



All India Top 50 State Private Universities  
Outlook ICare University Rankings 2024



# B.Sc

(HONS.)

# Beyond the Ordinary

**Experiential Learning:**  
The curriculum incorporates real-world application of theory, design projects, guest lectures and internships to hone critical-thinking and decision-making skills.

**International Student Exchange Program:**  
120+ global partnerships with world’s leading universities exposes students to different cultures and markets, broadens perspective, fosters adaptability and enables better understanding of global business.

**Experiential Learning:**  
Insights and mentorship of accomplished professionals and thought leaders bridge the gap between academic theory and practical application

**World Class Infrastructure:**  
Spread across 200 acres, the campus features state-of-the-art labs, high-tech classrooms, central library, modern residential facilities, International standard sports infrastructure, providing an inspiring environment for creative learning.

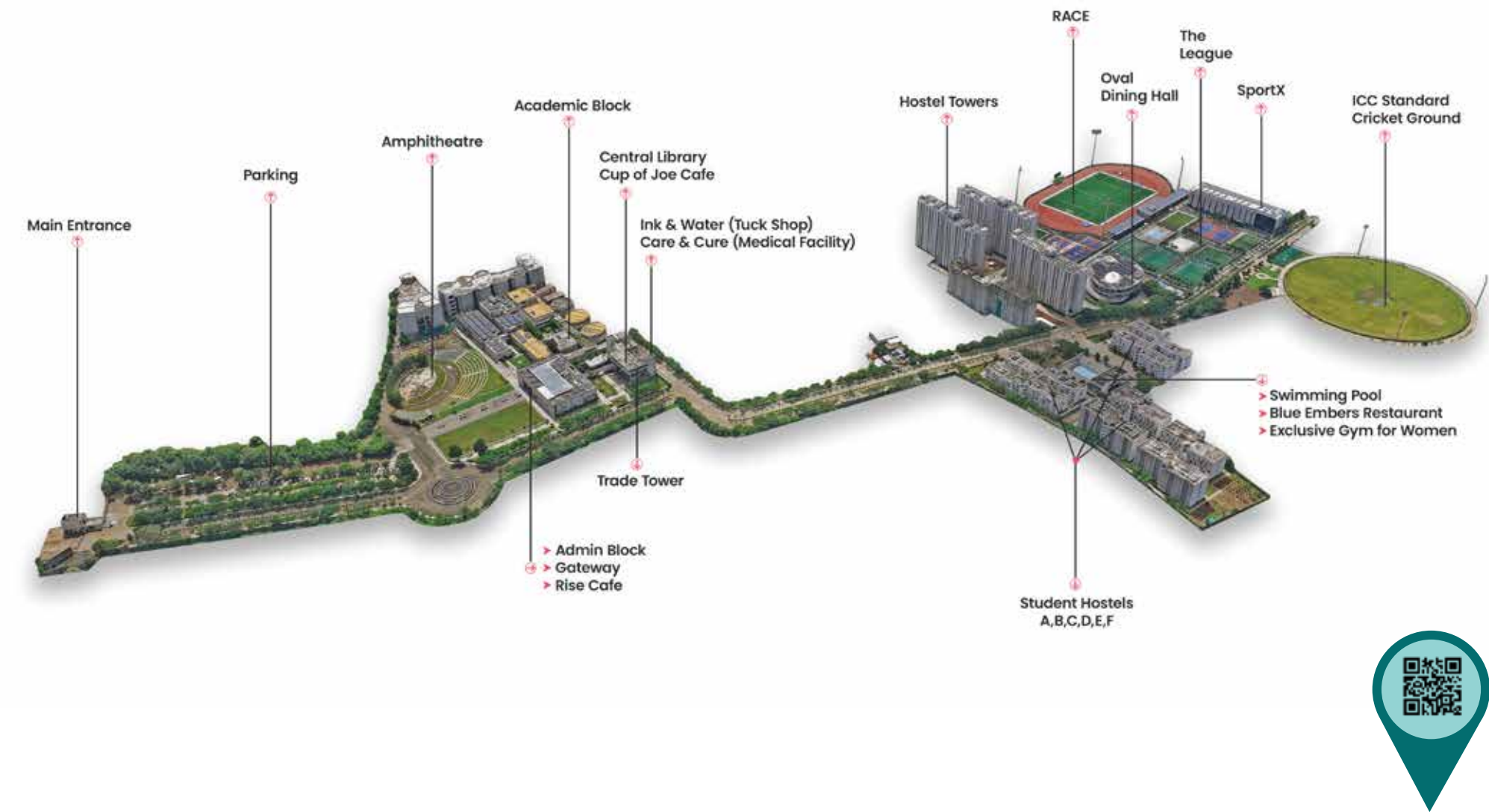
At Woxsen, you are groomed not just for a future career but are transformed into individuals that are Versatile, Logical and Global in all perspectives.



