 5 | 3 | 9 | 4 | 4 | 1 | 9 |
| 119 | PANCHAL PREM LAXMIKUMAR | 3 | 6 | 1 | 10 | 5 | 5 | 2 | 12 |
| 120 | PANDEY KARAN SANJAY | 3 | 6 | 4 | 13 | 4 | 5 | 4 | 13 |
| 121 | PANERIA VIHAAN MANOJ | 3 | 5 | 3 | 11 | 3 | 3 | 3 | 9 |
| 122 | PANVALKAR VALLARI RAVIKIRAN | 3 | 6 | 3 | 12 | 5 | 3 | 2 | 10 |
| 123 | PARAB SANIYA LAXMAN | 3 | 5 | 2 | 10 | 4 | 3 | 4 | 11 |
| 124 | PASWAN ANKIT SHANKAR | 3 | 1 | 2 | 6 | 4 | 0 | 2 | 6 |
| 125 | PATADIA OM RUPAL | 3 | 5 | 2 | 10 | 2 | 4 | 2 | 8 |
| 126 | PATEL ASHISH RAMESH | 3 | 6 | 3 | 12 | 3 | 2 | 4 | 9 |
| 127 | PATEL HETVI PIYUSH | 2 | 4 | 3 | 9 | 5 | 1 | 4 | 10 |
| 128 | PATEL MOKSH DAXESH | 2 | 4 | 2 | 8 | 3 | 0 | 3 | 6 |
| 129 | PATEL YASHIKA SUNIL | 1 | 2 | 3 | 6 | 5 | 1 | 2 | 8 |
| 130 | PATIL AAKANSHA ANKUSH | 1 | 5 | 2 | 8 | 3 | 0 | 1 | 4 |
| 131 | PATIL DHANASHREE LILADHAR | 1 | 4 | 2 | 7 | 3 | 2 | 3 | 8 |
| 132 | PATIL JAY VIJAY | 0 | 4 | 1 | 5 | 1 | 1 | 0 | 2 |
| 133 | PATIL KARAN PANKAJ | 1 | 2 | 2 | 5 | 3 | 2 | 2 | 7 |
| 134 | PATIL KHUSHAL SANTOSH | 2 | 4 | 3 | 9 | 5 | 4 | 4 | 13 |
| 135 | PETHKAR OM | 3 | 3 | 0 | 6 | 2 | 2 | 2 | 6 |
| 136 | BHASKER SANIL YASH | 4 | 5 | 4 | 13 | 3 | 2 | 5 | 10 |
| 137 | DEDHIA YASH | 3 | 6 | 2 | 11 | 5 | 3 | 2 | 10 |
| 138 | DESAI GAURI SANTOSH | 3 | 6 | 4 | 13 | 5 | 4 | 4 | 13 |
| 139 | KANOJIYA OM SURYABHAN | 4 | 6 | 4 | 14 | 5 | 5 | 1 | 11 |
| 140 | KARPE SAHIL VIKAS | 4 | 6 | 3 | 13 | 5 | 3 | 5 | 13 |
| 141 | LAKHANI PARV SANJAY KUMAR | 2 | 2 | 3 | 7 | 3 | 3 | 2 | 8 |
| 142 | MORE SWANIK NILESH | 2 | 3 | 1 | 6 | 0 | 2 | 4 | 6 |
| 143 | PATIL LUV ASHOK | 2 | 4 | 0 | 6 | 3 | 5 | 0 | 8 |
| 144 | PATIL MANASVI RATNAKAR | 3 | 3 | 2 | 8 | 5 | 3 | 4 | 12 |
| 145 | PATIL PRANJAL MAHENDRA | 4 | 0 | 2 | 6 | 5 | 3 | 1 | 9 |
| 146 | PATIL SANDHVI KANTI | 2 | 5 | 4 | 11 | 3 | 3 | 4 | 10 |
| 147 | PATIL SHWETA ASHOK | 4 | 5 | 3 | 12 | 5 | 5 | 3 | 13 |
| 148 | PATIL SUPRIYA SANTOSH | 2 | 3 | 2 | 7 | 2 | 3 | 3 | 8 |
| 149 | PATIL SWARAJ RAJENDRA | 1 | 3 | 2 | 6 | 2 | 0 | 4 | 6 |
| 150 | PAWAR SHUBHAM SUNIL | 1 | 1 | 5 | 7 | 5 | 0 | 2 | 7 |
| 151 | PAWAR SWARAJ RAJENDRA | 1 | 4 | 2 | 7 | 5 | 2 | 2 | 9 |
| 152 | PENDHARKAR YASH DEEPAK | 1 | 3 | 2 | 6 | 5 | 4 | 5 | 14 |
| 153 | PINJARI REHAN LATIF | 2 | 3 | 1 | 6 | 4 | 4 | 1 | 9 |
| 154 | POOJARY SINCHANA GOPAL | 2 | 6 | 4 | 12 | 5 | 5 | 2 | 12 |
| 155 | PRAJAPATI SUMIT PRATAP | 4 | 6 | 0 | 10 | 5 | 4 | 2 | 11 |
| 156 | RAJAK AADITYA RAVI | 4 | 6 | 4 | 14 | 3 | 5 | 3 | 11 |
| 157 | RANE SAHIL SURESH | 4 | 6 | 4 | 14 | 5 | 5 | 5 | 15 |
| 158 | RATHOD RAHUL BALIRAM | 2 | 4 | 3 | 9 | 4 | 2 | 2 | 8 |
| 159 | RATNE ROHAN GANESH | 2 | 5 | 2 | 9 | 2 | 4 | 3 | 9 |
| 160 | RAUT ALISHA SHEKHAR | 2 | 2 | 2 | 6 | 4 | 4 | 2 | 10 |
| 161 | RAUT MAYANK ANKUSH | 3 | 5 | 3 | 11 | 3 | 1 | 0 | 4 |
| 162 | RAUT RUDRA RAKESH | 1 | 5 | 3 | 9 | 2 | 3 | 2 | 7 |
| 163 | RAUT SOHAM KIRTIKUMAR | 2 | 2 | 2 | 6 | 5 | 3 | 3 | 11 |
| 164 | RAVALE PRATIK RANGNATH | 3 | 5 | 4 | 12 | 5 | 5 | 5 | 15 |
| 165 | SALGAONKAR DAKSHATA CHANDRAKANT | 4 | 6 | 4 | 14 | 5 | 4 | 2 | 11 |
| 166 | SALUNKHE SANSKAR VIRENDRA | 3 | 6 | 2 | 11 | 5 | 2 | 1 | 8 |
| 167 | SAWANT ESHA MAHESH | 1 | 6 | 3 | 10 | 2 | 2 | 5 | 9 |
| 168 | SAWANT MAITHILI NILESH | 4 | 6 | 4 | 14 | 4 | 4 | 5 | 13 |
| 169 | SAWANT RISHIKESH KISHOR | 2 | 3 | 1 | 6 | 3 | 0 | 3 | 6 |
| 170 | SAWANT SAMAR SANTOSH | 0 | 6 | 2 | 8 | 2 | 3 | 2 | 7 |
| 171 | SAWANT SHREYA AMIT | 5 | 6 | 4 | 15 | 5 | 5 | 5 | 15 |
| 172 | SAWANT SUMRITA SUKHADEO | 4 | 5 | 3 | 12 | 2 | 4 | 4 | 10 |
| 173 | SENTA VISHAL VIJAYBHAI | 2 | 3 | 2 | 7 | 5 | 4 | 5 | 14 |
| 174 | SHAH AAYUSH RAJKUMAR | 2 | 4 | 2 | 8 | 5 | 4 | 4 | 13 |
| 175 | SHAIKH RIYAAN AKEELAHMED | 0 | 5 | 2 | 7 | 5 | 1 | 1 | 7 |
| 176 | SHARMA RAJ BABLU | 2 | 6 | 3 | 11 | 5 | 5 | 5 | 15 |
| 177 | SHAW PRALAYANKAR SHEOPRASAD | 2 | 5 | 2 | 9 | 3 | 4 | 2 | 9 |
| 178 | SHETTIGAR TEJAS SATHISH | 4 | 2 | 2 | 8 | 5 | 2 | 1 | 8 |
| 179 | SHETTY PRANISH HARISH | 2 | 3 | 2 | 7 | 4 | 2 | 3 | 9 |
| 180 | SINGH ANTARIKSH ARJUN | 4 | 5 | 3 | 12 | 4 | 2 | 5 | 11 |
| 181 | SINGH ARYAN SURYAPRAKASH | 2 | 4 | 1 | 7 | 4 | 4 | 2 | 10 |
| 182 | SINGH RISHU MANOJ | 4 | 6 | 3 | 13 | 5 | 5 | 4 | 14 |
| 183 | SINGH SHUBHANSHU ARVIND KUMAR | 2 | 6 | 4 | 12 | 2 | 3 | 4 | 9 |
| 184 | SONDIGALA HARSH RAJUBHAI | 1 | 3 | 3 | 7 | 5 | 5 | 5 | 15 |
| 185 | TALEKAR JAY CHANDRASEN | 4 | 6 | 3 | 13 | 5 | 5 | 5 | 15 |
| 186 | TALIKOTE SANSKARDEEP BALAJI | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 4 |
| 187 | TAYADE SOHAM RAJENDRA | 4 | 5 | 3 | 12 | 5 | 5 | 3 | 13 |
| 188 | THAKUR SANIKA AVINASH | 3 | 6 | 2 | 11 | 5 | 5 | 4 | 14 |
| 189 | THAKUR URVI VIVEK | 3 | 3 | 2 | 8 | 4 | 1 | 1 | 6 |
| 190 | THOSAR SHLOK ABHIJIT | 0 | 4 | 2 | 6 | 3 | 1 | 3 | 7 |
| 191 | TIWARI CHANDAN VIJAY | 3 | 1 | 3 | 7 | 5 | 2 | 4 | 11 |
| 192 | TIWARI MAHEK TRIPURARI | 4 | 4 | 4 | 12 | 3 | 0 | 5 | 8 |
| 193 | VAIDYA PARTH NILESH | 3 | 6 | 1 | 10 | 5 | 0 | 5 | 10 |
| 194 | VAITY RUGVED NILESH | 2 | 4 | 1 | 7 | 3 | 2 | 1 | 6 |
| 195 | VANARASE PARAS KAMLESH | 4 | 6 | 4 | 14 | 5 | 5 | 5 | 15 |
| 196 | VARAK PRAFUL BABYA | 3 | 5 | 3 | 11 | 5 | 2 | 4 | 11 |
| 197 | VARIA NAMAN VIMAL | 3 | 5 | 2 | 10 | 5 | 4 | 5 | 14 |
| 198 | VAZE NEHALI NITIN | 2 | 1 | 3 | 6 | 4 | 1 | 2 | 7 |
| 199 | VICHARE KAVYA MAHESH | 2 | 6 | 4 | 12 | 5 | 5 | 4 | 14 |
| 200 | VISHWAKARMA SUMIT KANHAIYALAL | 4 | 6 | 4 | 14 | 5 | 5 | 5 | 15 |
| 201 | WAKPAIJAN SANIA PRASHANT | 4 | 6 | 4 | 14 | 5 | 5 | 4 | 14 |
| 202 | YADAV DEEPAKKUMAR AWADHRAJ | 3 | 5 | 4 | 12 | 5 | 3 | 4 | 12 |
| 203 | YADAV KRISHNA ANIL | 0 | 4 | 2 | 6 | 5 | 2 | 4 | 11 |
| 204 | YADAV PRITI RAJU | 3 | 5 | 2 | 10 | 2 | 2 | 3 | 7 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |
|  | **Summary** | | | | | | | | | |
|  | Total No. of Students | 204 |  |  |  |  |  |  |  |  |
