



**SANTOSH**  
Deemed to be University



# B.Sc. Critical Care Technology

Training Future-Ready Professionals for High-Acuity Healthcare



Empowering futures through **30+** years.



Excellence in **Education, Healthcare, Research.**



Most **Approachable Location** in Delhi NCR



**NAAC Accredited Premier** Deemed to be University



**900+** bedded Advanced **Superspeciality Hospital.**

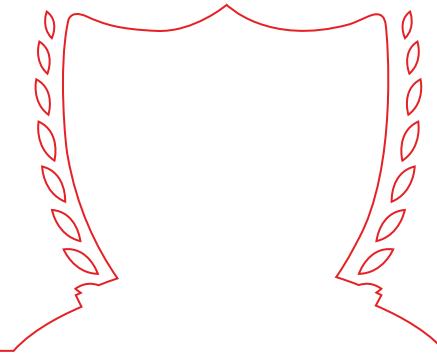


**Holistic Development** of Students



## **Dr. P Mahalingam**

*Founder Chairman  
MD (General Medicine),  
DM (Cardiology), FCCP*



Healthcare has never been the work of doctors alone. It is the collective strength of multiple professionals—diagnosticians, technologists, therapists, rehabilitation experts, and caregivers—working in seamless coordination that truly defines patient outcomes. Yet for decades, Allied Health Sciences remained one of the most under-recognised pillars of the healthcare system.

At Santosh Deemed to be University, we chose a different path.

At a time when Allied Health Sciences attracted limited attention, minimal policy focus, and little institutional investment, we consciously began building structured academic programs, clinical training pathways, and professional dignity for these disciplines. This decision was rooted in a simple belief: no healthcare system can function, sustain, or advance without a strong allied health workforce.

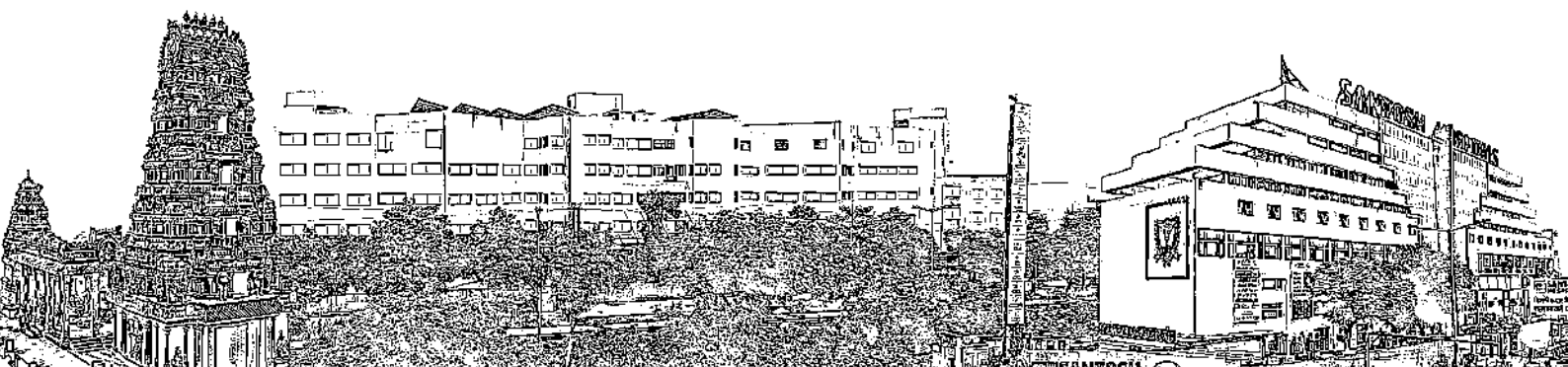
Allied health professionals have often been viewed as supporting roles. In reality, they are the building blocks of modern healthcare—enabling diagnosis, ensuring continuity of care, supporting recovery, and translating medical decisions into real patient outcomes. What no doctor can achieve alone is made possible through the skill, precision, and commitment of allied health teams.

Santosh's integrated university-hospital ecosystem was designed to reflect this philosophy in practice. With a 900+ bed teaching hospital at the heart of our campus, Allied Health Sciences education at Santosh has always been clinical, hands-on, and responsibility-driven. Our students learn not in isolation but as part of real multidisciplinary healthcare teams—understanding their roles, accountability, and impact on patients' lives from the very beginning.

