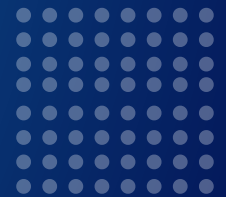




NITTE PHARMA INNOVATION CENTRE



Convergence of Academia and Industry

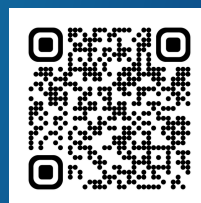
A Centre for developing Pharmaceutical Formulation, Innovation, Regulatory support & Skill Development

Empowering the Next Generation of Pharma Leaders



Contact us at

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A Tribute to a Visionary



Shri N Vinaya Hegde

According to the Cambridge Dictionary, a visionary is a person who can imagine how a country, society, or industry may develop in the future and can plan for it in an appropriate-often wise-manner. The Oxford Learner's Dictionary describes a visionary as someone who possesses the ability to think about or plan for the future with great imagination, intelligence, and foresight.

Shri N. Vinaya Hegde (1939–2026) exemplified these qualities through his firm belief in social transformation through education. Guided by this conviction, he established a school in a remote village under the Nitte Education Trust in 1979. Over the years, this modest beginning evolved into three campuses housing more than 40 institutions offering around 160 academic programs, including medicine, dentistry, engineering, pharmacy, and several other disciplines.

Recognizing the growing importance of pharmaceutical education, he founded NGSM Institute of Pharmaceutical Sciences under the Nitte Education Trust in 1983. The institution has since grown into one of the premier pharmacy schools in the country. Perceiving the gap between academia and industry, the lack of industry-like training facilities, and the limited entrepreneurial ecosystem, he envisioned the establishment of a Formulation and Development Facility under the NGSM Institute of Pharmaceutical Sciences to address these challenges.

Today, that vision has become a reality. Nitte Pharma Innovation Center is a state-of-the-art facility for the development of solid, semi-solid, and liquid dosage forms, along with advanced testing laboratories, has been established in accordance with GMP norms at a cost of ₹400 lakhs. NGSM Institute of Pharmaceutical Sciences is perhaps among the first educational institutions in the country to develop such an advanced training and development facility.

This facility will be open to researchers, students, entrepreneurs, and industry collaborators, creating new avenues for innovation, training, and collaboration. We sincerely acknowledge and thank the leadership of Nitte and our visionary mentor, Shri N. Vinaya Hegde, for their invaluable support and guidance in making this initiative possible.



About NPIC

Nitte Pharma Innovation Center (NPIC), an initiative of NITTE (Deemed to be University), is established with the vision of promoting skill development, innovation, research, and entrepreneurship in pharmaceutical sciences. The Center serves as a dynamic platform that integrates academic excellence with industry-oriented practices, enabling translation of knowledge into practical pharmaceutical solutions. In alignment with national priorities and the university's innovation ecosystem, the Center focuses on formulation development, hands-on training, research support, and consultancy services. In response to the growing emphasis on skill-based education and innovation, the Center focuses on training students in the development of liquid, semisolid, and solid dosage forms, supporting industry-oriented formulation services, and promoting research in advanced drug delivery systems aimed at targeted delivery, reduced toxicity, enhanced efficacy, and sustained release.

Vision

To attain excellence in pharmaceutical formulation development, innovation, research, and skill-based training through strong integration of academia and industry, contributing to quality healthcare and societal well-being.

Mission

To impart quality education and training in pharmaceutical dosage form development, creating competent and skilled professionals with strong knowledge of formulation, manufacturing processes, and regulatory practices.

To promote innovation, translational research, and industry-academia collaboration while nurturing a culture of integrity, ethical standards, and social responsibility.

Objectives

Student training in industrial conditions and standards

Collaborative projects with industry and academia

Startup incubation facility

Facilities

The Nitte Pharma Innovation Center is equipped with dedicated facilities for formulation development, evaluation, and training, supporting a wide range of pharmaceutical dosage forms.



