# JSS COLLEGE FOR WOMEN

## (AUTONOMOUS)

## SARASWATHIPURAM, MYSURU-09

## SUBJECT: PHYSICS

## BACHELOR OF SCIENCE GRADUATE COURSE

## NEW SCHEME SYLLABUS UNDER CBCS

## 2024-25 ONWARDS

# Index

**JSS COLLEGE FOR WOMEN(AUTONOMOUS), SARASWATHIPURAM MYSURU-9**
**DEPARTMENT OF PHYSICS**
**COMPOSITION OF BOARD OF STUDIES**

| Sl. No. | Name | Designation & Position | Category | Address |
|---|---|---|---|---|
| 1 | Smt.Sowmya B. | Assistant Professor & Chairman | AC Nominee | JSS College for Women (Autonomous), Saraswathipuram, Mysuru |
| 2. | Prof.M.S.Chandrashekar | Professor& Member | University (VC Nominee) | DoS in Physics University of Mysuru. |
| 3. | Dr. H.R.Sreepad | Associate Professor& Member | AC Nominee | PG Department of Physics Maharani's Science College, Mysuru |
| 4. | Dr.M.V.Manjunath | Associate Professor& Member | AC Nominee | Maharani's Science College (Autonomous), Mysuru |
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| 8. | Kum.Divya A. | Assistant Professor& Member (Alumni) | AC Nominee | MMS & SDM MahilaVidyalaya,Mysuru |
| 9. | Sri. E. Manivannan | Member (Industrialist) | AC Nominee | Project Assistant and Electrician Mani Electronics and Electricals, Shop o.2,Temple Building, K.T.Street, Mysuru |

# PROCEEDINGS

Proceedings of the of the **Board of Studies in Physics** meeting held on 10th August 2024.

The meeting of Board of Studies in Physics was convened at 11AM on 10th August 2024 in the Department of Physics, JSS College for Women (Autonomous), Saraswathipuram, Mysuru-09

The following members were Present in the meeting

1. Smt.Sowmya B, Assistant Professor, JSS College for Women (Autonomous), Mysuru - Chairman
2. Prof.M S Chandrashekar, Professor, DOS in Physics, Manasagangothri, Mysuru - VC Nominee
3. Dr.H R Sreepad, Professor, PG Dept. of Physics, Maharani's Science College, Mysuru - AC Nominee
4. Dr.M V Manjunath, Retd. Associate Professor, Maharani's Science College, Mysuru - AC Nominee
5. Dr.S R Kumaraswamy, Associate Professor, GFGC, Kabini Colony, T N Pura - AC Nominee
6. Dr.Chandra, Assistant Professor, NIE College, Manathavadi Road, Mysuru- AC Nominee
7. Sri.Umesh V, Assistant Professor, JSS College for Women (Autonomous), Mysuru – senior faculty
8. Kum.Divya A, Assistant Professor, MMS & SDM MahilaVidyalaya, Mysuru.- Alumni

With subject to the Syllabus provided by the University of Mysore, all the members of the Board discussed in length and made a deep analysis on various topics and recommended valuable suggestions to frame the Theory part and Practical part for the **New Scheme** Syllabus under CBCS for B.Sc First and Second semesters for the Academic year 2024 - 2025 and onwards.

The Board of studies approved both theory and practical syllabus for I semester and II semester with minor changes in theory part along with the addition of few experiments in the Practical segments. The Board members also approved the course frame work, examination pattern, department regulations, the panel of examiners and question paper pattern.

**This scheme should be effective from the academic year 2024-2025.**

**The copy of the B.Sc Physics Syllabus of I & II Semesters of NEW SCHEME under CBCS is annexed herewith.**

## Department Regulations

1. **Teaching instruction per week:**

   **For I to II Semester:**

   **"Course duration: 16 weeks with 3 hours of instructions per week."**

   a) Lecture classes: DSC-3 Hrs of duration per week (One Paper).

   b) Practical classes: DSC-4 Hrs of duration per week (One Practical).