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# A WORLD WITHIN OUR CAMPUS



TAKE A CAMPUS TOUR

Spotlight on our  
Class of '24

Male  
**29%**

Female  
**71%**

Students from **4** Diverse Backgrounds

- Sciences
- Commerce
- Humanities
- Managment

Students from  
**09**  
States across  
India

WORLD CLASS EDUCATION THAT  
INGRAINS THE ETHOS TO BE MORE



The Bachelor of Science (Honors) program serves as the nucleus where the intricacies of scientific exploration are meticulously unfolded and diligently embraced. This program plays a fundamental role in nurturing inquisitive minds, honing analytical thinking, and steering breakthroughs that elevate academic pursuits into the domains of research excellence and scientific innovation.

Woxsen University's Bachelor of Science (Honors) degree stands as a beacon of academic excellence, embodying our unwavering commitment to nurturing the next generation of professionals in diverse domains. This comprehensive program is meticulously designed to equip students with essential knowledge in fields such as Computer Science, IT, Artificial Intelligence, Medical Science, Biotech, and beyond.

Distinguishing itself through versatility, our B.Sc (Hons.) degree offers a unique feature where students can tailor their academic journey by choosing any two specializations from a pool of six highly sought-after domains. This customization empowers students to shape their education based on their passions and career aspirations. Ranked #25 among the Top 50 State Private Universities in Outlook I-CARE 2023, Woxsen University takes pride in providing a dynamic learning environment that prepares students for lucrative careers.

SPECIALIZATIONS OFFERED

B.SC. (HONS.) - APPLIED MATHEMATICS

The B.Sc. (Hons.) in Applied Mathematics is intricately designed to offer students a specialized and comprehensive education in the dynamic field of applied mathematics. This program delves into various branches of mathematics, emphasizing practical applications in real-world scenarios.

B.SC. (HONS.) - PHYSICS

The B.Sc. (Hons.) in Physics offers a meticulously designed educational experience that delves into the fascinating realm of physics. This program provides students with a comprehensive understanding of fundamental principles, experimental techniques, and theoretical concepts in physics. Covering a diverse range of topics, including classical mechanics, quantum physics, and electromagnetism, the B.Sc. (Hons.) in Physics cultivates analytical thinking and problem-solving skills.

B.SC. (HONS.) - CHEMISTRY

The B.Sc. (Hons.) in Chemistry presents a thoughtfully structured academic journey, immersing students in the captivating world of chemistry. This program offers a comprehensive exploration of chemical principles, analytical techniques, and experimental methodologies. Encompassing a broad spectrum of topics, including organic, inorganic, and physical chemistry, the B.Sc. (Hons.) in Chemistry fosters critical thinking and practical laboratory skills.

B.SC. (HONS.) - BIOTECHNOLOGY

The B.Sc. (Hons.) in Biotechnology is meticulously crafted to provide students with a comprehensive understanding of the dynamic and evolving field of biotechnology. This program explores the fusion of biology and technology, covering areas such as genetic engineering, molecular biology, and bioinformatics.

B.SC. (HONS.) - COMPUTER SCIENCE

The B.Sc. (Hons.) in Computer Science is a carefully curated program offering students a deep dive into the dynamic and ever-expanding field of computer science. Focusing on core concepts such as software development, algorithms, and systems architecture.

B.SC. (HONS.) - DATA SCIENCE & AI

The B.Sc. (Hons.) in Data Science and AI is at the forefront of technological innovation, providing students with an immersive education in the realms of data science and artificial intelligence. This program covers essential topics such as machine learning, data analysis, and algorithm development.

B.SC. (HONS.) - AGRICULTURAL SCIENCE

The B.Sc (Hons) in Agricultural Science stands out by focusing on in-demand areas like Precision Agriculture and Digital Farming, Agricultural Biotechnology and Genomics, Bioinformatics and Computational Agriculture, Nutritional and Food Sciences in Agriculture, and Agricultural Medicine and Public Health.

Road Map to B.Sc Programs

PLACEMENT PREP

CAMPUS PLACEMENTS

Aug -Dec		Jan-June		July-Jan		Jan-May		Jul -Jan		Jan-May		July - Jan		Jan-May	
Semester 1	Semester 2	Social Internship	Placement Prep	Semester 3	Semester 4	Summer Internship	International Student Exchange/ Progressive Studies	Semester 5	Semester 6	Specialisation-wise Internship	Campus Placements	Semester 7	Semester 8		



BE MORE  
COGNITIVE

The B.Sc (Hons.) in Applied Mathematics has been intricately crafted to establish a robust groundwork for advanced academic pursuits and professional engagements. Tailored for students demonstrating profound interests in both theoretical and applied aspects of mathematics, this specialization endeavors to impart a comprehensive and in-depth comprehension of applied mathematics.