|  | Total Present | 204 |  |  |  |  |  |  |  |  |
|  | Qualifier Level (%) | 64 | 64 | 64 |  | 64 | 64 | 64 |  |  |
|  | Total Marks | 5 | 6 | 4 |  | 5 | 5 | 5 |  |  |
|  | Qualifier Level in terms of marks | 3.2 | 3.84 | 2.56 |  | 3.2 | 3.2 | 3.2 |  |  |
|  | No. of Students above Qualifier Level | 30 | 123 | 82 |  | 118 | 73 | 60 |  |  |
|  | % No. of Students above Qualifier Level | 14.71 | 60.29 | 40.20 |  | 57.84 | 35.78 | 29.41 |  |  |
|  | Attainment level | 1 | 2 | 1 |  | 1 | 1 | 1 |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **In Semester Evaluation (Quizzes and Assignments Marks)** | | | | | | | | | |  |  |
| **Roll No** | **Name of the student** | **Quizzes** | | | | | | **Assignments** | | | |
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | A1 | A2 | A3 | A4 |
| **BSC102.1** | **BSC102.2** | **BSC102.3** | **BSC102.4** | **BSC102.5** | **BSC102.6** | **BSC102.1** | **BSC102.3** | **BSC102.4** | **BSC102.5** |
| 1 | ABHIJEET HALDAR | 9 | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 7 | 9 |
| 2 | ABHISHEK YOGESH JAMBHALE | 10 | 9 | 10 | 10 | 9 | 9 | 9 | 9 | 8 | 9 |
| 3 | ADITYA SUNIL KUMBHAR | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 6 |
| 4 | AMBADE DIXIT NAMDEO | 9 | 9 | 10 | 10 | 10 | 9 | 9 | 8 | 6 | 6 |
| 5 | AMBAVALE ADITI ARVIND | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 9 |
| 6 | AMRITA MOHAN | 10 | 9 | 10 | 9 | 10 | 9 | 9 | 8 | 9 | 9 |
| 7 | ANJARLEKAR PRATHMESH HARISHCHANDRA | 10 | 10 | 9 | 9 | 10 | 10 | 9 | 8 | 9 | 9 |
| 8 | ANUJA SUBASH | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 |
| 9 | BADGUJAR PRANJAL CHANDRASHEKHAR | 9 | 9 | 10 | 10 | 9 | 10 | 9 | 9 | 7 | 10 |
| 10 | BADHE TANVI NAMDEO | 6 | 9 | 6 | 9 | 7 | 9 | 7 | 7 | 6 | 7 |
| 11 | BANDEKAR PARTH SUDHAKAR | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 7 |
| 12 | BARHATE KOMAL PANKAJ | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 8 |
| 13 | BHAGIRATH NILAKSHI MANOHAR | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 8 |
| 14 | BHANDAKKAR AJINKYA BHARAT | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 9 | 8 |
| 15 | BHANDARY PRAJWALA VIJAY | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 9 |
| 16 | BHATI MANISH SURESH | 10 | 9 | 10 | 10 | 0 | 9 | 9 | 9 | 9 | 9 |
| 17 | BHAVSAR MAITRI CHANDRAKANT | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 18 | BHAVSAR NAMAN ATULKUMAR | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 5 | 8 |
| 19 | BHIRUD YASH MINESH | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 20 | BHORI RIDDHI ANIL | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 6 | 8 |
| 21 | BHUYAL CHETAN NARESH | 9 | 9 | 9 | 9 | 9 | 9 | 6 | 6 | 8 | 8 |
| 22 | BODKE OMKAR PANDHARINATH | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 6 | 7 | 10 |
| 23 | CHANDALIYA PRIYANSH PARAMVEER | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 7 |
| 24 | CHATTERJEE ANIK TARUN | 10 | 9 | 10 | 10 | 9 | 9 | 9 | 9 | 9 | 9 |
| 25 | CHAUDHARI AAYUSHI BHUPENDRA | 9 | 10 | 9 | 10 | 8 | 9 | 8 | 9 | 7 | 9 |
| 26 | CHAUDHARI ADITYA VIJAY | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 |
| 27 | CHAUDHARY UMAIR AHMAD MOHD HUSSAIN | 8 | 9 | 8 | 9 | 10 | 9 | 9 | 9 | 8 | 9 |
| 28 | CHAUHAN ALOK AWADHESH | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 8 |
| 29 | CHAUHAN HARSHIT SHANKARLAL | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 8 | 6 | 9 |
| 30 | CHAUHAN MONI RAJKUMAR | 10 | 9 | 10 | 9 | 7 | 9 | 9 | 9 | 7 | 9 |
| 31 | CHAVAN ARYAN KAMALAKAR | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 7 | 6 |
| 32 | CHINCHOLE SHRIKANT JALBA | 9 | 9 | 7 | 5 | 8 | 7 | 8 | 8 | 8 | 6 |
| 33 | CHORGHE VIDHI AJAY | 10 | 10 | 9 | 10 | 9 | 7 | 9 | 8 | 9 | 9 |
| 34 | CHOUDHARY SONAL BHANARAM | 9 | 10 | 9 | 7 | 10 | 9 | 9 | 9 | 9 | 9 |
| 35 | DALVI MANISH SUNIL | 8 | 9 | 7 | 9 | 7 | 8 | 7 | 7 | 5 | 9 |
| 36 | DAWANE RUTUJA PREMDAS | 10 | 10 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 8 |
| 37 | DESALE SUHANI SUHAS | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 | 10 |
| 38 | DHUMAL ALISHA AMAR | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 7 | 7 | 7 |
| 39 | GALANDE TEJAS POPAT | 9 | 9 | 9 | 9 | 9 | 9 | 6 | 6 | 6 | 7 |
| 40 | GAONKAR PURVA PANDURANG | 9 | 10 | 7 | 9 | 8 | 9 | 9 | 9 | 8 | 8 |
| 41 | GARJE TUSHAR SUNIL | 9 | 9 | 9 | 9 | 9 | 9 | 7 | 8 | 8 | 8 |
| 42 | GAWADE GAYATRI RAMKRISHNA | 10 | 10 | 9 | 10 | 8 | 9 | 9 | 9 | 9 | 8 |
| 43 | GHARAT PIYUSH BHARAT | 8 | 9 | 8 | 9 | 7 | 9 | 8 | 7 | 8 | 9 |
| 44 | GHUGARE AYUSH MARUTI | 9 | 8 | 7 | 7 | 7 | 9 | 7 | 8 | 7 | 9 |
| 45 | GHUGE ATIKSH SANDEEP | 9 | 9 | 8 | 9 | 10 | 9 | 9 | 8 | 7 | 8 |
| 46 | GOHIL JAINEEL MAHESH | 7 | 9 | 9 | 7 | 9 | 9 | 7 | 7 | 7 | 8 |
| 47 | GULBHILE MADHURI MAHADEV | 9 | 10 | 9 | 10 | 10 | 9 | 9 | 9 | 8 | 8 |
| 48 | GUPTA AARYA OMPRAKASH | 9 | 8 | 9 | 9 | 9 | 8 | 8 | 8 | 6 | 8 |
| 49 | GUPTA AMISHA SUNIL | 9 | 9 | 9 | 7 | 9 | 7 | 9 | 9 | 9 | 8 |
| 50 | GUPTA RAJ RAMPYARE | 10 | 9 | 9 | 10 | 10 | 9 | 9 | 9 | 8 | 10 |
| 51 | HARDULE PRANAY DILIRAM | 9 | 7 | 8 | 8 | 8 | 7 | 7 | 6 | 7 | 7 |
| 52 | HARIJAN AKLESH KAMLESH | 8 | 9 | 8 | 7 | 7 | 8 | 8 | 9 | 8 | 9 |
| 53 | HONSHETTE SAMBHAJI SHIVANAND | 6 | 5 | 7 | 6 | 5 | 6 | 5 | 7 | 8 | 9 |
| 54 | JABAR TANMAY ANKUSH | 7 | 5 | 6 | 9 | 8 | 7 | 6 | 5 | 7 | 8 |
| 55 | JADHAV ATHARVA PRASHANT | 9 | 8 | 9 | 8 | 8 | 9 | 8 | 6 | 7 | 9 |
| 56 | JADHAV SANSKAR MAHESH | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 8 | 8 |
| 57 | JAGTAP SAMYAK SANDEEP | 10 | 8 | 9 | 10 | 9 | 8 | 9 | 8 | 7 | 9 |
| 58 | JAI DNYANESHWAR KALE | 9 | 8 | 9 | 10 | 9 | 8 | 7 | 8 | 8 | 9 |
| 59 | JAIN JAINAM DEEPAK | 9 | 8 | 7 | 9 | 9 | 7 | 8 | 8 | 7 | 6 |
| 60 | JALGAONKAR AAKANSHA PRADEEP | 7 | 8 | 7 | 7 | 7 | 6 | 7 | 8 | 7 | 6 |