2. **Examination:**

   **a) Theory:**

   **C1-** Will be assessed for I & II semester for 10 marks after the completion first halfof the semester by 8th week through test / assignment/ attendance/ seminar/ activity/ projectsin group/ poster presentation (after the completion of 50% of the syllabus).

   **C2-** Will be assessed for I & II semester for 10 marks after the completion second half of the semester by 16th week through test / assignment/ attendance/ seminar/ activity/ projectsin group/ poster presentation (after the completion of rest of 50% of the syllabus).

   **C3-**Examinations for I & II semester are conducted at the end of every semester for THREE hours of duration. The question paper shall be set for a maximum of 80 marks.

   **b) Practical:**

   **C1-** Will be assessed for I & IIsemester for 05 marks after the completion first half of the semester by 8th week through experiment/continuous assessment of experimental work/record completion/procedure writing/viva/ attendance (after the completion of 50% of the experiments).

   **C2-** Will be assessed forI & IIsemester 05 marks after the completion first half of the semester by 16th week through experiment/continuous assessment of experimental work/record completion/procedure writing/viva/ attendance (after the completion of rest of the50% of the experiments).

   **C3-**Examinations for I& IIsemester are conducted at the end of every semester for THREE hours of duration for a maximum of 40 marks. ONE experiment shall be conducted in each practical examination (I & IIsemester).

3. **Eligibility criteria for students :**

   Only the students who have scored minimum 30% in C1 and C2 are eligible to take C3 examination.

4. **Eligibility criteria for teaching faculty:**

   a) Paper setting-the teacher with minimum of 5 years of teaching experience in the first grade college are eligible to set the question paper.

   b) Paper valuation and practical examination – the teacher with minimum of 3 years of experience is eligible to become an examiner and evaluator.

# COURSE STRUCTURE

| Sem | Course | Paper | Title of paper | Instructions per week (Hrs) | Credits | Theory & Practical exams Max marks | | | Sub Total Marks C1+C2+C3 | Grand Total Marks | Exam Duration (Hrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L:T:P | C1 | C2 | C3 | | | |
| I | DSC-1 | Theory | Mechanics and properties of matter | 03 | 3:0:0 | 10 | 10 | 80 | 100 | 150 | 03 |
| | | Practicals | Practical-1 | 04 | 0:0:2 | 05 | 05 | 40 | 50 | | 03 |
| II | DSC-2 | Theory | Heat and Thermodynamics | 03 | 3:0:0 | 10 | 10 | 80 | 100 | 150 | 03 |
| | | Practicals | Practical-2 | 04 | 0:0:2 | 05 | 05 | 40 | 50 | | 03 |

# PREFACE

The syllabus proposed herein for the B.Sc. course in Physics has evolved through detailed discussions with members of Physics faculty in our college as well as many other Physicists and Physics teachers. The changes proposed have constantly kept in mind certain basic approaches in Physics education along with the dynamism resulting from autonomy in education. We are very much aware that Physics forms a major driving force for the present day developments in technology and the consequent socio-economic development of the world at large. The rapid changes in technology and vast variety of the present day technologies put enormous pressure on the practitioners to ensure that their education is extensive as well as intensive. Consequently there is a need for constant upgrading and revision of basic inputs in education at all levels, ensuring a judicial mix of the topics chosen. We have taken the advantage of impetus gained through autonomy, the consequent academic freedom and the possibility of achieving high quality at the institutional level. We are equally aware of the immense responsibility it entails in ensuring a proper match between the products of the education and the professions they might get into restrictions arising primarily from considerations of the available time, manpower and financial resources have also been emphasized during the formulation of the contents. We also believe that there is a vast scope for future improvements and a pressing need for constant up gradation and revision of the contents. We would also urge that the individual teachers feel free to add, delete or modify topics of their choice and provide the relevant feed back to help improve the content formulation.

We thank and gratefully acknowledge the help we have received from all the member of the Physics community and a special thanks to all the members of the Board of Studies.