Today, national policy has begun to recognise what we believed in years ago formally. The emergence of structured regulation and professional identity through the National Commission for Allied and Healthcare Professions (NCAHP) reflects a long-overdue acknowledgement of this sector's importance. While frameworks are now taking shape at the national level, Santosh had already laid strong academic and clinical foundations for Allied Health Sciences well in advance.

As the University completes three decades of service in healthcare education and patient care, our commitment remains unchanged. We will continue to strengthen Allied Health Sciences as a core academic and professional domain—guided by quality, ethics, clinical relevance, and social responsibility.

I take pride in our students, faculty, clinicians, and healthcare teams who embody this vision every day. They represent the future of healthcare—not as underdogs, but as essential professionals shaping safer, stronger, and more humane health systems.



## Vice Chancellor Message



**Prof. (Dr) V. N. Mahalakshmi,**  
*Vice Chancellor - Santosh Deemed to be University*



Choosing Allied Health Sciences means choosing a career at the core of healthcare delivery. At Santosh Deemed to be University, we are proud to shape professionals who are competent, confident, and compassionate. Our programmes are grounded in the University's vision of excellence, guided by a strong mission to develop capable healthcare professionals, and upheld by core values of integrity, innovation, teamwork, and social responsibility.

As you enter the academic session 2026-27, you join a rapidly evolving sector under the National Commission for Allied and Healthcare Professions (NCAHP). We recognize that regulatory changes can be challenging, and our dedicated faculty, academic systems, and mentoring support ensure clarity, compliance, and confidence at every stage.

With hands-on clinical exposure, skill-focused training, and career guidance, our graduates are prepared for rewarding opportunities in India and abroad. We warmly welcome you to Santosh University—where meaningful healthcare careers begin.

## Dean's Message

**Prof. (Dr) Moattar Raza Rizvi**  
*Dean - Allied Health Sciences*



At Santosh Deemed to be University, the Faculty of Allied Health Sciences stands as a beacon of innovation, compassion, and clinical excellence. Guided by the vision of the National Education Policy (NEP) 2020 and inspired by Viksit Bharat@2047, we are transforming healthcare education through scientific rigor, digital integration, and AI-enabled learning. Our academic ecosystem emphasizes interdisciplinary collaboration, ethical practice, and emerging alignment with the National Commission for Allied and Healthcare Professions (NCAHP). As Santosh celebrates over three decades of educational leadership, we remain devoted to nurturing AI-literate, future-ready professionals who will advance healthcare with knowledge, empathy, and innovation for a progressive and equitable India.



## Faculty's Message



**Dr. Debapriya Sarkar,**  
*Senior Consultant & Associate Professor Critical Care*



Welcome to the Department of Critical Care Technology, where we build the expertise needed to manage critically ill patients with precision and care. Our department is committed to excellence in education and practical training, combining foundational medical knowledge with hands-on experience in ICU settings. Through advanced simulation labs, real-time monitoring systems, and expert mentorship, we emphasize clinical relevance and life-saving interventions. Our experienced faculty fosters a dynamic and supportive environment that encourages critical thinking and innovation. Join us to begin a transformative journey toward a rewarding career in critical care.

# University Highlights

- 120+ National and International Collaborations
- Advanced Clinical Training from First Year Onwards
- Ethical, Compassionate and Patient-Centric Training Approach
- Integrated Teaching Hospital with High Patient Footfall
- Hands-on Clinical Training for Students
- State-of-the-Art Laboratories and Simulation Centers
- Highly Qualified, Experienced & Research-Oriented Faculty
- Global Collaborations & Academic Partnerships
- SIRO Certified Central Research Facility



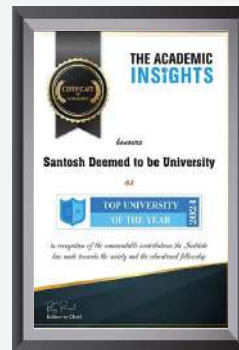
Only Dental College in India with a UNESCO Bioethics Chair



Awarded "A" Rating in Rating Cycle 2023 For Upholding the Highest quality standards