| 61 | JAMDADE SAIRAJ SURESH | 9 | 7 | 9 | 7 | 7 | 8 | 6 | 7 | 7 | 9 |
| 62 | JOSHI KRISHNA CHETAN | 10 | 10 | 9 | 10 | 9 | 9 | 9 | 9 | 9 | 9 |
| 63 | KADAM MANSI SURESH | 10 | 7 | 10 | 9 | 7 | 9 | 7 | 8 | 7 | 9 |
| 64 | KADAM PRATIKA GANESH | 9 | 8 | 9 | 10 | 7 | 9 | 7 | 5 | 8 | 8 |
| 65 | KADUKAR SIDDHESH SURAJ | 8 | 9 | 10 | 7 | 10 | 9 | 6 | 7 | 8 | 10 |
| 66 | KAJOLI SHUBHAM GURUDAS | 9 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 8 | 7 |
| 67 | KAKADE HARSH VINAY | 7 | 8 | 6 | 6 | 7 | 10 | 8 | 8 | 7 | 7 |
| 68 | KAMBLE ANSH SURESH | 7 | 9 | 7 | 9 | 8 | 9 | 8 | 8 | 7 | 8 |
| 69 | KAMBLE HARSH DEEPAK | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 6 | 8 |
| 70 | KAMBLE PRABODH BALAJI | 5 | 8 | 9 | 9 | 9 | 9 | 9 | 5 | 9 | 8 |
| 71 | KAMBLE RUSHIKESH RAVINDRA | 9 | 9 | 8 | 8 | 9 | 8 | 8 | 9 | 5 | 9 |
| 72 | KAMBLE SRUSHTI AKASH | 9 | 5 | 9 | 9 | 5 | 9 | 9 | 9 | 9 | 9 |
| 73 | KAPSE TANMAY SANTOSH | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 8 |
| 74 | KARALKAR DIPESH MAHESH | 9 | 9 | 8 | 9 | 6 | 8 | 8 | 9 | 9 | 8 |
| 75 | KATE ARYAN NITIN | 9 | 9 | 9 | 7 | 9 | 9 | 9 | 9 | 5 | 8 |
| 76 | KEVADIYA MEET NARSHIBHAI | 9 | 9 | 9 | 6 | 8 | 9 | 9 | 9 | 5 | 8 |
| 77 | KHAN MOHD TAHA MOHD ZUBER | 8 | 9 | 6 | 9 | 9 | 6 | 6 | 8 | 8 | 8 |
| 78 | KHAN PARVEZ LUKMAN GANI | 8 | 5 | 7 | 9 | 9 | 5 | 7 | 8 | 9 | 10 |
| 79 | KHANOLKAR ROHIT KOMAL | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 7 |
| 80 | KONDUSKAR SANSKRUTI DASHRATH | 7 | 6 | 8 | 5 | 5 | 6 | 8 | 9 | 8 | 9 |
| 81 | KORDE SANKET VITHOBA | 9 | 5 | 9 | 9 | 6 | 5 | 9 | 9 | 8 | 9 |
| 82 | KULKARNI DIVIT ASHISH | 9 | 9 | 8 | 8 | 9 | 9 | 8 | 9 | 9 | 8 |
| 83 | KUMARE VED RAVINDRA | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 84 | KURMI ARYAN SUBHASH | 5 | 5 | 9 | 9 | 8 | 9 | 9 | 5 | 9 | 8 |
| 85 | KUSHWAHA PRATIKSHA ANIL | 9 | 9 | 9 | 9 | 7 | 9 | 9 | 9 | 5 | 9 |
| 86 | KUTE YASH DASHRATH | 7 | 5 | 9 | 9 | 9 | 9 | 9 | 7 | 9 | 9 |
| 87 | KUVAR ARYAN PRAFULLA | 7 | 8 | 9 | 7 | 5 | 8 | 9 | 7 | 9 | 6 |
| 88 | LAD MADHURA PRASHIL | 9 | 7 | 8 | 6 | 5 | 9 | 8 | 9 | 7 | 6 |
| 89 | LOHAR SRUSHTI KIRAN | 9 | 5 | 9 | 9 | 9 | 5 | 9 | 9 | 9 | 9 |
| 90 | LOKARE SWAYAM MANGESH | 8 | 8 | 9 | 9 | 9 | 8 | 9 | 8 | 7 | 9 |
| 91 | MAHADIK AAYUSH BHAGWAN | 8 | 9 | 9 | 9 | 5 | 9 | 9 | 8 | 9 | 9 |
| 92 | MAHADIK MALATI SANTOSH | 9 | 6 | 9 | 8 | 8 | 9 | 9 | 9 | 9 | 8 |
| 93 | MAHAJAN NIHARIKA MUKUNDA | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 10 |
| 94 | MAHALE UDAY RAMAN | 5 | 6 | 9 | 9 | 9 | 9 | 9 | 5 | 5 | 7 |
| 95 | MAKWANA YASH PIYUSH | 9 | 8 | 8 | 9 | 9 | 9 | 8 | 9 | 9 | 7 |
| 96 | MALAVADE TANISH SANDEEP | 9 | 9 | 9 | 8 | 5 | 9 | 9 | 9 | 5 | 8 |
| 97 | MANE ASAWARI ANIL | 9 | 6 | 8 | 9 | 9 | 7 | 8 | 9 | 9 | 8 |
| 98 | MANE DEEPAK VISHWAS | 9 | 9 | 8 | 9 | 9 | 5 | 8 | 9 | 9 | 8 |
| 99 | MANUSHREE MISTY | 9 | 5 | 9 | 8 | 5 | 9 | 9 | 9 | 8 | 9 |
| 100 | MEHTA MEET HITESH | 9 | 8 | 9 | 8 | 9 | 8 | 8 | 9 | 9 | 9 |
| 101 | MESTA MANTHAN HARESH | 9 | 9 | 9 | 9 | 9 | 8 | 8 | 9 | 9 | 8 |
| 102 | MHASKAR VEDANT VISHNU | 5 | 4 | 3 | 5 | 6 | 1 | 5 | 5 | 9 | 8 |
| 103 | MISHRA SHWETA ARVIND | 5 | 9 | 7 | 5 | 9 | 9 | 9 | 5 | 7 | 8 |
| 104 | MOHAMMAD SHUJA SYED ZIYARAT HUSAIN | 8 | 5 | 8 | 9 | 9 | 9 | 9 | 8 | 6 | 8 |
| 105 | MOHITE ANUSHKA VIKAS | 9 | 9 | 9 | 9 | 8 | 7 | 7 | 9 | 9 | 8 |
| 106 | MORE SANJANA SHIVAJI | 8 | 5 | 5 | 5 | 8 | 8 | 8 | 8 | 9 | 10 |
| 107 | MORE SHUBHAM DEEPAK | 9 | 9 | 8 | 5 | 9 | 9 | 9 | 9 | 9 | 7 |
| 108 | NAGRE PRATHMESH UTTAM | 9 | 8 | 6 | 8 | 8 | 9 | 9 | 9 | 9 | 9 |
| 109 | NAIK BHARGAV SUNIL | 9 | 9 | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 |
| 110 | NAIK MANTHAN ARVIND | 9 | 9 | 5 | 9 | 9 | 9 | 9 | 9 | 8 | 8 |
| 111 | NAIK MEET NINAD | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 112 | NAIK VEDANT SANDEEP | 9 | 9 | 5 | 8 | 5 | 8 | 8 | 9 | 9 | 8 |
| 113 | NALANG PARTH RAMCHANDRA | 9 | 9 | 9 | 9 | 9 | 7 | 7 | 9 | 9 | 9 |
| 114 | NANDI MANNAT AMOL | 9 | 6 | 5 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| 115 | NARE ADITYA MUKESH | 9 | 9 | 5 | 9 | 9 | 8 | 8 | 9 | 7 | 6 |
| 116 | NIKUMBHE CHINMAY RAJU | 9 | 9 | 8 | 5 | 8 | 9 | 9 | 9 | 9 | 6 |
| 117 | NIVATE HARSHAL NARAYAN | 5 | 9 | 9 | 9 | 7 | 6 | 6 | 5 | 9 | 9 |
| 118 | PALIWAL PARTH JEETENDRA | 9 | 8 | 9 | 8 | 5 | 6 | 6 | 9 | 9 | 9 |
| 119 | PANCHAL PREM LAXMIKUMAR | 9 | 9 | 8 | 8 | 5 | 9 | 9 | 9 | 9 | 9 |
| 120 | PANDEY KARAN SANJAY | 9 | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 8 | 8 |
| 121 | PANERIA VIHAAN MANOJ | 9 | 9 | 9 | 5 | 9 | 9 | 9 | 9 | 9 | 10 |
| 122 | PANVALKAR VALLARI RAVIKIRAN | 5 | 9 | 9 | 6 | 9 | 8 | 8 | 5 | 9 | 7 |
| 123 | PARAB SANIYA LAXMAN | 8 | 6 | 9 | 6 | 7 | 9 | 9 | 8 | 9 | 7 |
| 124 | PASWAN ANKIT SHANKAR | 9 | 9 | 5 | 7 | 9 | 5 | 5 | 9 | 8 | 8 |
| 125 | PATADIA OM RUPAL | 9 | 9 | 9 | 9 | 9 | 5 | 5 | 9 | 9 | 8 |
| 126 | PATEL ASHISH RAMESH | 9 | 8 | 9 | 9 | 5 | 8 | 8 | 9 | 9 | 8 |
| 127 | PATEL HETVI PIYUSH | 7 | 6 | 7 | 7 | 5 | 5 | 5 | 7 | 8 | 9 |
| 128 | PATEL MOKSH DAXESH | 9 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 8 | 9 |
| 129 | PATEL YASHIKA SUNIL | 9 | 9 | 7 | 9 | 8 | 9 | 9 | 9 | 9 | 8 |
| 130 | PATIL AAKANSHA ANKUSH | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 131 | PATIL DHANASHREE LILADHAR | 8 | 9 | 5 | 4 | 6 | 8 | 8 | 9 | 5 | 8 |
| 132 | PATIL JAY VIJAY | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 8 |
| 133 | PATIL KARAN PANKAJ | 9 | 9 | 5 | 5 | 9 | 9 | 9 | 9 | 9 | 8 |
| 134 | PATIL KHUSHAL SANTOSH | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 5 | 10 |
| 135 | PETHKAR OM | 7 | 9 | 5 | 8 | 9 | 9 | 9 | 7 | 5 | 7 |
| 136 | BHASKER SANIL YASH | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 9 |