# Program Outcomes (POs) for Bachelor of Science

**PO 1: Domain Knowledge -** Acquire and apply knowledge of science in relevant areas.

**PO 2: Problem Analysis –** Recognize real-world problems and user's requirements to propose solutions for the same using basic principles of science.

**PO 3: Design and Development of Solutions –** Developing solutions and inferences for complex problems using critical and analytical thinking.

**PO 4: Investigation & Research** – Ability to formulate a hypothesis, augment research questions and identify & refer relevant sources for examining or inspecting technical issues as per their level of understanding and knowledge.

**PO 5: Use of Modern Techniques/Tools** – Use digital resources, various software/ platforms and appropriate techniques to interpret concepts of science.

**PO 6: Impact of Science on Society** – To prepare competent human resources and to develop scientific attitudes at local and global levels for social benefit.

**PO 7: Environment and Sustainability** – Apply the knowledge gained for conserving the environment and to handle environmental issues with sustainable solutions.

**PO 8: Moral and Ethical Values** – Imbibe moral values and professional ethics to maintain integrality in a professional scenario while being aware of cultural diversities.

**PO 9: Individual and Team Work with Time Management** – Work productively in a team or as an individual while exhibiting time management skills.

**PO 10: Communication** – Develop the caliber to convey various concepts of science effectively.

**PO 11: Project Management and Finance** – Set up enterprises/companies and build entrepreneurship, project management and finance planning skills.

**PO 12: Life-long Learning** – Engage in the art of self-directed learning.

# I Semester B.Sc Physics Syllabus

## (DSC): Mechanics and Properties of Matter

**Course duration: 16 weeks with 3hours of instruction per week.**

## Course Outcomes (COs):

CO1: Gaining the knowledge on concepts of Frame of reference, Dynamics of Point Particles and theory of rigid bodies.

CO2: Comprehending the conservation laws of Linear Momentum, Angular Momentum and Energy.

CO3: Apprehending the theory of elasticity, Fluid mechanics and surface tension.

**PART – A: 16 hours**

**Frames of Reference:** Inertial and Non-inertial reference frames with examples.Uniform rectilinear motion in an inertial frame. Uniformly accelerated rectilinear motion-concept of fictitious force-illustration; plumb line accelerometer and a freely falling elevator. Qualitative discussion of centrifugal force, Coriolis force and earth as a non-inertial frame, Numerical problems. [4 hours]

**Motion of a Point Particle:** Point mass. The position vector $r(t)$ of a moving point particle and its Cartesian components. Velocity and acceleration as the vector derivatives. Derivation of planar vector of a constant magnitude. Radial and transverse components of velocity and acceleration for arbitrary planar motion, deduction of results for uniform circular motion centripetal force, Numerical problems. [4hours]

**Rigid Body Dynamics:** Review of definitions, Moment of inertia and radius ofgyration. Review of statements of the theorems of the parallel and perpendicular axes. Relation between torque and angular acceleration. Expression for kinetic energy of a rigid body. Calculation of moment of inertia of rectangular lamina, circular lamina and of a solid cylinder. Theory of compound pendulum. Numerical problems. [8hours]

**PART - B: 16hours**

**Conservation of linear Momentum:** Conservation of the linear momentum for a system of two particles. Rocket motion in a uniform gravitational field (single stage rocket equation with and without gravity). Multistage rocket elementary ideas. Elastic and inelastic collisions- Elastic head-on collision and elastic oblique collision in a lab frame, reduced mass. Numerical problems. [05 hours]

**Conservation of Angular Momentum:** Review of angular momentum and Torque. Relation between angular momentum and torque. Law of conservation of angular momentum. Areal velocity derivation $\frac{dA}{dt} = \frac{1}{2} r^2 \dot{\theta} \hat{n}$. Central force: Physical insight into the nature of central forces. Kepler's laws of planetary motion- Derivations using Newton's laws. Numerical problems. [06 hours]