Ranked in 40-71 band in THE Impact Rankings 2024



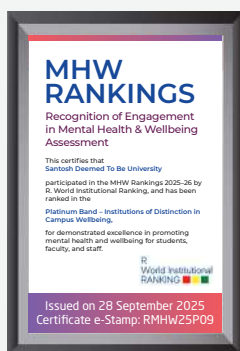
Awarded Top University of the Year-2024 by The Academic Insights



Ranked in 151-200 band in NIRF Rankings 2024



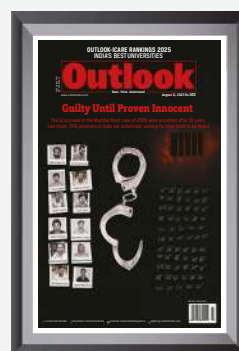
Ranked 8th in Top 28 Private Institutes - Medical in Outlook 2025



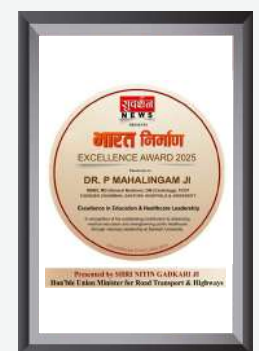
Platinum Band Recognition by R World Institutional Ranking



Ranked 10th in Top 30 Private Institutes - Physiotherapy in Outlook 2025



Ranked 9th in Top 15 Private Medical Universities in Outlook 2025



Excellence in Education and Healthcare Leadership - Excellence Award 2025

## Program **Overview**

**Structured, competency-based critical care training with supervised ICU exposure in monitoring, ventilation, emergency stabilization, and patient safety, preparing graduates for evidence-based practice, research participation, and multidisciplinary teamwork.**

The B.Sc. in Critical Care Technology at Santosh Deemed to be University aligns with the NCAHP Act, 2021 and national competency-based allied health standards. It develops clinically competent, ethically responsible, and technology-proficient professionals for high-acuity care. The curriculum covers biomedical foundations, critical illness, ICU monitoring, ventilatory and organ support, emergency response, infection control, and patient safety through structured teaching and extensive supervised practice. Students undertake progressive postings in ICUs, HDUs, emergency departments, and allied critical care units, strengthening clinical reasoning, communication, teamwork, and protocol-based care.

Emphasizing preparedness, professional growth, and quality-driven delivery, the program equips graduates to support evidence-based services, engage in audit and research activities, and function effectively within multidisciplinary teams across hospitals and advanced healthcare settings. Focused mentoring, simulation-based learning, and continuous assessment ensure safe practice, documentation, and ethical decision-making, while exposure to quality systems, accreditation processes, and digital health tools builds leadership readiness for evolving critical care environments and community-responsive service delivery models globally today.