| 137 | DEDHIA YASH | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 |
| 138 | DESAI GAURI SANTOSH | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 8 | 7 | 8 |
| 139 | KANOJIYA OM SURYABHAN | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 7 | 8 | 9 |
| 140 | KARPE SAHIL VIKAS | 10 | 10 | 10 | 10 | 10 | 10 | 6 | 7 | 6 | 8 |
| 141 | LAKHANI PARV SANJAY KUMAR | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 7 | 7 | 9 |
| 142 | MORE SWANIK NILESH | 10 | 10 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 9 |
| 143 | PATIL LUV ASHOK | 10 | 8 | 10 | 8 | 9 | 10 | 10 | 10 | 10 | 6 |
| 144 | PATIL MANASVI RATNAKAR | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 6 |
| 145 | PATIL PRANJAL MAHENDRA | 9 | 8 | 7 | 7 | 9 | 8 | 9 | 8 | 7 | 9 |
| 146 | PATIL SANDHVI KANTI | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 9 |
| 147 | PATIL SHWETA ASHOK | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 9 |
| 148 | PATIL SUPRIYA SANTOSH | 7 | 10 | 8 | 9 | 9 | 10 | 7 | 7 | 7 | 8 |
| 149 | PATIL SWARAJ RAJENDRA | 7 | 10 | 9 | 7 | 8 | 10 | 8 | 8 | 9 | 10 |
| 150 | PAWAR SHUBHAM SUNIL | 10 | 7 | 10 | 8 | 10 | 9 | 7 | 7 | 9 | 7 |
| 151 | PAWAR SWARAJ RAJENDRA | 10 | 7 | 10 | 8 | 10 | 8 | 10 | 10 | 10 | 7 |
| 152 | PENDHARKAR YASH DEEPAK | 10 | 10 | 10 | 10 | 10 | 10 | 6 | 7 | 6 | 8 |
| 153 | PINJARI REHAN LATIF | 7 | 8 | 10 | 8 | 8 | 10 | 8 | 8 | 7 | 8 |
| 154 | POOJARY SINCHANA GOPAL | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 7 | 8 | 8 |
| 155 | PRAJAPATI SUMIT PRATAP | 7 | 10 | 7 | 10 | 7 | 10 | 7 | 7 | 7 | 9 |
| 156 | RAJAK AADITYA RAVI | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 7 | 7 | 9 |
| 157 | RANE SAHIL SURESH | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 8 | 10 | 8 |
| 158 | RATHOD RAHUL BALIRAM | 8 | 10 | 8 | 10 | 8 | 10 | 7 | 7 | 7 | 8 |
| 159 | RATNE ROHAN GANESH | 7 | 10 | 8 | 10 | 10 | 7 | 7 | 7 | 7 | 8 |
| 160 | RAUT ALISHA SHEKHAR | 8 | 10 | 7 | 10 | 8 | 10 | 9 | 8 | 10 | 8 |
| 161 | RAUT MAYANK ANKUSH | 8 | 10 | 7 | 10 | 8 | 10 | 7 | 7 | 7 | 8 |
| 162 | RAUT RUDRA RAKESH | 7 | 10 | 8 | 8 | 8 | 10 | 9 | 10 | 9 | 10 |
| 163 | RAUT SOHAM KIRTIKUMAR | 8 | 10 | 9 | 10 | 8 | 10 | 10 | 8 | 10 | 7 |
| 164 | RAVALE PRATIK RANGNATH | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 7 | 8 | 9 |
| 165 | SALGAONKAR DAKSHATA CHANDRAKANT | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 7 | 7 | 9 |
| 166 | SALUNKHE SANSKAR VIRENDRA | 8 | 10 | 8 | 10 | 8 | 10 | 7 | 7 | 6 | 8 |
| 167 | SAWANT ESHA MAHESH | 9 | 10 | 8 | 10 | 8 | 10 | 9 | 8 | 10 | 9 |
| 168 | SAWANT MAITHILI NILESH | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 7 | 9 | 8 |
| 169 | SAWANT RISHIKESH KISHOR | 7 | 10 | 8 | 10 | 7 | 7 | 6 | 7 | 6 | 9 |
| 170 | SAWANT SAMAR SANTOSH | 7 | 10 | 8 | 10 | 7 | 10 | 7 | 7 | 7 | 9 |
| 171 | SAWANT SHREYA AMIT | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 7 | 6 |
| 172 | SAWANT SUMRITA SUKHADEO | 10 | 10 | 8 | 10 | 10 | 7 | 7 | 7 | 8 | 6 |
| 173 | SENTA VISHAL VIJAYBHAI | 7 | 10 | 8 | 10 | 10 | 10 | 8 | 7 | 8 | 9 |
| 174 | SHAH AAYUSH RAJKUMAR | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 8 | 8 | 9 |
| 175 | SHAIKH RIYAAN AKEELAHMED | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 9 |
| 176 | SHARMA RAJ BABLU | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 10 | 10 | 8 |
| 177 | SHAW PRALAYANKAR SHEOPRASAD | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 7 | 10 |
| 178 | SHETTIGAR TEJAS SATHISH | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 7 |
| 179 | SHETTY PRANISH HARISH | 10 | 10 | 10 | 10 | 10 | 10 | 6 | 6 | 6 | 7 |
| 180 | SINGH ANTARIKSH ARJUN | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 9 | 6 | 8 |
| 181 | SINGH ARYAN SURYAPRAKASH | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 6 | 7 | 8 |
| 182 | SINGH RISHU MANOJ | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 7 | 8 |
| 183 | SINGH SHUBHANSHU ARVIND KUMAR | 10 | 7 | 8 | 10 | 8 | 10 | 9 | 7 | 8 | 9 |
| 184 | SONDIGALA HARSH RAJUBHAI | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 8 | 8 | 9 |
| 185 | TALEKAR JAY CHANDRASEN | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 8 |
| 186 | TALIKOTE SANSKARDEEP BALAJI | 7 | 10 | 8 | 10 | 8 | 10 | 8 | 7 | 7 | 8 |
| 187 | TAYADE SOHAM RAJENDRA | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 7 | 8 |
| 188 | THAKUR SANIKA AVINASH | 8 | 10 | 8 | 10 | 10 | 10 | 8 | 7 | 8 | 8 |
| 189 | THAKUR URVI VIVEK | 7 | 10 | 7 | 10 | 7 | 6 | 8 | 7 | 7 | 8 |
| 190 | THOSAR SHLOK ABHIJIT | 6 | 6 | 6 | 6 | 6 | 6 | 8 | 7 | 8 | 10 |
| 191 | TIWARI CHANDAN VIJAY | 8 | 10 | 7 | 10 | 7 | 10 | 9 | 9 | 9 | 7 |
| 192 | TIWARI MAHEK TRIPURARI | 10 | 8 | 10 | 7 | 10 | 7 | 9 | 9 | 9 | 9 |
| 193 | VAIDYA PARTH NILESH | 7 | 8 | 10 | 8 | 10 | 9 | 7 | 8 | 7 | 9 |
| 194 | VAITY RUGVED NILESH | 10 | 7 | 10 | 8 | 10 | 9 | 8 | 8 | 9 | 8 |
| 195 | VANARASE PARAS KAMLESH | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 9 | 9 |
| 196 | VARAK PRAFUL BABYA | 9 | 10 | 8 | 10 | 7 | 10 | 9 | 8 | 7 | 8 |
| 197 | VARIA NAMAN VIMAL | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 8 | 8 | 9 |
| 198 | VAZE NEHALI NITIN | 7 | 10 | 7 | 10 | 10 | 8 | 10 | 10 | 10 | 9 |
| 199 | VICHARE KAVYA MAHESH | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 8 | 8 | 6 |
| 200 | VISHWAKARMA SUMIT KANHAIYALAL | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 9 | 9 | 6 |
| 201 | WAKPAIJAN SANIA PRASHANT | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 |
| 202 | YADAV DEEPAKKUMAR AWADHRAJ | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 7 | 8 | 9 |
| 203 | YADAV KRISHNA ANIL | 10 | 10 | 10 | 10 | 10 | 10 | 8 | 10 | 8 | 9 |
| 204 | YADAV PRITI RAJU | 7 | 8 | 10 | 8 | 10 | 7 | 7 | 8 | 10 | 8 |
|  |  |  |  |  |  |  |  |  |  |  |  |