**Conservation of Energy:** Conservative force and non-conservative forces with examples. Conservation of energy in a conservative force field. Applications: (i) Vertical oscillations of a loaded light spiral spring (derivation) and (ii) Calculation of escape velocity in the gravitational field of the earth (derivation). Conditions for a geo-stationary satellite. Numerical problems. [05 hours]

**PART - C: 16 Hours**

**Elasticity:** Concepts of moduli of elasticity, Hooke's Law and Poisson's ratio σ. Relation between the elastic constants q, k, η and σ, limiting values for σ. Work done in stretching. Elastic potential energy. Bending moment. Theory of light single cantilever. I-section girders. Torsion – calculation of couple per unit twist. The Torsional pendulum, Static torsion. Searle's double bar experiment. Numerical problems. [7 hours]

**Fluid Mechanics:** Ideal fluid, equation of continuity, Bernoulli's theorem and applications of Bernoulli's equation-curved flight of a spinning ball-Magnus effect, the lift on an aircraft wing. Streamline flow and turbulent flow. Critical velocity and Reynolds number. Viscosity-Variation of viscosity of liquids with temperature and pressure. Theory of rotation viscometer. Numerical problems. [5 hours]

**Surface Tension:** Surface Energy and Surface Tension-examples. Pressure inside curved liquid surface, excess of pressure inside a soap bubble. Angle of contact. Surface tension and interfacial tension by drop-weight method. Surface tension of mercury by Quincke's method – Theory. Numerical problems. [4 hours]

## References:

1. Halliday D, Resnick R, and Walker J, Principles of Physics, 9th Edn., Wiley India Pvt. Ltd. (2013).
2. Upadhyaya J C, Classical Mechanics, 2nd Edn., Himalaya Publishing House (2017).
3. Arora C L, and Hemne P S, Physics for Degree Students, Revised Edn., S Chand and Company (2012).
4. Charles Kittel, and Walter Knight, Berkeley Physics Course, Mechanics Vol1, 2nd Edn., Tata McGraw Hill (2011).
5. Mathur D S, Elements of Properties of Matter, S Chand and Company(2007).
6. Mathur D S, Mechanics,SChandand Company (2007).
7. BrijLal, and Subrahmanyam N, Properties of Matter, 6th Edn., S Chand and Company (2002).
8. ShankaraNarayana S R, Mechanics and Properties of Matter, 2ndRevised Edn., Sultan Chand and Sons (1998).
9. Gaur R. K and S.L Gupta, Engineering Physics, DhanpantRai Publications, Eighth edition (2001).
10. AroraCL,RefresherCourseinB.Sc.PhysicsVol.1,RevisedEdn.,S ChandandCompany(2008).

## Weblinks

- https://www.fullonstudy.com/bsc-1st-year-physics-notes
- https://byjus.com/chemistry/properties-of-matter/
- https://edscl.in/course/view.php?id=347&section=3

# I Semester B.Sc Physics Practical

## DSC - 1: Practical

**Course duration: 16weeks with 4hours of lab work per week.**

**(Minimum EIGHT of the following experiments must be done)**

1. Bar pendulum: Determination of the acceleration due to gravity and radius of gyration (graphical method).
2. Fly wheel: Determination of moment of inertia, mass and density.
3. Drop weight method: Determination of surface tension of liquid and interfacial tension between two liquids.
4. Young's modulus: Single cantilever method using travelling microscope
5. Searle's double bar: Determination of Young's modulus, rigidity modulus and Poisson's ratio.
6. Torsional pendulum: Determination of the rigidity modulus of the given wire.
7. Determination of the Young's modulus by dynamic method (using graph).
8. Spiral spring: Determination of the acceleration due to gravity and unknown mass (graphical method).
9. Determination of radius of gyration and moment of inertia of a rectangular body in three different axes.
10. Stokes' method: Determination of coefficient of viscosity of viscous liquids.
11. Determination of rigidity modulus by the static-torsion method.
12. Determination of Young's modulus by the method of uniform bending.
13. Young’s modulus byKoenig’s method.
14. Verification of Hook’s law.