B.SC. (HONS.) - APPLIED MATHEMATICS

Duration: 4 years, Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Environmental Science</li><li>Fundamentals of Applied Chemistry (Theory + Lab)</li><li>Fundamentals of Applied Physics (Theory + Lab)</li><li>Fundamentals of Computers (Theory + lab)</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of life sciences</li></ul>	<ul style="list-style-type: none"><li>Experimental Learning Project/AE (1 credit e-certificate)</li></ul>
Semester 2	<ul style="list-style-type: none"><li>English communication</li><li>Fundamentals of electricals &amp; electronics for math (Theory)</li><li>Numerical techniques and Programming (Theory + Lab)</li><li>Biostatistics (Theory + Lab/T)</li><li>Linear Algebra (Theory + T)</li><li>Existential Dialogue / Indian Knowledge Systems</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Ordinary &amp; Partial Differential Equation</li><li>Mathematical Modeling (Theory + Lab/T)</li><li>Basic Real Analysis</li><li>Biomolecules &amp; metabolism (Theory + Lab)</li><li>Genomics</li><li>Responsible Leadership / Indian Heritage and Culture</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project-I/ESSR-I</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Bioinformatics (Theory + Lab)</li><li>Computational Genomics (Theory + Lab)</li><li>Computational Methods in Biology (Theory + Lab)</li><li>Mathematical Biology</li><li>Proteomics &amp; Metabolomics</li><li>The Art of Self Reflection/ Human Values and Ethics</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-I</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Machine Learning in Bioinformatics (Theory + Lab)</li><li>System biology &amp; Evolutionary Biology</li><li>Discrete Mathematics</li><li>Complex Analysis</li><li>Structural Bioinformatics</li></ul>	<ul style="list-style-type: none"><li>CORE/Applicative Project-II</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Analytical Geometry (Theory + T)</li><li>Advanced Topics in Computational Biology(Theory+Lab)</li><li>Systems Pharmacology</li><li>Computational Immunology (Theory + Lab)</li></ul>	<ul style="list-style-type: none"><li>Summer Internship</li></ul>
Semester 7	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Capstone Project-I</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Graduation Project/Capstone Project-II</li></ul>



\*Woxsen University follows a Continuous Benchmarking Policy & the above curriculum outline is subject to change without further notice.



The Woxsen Advantage:

- Right mix of theory & practical concepts from top-notch Faculty
- Industry Endorsed Curriculum encouraging research development and analytical thinking
- Live Projects | Workshops | Competitions
- 1:1 Mentoring from Industry Experts
- Capstone Project

Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in Science with Mathematics as a compulsory subject from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
- Students may Appear for the Online Entrance Test – WAT (Woxsen Aptitude Test), or submit your SAT or CUET score.
- Students appearing for 12th Grade/ equivalent may apply. However, to secure admission at Woxsen University, clearing 12th Grade/ equivalent exam is mandatory.
- International Applicants can check their eligibility at <https://woxsen.edu.in/international/eligibility/>

BE MORE LOGICAL

The B.Sc (Hons.) in Physics specialization is designed to offer a comprehensive framework through an industry-endorsed curriculum and an applied learning pedagogy. It is crafted to enable students to gain profound domain knowledge, essential skills, and the capability to pursue further specialization in this field.

B.SC. (HONS.) - PHYSICS

Duration: 4 years, Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Environmental Science</li><li>Fundamentals of Applied Physics (Theory + Lab)</li><li>Fundamentals of Applied Chemistry (Theory + Lab)</li><li>Fundamentals of Computers (Theory+Lab)</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of life sciences</li></ul>	<ul style="list-style-type: none"><li>Experimental Learning Project</li></ul>
Semester 2	<ul style="list-style-type: none"><li>English communication</li><li>Fundamentals of electricals &amp; electronics (Theory + lab)</li><li>Numerical techniques and Programming (Theory + Lab)</li><li>Chemistry (Theory + Lab)</li><li>Introduction to Medical Physics (Theory)</li><li>Existential Dialogue / Indian Knowledge Systems</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project (I:1+2P)</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Mechanics (Theory + Lab)</li><li>Mathematical Physics</li><li>Optics &amp; photonics</li><li>Anatomy, Physiology and Pathology</li><li>Health Economics and Health Management/ Life Skills</li><li>Responsible Leadership / Indian Heritage and Culture</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project-I/ESSR-I</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Radiological Mathematics (Theory + Lab)</li><li>Electrodynamics (Theory)</li><li>Physics of Radaiton Sources (Theory+lab)</li><li>Data Analysis in Medical Physics (Theory+lab)</li><li>Disaster management in radiology</li><li>The Art of Self Reflection/ Human Values and Ethics</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-I</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Radiation Detection, Measurement and Instrumentation</li><li>Quantum physics /CORE</li><li>Radiation dosimetry and standardization (Theory + lab)/MINOR</li><li>Biological Basis of Radiotherapy and Biological models</li><li>Materials for Medical applications/CORE</li></ul>	<ul style="list-style-type: none"><li>Applicative Project II/CORE</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Solid State Physics (Theory + Lab)/CORE</li><li>Image-guided Radiation Therapy (Theory+Lab)/MINOR</li><li>Physics of Medical Imaging (Theory+Lab)/CORE</li></ul>	<ul style="list-style-type: none"><li>Radiation Therapy, safety and protection//CORE</li><li>Summer Intern</li></ul>
Semester 7	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Capstone Project-I/Internship</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Graduation Project/Capstone Project-II</li></ul>