Formulation Development Facility

- Solid dosage forms
- Liquid dosage forms
- Semisolid dosage forms
- Pre-formulation and evaluation
- Stability studies

Training & Skill Development Facility

- Hands-on training workstations
- Demonstration
- Evaluation and quality testing

Incubation center

- Dedicated desk for startups and entrepreneurs for developing pharmaceutical, nutraceutical and food supplement formulations
- Testing facility for the formulation developed

Other facilities

- Cell culture lab, Animal house
- Zebra fish, Drosophila research lab
- CADD lab
- Stem cell research lab

Equipment and analytical instruments



Solid Dosage Formulations

Multi Mill | Vibrosifter | Rapid Mixer Granulator (RMG) | Fluid Bed Dryer (FBD) | Conta Blender | Tray dryer | Tablet Compression Machine | Tablet counter | Capsule Filling Machine | Capsule counter | Sieve shaker | Coating pan | Tube sealing and crimping machine | ROPP capping machine | Coating pan |



Liquid & Semisolid Formulation

Mechanical stirrers and homogenizers | Heating and mixing units | pH meter and viscometer | Paste kettle | Homogenizer | Liquid filling machine | Induction sealing machine | Tube filling machine | Tube sealing and crimping | Capping machine |



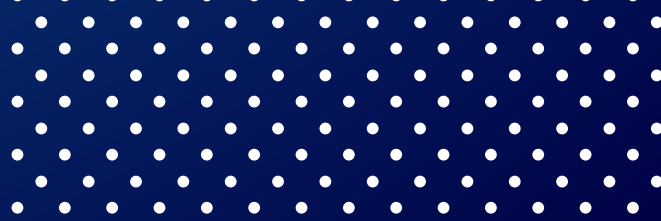
Testing & Quality Control

Disintegration Test Apparatus | Tablet Hardness Tester | Friability Test Apparatus | Dissolution Test Apparatus | Tap density tester | Balance and basic analytical instruments | Stability chambers | Photostability chamber | UV-VIS spectrophotometer | HPLC | Zeta sizer | Atomic absorption spectroscope | FTIR | Lyophilizer | Brookfield viscometer | Semi auto analyser |



Laboratories

Cell culture | Behavioral study | CADD | Nano science | NCE synthesis | Phytochemistry | Pre-clinical pharmacology | Formulation R&D | Zebra fish | Molecular biology | Animal house |



Services Offered

Training Programs

Skill-based training for UG/PG students in formulation development, analytical methods, validation, documentation, and regulatory requirements.

Faculty Development Programs (FDPs) on NCE synthesis, CADD, pre-clinical screening, formulation development, and validation.

Industry-oriented short-term training for startups and entrepreneurs.

Hands-on workshops and certification programs.

Formulation Development and Manufacturing

Development of solid, liquid, and semisolid formulations

Prototype formulation support for startups and innovators

Formulation optimization and troubleshooting

Testing and quality control

Pre-clinical studies using animal experimentation

Research & Consultancy

Collaborative research with academia and pharma industry

Consultancy services in formulation development and evaluation

Our expertise

- Pharmaceutical dosage form development tablets, capsules, liquids, semisolids
- Pre-formulation and excipient selection
- In-process quality control (IPQC)
- Stability studies and data interpretation
- GMP and regulatory awareness
- PK PD studies
- Pre-clinical studies
- Cell line-based studies
- In silico studies
- Drosophila melanogaster
- Danio rerio (Zebrafish)

The execution team

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Advisory board

Dr. M.S.Moodithaya	Vice Chancellor, Nitte (DU)	Microeconomics
Dr. Indrani Karunasagar	Director, NUTEC	Marine biotechnology
Dr. Anirban Chakraborti	Director, NUCSER	Molecular genetics
Dr. Praveen Kumar Shetty	Director, R&D, Nitte (DU)	Cancer biology
Dr. Mohan Kumar	Professor, KSHEMA	Stem cell research
Dr. Veena Shetty	Professor, KSHEMA	Microbiology
Dr. Sunil Chiplunkar	Vice President - Business Development, Group Pharmaceuticals Ltd, Bangalore	Pharma Industry
Dr. Hrishikesh Damle	CEO, Atrimed Pharmaceuticals Pvt. Ltd	Pharma Industry
Mr. H. Sreenivasa	MD, Venkat Pharma, Bangalore	Pharma Industry
Mr. Srivatsa Rao	General Manager, Regulatory Practice, Freyr solutions	Pharma Industry
Dr. Subramanya Bhat	Director, Cinoic Life sciences, Bangalore	Analytical R&D, QA, and Quality Control
Mr. Nitya Chetan C	Legal Advisor, Nitte (DU)	Law