# II Semester B.Sc Physics Syllabus

## DSC - 2: Heat and Thermodynamics

**Course duration: 16 weeks with 3 hours of instruction per week.**

### Course Outcomes (COs):

**CO1:** Comprehension of kinetic theory and radiation laws, Thermal conductivity and statistical physics.

**CO2:** Gaining the knowledge on the Concepts of Thermodynamics and Entropy.

**CO3:** Acquiring the knowledge on thermodynamics systems through derived thermodynamic relations, low temperature physics and vacuum technology.

**PART - A: 16 hours**

**Kinetic Theory:** Maxwell's law of distribution of molecular velocity (no derivation); its interpretation. Degrees of freedom. Principle of equipartition of energy based on Kinetic theory of gases. Derivation of U = 3/2 RT. Mean free path, expression for mean free path, probability of a particle having mean free path. Real gases, Andrew's isothermals, Van der Waals equations – expression for critical constants, calculation of mean velocity, most probable velocity and RMS velocity. Numerical problems. [8 hours]

**Thermal Conductivity:** Equation for the flow of heat through a solid bar. Determination of thermal conductivity of a bad conductor by Lee and Charlton method. Numerical problems. [2 hours]

**Statistical Physics:** The Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac energy distribution formulae (no derivation). A qualitative comparison of the MB, BE and FD statistics and their applications. [2 hours]

**Radiation:** Planck's quantum theory of radiation. Induced and spontaneous emission of radiation. Derivation of Planck's law of radiation using Einstein's A and B coefficients. Deduction of Rayleigh-Jeans law, Stefan's law and Wien's displacement law from Planck's law. Numerical problems. [4 hours]

**PART B: 16 hours**

**Thermodynamics:** Review of basic concepts of heat and temperature - the Zeroth law of thermodynamics. Differential form of the first law of thermodynamics, Work done in an isothermal and adiabatic process for an ideal gas (Derivations). Second law of thermodynamics (Kelvin's & Clausius's statements and their equivalence), Reversible and irreversible processes with examples. Carnot theorem (statement and proof). Carnot Cycle and its efficiency (derivation). Carnot Engine. Refrigerator-Coefficient of performance Thermodynamic scale of temperature and its identity with perfect gas scale. First order Phase Transitions with examples. Clausius - Clapeyron first latent heat equation. Numerical problems. [10 hours]

**Entropy:** The concept of entropy. Change of entropy in reversible and irreversible cycles. Entropy and non-available energy. Second law of thermodynamics in terms of entropy. Entropy of ideal gas, entropy of steam and mixtures. T-S diagram. Third law of thermodynamics - statement, significance and unattainability of absolute zero. Microscopic interpretation of entropy (Boltzmann relation). Numerical problems. [6 hours]

**PART C: 16 hours**

**Thermodynamic Potentials and Maxwell's Thermodynamic Relations:** Internal Energy, Enthalpy, Helmholtz function, Gibbs function, relations among these functions, Gibbs-Helmholtz Equations. Derivation of Maxwell's Thermodynamic Relations (using Thermodynamic Potentials). TdS equations for $C_p$ and $C_v$. Heat Capacity equations. Derivation of $C_p$-$C_v$=R using Maxwell's Relations. Internal Energy equations. Numerical problems. [6 hours]

**Low Temperature Physics:** Ideal gas and real gas. Van der Waals equation of state. Porous plug experiment and its theory. Joule-Thomson expansion expression for the temperature of inversion, inversion curve. Relation between Boyle temperature, temperature of inversion and critical temperature of a gas. Principle of regenerative cooling. Liquefaction of air by Linde's method. Adiabatic demagnetization. Cryogenics and its applications (qualitative). Numerical problems. [6 hours]

**Vacuum Technology**: Introduction with basic definition and units, Exhaust pump and their characteristics, Measurement of low pressure, Pirani gauge. Numerical problems. [4 hours]