**Summary**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | |  |  |  |  |  |  |  |  |
|  | **Total No. of Students** | 202 |  |  |  |  |  |  |  |  |  |
|  | **Total Present** | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 204 |
|  | **Qualifier Level (%)** | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
|  | **Total Marks** | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |  |
|  | **Qualifier Level in terms of marks** | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 0 |
|  | **No. of Students above Qualifier Level** | 194 | 184 | 188 | 187 | 185 | 188 | 186 | 185 | 177 | 204 |
|  | **% No. of Students above Qualifier Level** | 95.10 | 90.20 | 92.16 | 91.67 | 90.69 | 92.16 | 91.18 | 90.69 | 86.76 | 100.00 |
|  | **Attainment level** | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 204 | 204 |

|  |  |  |
| --- | --- | --- |
| **End Semester Evaluation (University Exam Marks)** | | |
| **Roll No** | **Name of the student** | **University Exam Marks** |
|
|
| 1 | ABHIJEET HALDAR | 26 |
| 2 | ABHISHEK YOGESH JAMBHALE | 25 |
| 3 | ADITYA SUNIL KUMBHAR | 24 |
| 4 | AMBADE DIXIT NAMDEO | 18 |
| 5 | AMBAVALE ADITI ARVIND | 27 |
| 6 | AMRITA MOHAN | 43 |
| 7 | ANJARLEKAR PRATHMESH HARISHCHANDRA | 20 |
| 8 | ANUJA SUBASH | 25 |
| 9 | BADGUJAR PRANJAL CHANDRASHEKHAR | 29 |
| 10 | BADHE TANVI NAMDEO | 18 |
| 11 | BANDEKAR PARTH SUDHAKAR | 19 |
| 12 | BARHATE KOMAL PANKAJ | 26 |
| 13 | BHAGIRATH NILAKSHI MANOHAR | 18 |
| 14 | BHANDAKKAR AJINKYA BHARAT | 18 |
| 15 | BHANDARY PRAJWALA VIJAY | 19 |
| 16 | BHATI MANISH SURESH | 23 |
| 17 | BHAVSAR MAITRI CHANDRAKANT | 19 |
| 18 | BHAVSAR NAMAN ATULKUMAR | 19 |
| 19 | BHIRUD YASH MINESH | 19 |
| 20 | BHORI RIDDHI ANIL | 20 |
| 21 | BHUYAL CHETAN NARESH | 19 |
| 22 | BODKE OMKAR PANDHARINATH | 18 |
| 23 | CHANDALIYA PRIYANSH PARAMVEER | 18 |
| 24 | CHATTERJEE ANIK TARUN | 23 |
| 25 | CHAUDHARI AAYUSHI BHUPENDRA | 30 |
| 26 | CHAUDHARI ADITYA VIJAY | 26 |
| 27 | CHAUDHARY UMAIR AHMAD MOHD HUSSAIN | 20 |
| 28 | CHAUHAN ALOK AWADHESH | 27 |
| 29 | CHAUHAN HARSHIT SHANKARLAL | 29 |
| 30 | CHAUHAN MONI RAJKUMAR | 25 |
| 31 | CHAVAN ARYAN KAMALAKAR | 18 |
| 32 | CHINCHOLE SHRIKANT JALBA | 18 |
| 33 | CHORGHE VIDHI AJAY | 31 |
| 34 | CHOUDHARY SONAL BHANARAM | 30 |
| 35 | DALVI MANISH SUNIL | 22 |
| 36 | DAWANE RUTUJA PREMDAS | 41 |
| 37 | DESALE SUHANI SUHAS | 30 |
| 38 | DHUMAL ALISHA AMAR | 18 |
| 39 | GALANDE TEJAS POPAT | 18 |
| 40 | GAONKAR PURVA PANDURANG | 19 |
| 41 | GARJE TUSHAR SUNIL | 24 |
| 42 | GAWADE GAYATRI RAMKRISHNA | 31 |
| 43 | GHARAT PIYUSH BHARAT | 10 |
| 44 | GHUGARE AYUSH MARUTI | 18 |
| 45 | GHUGE ATIKSH SANDEEP | 18 |
| 46 | GOHIL JAINEEL MAHESH | 21 |
| 47 | GULBHILE MADHURI MAHADEV | 22 |
| 48 | GUPTA AARYA OMPRAKASH | 24 |
| 49 | GUPTA AMISHA SUNIL | 28 |
| 50 | GUPTA RAJ RAMPYARE | 26 |
| 51 | HARDULE PRANAY DILIRAM | 15 |
| 52 | HARIJAN AKLESH KAMLESH | 23 |
| 53 | HONSHETTE SAMBHAJI SHIVANAND | 13 |
| 54 | JABAR TANMAY ANKUSH | 11 |
| 55 | JADHAV ATHARVA PRASHANT | 19 |
| 56 | JADHAV SANSKAR MAHESH | 18 |
| 57 | JAGTAP SAMYAK SANDEEP | 19 |
| 58 | JAI DNYANESHWAR KALE | 22 |
| 59 | JAIN JAINAM DEEPAK | 23 |
| 60 | JALGAONKAR AAKANSHA PRADEEP | 12 |
| 61 | JAMDADE SAIRAJ SURESH | 18 |
| 62 | JOSHI KRISHNA CHETAN | 15 |
| 63 | KADAM MANSI SURESH | 25 |
| 64 | KADAM PRATIKA GANESH | 22 |
| 65 | KADUKAR SIDDHESH SURAJ | 26 |
| 66 | KAJOLI SHUBHAM GURUDAS | 21 |
| 67 | KAKADE HARSH VINAY | 18 |
| 68 | KAMBLE ANSH SURESH | 22 |
| 69 | KAMBLE HARSH DEEPAK | 27 |
| 70 | KAMBLE PRABODH BALAJI | 25 |
| 71 | KAMBLE RUSHIKESH RAVINDRA | 25 |
| 72 | KAMBLE SRUSHTI AKASH | 19 |
| 73 | KAPSE TANMAY SANTOSH | 25 |
| 74 | KARALKAR DIPESH MAHESH | 22 |
| 75 | KATE ARYAN NITIN | 18 |
| 76 | KEVADIYA MEET NARSHIBHAI | 18 |
| 77 | KHAN MOHD TAHA MOHD ZUBER | 22 |
| 78 | KHAN PARVEZ LUKMAN GANI | 11 |
| 79 | KHANOLKAR ROHIT KOMAL | 32 |
| 80 | KONDUSKAR SANSKRUTI DASHRATH | 22 |
| 81 | KORDE SANKET VITHOBA | 19 |
| 82 | KULKARNI DIVIT ASHISH | 18 |
| 83 | KUMARE VED RAVINDRA | 25 |
| 84 | KURMI ARYAN SUBHASH | 30 |
| 85 | KUSHWAHA PRATIKSHA ANIL | 21 |
| 86 | KUTE YASH DASHRATH | 18 |
| 87 | KUVAR ARYAN PRAFULLA | 11 |
| 88 | LAD MADHURA PRASHIL | 28 |
| 89 | LOHAR SRUSHTI KIRAN | 18 |
| 90 | LOKARE SWAYAM MANGESH | 19 |
| 91 | MAHADIK AAYUSH BHAGWAN | 27 |
| 92 | MAHADIK MALATI SANTOSH | 32 |
| 93 | MAHAJAN NIHARIKA MUKUNDA | 24 |
| 94 | MAHALE UDAY RAMAN | 18 |
| 95 | MAKWANA YASH PIYUSH | 20 |
| 96 | MALAVADE TANISH SANDEEP | 11 |
| 97 | MANE ASAWARI ANIL | 30 |
| 98 | MANE DEEPAK VISHWAS | 27 |
| 99 | MANUSHREE MISTY | 26 |
| 100 | MEHTA MEET HITESH | 24 |
| 101 | MESTA MANTHAN HARESH | 24 |
| 102 | MHASKAR VEDANT VISHNU | 3 |
| 103 | MISHRA SHWETA ARVIND | 32 |
| 104 | MOHAMMAD SHUJA SYED ZIYARAT HUSAIN | 18 |
| 105 | MOHITE ANUSHKA VIKAS | 25 |
| 106 | MORE SANJANA SHIVAJI | 24 |
| 107 | MORE SHUBHAM DEEPAK | 18 |
| 108 | NAGRE PRATHMESH UTTAM | 21 |
| 109 | NAIK BHARGAV SUNIL | 24 |
| 110 | NAIK MANTHAN ARVIND | 28 |
| 111 | NAIK MEET NINAD | 18 |
| 112 | NAIK VEDANT SANDEEP | 28 |
| 113 | NALANG PARTH RAMCHANDRA | 25 |
| 114 | NANDI MANNAT AMOL | 35 |
| 115 | NARE ADITYA MUKESH | 18 |
| 116 | NIKUMBHE CHINMAY RAJU | 29 |
| 117 | NIVATE HARSHAL NARAYAN | 26 |
| 118 | PALIWAL PARTH JEETENDRA | 18 |
| 119 | PANCHAL PREM LAXMIKUMAR | 24 |
| 120 | PANDEY KARAN SANJAY | 28 |
| 121 | PANERIA VIHAAN MANOJ | 19 |
| 122 | PANVALKAR VALLARI RAVIKIRAN | 27 |
| 123 | PARAB SANIYA LAXMAN | 33 |
| 124 | PASWAN ANKIT SHANKAR | 18 |
| 125 | PATADIA OM RUPAL | 23 |
| 126 | PATEL ASHISH RAMESH | 13 |
| 127 | PATEL HETVI PIYUSH | 23 |
| 128 | PATEL MOKSH DAXESH | 24 |
| 129 | PATEL YASHIKA SUNIL | 15 |
| 130 | PATIL AAKANSHA ANKUSH | 28 |
| 131 | PATIL DHANASHREE LILADHAR | 32 |
| 132 | PATIL JAY VIJAY | 7 |
| 133 | PATIL KARAN PANKAJ | 13 |
| 134 | PATIL KHUSHAL SANTOSH | 33 |
| 135 | PETHKAR OM | 24 |
| 136 | BHASKER SANIL YASH | 13 |
| 137 | DEDHIA YASH | 23 |
| 138 | DESAI GAURI SANTOSH | 27 |
| 139 | KANOJIYA OM SURYABHAN | 27 |
| 140 | KARPE SAHIL VIKAS | 36 |
| 141 | LAKHANI PARV SANJAY KUMAR | 30 |
| 142 | MORE SWANIK NILESH | 6 |
| 143 | PATIL LUV ASHOK | 7 |
| 144 | PATIL MANASVI RATNAKAR | 11 |
| 145 | PATIL PRANJAL MAHENDRA | 8 |
| 146 | PATIL SANDHVI KANTI | 20 |
| 147 | PATIL SHWETA ASHOK | 24 |
| 148 | PATIL SUPRIYA SANTOSH | 19 |
| 149 | PATIL SWARAJ RAJENDRA | 19 |
| 150 | PAWAR SHUBHAM SUNIL | 13 |
| 151 | PAWAR SWARAJ RAJENDRA | 18 |
| 152 | PENDHARKAR YASH DEEPAK | 20 |
| 153 | PINJARI REHAN LATIF | 19 |
| 154 | POOJARY SINCHANA GOPAL | 27 |
| 155 | PRAJAPATI SUMIT PRATAP | 21 |
| 156 | RAJAK AADITYA RAVI | 23 |
| 157 | RANE SAHIL SURESH | 34 |
| 158 | RATHOD RAHUL BALIRAM | 27 |
| 159 | RATNE ROHAN GANESH | 22 |
| 160 | RAUT ALISHA SHEKHAR | 24 |
| 161 | RAUT MAYANK ANKUSH | 18 |