# Course **Insights**



Knowledge and skills in handling critical care room



Learn from expert medical professionals

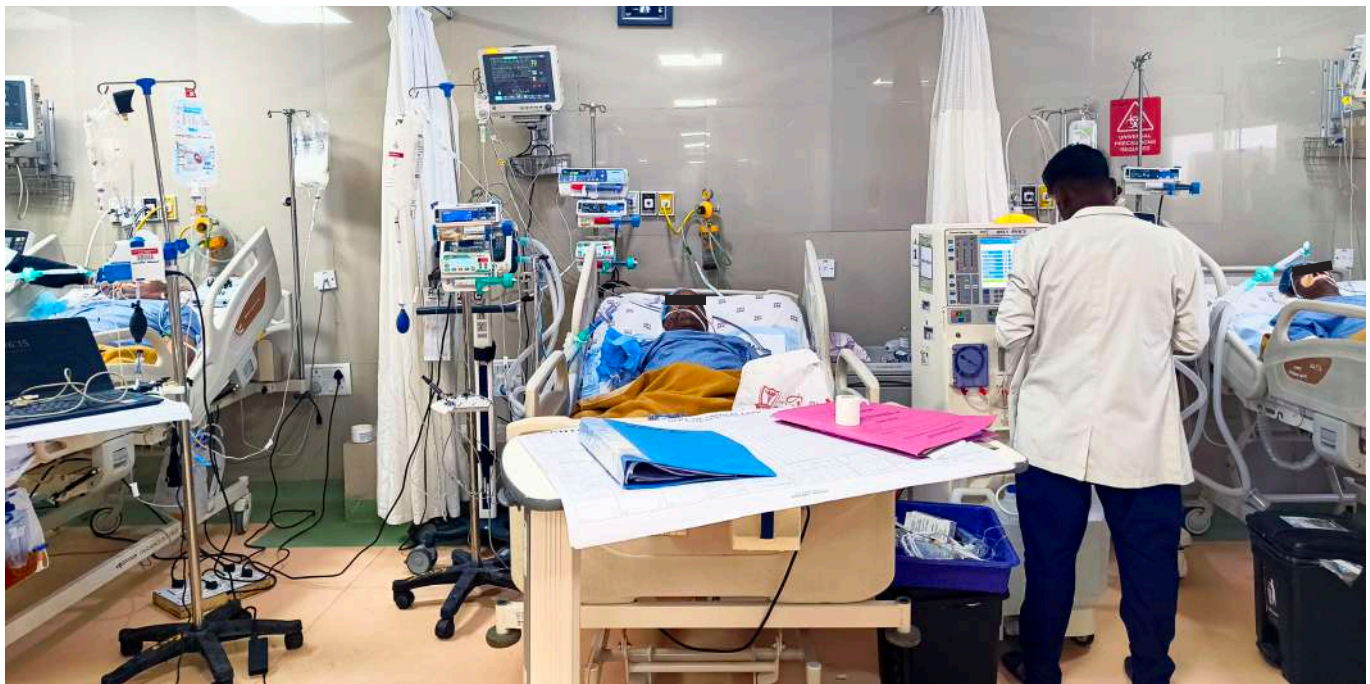


Operate and maintain essential clinical machinery

## Course **Curriculum** (3 Years + 1 Year Internship)

Semester	Focus Areas
1 <sup>st</sup>	Strong foundation in biomedical sciences, infection prevention, patient care fundamentals, and guided clinical exposure to build core healthcare competencies.
2 <sup>nd</sup>	Deeper understanding of human physiology and therapeutic interventions, with structured introduction to ICU settings and clinical workflows.
3 <sup>rd</sup>	Integrated learning of disease mechanisms and critical care principles, with emphasis on patient safety, quality care, and clinical reasoning.
4 <sup>th</sup>	Development of clinical judgment through exposure to patient management, advanced ICU practices, and essential procedural skills.
5 <sup>th</sup>	Intensive hands-on training in critical care, including emergency and trauma management, with focus on monitoring, intervention, and team-based care.
6 <sup>th</sup>	Advanced clinical proficiency with exposure to specialized critical care procedures, emergency response training, and independent decision-making skills.
7 <sup>th</sup> - 8 <sup>th</sup>	<b>Internship:</b> Comprehensive, full-time clinical immersion in ICUs, HDUs, and Emergency Departments to achieve professional readiness and confidence in real-world healthcare settings.





Advanced critical care unit delivering continuous monitoring, life-saving interventions, and compassionate multidisciplinary support for critically ill patients.

## Career Prospects

### Critical Care Technologist

Provides technical and clinical support in Intensive Care Units (ICUs) by assisting with patient monitoring systems, ventilators, dialysis equipment, and other critical care technologies under medical supervision.

### Emergency & Trauma Care Technologist

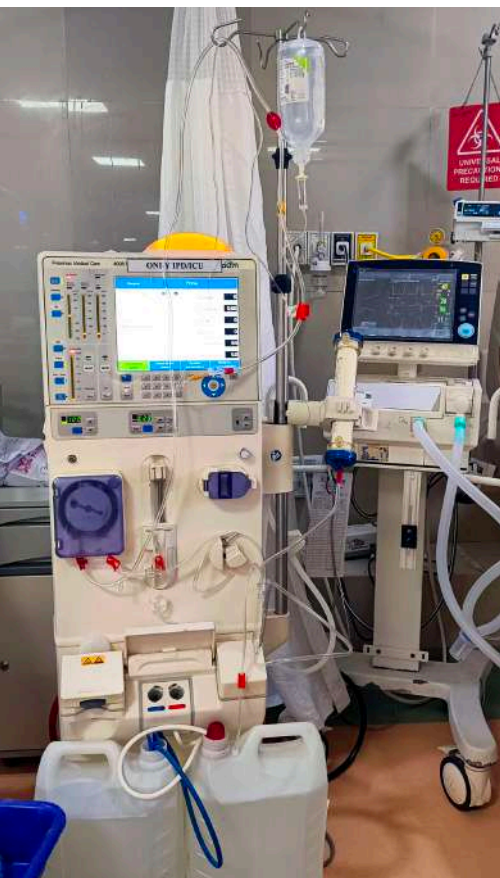
Supports emergency physicians and critical care teams in Emergency Departments by assisting in patient stabilization, airway support, resuscitation procedures, and emergency monitoring.