**References:**

1. Halliday and Resnick: Fundamentals of Physics, 9th edition, Wiley India, 2011.
2. R. H. Dittaman and M. W. Zemansky: Heat and Thermodynamics, 7th edition, Tata McGraw-Hill companies, 2007.
3. S. J. Blundell and K. M. Blundell: Concepts in Thermal Physics, 2nd edition, Oxford University Press, 2006.
4. Brijlal, N. Subramanyam P.S. Hemne: Heat Thermodynamics and Statistical Physics, 1st edition. S Chand Publishing, 2007.
5. S C Gupta: Thermodynamics, 1st edition, Pearson, 2005.
6. C. L. Arora: Refresher Course in Physics Vol I, S Chand publishing, 2011.
7. S. R. Shankara Narayana: Heat and Thermodynamics, 2nd edition, Sulthan Chand and Sons, 1990.
8. Gaur R.K and S.L Gupta, Engineering Physics, Dhanpant Rai Publications, 8th edition (2001).
9. Mark W. Zemansky, Heat and Thermodynamics,Tata McGraw Hill, 7th edition (1997).

**Weblinks:**

https://deepblue.lib.umich.edu/bitstream/handle/2027.42/75853/ayd_1.pdf/
https://sites.ualberta.ca/gingrich/courses/phys395/notes/phys395/
https://www.researchgate.net

## II Semester B.Sc Physics Practical
## DSC - 2: Practical
## Course duration: 16 weeks with 4 hours of lab work per week.

**(Minimum EIGHT of the following experiments must be done)**

1. Verification of Gaussian distribution and calculation of standard deviation-Monte Carlo experiment.
2. Specific heat by Newton's law of cooling -graphical method.
3. Verification of Stefan-Boltzmann law using a meter bridge or a potentiometer.
4. Determination of thermal conductivity of a bad conductor by Lee-Charlton method.
5. Determination of temperature coefficient of resistance of a thermistor.
6. Determination of temperature coefficient of resistance of a copper wire.
7. Determination of Boltzmann constant.
8. Dice experiment-Randomocity verification.
9. Verification of Stefan's fourth power law using an electrical lamp.
10. Determination of surface temperature of a blackbody analyzing the blackbody spectrum.
11. Coefficient of thermal conductivity of copper by Searle's apparatus.
12. Verification of Clausius –Clapeyron equation and determination of specific enthalpy.
13. Determination of Solar constant.
14. Determination of boiling point of a liquid by using a platinum resistance thermometer.
15. Mechanical Equivalent of Heat by Callender and Barne's method.
16. Determination of temperature coefficient of resistance of a platinum resistance thermometer.

## Scheme of Valuation for Theory & Practical

**Theory:** The student performance is evaluated for 20 marks each in C1 and C2, and they must be normalised to 10 marks each. C3 should be conducted for 80 marks as per the university order.

**Practical**: C1 and C2 are internal tests to be conducted during $8^{th}$ and $16^{th}$ weeks respectively of the semester. C3 is the semester-end examination conducted for 3 hours. The student will be evaluated on the basis of skill, comprehension and recording the results.

The student has to compulsorily submit the practical record for evaluation during C1 and C2. The record certified by the Head of the Department has to be submitted during C3.
The student is evaluated for 10 marks in C1 and C2 as per the following scheme:
**Experiment:** 8 marks, **Record:** 2 marks.
The marks scored is then normalized to 5 marks.
The student is evaluated for 40 marks in C3 as per the following scheme:

| Component | Marks |
|---|---|
| Experiment | 35 |
| Viva | 05 |
| **Total** | **40** |

The evaluation of experiment conducted is carried out as per the following scheme:

| Component | Marks |
|---|---|
| Formula with proper units and explanation | 5 |
| Setting up the apparatus / circuit connections | 5 |
| Taking readings and tabulating | 10 |
| Calculations | 10 |
| Graph and accuracy of result | 5 |
| **Total** | **35** |

## DSC – Physics Question Paper Pattern for I and II Semester

**Max Marks: 80** **Time: 03 hours**

### PART – A

**Answer any TWO of the following:** **2 x 8 = 16**

(3 Long answer questions with two or three sub questions to be asked from PART - A. Each question carrying 16 Marks)