| 162 | RAUT RUDRA RAKESH | 18 |
| 163 | RAUT SOHAM KIRTIKUMAR | 21 |
| 164 | RAVALE PRATIK RANGNATH | 24 |
| 165 | SALGAONKAR DAKSHATA CHANDRAKANT | 28 |
| 166 | SALUNKHE SANSKAR VIRENDRA | 28 |
| 167 | SAWANT ESHA MAHESH | 18 |
| 168 | SAWANT MAITHILI NILESH | 37 |
| 169 | SAWANT RISHIKESH KISHOR | 15 |
| 170 | SAWANT SAMAR SANTOSH | 23 |
| 171 | SAWANT SHREYA AMIT | 33 |
| 172 | SAWANT SUMRITA SUKHADEO | 18 |
| 173 | SENTA VISHAL VIJAYBHAI | 25 |
| 174 | SHAH AAYUSH RAJKUMAR | 28 |
| 175 | SHAIKH RIYAAN AKEELAHMED | 18 |
| 176 | SHARMA RAJ BABLU | 37 |
| 177 | SHAW PRALAYANKAR SHEOPRASAD | 15 |
| 178 | SHETTIGAR TEJAS SATHISH | 25 |
| 179 | SHETTY PRANISH HARISH | 18 |
| 180 | SINGH ANTARIKSH ARJUN | 37 |
| 181 | SINGH ARYAN SURYAPRAKASH | 19 |
| 182 | SINGH RISHU MANOJ | 28 |
| 183 | SINGH SHUBHANSHU ARVIND KUMAR | 24 |
| 184 | SONDIGALA HARSH RAJUBHAI | 30 |
| 185 | TALEKAR JAY CHANDRASEN | 26 |
| 186 | TALIKOTE SANSKARDEEP BALAJI | 13 |
| 187 | TAYADE SOHAM RAJENDRA | 27 |
| 188 | THAKUR SANIKA AVINASH | 33 |
| 189 | THAKUR URVI VIVEK | 18 |
| 190 | THOSAR SHLOK ABHIJIT | 18 |
| 191 | TIWARI CHANDAN VIJAY | 23 |
| 192 | TIWARI MAHEK TRIPURARI | 19 |
| 193 | VAIDYA PARTH NILESH | 28 |
| 194 | VAITY RUGVED NILESH | 18 |
| 195 | VANARASE PARAS KAMLESH | 39 |
| 196 | VARAK PRAFUL BABYA | 25 |
| 197 | VARIA NAMAN VIMAL | 25 |
| 198 | VAZE NEHALI NITIN | 19 |
| 199 | VICHARE KAVYA MAHESH | 30 |
| 200 | VISHWAKARMA SUMIT KANHAIYALAL | 27 |
| 201 | WAKPAIJAN SANIA PRASHANT | 34 |
| 202 | YADAV DEEPAKKUMAR AWADHRAJ | 26 |
| 203 | YADAV KRISHNA ANIL | 9 |
| 204 | YADAV PRITI RAJU | 20 |
|  | **Summary** |  |
|  |  |  |
|  | Total No. of Students | 204 |
|  | Total Present | 204 |
|  | Qualifier Level (%) | 54 |
|  | Total Marks | 45 |
|  | Qualifier Level in terms of marks | 24.3 |
|  | No. of Students above Qualifier Level | 77 |
|  | % No. of Students above Qualifier Level | 37.75 |
|  | Attainment level | 1.0 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **End Semester Evaluation (Course Exit Survey)** | | | | | | | |
| **Roll No** | **Name of the student** | **(Theory Course Exit Survey)** | | | | | |
| **BSC102.1** | **BSC102.2** | **BSC102.3** | **BSC102.4** | **BSC102.5** | **BSC102.6** |
| 1 | ABHIJEET HALDAR | 5 | 5 | 5 | 5 | 5 | 4 |
| 2 | ABHISHEK YOGESH JAMBHALE | 5 | 4 | 4 | 5 | 5 | 5 |
| 3 | ADITYA SUNIL KUMBHAR | 5 | 5 | 4 | 5 | 5 | 5 |
| 4 | AMBADE DIXIT NAMDEO | 5 | 4 | 4 | 5 | 5 | 5 |
| 5 | AMBAVALE ADITI ARVIND | 5 | 5 | 5 | 5 | 4 | 4 |
| 6 | AMRITA MOHAN | 5 | 5 | 5 | 5 | 5 | 5 |
| 7 | ANJARLEKAR PRATHMESH HARISHCHANDRA | 5 | 4 | 5 | 5 | 5 | 5 |
| 8 | ANUJA SUBASH | 3 | 5 | 5 | 4 | 5 | 3 |
| 9 | BADGUJAR PRANJAL CHANDRASHEKHAR | 4 | 4 | 3 | 4 | 3 | 3 |
| 10 | BADHE TANVI NAMDEO | 5 | 5 | 5 | 4 | 5 | 5 |
| 11 | BANDEKAR PARTH SUDHAKAR | 3 | 5 | 5 | 5 | 4 | 4 |
| 12 | BARHATE KOMAL PANKAJ | 5 | 5 | 5 | 3 | 5 | 5 |
| 13 | BHAGIRATH NILAKSHI MANOHAR | 5 | 4 | 3 | 5 | 5 | 3 |
| 14 | BHANDAKKAR AJINKYA BHARAT | 4 | 5 | 5 | 4 | 4 | 5 |
| 15 | BHANDARY PRAJWALA VIJAY | 4 | 4 | 5 | 5 | 5 | 5 |
| 16 | BHATI MANISH SURESH | 5 | 5 | 5 | 4 | 4 | 5 |
| 17 | BHAVSAR MAITRI CHANDRAKANT | 3 | 5 | 5 | 5 | 3 | 5 |
| 18 | BHAVSAR NAMAN ATULKUMAR | 5 | 5 | 5 | 4 | 5 | 5 |
| 19 | BHIRUD YASH MINESH | 5 | 5 | 5 | 4 | 5 | 5 |
| 20 | BHORI RIDDHI ANIL | 5 | 5 | 4 | 5 | 5 | 5 |
| 21 | BHUYAL CHETAN NARESH | 4 | 5 | 5 | 5 | 5 | 5 |
| 22 | BODKE OMKAR PANDHARINATH | 5 | 4 | 5 | 5 | 5 | 5 |
| 23 | CHANDALIYA PRIYANSH PARAMVEER | 5 | 5 | 5 | 5 | 5 | 5 |
| 24 | CHATTERJEE ANIK TARUN | 5 | 5 | 4 | 5 | 5 | 3 |
| 25 | CHAUDHARI AAYUSHI BHUPENDRA | 5 | 5 | 5 | 4 | 5 | 4 |
| 26 | CHAUDHARI ADITYA VIJAY | 5 | 4 | 5 | 5 | 5 | 5 |
| 27 | CHAUDHARY UMAIR AHMAD MOHD HUSSAIN | 5 | 5 | 4 | 5 | 5 | 5 |
| 28 | CHAUHAN ALOK AWADHESH | 3 | 4 | 5 | 5 | 5 | 4 |
| 29 | CHAUHAN HARSHIT SHANKARLAL | 5 | 5 | 5 | 5 | 3 | 4 |
| 30 | CHAUHAN MONI RAJKUMAR | 5 | 3 | 5 | 5 | 5 | 5 |
| 31 | CHAVAN ARYAN KAMALAKAR | 5 | 5 | 5 | 3 | 4 | 5 |
| 32 | CHINCHOLE SHRIKANT JALBA | 3 | 5 | 5 | 3 | 5 | 5 |
| 33 | CHORGHE VIDHI AJAY | 5 | 4 | 5 | 3 | 5 | 5 |
| 34 | CHOUDHARY SONAL BHANARAM | 4 | 5 | 5 | 5 | 5 | 5 |
| 35 | DALVI MANISH SUNIL | 5 | 5 | 5 | 5 | 3 | 5 |
| 36 | DAWANE RUTUJA PREMDAS | 5 | 4 | 5 | 5 | 5 | 5 |
| 37 | DESALE SUHANI SUHAS | 5 | 4 | 5 | 5 | 5 | 5 |
| 38 | DHUMAL ALISHA AMAR | 3 | 4 | 5 | 5 | 5 | 4 |
| 39 | GALANDE TEJAS POPAT | 5 | 5 | 5 | 5 | 3 | 4 |
| 40 | GAONKAR PURVA PANDURANG | 5 | 5 | 5 | 4 | 5 | 5 |
| 41 | GARJE TUSHAR SUNIL | 4 | 5 | 5 | 5 | 3 | 5 |
| 42 | GAWADE GAYATRI RAMKRISHNA | 4 | 5 | 5 | 5 | 5 | 5 |
| 43 | GHARAT PIYUSH BHARAT | 4 | 5 | 3 | 5 | 5 | 5 |
| 44 | GHUGARE AYUSH MARUTI | 5 | 4 | 5 | 5 | 4 | 4 |
| 45 | GHUGE ATIKSH SANDEEP | 3 | 3 | 5 | 3 | 3 | 5 |
| 46 | GOHIL JAINEEL MAHESH | 5 | 4 | 4 | 5 | 5 | 3 |
| 47 | GULBHILE MADHURI MAHADEV | 5 | 5 | 5 | 5 | 5 | 5 |
| 48 | GUPTA AARYA OMPRAKASH | 5 | 4 | 5 | 5 | 5 | 5 |
| 49 | GUPTA AMISHA SUNIL | 5 | 4 | 5 | 5 | 3 | 5 |
| 50 | GUPTA RAJ RAMPYARE | 5 | 4 | 4 | 5 | 3 | 5 |
| 51 | HARDULE PRANAY DILIRAM | 4 | 5 | 5 | 3 | 5 | 4 |
| 52 | HARIJAN AKLESH KAMLESH | 4 | 5 | 4 | 5 | 5 | 5 |
| 53 | HONSHETTE SAMBHAJI SHIVANAND | 5 | 5 | 5 | 5 | 4 | 4 |
| 54 | JABAR TANMAY ANKUSH | 4 | 5 | 5 | 5 | 4 | 3 |
| 55 | JADHAV ATHARVA PRASHANT | 5 | 5 | 5 | 5 | 5 | 5 |
| 56 | JADHAV SANSKAR MAHESH | 5 | 5 | 5 | 5 | 5 | 5 |
| 57 | JAGTAP SAMYAK SANDEEP | 4 | 5 | 5 | 4 | 5 | 5 |
| 58 | JAI DNYANESHWAR KALE | 5 | 5 | 5 | 5 | 4 | 5 |
| 59 | JAIN JAINAM DEEPAK | 4 | 3 | 4 | 4 | 5 | 5 |
| 60 | JALGAONKAR AAKANSHA PRADEEP | 5 | 5 | 5 | 3 | 4 | 5 |
| 61 | JAMDADE SAIRAJ SURESH | 4 | 3 | 5 | 5 | 5 | 5 |
| 62 | JOSHI KRISHNA CHETAN | 4 | 5 | 4 | 5 | 5 | 5 |
| 63 | KADAM MANSI SURESH | 5 | 4 | 5 | 5 | 5 | 5 |
| 64 | KADAM PRATIKA GANESH | 5 | 5 | 4 | 5 | 4 | 5 |
| 65 | KADUKAR SIDDHESH SURAJ | 5 | 5 | 4 | 3 | 5 | 3 |
| 66 | KAJOLI SHUBHAM GURUDAS | 4 | 5 | 5 | 5 | 3 | 5 |
| 67 | KAKADE HARSH VINAY | 5 | 5 | 4 | 5 | 5 | 5 |
| 68 | KAMBLE ANSH SURESH | 3 | 5 | 5 | 4 | 5 | 5 |
| 69 | KAMBLE HARSH DEEPAK | 5 | 5 | 5 | 4 | 5 | 4 |
| 70 | KAMBLE PRABODH BALAJI | 5 | 5 | 5 | 5 | 5 | 5 |
| 71 | KAMBLE RUSHIKESH RAVINDRA | 5 | 5 | 5 | 5 | 5 | 4 |
| 72 | KAMBLE SRUSHTI AKASH | 5 | 5 | 5 | 4 | 4 | 4 |
| 73 | KAPSE TANMAY SANTOSH | 5 | 5 | 5 | 5 | 5 | 5 |
| 74 | KARALKAR DIPESH MAHESH | 5 | 5 | 5 | 4 | 5 | 5 |
| 75 | KATE ARYAN NITIN | 5 | 5 | 4 | 3 | 5 | 5 |
| 76 | KEVADIYA MEET NARSHIBHAI | 5 | 4 | 5 | 5 | 5 | 4 |
| 77 | KHAN MOHD TAHA MOHD ZUBER | 5 | 4 | 5 | 5 | 5 | 5 |
| 78 | KHAN PARVEZ LUKMAN GANI | 5 | 5 | 4 | 4 | 4 | 5 |
| 79 | KHANOLKAR ROHIT KOMAL | 3 | 5 | 5 | 5 | 5 | 3 |
| 80 | KONDUSKAR SANSKRUTI DASHRATH | 5 | 5 | 3 | 5 | 5 | 5 |
| 81 | KORDE SANKET VITHOBA | 5 | 5 | 5 | 4 | 4 | 4 |
| 82 | KULKARNI DIVIT ASHISH | 5 | 5 | 4 | 5 | 4 | 5 |
