



SRI Y. N. COLLEGE

(AUTONOMOUS)

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Accredited by NAAC with A⁺ Grade (4th Cycle)

Narsapur - 534275, West Godavari District, Andhra Pradesh



Department of Electronics

Action Taken Report on Design and Review of Syllabus 2023-24

| S. No. | Suggestions Offered | Action Taken |
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| 1. | Develop a hands-on lab module for IoT (Internet of Things) applications | An IoT lab module was introduced, including sensor interfacing, Microcontroller programming, and real-time data analysis. |
| 2 | Update the curriculum to include sustainability and Green Technologies in Electronics. | Topics on sustainable Semiconductor Materials, and Energy-efficient circuits were incorporated into the Syllabus. |
| 3 | Introduce a Programming Course tailored for Electronics students to improve their coding skills. | A course on Python for Electronics, covering data analysis, simulation, and hardware interfacing, was introduced. |
| 4 | Introduce Principles of Psychology as a Multidisciplinary Course for B.Sc. (Hons.) Electronics students. | Principles of Psychology was introduced as a Multidisciplinary course, focusing on Cognitive sciences and Behavioral |

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| | | Analysis to Complement Electronics. |
| 5 | Introduce Fundamentals of Artificial Intelligence as a Major Discipline Course for B.Sc. (Hons.) Electronics students. | Fundamentals of Artificial Intelligence was added as a Major Discipline, covering Machine Learning, Neural Networks, and AI ethics to enhance technical expertise. |
| 6 | Establish a student innovation forum to foster collaboration and creativity. | A Student Innovation Forum was created, offering a platform for idea-sharing, interdisciplinary projects, and showcasing student innovations. |
| 7 | Strengthen Alumni involvement to provide Mentorship and Career Guidance to current students. | Alumni were invited to conduct Career Guidance sessions, and Mentoring Programmes. |



Ch Kanaka Rao

(Dr. Ch. Kanaka Rao)

Principal

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Department of Biotechnology

Action Taken Report on Design and Review of Syllabus 2023-24

| S.No | Suggestions Offered | Action Taken |
|------|---|--|
| 1 | Emerging developments in the Biotechnology field were lacking in the curriculum. | Each Course was updated with latest developments in the Revised Syllabus. |
| 2 | The depth of the course content is adequate in relation to the expected course outcomes. | The teaching strategies were put into practice in accordance with the course outcomes. |
| 3 | Courses Should be helpful in Industrial Area. | Curriculum Revised Including all the Suggested Changes. |
| 4 | Students must be encouraged to take Higher Education and must be well informed of the opportunities in the field. | Career Prospect Classes were conducted for the Final Year Students. |



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Narsapur - 534275, West Godavari District, Andhra Pradesh

Department of Physics

Action Taken Report on Design and Review of Syllabus 2023-24

| S. No | Suggestions Offered | Action Taken |
|-------|--|--|
| 1 | <p>MECHANICS, WAVES AND OSCILLATIONS</p> <p>1. Motion in a Central Force Field: Basic idea of Global Positioning System (GPS), weightlessness, Physiological effects of astronauts</p> <p>2. Coupled oscillations: (05 hrs) Coupled oscillators-Introduction, Two coupled oscillators, Normal coordinates and Normal modes- N-coupled oscillators and wave equation.</p> <p>3. Complex vibrations: Fourier theorem and evaluation of the Fourier coefficients, analysis of periodic wave functions-square wave.</p> | <p>MECHANICS, WAVES AND OSCILLATIONS</p> <p>1. Motion in a Central Force Field: Basic idea of Global Positioning System (GPS), weightlessness, Physiological effects of astronauts</p> <p>2. Coupled oscillations: (05 hrs) Coupled oscillators-Introduction, Two coupled oscillators, Normal coordinates and Normal modes- N-coupled oscillators and wave equation.</p> <p>3. Complex vibrations: Fourier theorem and evaluation of the Fourier coefficients, analysis of periodic wave functions-square wave.</p> |
| 2 | <p>WAVE OPTICS</p> <p>Interference of light: Lloyd's single mirror, Phase change on reflection-Stokes' treatment. Diffraction of light Explanation of rectilinear propagation of light. Polarisation of light: Basic principle of LCDs.</p> | <p>WAVE OPTICS</p> <p>Interference of light: Lloyd's single mirror, Phase change on reflection-Stokes' treatment. Diffraction of light Explanation of rectilinear propagation of light. Polarisation of light: Basic principle of LCDs.</p> |