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The Woxsen Advantage:

- Advanced curriculum with rigorous practical exposure
- Deep learning avenues with High-Tech Physics Lab
- Live Projects I Lab Sessions/Workshops I Competitions
- 1:1 Mentoring from Industry Experts
- Capstone Project

Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in Science with Physics as a compulsory subject from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
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- International Applicants can check their eligibility at <https://woxsen.edu.in/international/eligibility/>

BE MORE  
EXPERIMENTAL

The B.Sc (Hons.) in Chemistry stands as a pivotal discipline in contemporary society, and this specialization offers a comprehensive exploration of its various facets. Students engaging in this specialization will acquire both foundational knowledge and practical skills, with a focus on real-world applications.

B.SC. (HONS.) - CHEMISTRY

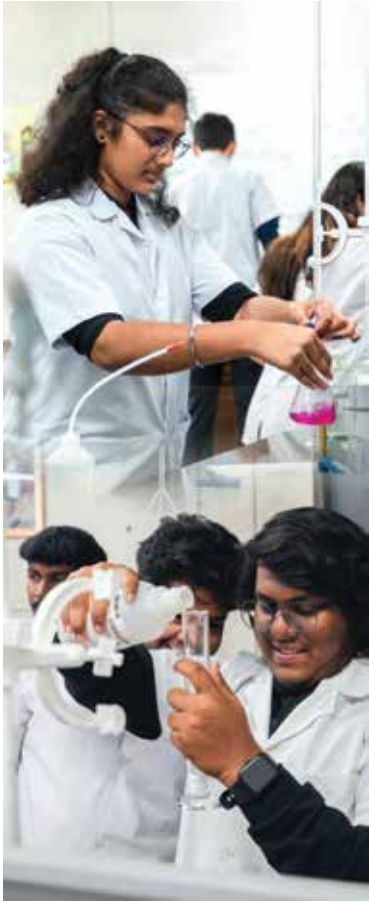
Duration: 4 years Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Environmental Science/VAC</li><li>Fundamentals of Applied Physics (Theory + Lab)/CORE</li><li>Fundamentals of Applied Chemistry (Theory + Lab)/CORE</li><li>Fundamentals of Computers (Theory+Lab)/MINOR</li><li>Problem Solving Skills in Mathematics/SEC</li><li>Fundamentals of life sciences/MULTI</li></ul>	<ul style="list-style-type: none"><li>Experimental Learning Project/AE (1 credit e-certificate)</li></ul>
Semester 2	<ul style="list-style-type: none"><li>English communication/AE</li><li>Fundamentals of electricals &amp; electronics (Theory + lab)/MINOR</li><li>Numerical techniques and Programming (Theory + Lab)/MULTI</li><li>Chemistry I (Theory + Lab)/CORE</li><li>Introduction to Drug discovery and Pharmaceutical Sciences</li><li>Existential Dialogue / Indian Knowledge Systems/VAC</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project/SEC (1:1+2P)</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Chemistry II (Theory+Lab)/Core</li><li>Biochemistry (Theory+Lab)/Core</li><li>Pharmacology and Toxicology/Minor</li><li>Analytical Chemistry /Multi</li><li>Drug Regulatory Affairs/AEC</li><li>Responsible Leadership / Indian Heritage and Culture/VAC</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project-I/ESSR-I/SEC</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Quantum Chemistry(Theory)/Core</li><li>Biophysical Chemistry (Theory+lab)/Core</li><li>Pharmaceutical Formulations and Analysis (Theory+lab)/Core</li><li>Drug Delivery analysis/AE</li><li>Medicinal Chemistry</li><li>The Art of Self Reflection/ Human Values and Ethics/VAC</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-II/Core</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Drug Design and Development (Theory+Lab)/SEC</li><li>Molecular biology (Theory+Lab)/Core</li><li>Pharmacokinetics and pharmacodynamics/Minor</li><li>Cell Biology (Theory+Lab)/Core</li><li>Pharmaceutical Biotechnology /Core</li></ul>	<ul style="list-style-type: none"><li>Applicative Project II/CORE</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Advanced Organic Chemistry (Theory+Lab)/Core</li><li>Pharmaceutical Microbiology (Theory+Lab)/Minor</li><li>Pharmaceutical process Chemistry and Quality Control</li><li>Clinical Pharmacology/CORE</li></ul>	<ul style="list-style-type: none"><li>Summer Internship</li></ul>
Semester 7	<ul style="list-style-type: none"><li>MOOC Course I/CORE</li><li>MOOC Course II/MINOR</li></ul>	<ul style="list-style-type: none"><li>Capstone Project-II/Internship</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course I/CORE</li><li>MOOC Course II/MINOR</li></ul>	<ul style="list-style-type: none"><li>Graduation Project/Capstone Project-II/Industrial Internship</li></ul>



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The Woxsen Advantage:

- Advanced curriculum with rigorous practical exposure
- Deep learning avenues with High-Tech Chemistry Lab
- Live Projects I Lab Sessions/Workshops I Competitions
- 1:1 Mentoring from Industry Experts
- Capstone Project

Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in Science with Chemistry as a compulsory subject from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
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BE MORE  
COLLABORATIVE

Students enrolled in B.Sc (Hons) in Biotechnology will gain a comprehensive understanding of fundamental concepts and proficiency in employing the scientific method. This involves formulating hypotheses, designing experiments, utilizing contemporary technologies to collect relevant data, and conducting in-depth analyses.