Nitte Institutions

Health Science Institutions

1. K.S Hegde Medical Academy, Mangalore
2. A.B Shetty Memorial Institute of Dental Sciences, Mangalore
3. Nitte Meenakshi Institute of Craniofacial Surgery, Mangalore
4. Nitte Gulabi Shetty Institute of Pharmaceutical Sciences, Mangalore
5. Nitte College of Pharmaceutical Sciences, Bengaluru
6. Nitte Usha Institute of Nursing Sciences, Mangalore
7. Nitte Institute of Physiotherapy, Mangalore
8. Nitte Institute of Speech & Hearing, Mangalore
9. Nitte University Centre for Science Education & Research, Mangalore
10. Leela Narayan Shetty Memorial Cancer Institute, Mangalore

Research Centres

14. Nitte University Centre for Stem Cell Research & Regenerative Medicine (NUCSRm)
15. Leela Narayan Shetty Centre for Neurosciences & Research, Mangalore
16. KSHEMA IVF: Fertility and Reproductive Medicine Centre, Mangalore
17. Nitte University Centre for Animal Research & Experimentation (NUCARE)

Engineering Institutions

18. Nitte Mahalinga Adyanthaya Memorial Institute of Technology, Nitte
19. Nitte Meenakshi Institute of Technology, Bengaluru
20. Nitte Institute of Architecture, Paneer, Deralakatte
21. Nitte School of Architecture, Bengaluru

Management Institutions

22. Justice K.S Hegde Institute of Management, Nitte
23. Nitte School of Management, Bengaluru
24. Nitte Institute of Hospitality Services (NIHS)
25. Nitte Education International, Pumpwell, Mangalore
26. Nitte Institute of Communication, Mangalore
27. Nitte Institute of Professional Education, Mangalore

Technical Institutions

28. Nitte Rukmini Adyanthaya Memorial Polytechnic, Nitte
29. NMIT Polytechnic, Bengaluru
30. Mulki Ramakrishna Punja Industrial Training Institute, Thokur
31. Nitte School of Fashion Technology and Interior Design, Bengaluru

Science and Commerce Institutions

32. Dr. Nitte Shankara Adyanthaya Memorial First Grade College, Nitte
33. Dr. Nitte Shankara Adyanthaya Memorial First Grade College, Bengaluru
34. Dr. Nitte Shankara Adyanthaya Memorial Pre-University College, Nitte
35. Dr. Nitte Shankara Adyanthaya Memorial Pre-University College, Mangalore
36. Dr. Nitte Shankara Adyanthaya Memorial Pre-University College, Yelahanka, Bengaluru
37. Nitte Pre-University College, Shivakote, Bengaluru

Schools

38. Dr. Nitte Shankara Adyanthaya Memorial English Medium High School, Nitte
39. Dr. Mundkur Ramanna Shetty Memorial English Medium High School, Thokur
40. Dr. Nitte Shankara Adyanthaya Memorial Higher Primary School, Bolakodi
41. Nitte International School, Bengaluru
42. Nitte Primary School, Sahakarnagar, Bengaluru
43. Nitte Poorva Prathamika Shale, Sahakarnagar, Bengaluru

Satellite Health Centres

1. Thalipady Guthu Jankalyana Samithi Health Centre, Thalipady
2. Sevanjali Health Centre, Farangipete
3. Nitte vidyadhiraja Health Centre, Mudipu
4. Sadananda Health Centre. Subramanya
5. Kowdoor Gopala Hegde & Manorama Hegde Medical Block, Bailur
6. Kowdoor Srinivas Hegde Dental Clinic, Bailur
7. Nitte Meenakshi Hegde Health Centre, Hejamadikodi
8. Nitte Health centre, NMAMIT, Nitte
9. Justice KS Hegde Dental Clinic, Nitte
10. Nadiguthu Siddhu Shetty Health Centre. Mundkur
11. Rural Health Training Centre, Sasihithlu
12. Urban Health Training Centre, Kadri
13. Sharada Dhanvanthari Charitable Hospital. Sringeri
14. K.S. Hegde Dental Clinic, Madikeri
15. Rev. Fr. Robert Z.M.D souza Health Centre, Nada
16. Chittoor Manjaya Shetty Health Centre, Marnakatte
17. Rtn. B.Sundar Hegde Health Centre, Dabbekatte
18. Mangalore University Health Centre, Konaje

Contact us at

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