| 83 | KUMARE VED RAVINDRA | 4 | 5 | 5 | 5 | 5 | 5 |
| 84 | KURMI ARYAN SUBHASH | 5 | 4 | 5 | 5 | 5 | 5 |
| 85 | KUSHWAHA PRATIKSHA ANIL | 4 | 5 | 3 | 5 | 5 | 5 |
| 86 | KUTE YASH DASHRATH | 4 | 3 | 5 | 5 | 5 | 3 |
| 87 | KUVAR ARYAN PRAFULLA | 5 | 5 | 5 | 4 | 4 | 5 |
| 88 | LAD MADHURA PRASHIL | 5 | 5 | 5 | 4 | 5 | 5 |
| 89 | LOHAR SRUSHTI KIRAN | 5 | 4 | 5 | 3 | 4 | 5 |
| 90 | LOKARE SWAYAM MANGESH | 5 | 5 | 5 | 5 | 5 | 5 |
| 91 | MAHADIK AAYUSH BHAGWAN | 5 | 5 | 5 | 5 | 5 | 5 |
| 92 | MAHADIK MALATI SANTOSH | 5 | 5 | 5 | 5 | 5 | 4 |
| 93 | MAHAJAN NIHARIKA MUKUNDA | 5 | 4 | 3 | 4 | 4 | 5 |
| 94 | MAHALE UDAY RAMAN | 4 | 5 | 4 | 5 | 5 | 5 |
| 95 | MAKWANA YASH PIYUSH | 5 | 5 | 5 | 5 | 5 | 5 |
| 96 | MALAVADE TANISH SANDEEP | 5 | 5 | 5 | 4 | 5 | 5 |
| 97 | MANE ASAWARI ANIL | 3 | 4 | 5 | 5 | 5 | 5 |
| 98 | MANE DEEPAK VISHWAS | 5 | 5 | 4 | 5 | 3 | 5 |
| 99 | MANUSHREE MISTY | 5 | 5 | 5 | 5 | 4 | 5 |
| 100 | MEHTA MEET HITESH | 5 | 5 | 3 | 3 | 5 | 5 |
| 101 | MESTA MANTHAN HARESH | 5 | 3 | 5 | 5 | 4 | 5 |
| 102 | MHASKAR VEDANT VISHNU | 4 | 4 | 3 | 5 | 5 | 5 |
| 103 | MISHRA SHWETA ARVIND | 5 | 5 | 5 | 5 | 4 | 5 |
| 104 | MOHAMMAD SHUJA SYED ZIYARAT HUSAIN | 5 | 5 | 5 | 4 | 5 | 5 |
| 105 | MOHITE ANUSHKA VIKAS | 5 | 5 | 5 | 5 | 5 | 3 |
| 106 | MORE SANJANA SHIVAJI | 5 | 5 | 5 | 3 | 5 | 5 |
| 107 | MORE SHUBHAM DEEPAK | 5 | 5 | 5 | 4 | 4 | 5 |
| 108 | NAGRE PRATHMESH UTTAM | 5 | 5 | 4 | 5 | 3 | 5 |
| 109 | NAIK BHARGAV SUNIL | 5 | 5 | 4 | 4 | 4 | 5 |
| 110 | NAIK MANTHAN ARVIND | 5 | 5 | 5 | 5 | 5 | 5 |
| 111 | NAIK MEET NINAD | 5 | 5 | 3 | 4 | 5 | 3 |
| 112 | NAIK VEDANT SANDEEP | 5 | 5 | 5 | 3 | 4 | 4 |
| 113 | NALANG PARTH RAMCHANDRA | 5 | 5 | 5 | 4 | 5 | 5 |
| 114 | NANDI MANNAT AMOL | 5 | 5 | 5 | 4 | 4 | 5 |
| 115 | NARE ADITYA MUKESH | 5 | 5 | 5 | 5 | 4 | 5 |
| 116 | NIKUMBHE CHINMAY RAJU | 5 | 5 | 3 | 5 | 5 | 5 |
| 117 | NIVATE HARSHAL NARAYAN | 4 | 3 | 5 | 5 | 4 | 5 |
| 118 | PALIWAL PARTH JEETENDRA | 3 | 5 | 5 | 3 | 5 | 5 |
| 119 | PANCHAL PREM LAXMIKUMAR | 4 | 5 | 4 | 5 | 5 | 5 |
| 120 | PANDEY KARAN SANJAY | 5 | 5 | 5 | 5 | 4 | 4 |
| 121 | PANERIA VIHAAN MANOJ | 5 | 4 | 5 | 5 | 5 | 5 |
| 122 | PANVALKAR VALLARI RAVIKIRAN | 5 | 4 | 4 | 5 | 5 | 4 |
| 123 | PARAB SANIYA LAXMAN | 5 | 5 | 5 | 5 | 5 | 4 |
| 124 | PASWAN ANKIT SHANKAR | 5 | 4 | 5 | 5 | 5 | 5 |
| 125 | PATADIA OM RUPAL | 4 | 3 | 4 | 3 | 4 | 3 |
| 126 | PATEL ASHISH RAMESH | 5 | 5 | 5 | 5 | 3 | 4 |
| 127 | PATEL HETVI PIYUSH | 5 | 5 | 3 | 4 | 5 | 4 |
| 128 | PATEL MOKSH DAXESH | 5 | 5 | 5 | 5 | 4 | 5 |
| 129 | PATEL YASHIKA SUNIL | 4 | 5 | 5 | 5 | 5 | 5 |
| 130 | PATIL AAKANSHA ANKUSH | 5 | 5 | 5 | 5 | 5 | 5 |
| 131 | PATIL DHANASHREE LILADHAR | 5 | 4 | 5 | 4 | 5 | 5 |
| 132 | PATIL JAY VIJAY | 5 | 5 | 5 | 5 | 4 | 5 |
| 133 | PATIL KARAN PANKAJ | 5 | 4 | 5 | 5 | 3 | 5 |
| 134 | PATIL KHUSHAL SANTOSH | 4 | 5 | 3 | 5 | 5 | 5 |
| 135 | PETHKAR OM | 5 | 5 | 4 | 3 | 5 | 4 |
| 136 | BHASKER SANIL YASH | 3 | 5 | 5 | 5 | 5 | 4 |
| 137 | DEDHIA YASH | 5 | 4 | 5 | 5 | 5 | 5 |
| 138 | DESAI GAURI SANTOSH | 5 | 5 | 5 | 5 | 5 | 5 |
| 139 | KANOJIYA OM SURYABHAN | 5 | 4 | 5 | 5 | 5 | 5 |
| 140 | KARPE SAHIL VIKAS | 4 | 5 | 5 | 5 | 4 | 4 |
| 141 | LAKHANI PARV SANJAY KUMAR | 5 | 5 | 3 | 5 | 5 | 5 |
| 142 | MORE SWANIK NILESH | 3 | 5 | 5 | 5 | 5 | 5 |
| 143 | PATIL LUV ASHOK | 4 | 4 | 5 | 4 | 5 | 3 |
| 144 | PATIL MANASVI RATNAKAR | 5 | 3 | 5 | 4 | 3 | 3 |
| 145 | PATIL PRANJAL MAHENDRA | 4 | 4 | 5 | 4 | 5 | 5 |
| 146 | PATIL SANDHVI KANTI | 5 | 5 | 5 | 5 | 4 | 4 |
| 147 | PATIL SHWETA ASHOK | 4 | 5 | 3 | 3 | 5 | 5 |
| 148 | PATIL SUPRIYA SANTOSH | 3 | 4 | 4 | 5 | 5 | 3 |
| 149 | PATIL SWARAJ RAJENDRA | 4 | 5 | 5 | 4 | 4 | 5 |
| 150 | PAWAR SHUBHAM SUNIL | 4 | 4 | 5 | 5 | 5 | 5 |
| 151 | PAWAR SWARAJ RAJENDRA | 5 | 4 | 5 | 4 | 4 | 5 |
| 152 | PENDHARKAR YASH DEEPAK | 5 | 5 | 5 | 5 | 3 | 5 |
| 153 | PINJARI REHAN LATIF | 5 | 4 | 5 | 4 | 5 | 5 |
| 154 | POOJARY SINCHANA GOPAL | 3 | 5 | 5 | 4 | 5 | 5 |
| 155 | PRAJAPATI SUMIT PRATAP | 5 | 5 | 5 | 5 | 5 | 5 |
| 156 | RAJAK AADITYA RAVI | 5 | 4 | 4 | 5 | 5 | 5 |
| 157 | RANE SAHIL SURESH | 5 | 5 | 5 | 5 | 5 | 5 |
| 158 | RATHOD RAHUL BALIRAM | 5 | 5 | 4 | 5 | 5 | 5 |
| 159 | RATNE ROHAN GANESH | 5 | 5 | 4 | 5 | 5 | 3 |
| 160 | RAUT ALISHA SHEKHAR | 5 | 5 | 5 | 4 | 5 | 4 |
| 161 | RAUT MAYANK ANKUSH | 3 | 4 | 3 | 5 | 5 | 5 |
| 162 | RAUT RUDRA RAKESH | 5 | 3 | 4 | 5 | 5 | 5 |
| 163 | RAUT SOHAM KIRTIKUMAR | 4 | 5 | 4 | 5 | 5 | 4 |
| 164 | RAVALE PRATIK RANGNATH | 5 | 4 | 5 | 5 | 3 | 4 |
| 165 | SALGAONKAR DAKSHATA CHANDRAKANT | 5 | 5 | 5 | 5 | 5 | 5 |
| 166 | SALUNKHE SANSKAR VIRENDRA | 5 | 5 | 5 | 3 | 4 | 5 |
| 167 | SAWANT ESHA MAHESH | 4 | 5 | 5 | 3 | 5 | 5 |
| 168 | SAWANT MAITHILI NILESH | 5 | 4 | 5 | 3 | 5 | 5 |
| 169 | SAWANT RISHIKESH KISHOR | 5 | 3 | 5 | 5 | 5 | 5 |
| 170 | SAWANT SAMAR SANTOSH | 5 | 5 | 5 | 5 | 3 | 5 |
| 171 | SAWANT SHREYA AMIT | 3 | 5 | 4 | 5 | 5 | 5 |
| 172 | SAWANT SUMRITA SUKHADEO | 3 | 5 | 5 | 5 | 5 | 5 |
| 173 | SENTA VISHAL VIJAYBHAI | 5 | 4 | 5 | 5 | 5 | 4 |
| 174 | SHAH AAYUSH RAJKUMAR | 5 | 5 | 5 | 5 | 3 | 4 |
| 175 | SHAIKH RIYAAN AKEELAHMED | 5 | 4 | 5 | 4 | 5 | 5 |
| 176 | SHARMA RAJ BABLU | 4 | 5 | 5 | 5 | 3 | 5 |
| 177 | SHAW PRALAYANKAR SHEOPRASAD | 5 | 5 | 3 | 5 | 5 | 5 |
| 178 | SHETTIGAR TEJAS SATHISH | 3 | 5 | 5 | 5 | 5 | 5 |
| 179 | SHETTY PRANISH HARISH | 4 | 4 | 5 | 5 | 4 | 4 |
| 180 | SINGH ANTARIKSH ARJUN | 5 | 3 | 5 | 3 | 3 | 5 |
| 181 | SINGH ARYAN SURYAPRAKASH | 4 | 4 | 5 | 5 | 5 | 3 |
| 182 | SINGH RISHU MANOJ | 5 | 5 | 5 | 5 | 5 | 5 |
| 183 | SINGH SHUBHANSHU ARVIND KUMAR | 4 | 5 | 3 | 5 | 5 | 5 |
| 184 | SONDIGALA HARSH RAJUBHAI | 3 | 4 | 4 | 5 | 3 | 5 |
| 185 | TALEKAR JAY CHANDRASEN | 4 | 5 | 5 | 5 | 3 | 5 |
| 186 | TALIKOTE SANSKARDEEP BALAJI | 4 | 4 | 5 | 3 | 5 | 4 |
| 187 | TAYADE SOHAM RAJENDRA | 5 | 4 | 5 | 5 | 5 | 5 |
| 188 | THAKUR SANIKA AVINASH | 5 | 5 | 5 | 5 | 4 | 4 |
| 189 | THAKUR URVI VIVEK | 5 | 4 | 5 | 5 | 4 | 3 |
| 190 | THOSAR SHLOK ABHIJIT | 3 | 5 | 5 | 5 | 5 | 5 |
| 191 | TIWARI CHANDAN VIJAY | 5 | 5 | 5 | 5 | 5 | 5 |
| 192 | TIWARI MAHEK TRIPURARI | 5 | 4 | 4 | 4 | 5 | 5 |
| 193 | VAIDYA PARTH NILESH | 5 | 5 | 5 | 5 | 4 | 5 |
| 194 | VAITY RUGVED NILESH | 5 | 5 | 4 | 4 | 5 | 5 |
| 195 | VANARASE PARAS KAMLESH | 5 | 5 | 4 | 3 | 4 | 5 |
| 196 | VARAK PRAFUL BABYA | 5 | 5 | 5 | 5 | 5 | 5 |
| 197 | VARIA NAMAN VIMAL | 3 | 4 | 3 | 5 | 5 | 5 |
| 198 | VAZE NEHALI NITIN | 5 | 3 | 4 | 5 | 5 | 5 |
| 199 | VICHARE KAVYA MAHESH | 4 | 5 | 4 | 5 | 4 | 5 |
| 200 | VISHWAKARMA SUMIT KANHAIYALAL | 5 | 4 | 5 | 3 | 5 | 3 |
| 201 | WAKPAIJAN SANIA PRASHANT | 5 | 5 | 5 | 5 | 3 | 5 |
| 202 | YADAV DEEPAKKUMAR AWADHRAJ | 5 | 5 | 5 | 5 | 5 | 5 |
| 203 | YADAV KRISHNA ANIL | 4 | 5 | 5 | 4 | 5 | 5 |
| 204 | YADAV PRITI RAJU | 5 | 4 | 5 | 4 | 5 | 4 |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