B.SC. (HONS.) - BIOTECHNOLOGY

Duration: 4 years, Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Environmental Science</li><li>Fundamentals of Applied Physics (Theory + Lab)</li><li>Fundamentals of Computers (Theory + lab)</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of Applied Chemistry (Theory + Lab)</li><li>Fundamentals of Life sciences</li></ul>	<ul style="list-style-type: none"><li>Experimental Learning Project</li></ul>
Semester 2	<ul style="list-style-type: none"><li>English communication</li><li>Fundamentals of Electricals and electronics (Theory+Lab)/MINOR</li><li>Human Anatomy and Physiology</li><li>Numerical Techniques and Programming (Theory+Lab)</li><li>Existential Dialogue / Indian Knowledge Systems</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Biochemistry (Theory+Lab)</li><li>Molecular Biology (Theory+Lab)</li><li>Cell Biology and Genetics (Theory+Lab)</li><li>Microbiology (Theory+Lab)</li><li>Biotechnology Laboratory Techniques</li><li>Responsible Leadership</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Bioinformatics in Clinical Biotechnology (Theory+Lab)</li><li>Diagnostic Imaging techniques</li><li>Clinical Genetics</li><li>Immunology (Theory+Lab)</li><li>Molecular Diagnostics</li><li>The Art of Self-Reflection/ Human Values and Ethics</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-I</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Clinical Biochemistry (Theory+Lab)</li><li>Medical Microbiology (Theory+Lab)</li><li>Genetic Engineering and Therapeutic Applications (Theory+Lab)</li><li>SEC-III/Molecular Oncology</li><li>Clinical Research Methods</li></ul>	<ul style="list-style-type: none"><li>Applicative Project</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Clinical Pathology (Theory+Lab)</li><li>Clinical Trials and Regulatory Affairs</li><li>Biomedical Instrumentation (Theory+Lab)</li><li>Clinical Pharmacology and Therapeutics (Theory+Lab)</li></ul>	<ul style="list-style-type: none"><li>Summer Internship</li></ul>
Semester 7	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Capstone Project-I/Internship</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course II</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Graduation Project/Capstone Project-II</li></ul>



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The Woxsen Advantage:

- Industry Endorsed Curriculum encouraging research development
- and analytical thinking
- Applied Learning fostering Transferable Skills
- Live Projects I Lab Sessions/Workshops I Competitions
- 1:1 Mentoring from Industry Experts
- Capstone Project

Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in Science with Biotechnology as a compulsory subject from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
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BE MORE  
FUTURISTIC

Students enrolled in B.Sc (Hons) in Biotechnology will gain a comprehensive understanding of fundamental concepts and proficiency in employing the scientific method. This involves formulating hypotheses, designing experiments, utilizing contemporary technologies to collect relevant data, and conducting in-depth analyses

B.SC. (HONS.) – COMPUTER SCIENCE

Duration: 4 years, Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Fundamentals of Applied Physics (Theory + Lab)</li><li>Fundamentals of Computers (Theory + lab)</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of Applied Chemistry (Theory + Lab)</li><li>Fundamentals of Life sciences</li></ul>	<ul style="list-style-type: none"><li>Experimental Learning Project</li></ul>
Semester 2	<ul style="list-style-type: none"><li>English communication</li><li>Computer organization &amp; Architecture(Core)</li><li>Fundamentals of Electricals and Electronics(Theory+Lab)</li><li>Data Structure and ALgorithms (Theory+Lab)</li><li>Numerical Techniques and Programming (Theory+Lab)</li><li>Existential Dialogue</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Probability and statistics (Theory+Lab)</li><li>Operating system (Theory+Lab)</li><li>Python Programming</li><li>Data Mining and Knowledge Discovery</li><li>Health Economics and Health Management</li><li>Responsible Leadership / Indian Heritage and Culture</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Software Engineering (Theory+Lab)</li><li>Machine Learning and Artificial Intelligence (Theory+Lab)</li><li>Database Management system (Theory+Lab)</li><li>Introduction to Bioinformatics Health informatics System</li><li>Health data Management and Privacy</li><li>The Art of Self Reflection/ Human value and ethics</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-I</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Medical Imaging and Analysis (Theory+Lab)</li><li>Bioinformatics and computational biology(Theory+Lab)</li><li>Bioinformatics Algorithms and Tools (Theory+Lab)</li><li>Healthcare information systems</li><li>Health data Analytics and Predictive Modelling</li></ul>	<ul style="list-style-type: none"><li>Applicative Project</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Image processing and Analysis(Theory)</li><li>Natural Language Processing for Biomedical data (Theory+Lab)</li><li>Big Data Analytics for Biomedical (Theory+Lab)</li><li>Clinical decision support system</li></ul>	<ul style="list-style-type: none"><li>Summer Internship</li></ul>
Semester 7	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course I</li></ul>	<ul style="list-style-type: none"><li>Capstone Project-I</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course II</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Graduation Project/Capstone Project-II</li></ul>