### Anaesthesia & Perioperative Care Assistant (Critical Care Support Role)

Assists anaesthesiologists and perioperative teams in operation theatres, recovery rooms, and critical care areas with monitoring systems, airway equipment, and patient safety protocols.

### Clinical Application / Device Support Executive

Works with medical technology and healthcare equipment companies to provide clinical application support, training, and technical assistance for ventilators, monitors, dialysis systems, and other ICU devices.



## Clinical Facilities



Critical Care team delivering round-the-clock monitoring, compassionate nursing, advanced life-support, and coordinated multidisciplinary care to ensure patient safety, comfort, and optimal recovery outcomes daily excellence.

Critical Care professionals provide continuous ventilatory support, vigilant monitoring, advanced life support systems, and empathetic bedside nursing to stabilize patients and promote recovery.



## Student's Testimonials



Pursuing B.Sc. Critical Care Technology at Santosh Deemed to be University has truly been a transformative experience. The hands-on ICU exposure, guidance from expert faculty, and access to advanced clinical facilities have significantly enhanced my practical skills. I feel fully confident that this program is shaping me for a rewarding and successful career in critical care.

**Aman Saini**, Batch 2024-2025



Santosh University's B.Sc. Critical Care Technology program offers an ideal mix of theoretical knowledge and hands-on clinical learning. The ICU simulations, real-time case scenarios, and practical training sessions keep me motivated and deeply engaged. I feel confident that this program is helping me build a strong, reliable foundation for a successful future in critical care.

**Harsh Tyagi**, Batch 2024-2025



**Critical care team ensures safe recovery, continuous monitoring, and supportive care during post-intensive care rehabilitation.**



Dedicated critical care professionals deliver advanced organ support, continuous monitoring, and attentive bedside vigilance, ensuring patient safety, stability, and recovery through technology-driven intensive care excellence.

Multidisciplinary healthcare team conducting bedside rounds, reviewing patient status, treatment plans, and care protocols to ensure coordinated decision-making, safety, and quality outcomes daily.



## Admission Process

The students can opt for the Direct Admission process. The desired students can directly contact us for securing a seat in the program. For more details, kindly visit: [admission.santosh.ac.in](http://admission.santosh.ac.in)

- B.Sc. In Critical Care Technology degree is affiliated with Santosh Deemed to be University

## Program Offered

<b>Program Name</b>	B.Sc. In Critical Care Technology
<b>Eligibility</b>	The Candidates who possess 10+2 /HSC with English, Physics, Chemistry and Biology or (Botany & Zoology) [OR] English, Physics, Chemistry Mathematics or its equivalent qualifications from a Recognized Board.
<b>Program Duration</b>	3 Years + 12 months Internship
<b>Program Type</b>	Regular Mode
<b>Fee Structure</b>	Rs. 1,85,000/-

\* As per the latest National Commission for Allied Healthcare Professions (NCAHP) guidelines





Critical care technologist performing arterial blood gas analysis to support rapid diagnosis and patient management.

Multidisciplinary critical care team delivers bedside procedures, advanced imaging, and monitoring for patient safety.



Bedside ultrasound guided procedures enhance precision, safety, and outcomes within advanced critical care settings.

Modern critical care ward offering organized beds, infection control, privacy, and continuous patient monitoring.