### PART – B

**Answer any TWO of the following:** **2 x 8 = 16**

(3 Long answer questions with two or three sub questions to be asked from PART - B. Each question carrying 16 Marks)

### PART – C

**Answer any TWO of the following:** **2 x 8 = 16**

(3 Long answer questions with two or three sub questions to be asked from PART - C. Each question carrying 16 Marks)

### PART – D

**Answer any FOUR of the following:** **4 x 4 = 16**

(Numerical problems: TWO from each PART to be given)

### PART – E

**Answer any EIGHT of the following:** **8 x 2 = 16**

(4 short answer questions from each part to be given)

## PANEL OF EXAMINERS

| SL.NO | NAME OF EXAMINER | NAME OF THE COLLEGE | CONTACT NO |
|---|---|---|---|
| 1. | Dr.Vinay kumar.L | JSS College Ooty road, Mysore | |
| 2. | Karthik | JSS College Ooty road, Mysore | |
| 3. | Jagadeesh B | JSS College Ooty road, Mysore | |
| 4. | Lakshmi S | JSS College Ooty road, Mysore | |
| 5. | Shwetha U S | JSS College Ooty road, Mysore | |
| 6. | Meghana R | JSS College Ooty road, Mysore | |
| 7. | Sri.Mallikarjunswamy | JSS College chamarajanagar | |
| 8. | Sri.C. Nagesh babu | Yuvaraja's College, Mysore | |
| 9. | Dr.B.C. Manjunath | Yuvaraja's College, Mysore | |
| 10. | Sri.T.Sadashiviah | Yuvaraja's College, Mysore | |
| 11. | Sukhanth | Yuvaraja's College, Mysore | |
| 12. | Sunitha Rani | Yuvaraja's College, Mysore | |
| 13. | Milana | Yuvaraja's College, Mysore | |
| 14. | Krupashree P | Yuvaraja's College, Mysore | |
| 15. | Sushma | Yuvaraja's College, Mysore | |
| 16. | Dr S R Kumaraswamy | GFGC for Women, Kabini Colony, Byrapura, T N Pura | |
| 17. | Dr.Rashmi P E | Maharani's Science College, Mysore | |
| 18. | Dr.Nagaraju | Maharani's Science College, Mysore | |
| 19. | Dr.Srinivas P | Maharani's Science College, Mysore | |
| 20. | Girish L N | Maharani's Science College, Mysore | |
| 21. | Dr.Vindu Vahini | Maharani's Science College, Mysore | |
| 22. | Shivu | Maharani's Science College, Mysore | |
| 23. | Dr.Krishnamohan | GFGC, Hassan | |
| 24. | Reema | GFGC, Channapatna | |
| 25. | Dr. Galebhe Satish Babu | GFGC, Hunsur | |

| | | | |
|---|---|---|---|
| 26. | Sophia | Terisian College, Mysuru | |
| 27. | Dr.Mahadeva Prasad T N | GFGC, Gundlupet | |
| 28. | Kavitha | GFGC, Pandavpura | |
| 29. | Dr.Shivaprasad | GFGC, Chamarajanagar | |
| 30. | Chandan | GFGC, Chamarajanagar | |
| 31. | Manjunath | GFGC, Chamarajanagar | |
| 32. | Prof.Gunasheelan | St Philomenas college Mysore | |
| 33. | Prof.Nagaraj Urs | St Philomenas college Mysore | |
| 34. | Ravitheja | JSS College, Nanjangud | |
| 35. | Prof.Roopa | Govt First grade college, Bannur | |
| 36. | Sri. S Shreekanth | NIE First Grade College, Mysore | |
| 37. | Dr.Poornima S | SBRR Mahajana FGC, Mysuru | |
| 38. | Umesh V. | JSSCW,Saraswathipuram, Mysore | |
| 39. | Yashwanth D.B. | JSSCW,Saraswathipuram, Mysore | |
| 40. | | | |

**Chairman, BOE is authorized to approve additional members if required.**