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The Woxsen Advantage:

- Advanced curriculum with rigorous practical exposure
- Deep learning avenues like IT Workshop (SciLab/MATLAB)
- Live Projects I Lab Sessions/Workshops I Competitions
- 1:1 Mentoring from Industry Experts
- Capstone Project

Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in Science with Mathematics as a compulsory subject from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
- Students may Appear for the Online Entrance Test – WAT (Woxsen Aptitude Test), or submit your SAT or CUET score.
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# BE MORE FUTURISTIC

The B.Sc. (Hons.) in Data Science & AI stands as a gateway to the transformative era of innovation fueled by Artificial Intelligence and Data Science. Encompassing a spectrum of fields like Computer Science, Public Health, and Manufacturing, this specialization is tailored to endow students with advanced research, design, and programming skills.

## B.SC. (HONS.) - DATA SCIENCE & AI

Duration: 4 years, Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Environmental Science</li><li>Fundamentals of Applied Physics (Theory + Lab)</li><li>Fundamentals of Computers (Theory + lab)</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of Applied Chemistry (Theory + Lab)</li><li>Fundamentals of Life sciences</li></ul>	<ul style="list-style-type: none"><li>Experimental Learning Project</li></ul>
Semester 2	<ul style="list-style-type: none"><li>Fundamentals of Applied Physics (Theory + Lab)</li><li>Fundamentals of Computers (Theory + lab)</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of Applied Chemistry (Theory + Lab)</li><li>Fundamentals of Life sciences</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Design and Analysis of Algorithms(Theory+Lab) /CORE</li><li>Probability and Statistics (Theory + Lab/T)/Multi</li><li>Database Management Systems (Theory + Lab)/CORE</li><li>Python Programming/MINOR</li><li>Health Economics and Health Management/AEC</li><li>Responsible Leadership / Indian Heritage and Culture/VAC</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Introduction to Artificial Intelligence/CORE</li><li>Optimization Techniques (Theory + Lab/T)/CORE</li><li>Time Series &amp; Regression Analysis (Theory + Lab)/MINOR</li><li>Data Ethics and AI/SEC</li><li>The Art of Self Reflection/ Human Values and Ethics/VAC</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-I</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Applied statistical analysis for AI/CORE</li><li>Data Cleaning and Preprocessing/MINOR</li><li>Data Visualization &amp; Data Analytics for AI/CORE</li><li>Deep Learning for Computer vision/CORE</li><li>Cybersecurity for Data Science/SEC</li></ul>	<ul style="list-style-type: none"><li>Applicative Project</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Natural Language Processing (NLP)/CORE</li><li>Reinforcement Learning and Decision Making (Theory + Lab)/MINOR</li><li>Robotics &amp; Intelligent Systems/CORE</li><li>Cloud Computing/CORE</li></ul>	<ul style="list-style-type: none"><li>Elective - 3 (minor)</li><li>Elective - 4 (Minor)</li><li>Open Elective - 2</li></ul>
Semester 7	<ul style="list-style-type: none"><li>MOOC Course I</li><li>MOOC Course I</li></ul>	<ul style="list-style-type: none"><li>Capstone Project-I/ Internship</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course II</li><li>MOOC Course II</li></ul>	<ul style="list-style-type: none"><li>Graduation Project/ Capstone Project-II/ Industrial Internship</li></ul>



\*Woxsen University follows a Continuous Benchmarking Policy & the above curriculum outline is subject to change without further notice.



### The Woxsen Advantage:

- Applied Learning using the latest software & tools
- Data Science & Artificial Intelligence Lab
- Internships | Case Studies | Group Assignments
- Woxsen Leadership Series: Learn & Network with Visionary Leaders
- Capstone Project

### Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in Science with Mathematics as a compulsory subject from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
- Students may Appear for the Online Entrance Test – WAT (Woxsen Aptitude Test), or submit your SAT or CUET score.
- Students appearing for 12th Grade/ equivalent may apply. However, to secure admission at Woxsen University, clearing 12th Grade/ equivalent exam is mandatory.
- International Applicants can check their eligibility at <https://woxsen.edu.in/international/eligibility/>

BE MORE  
FUTURISTIC

Students choosing B.Sc (Hons.) in Agricultural Science gain a competitive edge, explore innovative solutions to global agricultural challenges, and contribute to a sustainable and food-secure future.The program holds the potential to offer diverse career opportunities in both government and private sectors, including research, extension, administration, agribusiness management, farm management, food processing, consultancy, and higher education.