**SANTOSH**  
Deemed to be University



## MOST APPROACHABLE LOCATION

**21**  
Kilometres

India Gate,  
New Delhi

**17**  
Kilometres

Akshardham  
Temple, Delhi

**16**  
Kilometres

National Expressway  
3, Ghaziabad

**12**  
Kilometres

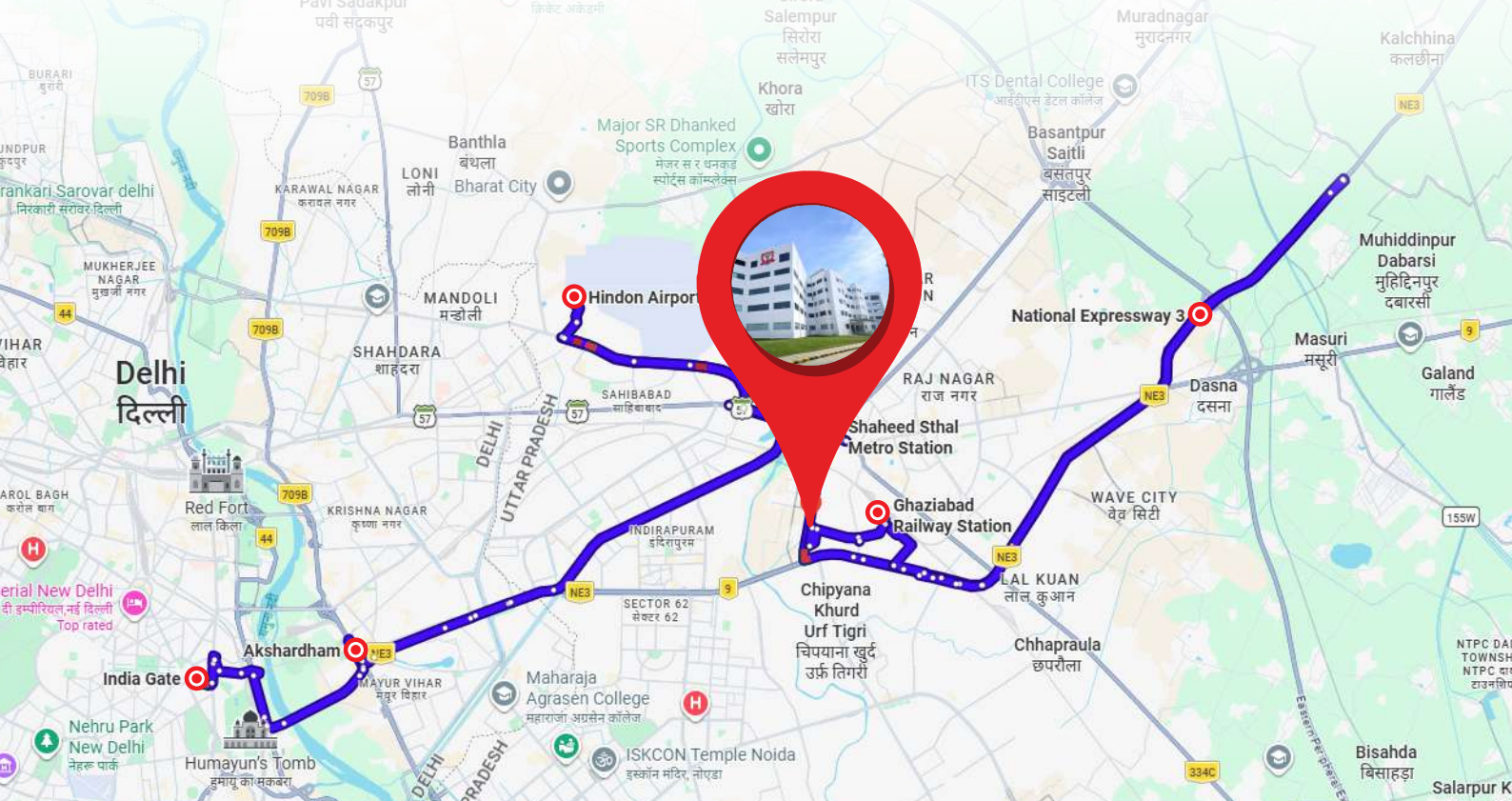
Hindon Airport,  
Ghaziabad

**4**  
Kilometres

Shaheed Sthal Metro  
Station, Ghaziabad

**2**  
Kilometres

Ghaziabad Junction  
Railway Station



## ADMISSION HELP DESK

+91 78385 54401 / 04 / 10 / 86

Admission Cell, 4<sup>th</sup> Floor, No.1, Santosh Nagar, Pratap Vihar, Ghaziabad(Delhi NCR)

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