**Summary**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Total No. of Students** | 204 |  |  |  |  |  |
| **Total Present** | 204 | 204 | 204 | 204 | 204 | 204 |
| **Qualifier Level (%)** | 64 | 64 | 64 | 64 | 64 | 64 |
| **Maximum Level** | 5 | 5 | 5 | 5 | 5 | 5 |
| **Qualifier Level in terms of marks** | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| **No. of Students above Qualifier Level** | 182 | 191 | 186 | 180 | 180 | 185 |
| **% No. of Students above Qualifier Level** | **89.22** | **93.63** | **91.18** | **88.24** | **88.24** | **90.69** |

**Result Analysis**

|  |  |
| --- | --- |
| Number of Students Appeared | 204 |
| Number of Students Passed | 180 |
| Number of Students Failed | 24 |
| Percentage of Result | 88.2% |
| Number of Students with marks ≥ 80% | 7 |
| Number of Students with marks 60 ≤ % < 80 | 47 |
| Number of Students with marks 40 ≤ % < 60 | 126 |

**CO attainment through In-semester and End semester evaluation**

**Attainment through Internal Assessment (X1):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CO** | | BSC102.1 | BSC102.2 | BSC102.3 | BSC102.4 | BSC102.5 | BSC102.6 |
| **Internal Assessment** | **IA1** | 1 | 2 | 1 |  |  |  |
| **IA2** |  |  |  | 1 | 1 | 1 |
| **Quizzes** | **Q1** | 3 |  |  |  |  |  |
| **Q2** |  | 3 |  |  |  |  |
| **Q3** |  |  | 3 |  |  |  |
| **Q4** |  |  |  | 3 |  |  |
| **Q5** |  |  |  |  | 3 |  |
| **Q6** |  |  |  |  |  | 3 |
| **Assignments** | **A1** | 3 |  |  |  |  |  |
| **A3** |  |  | 3 |  |  |  |
| **A4** |  |  |  | 3 |  |  |
| **A5** |  |  |  |  | 3 |  |
|  | **A6** |  |  |  |  |  | 3 |
| **Course Exit Survey** | | 3 | 3 | 3 | 3 | 3 | 3 |
| **Average (X1)** | | **2.50** | **2.67** | **2.5** | **2.5** | **2.5** | **2.33** |

**Attainment through External assessment (X2):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **University Exam (Theory) (45 marks)** | | | | |
| **Qualifier Level (%)** | **Qualifier Level in terms of marks** | **No. of Students above Qualifier Level** | **% No. of Students above Qualifier Level** | **Attainment level** |
|
|
|
| 54 | 24.3 | 77 | 37.75 | 1.00 |

**CO Attainment:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Weightage for End-semester Attainment (W2) = 60%**  **Weightage for In-semester Attainment (W1) = 40%** | | | |
| **CO** | **Average of Internal Attainment (X1)** | **Weighted average of External Attainment (X2)** | **Y = 0.4 X1 + 0.6 X2** |
| BSC102.1 | 2.50 | 1.00 | **1.60** |
| BSC102.2 | 2.67 | 1.00 | **1.67** |
| BSC102.3 | 2.50 | 1.00 | **1.60** |
| BSC102.4 | 2.50 | 1.00 | **1.60** |
| BSC102.5 | 2.50 | 1.00 | **1.60** |
| BSC102.6 | 2.33 | 1.00 | **1.53** |
| **Overall CO attainment of Course** | | | **1.60** |

**Attainment of Course Outcomes**

|  |  |  |  |
| --- | --- | --- | --- |
| **CO** | **Target Set** | **Actual Attainment** | **CO Attainment Achieved (Y or N)** |
| BSC102.1 | 1.80 | 1.60 | N |
| BSC102.2 | 1.80 | 1.67 | N |
| BSC102.3 | 1.80 | 1.60 | N |
| BSC102.4 | 1.80 | 1.60 | N |
| BSC102.5 | 1.80 | 1.60 | N |
| BSC102.6 | 1.80 | 1.53 | N |
| **Overall CO Attainment of the Course** | | | 1.6 |

**Attainment of POs and PSOs:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BSC102 | Program Outcome | | | | | | | | | | | | | |
| PO  1 | PO  2 | PO  3 | PO  4 | P0  5 | PO  6 | PO  7 | PO  8 | PO  9 | PO  10 | PO  11 | PO  12 | PSO  1 | PSO  2 |
| PO/PSO Attainment | 3.00 | 2.00 | 2.00 |  |  |  |  | 2.00 | 2.00 | 2.00 |  | 2.00 |  |  |
| Rounded PO/PSO Attainment | 3 | 2 | 2 |  |  |  |  | 2 | 2 | 2 |  | 2 |  |  |
| Actual PO/PSO Attainment | 1.6 | 1.02 | 0.90 |  |  |  |  | 0.9 | 0.9 | 0.9 |  | 1.11 |  |  |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sign. of Faculty

**Observations and Action Taken**

|  |  |  |
| --- | --- | --- |
| BSC102.1 | Target Level | 1.80 |
| Attainment Level | 1.60 |
| Observations | Students struggle with foundational concepts like atomic excitation/de-excitation and energy level diagrams. |
| Action | Reinforce basics through conceptual teaching and regular practice of energy level diagrams. |
| BSC102.2 | Target Level | 1.80 |
| Attainment Level | 1.67 |
| Observations | Poor grasp of reflection, refraction, and Snell’s law hampers understanding. |
| Action | Emphasize basics with ray diagrams and trigonometric applications through frequent problem-solving. |
| BSC102.3 | Target Level | 1.80 |
| Attainment Level | 1.60 |
| Observations | Weak understanding of light behaviour affects ray diagram construction and numerical solving skill. |
| Action | Revisit fundamental optics laws and solved various numerical problems during lectures. |
| BSC102.4 | Target Level | 1.80 |
| Attainment Level | 1.60 |
| Observations | Inadequate understanding of electricity, magnetism, and vector calculus causes difficulty. |
| Action | Focus on core concepts and integrated vector calculus through guided numerical practice and assignments. |
| BSC102.5 | Target Level | 1.80 |
| Attainment Level | 1.60 |
| Observations | Students struggle with complex functions, differential equations, and modern physics concepts. |
| Action | Strengthen math foundation and modern physics basics through step-by-step problem-solving in class and assignments. |
| BSC102.6 | Target Level | 1.80 |
| Attainment Level | 1.53 |
| Observations | Confusion in semiconductor concepts and unit conversions leads to fundamental errors. |
| Action | Clarify key terms and improved mathematical application through repetitive numerical exercises and quizzes. |

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Signature of Faculty | Signature of HOD |