B.SC. (HONS.) – AGRICULTURAL SCIENCE

Duration: 4 years, Full-Time, Residential Program

TERMS	COURSE TITLE	PROJECTS & INTERNSHIPS
Semester 1	<ul style="list-style-type: none"><li>Environmental Science/VAC-Common</li><li>Fundamentals of Applied Physics</li><li>Fundamentals of Applied Chemistry</li><li>Introduction to Programming</li><li>Problem Solving Skills in Mathematics</li><li>Fundamentals of life sciences</li></ul>	<ul style="list-style-type: none"><li>Experiential Learning Project/AEC (1 credit e-certificate)/Common</li></ul>
Semester 2	<ul style="list-style-type: none"><li>English communication/AEC-Common</li><li>Fundamentals of electricals &amp; electronics</li><li>Numerical techniques and Programming</li><li>Major 1 : Fundamental of Plant Pathology</li><li>Major 2: Choose from Applied Math/Physics/Chemistry/ Biotechnology/Computer Science/ Data Science &amp; AI</li><li>Existential Dialogue / Indian Knowledge Systems</li></ul>	<ul style="list-style-type: none"><li>Research Writing Skills-Societal Project /SEC II-Common</li></ul>
Semester 3	<ul style="list-style-type: none"><li>Major 1: Fundamental of Crop Physiology</li><li>Major 1: Fundamental of Agri-informatcis</li><li>Major 2: Common Subjects from Applied Math/Physics/Chemistry/ Biotechnology/Computer Science/ Data Science &amp; AI</li><li>Analytical Chemistry/Multi* (can be changed as per major 1/2)</li><li>Python Programming/ Life Skills /AEC* (can be changed as per major 1/2)</li><li>Responsible Leadership / Indian Heritage and Culture</li></ul>	<ul style="list-style-type: none"><li>ESR Project/SEC-III-Common</li></ul>
Semester 4	<ul style="list-style-type: none"><li>Plant Breeding and Sustainable Agriculture/Major 1</li><li>Major 2</li><li>Major 2 (Both Major 2 to be Chosen from Applied Math/Physics/Chemistry/ Biotechnology/Computer Science/ Data Science &amp; AI)</li><li>Health Economics and Disaster Management /AEC* (can be changed as per major 1/2)</li><li>Art of Reflecting Self/ Human Values and Ethics</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project-I/Core-Common (Major 1/2)-Common</li></ul>
Semester 5	<ul style="list-style-type: none"><li>Renewable Energy Green Technology/(Major 1/Major 2)</li><li>Major 1: Elective Specialisations From Agricultural Science</li><li>Major 1: Elective Specialisations From Agricultural Science</li><li>Major 2: Elective Specialization</li><li>Major 2: Elective Specialization (Both Elective Specialisations to be chosen from Applied Math/ Physics/Chemistry/Biotechnology/Computer Science/ Data Science &amp; AI)</li></ul>	<ul style="list-style-type: none"><li>Conceptual Project II/Core-Common (Major 1/2)</li></ul>

Semester 6	<ul style="list-style-type: none"><li>Major 1: Elective Specialisations From Agricultural Science</li><li>Major 1: Elective Specialisations From Agricultural Science</li><li>Major 1: Elective Specialisations From Agricultural Science</li><li>Major 2: Elective Specialization</li><li>Major 2: Elective Specialization</li><li>Major 2: Elective Specialization (Both Elective Specialisations to be chosen from Applied Math/Phy/Chem/Biotech/Comp Science/ Data Science &amp; AI)</li></ul>	<ul style="list-style-type: none"><li>Summer Internship</li></ul>
Semester 7	<ul style="list-style-type: none"><li>Summer Internship-Common(choice of Major1/Major2)</li><li>Omics Technology in Agriculture Major1z6</li><li>Disease Management in Crops</li><li>Major 2: International/Industry Expert Courses</li><li>Major 2: International/Industry Expert Courses (To be chosen from Applied Math/Physics/Chemistry/ Biotechnology/Computer Science/ Data Science &amp; AI)</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-I/Research project-I/Industrial Internship-I /(Major 1/Major 2-Choice made in Sem VI)-Common</li></ul>
Semester 8	<ul style="list-style-type: none"><li>MOOC Course I-Common</li><li>MOOC Course II-Common</li></ul>	<ul style="list-style-type: none"><li>Applicative Project-II/Research Project-II/Industrial Internship-II/ (Major 1/Major 2-Choice made in Sem VI)-Common</li></ul>



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The Woxsen Advantage:

- Diverse specializations with focus on latest technologies and trends in agriculture.
- Live Projects, Lab Sessions, Capstone Projects, Conceptual Projects,
- Applicative & ESR Projects.
- Industry Insights & practical knowledge from Expert Academicians and Professors of Practice.
- Customized learning with MOOCs beyond the traditional curriculum.
- Strong foundation in agricultural science and develop practical skills for real-world applications.