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| 3 | <p>WAVE OPTICS</p> <p>Astigmatism -- Curvature of field – distortion.</p> <ol style="list-style-type: none"> 1. Calculation of longitudinal chromatic aberration of a thin lens 2. Non reflecting films 3. Semi conductor laser -- Laser characteristics <p>HEAT & THERMODYNAMICS</p> <ol style="list-style-type: none"> 4. Thermodynamics-scale of temperature. 5. Characteristics of Ideal Refrigerant 6. Principle of refrigeration | <p>WAVE OPTICS</p> <p>Astigmatism -- Curvature of field – distortion.</p> <ol style="list-style-type: none"> 1. Calculation of longitudinal chromatic aberration of a thin lens 2. Non reflecting films 3. Semi conductor laser -- Laser characteristics <p>HEAT & THERMODYNAMICS</p> <ol style="list-style-type: none"> 4. Thermodynamics-scale of temperature. |
| | <ol style="list-style-type: none"> 7. Vapour compression type refrigerator 8. Degrees of freedom 9. Thermodynamic scale of temperature and its identity with perfect gas scale | <ol style="list-style-type: none"> 5. Characteristics of Ideal Refrigerant 6. Principle of refrigeration 7. Vapour compression type refrigerator 8. Degrees of freedom 9. Thermodynamic scale of temperature and its identity with perfect gas scale |
| 5 | <p>ELECTRICITY, MAGNETISM AND ELECTRONICS</p> <ol style="list-style-type: none"> 1. Electric Flux 2. Polar and non-polar dielectrics in an electric field 3. Magnetic Shell, 4. Divergence and curl of magnetic field 5. Qualitative treatment, 6. Magnetic properties of dia, para and Ferro magnetic materials 7. Langevins theory of para magnetism 8. Weiss theory of Ferro magnetism 9. Energy losses and efficiency. 10. Construction of single phase ac motor, 11. Construction of single phase dc motor. 12. Band theory of solids (qualitative) – Intrinsic and extrinsic semi conductors. <p>Hybrid parameters, Determination of hybrid parameters from transistor characteristics</p> | <p>ELECTRICITY, MAGNETISM AND ELECTRONICS</p> <ol style="list-style-type: none"> 1. Electric Flux 2. Polar and non-polar dielectrics in an electric field 3. Magnetic Shell, 4. Divergence and curl of magnetic field 5. Qualitative treatment, 6. Magnetic properties of dia, para and Ferro magnetic materials 7. Langevins theory of para magnetism 8. Weiss theory of Ferro magnetism 9. Energy losses and efficiency. 10. Construction of single phase ac motor, 11. Construction of single phase dc motor. 12. Band theory of solids (qualitative) – Intrinsic and extrinsic semi conductors. <p>Hybrid parameters, Determination of hybrid parameters from transistor characteristics</p> |

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| 6 | <p style="text-align: center;">MODERN PHYSICS</p> <ol style="list-style-type: none"> 1. Bohr's atomic theory, 2. Spectra of Hydrogen, 3. Spectral terms and spectral notations, Selection rules, Intensity rules 4. Photoelectric effect-Einstein photoelectric equation. 5. Stability of atom. 6. Bohr's principle of complementarity 7. Limitations of old quantum theory. 8. Particle in a box 9. one dimensional harmonic oscillator 10. Application of Schrodinger wave equation to particle in three dimensional boxes. 11. Nuclear reaction, 12. kinematics 13. Calculation of Born coefficient and repulsive exponent. Born – Haber cycle. 14. Persistent current, isotopic effect. 15. Semi conductor nano particles 16. carbon nano clusters BCS theory (elementary ideas only) | <p style="text-align: center;">MODERN PHYSICS</p> <ol style="list-style-type: none"> 1. Bohr's atomic theory, 2. Spectra of Hydrogen, 3. Spectral terms and spectral notations, Selection rules, Intensity rules 4. Photoelectric effect-Einstein photoelectric equation. 5. Stability of atom. 6. Bohr's principle of complementarity 7. Limitations of old quantum theory. 8. Particle in a box 9. one dimensional harmonic oscillator 10. Application of Schrodinger wave equation to particle in three dimensional boxes. 11. Nuclear reaction, 12. kinematics 13. Calculation of Born coefficient and repulsive exponent. Born – Haber cycle. 14. Persistent current, isotopic effect. 15. Semi conductor nano particles 16. carbon nano clusters 7. BCS theory (elementary ideas only) |
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Department of Fashion Technology and Apparel Designing

Action Taken Report on Design and Review of Syllabus 2023-24

| S. No | Suggestions Offered | Action Taken |
|-------|---|--|
| 1 | Extra learning concepts & subject related videos to improve their understanding about the learning objectives & concepts. | Virtual classes were conducted regularly to help students gain a comprehensive understanding of the topic. |
| 2 | Felt the need to have industrial experts to handle special sessions on industry oriented subjects for value addition. | Special address by industrial experts was organised. |



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Narsapur - 534275, West Godavari District, Andhra Pradesh

Department of Chemistry

Action Taken Report on Design and Review of Syllabus 2023-24

| S. No | Suggestions Offered | Action Taken |
|-------|--|--|
| 1 | Community Service projects | Students are doing Community service projects. |
| 2 | Short term internships | Students are doing short term internships after IV semester |
| 3 | Long term internships | Students are doing long term internships in the 6 th semester |
| 4 | The depth of the course content is adequate in relation to the expected course outcomes. | The teaching strategies were put into practice in accordance with the course outcomes. |
| 5 | Courses Should be helpful in Industrial Area. | Curriculum Revised Including all the Suggested Changes. |



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