Eligibility:

- Applicants must have completed the examination at 10+2 level of schooling or its equivalent in any stream from CBSE, ISC, State boards, IB, Cambridge or other Government recognised boards with 55% aggregate. In addition, all candidates are required to have a good understanding of English language.
- Students may Appear for the Online Entrance Test – WAT (Woxsen Aptitude Test), or submit your SAT or CUET score.
- Students appearing for 12th Grade/ equivalent may apply. However, to secure admission at Woxsen University, clearing 12th Grade/ equivalent exam is mandatory.
- International Applicants can check their eligibility at <https://woxsen.edu.in/international/eligibility/>



# INTERNATIONAL STUDENT EXCHANGE & PROGRESSIVE STUDIES

Woxsen University has established 120+ global partnerships with the world’s leading universities with triple crown and FT Ranked institutions across 50+ countries such as USA, Germany, Canada, Australia, UK, Brazil, France, Italy, Colombia, Russia, Spain and more . The Student Exchange & Progressive Studies programs are structured to enhance the learning experience of the students.

Student Exchange	Progressive Studies
<ul style="list-style-type: none"><li>Provides global exposure &amp; international competencies to students</li><li>Promotes international mobility of our meritorious students</li><li>Acquaints students with challenges &amp; opportunities in the international business world</li></ul>	<ul style="list-style-type: none"><li>Equips students for an increasingly interconnected and globalized business world</li><li>Foster international learning and exposure to broaden student perspectives relating to business applicability &amp; skills</li><li>Provides students an opportunity to get the best of both worlds with two degrees</li></ul>



# FEES, SCHOLARSHIPS & FINANCING OPTIONS

Residential Program  
FEE STRUCTURE  
BACHELOR OF SCIENCE (Hons.)  
Batch : 2025- 2029

ACADEMIC FEE	Year 1	Year 2	Year 3	Year 4	Total
<b>Admission Commitment Fee</b> <i>(one-Time, Non-Refundable)</i>	50,000	-	-	-	50,000
<b>Tuition Fee</b>	1,85,000	1,95,000	1,95,000	1,95,000	7,70,000
<b>Learning Resources</b>	60,000	60,000	60,000	60,000	2,40,000
<b>Total</b>	2,95,000	2,55,000	2,55,000	2,55,000	10,60,000 <i>(Payable to Woxsen University )</i>
<b>Food &amp; Hostel Charges</b>	<b>STANDARD</b> <i>(For 4 years)</i>			<b>PREMIUM</b> <i>(For 4 years)</i>	
<b>Food Charges</b> <i>(5% GST Included)</i>	5,88,000			5,88,000	
<b>Accommodation Charges</b>	6,00,000 <i>(Triple Sharing, Non-AC)</i>			8,54,000 <i>(Triple Sharing, AC)</i>	
<b>Sports Facility &amp; Infrastructure</b> <i>(18% GST Included)</i>	40,000			40,000	
<b>Total</b>	12,28,000 <i>(Payable to INFIZIC LLP)</i>			14,82,000 <i>(Payable to INFIZIC LLP)</i>	
<b>Grand Total</b>	22,88,000			25,42,000	
Students are free to choose between two plans as per their preference					
T&C Apply					
Laundry charges if availed, should be paid directly to the concerned vendor on Pay-per-Use basis					

Scholarships & Financial Assistance:

- Woxsen University offers merit scholarships of upto 50% based on student’s composite score.
- Woxsen offers Easy Monthly Payment (EMI) & Loan options for flexible fee payment.  
*(Note: Please check website for more details)*

# STUDENTS SPEAK



**Mrunal Daund,**  
B.Sc (Hons.)

The curriculum at Woxsen is framed by several well-known figures in respective fields, ensuring a high standard of education. The subjects and courses taught are carefully selected to meet the demands of the industry.



**P Reethika,**  
B.Sc (Hons.)

B.Sc on Biotechnology aligns with my passion for research, offering six specializations for expertise in chosen areas. Woxsen's emphasis on exposure, research opportunities, and professional development makes it the ideal place, reflecting a community that nurtures individuals toward their full potential.



**Guru Teja Reddy,**  
B.Sc (Hons.)

I chose Woxsen due to its blend of advanced curriculum, excellent faculty, and top-notch infrastructure, aligning perfectly with my career goals. The program's dynamic learning environment and emphasis on practical learning have enriched my academic experience.



**Bhuvan N Shah**  
B.Sc (Hons.)

The campus infrastructure is so exquisite that it becomes irresistible to enrol. The new Indoor sports arena, Sportx is a perfect getaway after long day of tiring classes. There are numerous clubs over here like music, dance and many more that keeps you busy throughout the semester.

# ADMISSION PROCESS

Studying at Woxsen University gives you the opportunity to gain knowledge, skills, and outlook which you need to reach your full potential. Applying to Woxsen is a simple process that we will walk you through step by step.



Apply Now



**CAMPUS:**

Kamkole, Sadasivpet, Sangareddy District  
Hyderabad - 502 345, Telangana, India

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**CORPORATE OFFICE:**

Plot No. 1270, H. No: 8-2-293/82/A, 4th floor,  
JSP Jubilee Crown Building, Road Number 36  
Jubilee Hills, Hyderabad, 500033, Telangana

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**T: +91 9154206268**

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